Elderly Populations in Disasters:
Hospital Guidelines for Geriatric Preparedness

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EXECUTIVE SUMMARY

PURPOSE

This toolkit, *Elderly Populations in Disasters: Hospital Guidelines for Geriatric Preparedness*, has been developed by the New York City Department of Health and Mental Hygiene (www.nyc.gov/health) (DOHMH) to help hospitals prepare for treating and managing elderly patients during disasters. The toolkit is designed to:

- Enable New York City (NYC) hospitals to identify gaps in their emergency plans to meet the needs of geriatric patients during a disaster
- Identify and develop tools and methods to fill these gaps, and to guide the health care community in caring for elderly populations during disasters so this vulnerable group receives the best care possible
- Encourage the development of model plans that can be adapted to specific health care institutions

The recommendations in the toolkit are specifically tailored to meet the needs of elderly patients (especially those who are frail) during disasters. Some of the protocols may be applicable to the care of other non-elderly, vulnerable adults, including those who:

- Have lost the ability to make decisions due to chronic neurological or psychiatric illness
- Are developmentally disabled
- Are physically disabled

Lessons Learned from Recent Disasters

The topics covered in the kit were gleaned from experiences in previous disasters⁹,¹¹-¹⁴ and aim to address the following challenges:

- The difficulty of locating and tracking seniors and other vulnerable adults
- The limited number of shelter options, and the difficulty of accessing them
- The limited number of geriatric specialists available to care for frail, elderly patients
- The need to assemble, in the planning stages, a multidisciplinary group of professionals with geriatric training or experience
- The need to foster cooperation between community-based and citywide agencies with geriatric expertise
- The tendency of the frail elderly people who are already vulnerable to become more so during and after a disaster (in addition to physical limitations and cognitive disorders, chaotic circumstances and unfamiliar settings may heighten confusion and agitation, complicating care)

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• The need to address post-disaster, long-term needs; even individuals not needing immediate medical care may need adequate housing, basic services and access to entitlements, such as Social Security checks or insurance coverage papers
• The need to provide information and support to families seeking missing adults

**WHY A GERIATRICS TOOLKIT?**

There are myriad issues affecting elderly adults that become accentuated in emergency situations. Facility administrators and clinicians need to be aware of the following concerns.

**Physical Vulnerability and Older Adults**
The elderly population is physiologically heterogeneous—healthy, older adults generally do well under ordinary circumstances, but in a disaster, the loss of physiological reserves associated with aging and other physical limitations, such as sensory deficits, cognitive disorders and chronic illnesses, can put them at risk.

Older adults have other risk factors; they tend to have the lowest average income of all age groups, and elderly immigrants may have language barriers that hinder their ability to communicate and advocate for themselves.

**Health Care Shortages**
During a disaster, existing health care shortages would have the greatest impact on the elderly, who currently: (1) comprise the highest number of patients coming to hospitals and emergency rooms by ambulance; (2) have the highest hospitalization rate, highest mortality and greatest length of stay for influenza-related hospitalizations; and (3) use a disproportionate share of hospital resources for virtually all medical illnesses.

Emergency rooms are often used as safe havens when patients’ regular caregivers are unavailable; during a disaster, this trend is bound to be magnified as elderly individuals lose access to services and caretakers.

**A National Dearth of Geriatricians**
In the United States, there is a shortage of geriatricians, and although New York State has more geriatricians than the national average, there were only 722 in the state as of 2005. Many non-geriatricians care for elderly patients but often are not trained to care for those who are truly frail, leading to age biases, lessened expectations, inadequate assessment and preventable medical errors.

**Lessons Learned from Previous Disasters**
Prior disasters illustrate just how vulnerable the elderly are—approximately 75% of people who died during Hurricane Katrina were 75 years of age or older. As was true in New Orleans at that time, many of the elderly in NYC are poor and/or live alone, placing them at risk.

During the 2001 World Trade Center attacks, the average age of the individuals who died...
was 39 years, yet many home-bound patients (most of whom were elderly) were affected, unable to receive routine, daily assistance in the days after the attacks, and remained without assistance until found in their homes by others. During the August 2003 blackout in the city, most adult hospital admissions were elderly individuals whose electrically-powered medical devices failed.

The need for hospitals to pay special attention to the frail elderly and other vulnerable populations in a disaster has been increasingly recognized; hospitals must be prepared to treat these patients, who may be sicker than others or who may need assistance and amenities not typically provided by acute care facilities.

ASSEMBLING THE TOOLKIT

Reviewers
The Geriatrics Disaster Preparedness Advisory Committee was formed in 2007. Committee members contributed ongoing expertise and reviewed and revised the Toolkit. Committee membership was comprised of experts in the fields of geriatric medicine, emergency medicine, disaster preparedness, pharmacology, nursing, social work, geropsychiatry, epidemiology, public health, family care-giving, palliative care, ethics, law, administration, and ambulatory, hospital and long-term care.

Research and Resources
The authors of the Toolkit completed a comprehensive review of existing resources (and others adaptable to geriatric patients) and interviewed a wide range of experts in the fields mentioned above, most of whom served on the Advisory Committee and were available for interim guidance. These individuals, in turn, identified other experts, expanding the membership of the advisory group. The authors kept updated on initiatives at community organizations and alliances, and communicated regularly with colleagues and Advisory Committee members.

Overview of the Toolkit
The Toolkit is organized into 7 sections, each with basic information on that section’s topic areas, followed by specific guidelines and tools for their implementation. The topic areas are:

- Section 1. Triage and Ongoing Risk Assessment
- Section 2. Soft Care Area
- Section 3. Clinical Care of Acutely Ill Elderly Individuals
- Section 4. Medications: Prescribing and Dispensing
- Section 5. Mental Health Issues
- Section 6. Ethical and Legal issues
- Section 7. Palliative Care

GENERAL GUIDELINES FOR FACILITIES

In addition to the Section recommendations, the Committee developed general
recommendations and planning guidelines for health care institutions that are preparing plans to meet the needs of the geriatric population in their communities during disasters. The guidelines are:

1. **Include in the Facility’s Institutional Disaster Plan Specific Guidelines for the Care of Geriatric Patients**

2. **Identify Staff with Expertise in Geriatric Medicine and Related Disciplines**
   Ensure that all disciplines are represented on the Emergency Preparedness Committee, including:
   - **Geriatric specialists** to serve as planners, staff leaders, educators and direct care providers or consultants
   - **Geropsychiatrists** or other mental health professionals with geriatric training
   - **Geriatric-trained registered and advance practice nurses and care providers**
   - **Experienced hospice and palliative care physicians and other clinicians**
   - **Ethicists or members of the hospital’s Ethics Committee**, including the facility’s lawyers
   - **Professionals in social work, nursing case management or related fields** who have expertise in accessing community resources for safely discharging elderly patients and ensuring follow-up care
   - **Professionals in crisis and grief counseling** for families and elderly individuals

Institutions that lack experts in the above fields should use outside consultants for planning and staff training.

3. **Plan to Implement Guidelines and Policies**
   These plans should address key issues in managing the frail elderly and other vulnerable adults; existing model policies include:
   - New York State Task Force draft guidelines for ventilator allocation (to view these guidelines, visit: [www.health.state.ny.us/diseases/communicable/influenza/pandemic/ventilators/docs/ventilator_guidance.pdf](http://www.health.state.ny.us/diseases/communicable/influenza/pandemic/ventilators/docs/ventilator_guidance.pdf))
   - Plans for deploying unaffiliated clinical providers within the Incident Command Structure

4. **Update or Adopt New Policies Addressing Key Issues**
   These policies may include:
   - The use of non-clinical volunteers from hospital staff and prescreened volunteers from the community to assist in patient care, including feeding, toileting and other basic tasks
   - Clinical decision-making for patients who are unable to do so and have not executed a formal advance directive, such as a health care proxy

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5. **Provide Training in Basic Geriatric Care for Health Care Professionals and Other Staff**

Ensure basic geriatric concepts are taught throughout the institution, including targeted in-service training and provision of the following resources:

**Guidelines on:**
- When to obtain geriatric consultation or ongoing care by a geriatrician
- Dealing with patients with dementia
- Medications, including prescribing, dispensing and administration appropriate for the geriatric population; include dosing information, drug side-effects common in older patients and information on drugs that are inappropriate for the elderly
- Assessing and managing pain and other distressing symptoms that commonly occur in patients with complex, progressive, chronic or acute illnesses
- Principles of ethical and legal issues, including:
  - The special circumstances in disasters
  - The care of patients who are not expected to survive, including decision-making for patients who are unable to do so
  - The use of opioids and sedatives for terminal ventilator withdrawal, intractable pain and other symptoms
- The use of translation services
- When and how to obtain and administer palliative care and hospice services

**Methods of:**
- Communicating with the hearing and visually impaired
- Communicating with older patients and their families by staff who can provide mental health services, such as psychological first aid, during and immediately following a disaster
- Coping with angry responses from patients and families denied access to ventilators
- Providing grief counseling and emotional support for patients and caregivers

6. **Maintain an Inventory of Essential Inpatient and Outpatient Medications to Serve the Special Needs of the Elderly**

Be sure to include:

- Special formulations, such as liquid, crushable and low-dose medication
- A minimum 4-day supply of common outpatient medications for elderly patients who may not be able to return home
- An adequate supply of injectable morphine, and other medications and equipment needed for palliative care

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7. Establish Methods of Identifying and Tracking High-risk, Functionally-impaired Patients
Initiate this type of triage in the emergency department (ED) to facilitate admission to special locations in the hospital or other follow-up care.

8. Determine the Type and Location of Geriatric Care in the Institution
This may include an Acute Care for Elders (ACE) unit, a special bed cluster, a mobile ACE unit, a mobile geriatric consultation team and a Soft Care Area (see next Guideline).

9. Provide a Soft Care Area
This area is a secure, specialized holding space staffed by clinical and other trained employees to care for medically stable but frail elderly people and other vulnerable adults who cannot be safely discharged from the ED because of the need for psychosocial support and medical oversight. Patients with similar requirements who are ready for discharge from acute wards may be housed in the Soft Care Area when inpatient beds are in short supply.

10. Identify Frail or Disabled Elderly Individuals and Other Vulnerable Adults Before a Disaster
Outpatient providers and ED staff should identify in advance frail or disabled individuals to ensure they have emergency preparedness plans in place. Information provided by staff should include:

- Advice for patients, their caregivers and their adult children about disaster preparedness methods for the home
- Referral to community agencies and community-based disaster planning resources, such as shelter-in-place initiatives, alternative care sites or alternate, home-based resources

11. Identify Individuals with Terminal or Life-threatening Illnesses Who Do Not Wish to be Hospitalized and Whose Care Could be Provided at Home
Outpatient providers should be alert to this option and:

- Be supplied with blank documents, such as health care proxy and non-hospital Do Not Resuscitate forms, as well as information on hospice referral
- In the case of emergency department providers, advise patients to discuss these options with their primary care physicians

12. Identify Alternative Care Sites
Health care institutions should work with city agencies to locate appropriate sites (such as nursing homes, clinics, inpatient hospices or other low-acuity care facilities) for patients who will not require a hospital bed but may require subacute, custodial, palliative or end-of-life care.

Once sites are identified, institutions and agencies should establish: (1) the means of communication and transport between facilities; (2) standards of admission; (3) memoranda of understanding or contractual agreements, all of which are subject to

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immediate activation in the event of a disaster.

13. **Establish Relationships with Community-based Senior Service Agencies and Create Coordinated Disaster Plans for All Vulnerable Adults**

14. **Plan for a Family Information and Support Center**
   This center should be designed to serve adults seeking missing adults during disasters, and should include special areas and services for families and other concerned parties connected to frail elderly or vulnerable adults.

15. **On an Ongoing Basis, Identify and Credential Unaffiliated Professionals Who Are Willing to Serve as Volunteers**
   Recruit individuals from the fields of geriatric medicine, nursing and related fields, (especially residents in the local community). Establish in advance mandates on credentialing unaffiliated, professional volunteers during a disaster.

16. **Consider Using Non-clinical Volunteers to Help Staff**
   Health care institutions should, on an ongoing basis, identify, credential and train volunteers, especially those who live nearby, and enable non-clinical volunteers (as well as non-professional hospital staff and family members) to provide direct patient services, such as feeding, toileting and other basic tasks.

**SUMMARY**

A disaster is a dynamic situation that calls for flexibility, creativity and action, since mitigation often requires changes in normal processes and the unexpected assumption of new duties. *Elderly Populations in Disasters: Hospital Guidelines for Geriatric Preparedness* is a repository of best practices from various medical disciplines that aim to guide hospitals in planning for the care of elderly patients during disasters.

The guidelines are designed as templates to help institutions think and plan differently for the care of frail elderly and other vulnerable adults, and can be modified to fit the needs of individual institutions. The overarching goal of the toolkit is to help health care institutions achieve the highest standard of care possible and have staff perform as well as possible in caring for elderly individuals during disasters.
REFERENCES


12. Caring for Seniors in a National Emergency: Can We Do Better? U.S. Special Senate Committee on Aging (testimony of Jean Cefalu, R.N.)


www.ilcusa.org/media/pdfs/epopib.pdf


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SECTION 1. TRIAGE AND ONGOING RISK ASSESSMENT

PURPOSE

This section provides guidance for health professionals and other staff in assessing elderly patients who present to hospital emergency departments (EDs) during a disaster. The recommendations are aimed at helping hospitals plan for large-scale disaster triage that specifically addresses the presentations and needs of elderly patients.

BACKGROUND

Triage and the Frail Elderly
The purpose of triage is to provide the greatest good for the largest number of people. In a disaster, when resources are limited, the first priority is to identify and treat those who need immediate care and have the greatest likelihood of survival. Young, otherwise healthy individuals often receive more life-saving care than older, chronically ill individuals. EDs must be prepared to address diagnostic difficulties, prognostic uncertainty, ethical dilemmas and social needs specific to older patients. See Section 1, Tool 1-1, Triaging Elderly Individuals and Others during Disasters, page 22 for more information on triage of elderly and other vulnerable adults.

Diagnostic Difficulty in Elderly Patients
Accurate and timely diagnosis of patients of all ages is critical for prioritization during triage. Unfortunately, many factors hinder accurately diagnosing acutely ill, elderly patients, resulting in delayed diagnoses, under- and over-treatment and poor outcomes.1-2 Basic precepts to consider when assessing elderly individuals include:

- **Physiologic heterogeneity.** When evaluating acutely ill, older adults, triage personnel must take into account that these individuals have a variable range of physical and cognitive function.

- **Unknown baseline functional status.** Many older adults coming to EDs have delirium3 or dementia,4,5 making it difficult to obtain an accurate medical history. In addition, while many have dementia or physical impairments,6 others have normal baseline function, which may be difficult to discern in acute illness. Whenever possible, care providers should try to ascertain baseline functional status from reliable sources, including family members, home attendants or nursing home staff.

- **Chronic disease and comorbidity.** Multi-system disease creates symptomatic “noise” in patients and is common in geriatric presentations. Multiple diagnoses may be possible; therefore, physicians should not necessarily “unify” the diagnosis (combine symptoms into a single diagnosis). Also, pathologic or physiologic changes due to aging may be interpreted as abnormalities on X-rays or other tests, even if no clinically important disease is present; conversely, tests...
may be normal despite significant clinical illness. These findings can be very misleading and result in misdiagnosis.

- **Atypical presentations.** Many acute illnesses present atypically in the elderly. Commonly, diseases present with altered mental status, instead of, or in addition to, presenting with classic signs or symptoms that would direct the clinician to the affected organ system. There also may be a paucity of symptoms, or signs may be subtle or absent.

- **A lack of trained geriatricians.** Geriatric medicine training develops skills in functional assessment, cross-specialty geriatric prescribing, and management of multi-system disease and chronic illness. The field also prepares clinicians to manage medical and behavioral problems in patients with dementia and a range of other syndromes that affect both frail and relatively healthy elderly patients.

The current severe shortage of certified geriatricians likely contributes to adverse events in the elderly that would otherwise be preventable. As is true in children, misdiagnosis is common in the treatment of older patients.

**Medically Stable Patients Unable to Go Home**

As many as 67% of the elderly patients who present to EDs have some degree of functional impairment that creates both non-medical and medical demands for which EDs are not well equipped. In a disaster, this problem may be compounded by the arrival of patients in the ED whose home care services have been disrupted or whose caregivers may not be available due to disaster-related circumstances.

Because of the high rate of coexisting chronic illness and syndromes in this group, patients may require attention even though they appear to be otherwise medically stable and ready for discharge. Administering medication, observation for subtle clinical changes, preventing falls, feeding and toileting are tasks that would fall to ED and holding-area staffs, and would affect pharmacy inventory. (For more information, see Section 2, Soft Care Area, page 30).

**Ethical Dilemmas**

During a disaster, important ethical dilemmas about the care of seriously ill, elderly patients will surface and require resolution in the ED. Ethical and legal guidelines prepared in advance can facilitate appropriate allocation of resources, protect the rights of patients and alleviate concerns among health professionals facing life-and-death decisions. These issues are addressed in detail in Section 6, Ethical and Legal Issues, page 105.

**SUMMARY**

Complex medical, social, and ethical factors are involved in making triage decisions for the frail elderly, which can also be true of certain non-elderly adults who are vulnerable, functionally impaired, or have a history of life-threatening or terminal illness.
PLANNING GUIDELINES

The following guidelines can help health care facilities and their staffs plan for and manage geriatric populations during disasters.

1. Identify Facility Staff with Geriatric Expertise

   • **Geriatric specialists as planners and staff leaders.** Hospitals should identify staff leaders to serve on the Emergency Preparedness Committee, provide staff education and oversee geriatric care during a disaster who are experienced in, and knowledgeable about, geriatric clinical care.

   Ideally, a clinical staff leader would be an experienced physician holding a Certificate of Added Qualifications in geriatrics or an advance practice nurse with training in geriatrics (a gerontologic, nurse practitioner, or clinical nurse specialist).

   The Committee should also include at least one representative from social services, such as a social worker or nurse case manager.

   • **Additional clinicians with geriatric training or expertise.** Clinical department heads should identify clinicians with training or experience in geriatrics to provide ongoing or consultative clinical care to frail elderly patients in the ED, or to be deployed to work collaboratively with the department’s clinicians during a disaster. In addition to fully credentialed clinicians, geriatric fellows in training could fulfill these roles. A database of these clinicians should be maintained by the hospital’s Emergency Preparedness Committee and coordinated with the appropriate departments.

   • **External consultants.** Institutions seeking additional geriatric expertise can turn to external consultants to assist in training or policy development (see Section 1, Resources, Gerontological Society of America, page 29).

2. Be Prepared to Operationalize Relevant Guidelines that have been Developed for Use in Disasters

Guidelines should address key issues in the management of the frail elderly and other vulnerable adults, specifically:

   • New York State Task Force draft guidelines for ventilator allocation (see Section 1, Tool 1-4, page 25)

   • Methods of credentialing and deploying unaffiliated clinical providers within the Incident Command Structure (see Section 6, Ethical and Legal Issues, page 105)

Consider developing additional policies to address unmet needs, including

   • Guidelines on clinical decision-making for patients who lack the capacity and

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have not executed a formal advance directive, such as a health care proxy\textsuperscript{36}

- Use of trained, nonclinical volunteers to augment care for patients who require assistance in feeding and toileting (see Section 6, Ethical and legal Issues, page \textsuperscript{105} for further discussion)

3. Provide Basic Geriatric Assessment Training Before Disasters
Hospitals should develop methods of training emergency department staff and other triage personnel in basic geriatric assessment, rapid geriatric assessment tools (see Section 1, Tools 1-1 through 1-3, pages 22-24 below, for specific guidance during triage. For further reading and rapid learning tools, see Section 3, Clinical Care of the Acutely Ill Elderly, page 42).

4. Establish Methods of Identifying High-risk, Functionally Impaired Patients
Hospitals should develop ways to identify these individuals in the emergency department so patients are triaged to specific locations in the hospital or for other follow-up (for example, frail elderly patients might benefit from admission to an Acute Care of the Elderly [ACE] unit\textsuperscript{37, 38} or specialized bed cluster; while patients with cognitive or physical impairments may benefit from transfer to a Soft Care Area (see Section 2, Soft Care Area, page 30) or follow-up by services such as geriatrics, palliative care or other, if available.

5. Provide a Secure Area for Elderly and Other Vulnerable Adults Who Are Medically Stable but Cannot be Safely Discharged
Training and assessment tools should be provided to ED staff to help them identify patients who seem medically stable but have chronic disabilities that require observation in an appropriately staffed area while they await discharge or transfer to a higher level of care. The multidisciplinary staff in this area should be prepared to link patients with appropriate social services and observe them for changes in clinical status. The staff also should communicate with the ED and the Family Information and Support Center, as described in Section 2, Tool 2-2, Psychosocial Triage in the Soft Care Area, page 35.
TOOLS

Tool 1-1. Triaging Elderly Individuals and Others during Disasters

This flow diagram takes into account special considerations during triage of frail elderly and others who may have specific vulnerabilities or goals of care.

Mass Screening – Initiate Isolation

Event-related symptoms

Non-event symptoms

Rule out altered presentation of event-related symptoms

No apparent symptoms

Medically stable

Severe:
Priority immediate
Inquire about non-hospital DNR order

Not Severe:
Priority optional
Determine patient’s baseline function

“Clean” Triage

Determine baseline function
Treat and admit to hospital or alternate care site

Treat and prepare for discharge
Apply SWiFT* screen

Soft Care Area

Send to home or facility
Follow up per DOHMH guidance

Red text indicates special considerations for frail elderly patients and other adults who may have cognitive or physical impairments, or have a history of life-threatening or terminal illness

* Seniors Without Families Triage Tool; see Tool 1-2 immediately below

§ See Section 2, Soft Care Area, page 30

----- Indicates border between contaminated and “clean” areas of hospital.
Tool 1-2. Seniors without Families Triage (SWiFT) Tool

SWiFT is a public health screening tool used to distinguish patients who can function independently from those who require assistance in activities of daily living (ADL) (see additional discussion in Section 2, Soft Care Area, page 30).

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<tr>
<td>1</td>
<td>Cannot perform at least one basic activity of daily living (ADL): eating, bathing, dressing, toileting, walking without assistance</td>
<td>Transfer to a location that can provide skilled or personal care such as an assisted living facility, nursing home or hospital</td>
</tr>
<tr>
<td>2</td>
<td>Has trouble with instrumental activities of daily living (IADL) such as finances, benefits management, assessing resources</td>
<td>Connect to a local agency services case manager</td>
</tr>
<tr>
<td>3</td>
<td>May need only minimal assistance with ADL and IADL</td>
<td>Connect to a rescue organization service such as the Red Cross</td>
</tr>
</tbody>
</table>

* May be used before a disaster event or at other times when appropriate

SWiFT – developed by an ad hoc committee of Harris County Texas aging providers; chart adapted with permission and available with detailed instructions and information; visit: [www.bcm.edu/pdf/bestpractices.pdf](http://www.bcm.edu/pdf/bestpractices.pdf)
Tool 1-3. Findings that May be Misleading in Elderly Patients
This Table provides assistance in avoiding misdiagnosis when pathologic or physiologic aging changes appear on physical examination or in test results, even if no clinically important disease is present (see Section 3, Tool 3-7, Acute Illnesses that May Have Altered Presentations in the Elderly, page 50)

<table>
<thead>
<tr>
<th>Finding</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brain Imaging</strong></td>
<td></td>
</tr>
<tr>
<td>Cortical atrophy</td>
<td>Normal age finding</td>
</tr>
<tr>
<td>Nonspecific white matter changes</td>
<td>Present in many neurologically-normal older adults; may predict future cognitive decline</td>
</tr>
<tr>
<td>Old infarcts</td>
<td>Often silent; limited relevance to clinical findings</td>
</tr>
<tr>
<td><strong>X-Rays</strong></td>
<td></td>
</tr>
<tr>
<td>Normal proximal femur or pelvis in patient with new leg pain and/or gait disturbance</td>
<td>More than 50% of patients with suspected hip fracture and normal plain films have MRI evidence of pelvic or hip fracture; may also be seen on CT</td>
</tr>
<tr>
<td>Mediastinal widening on chest x-ray</td>
<td>Frequent finding in elderly patients related to rotation, thoracic deformity or dilated large vessels (ectatic aorta)</td>
</tr>
<tr>
<td><strong>Metabolic and Clinical Indicators of Dehydration</strong></td>
<td></td>
</tr>
<tr>
<td>Inappropriately low urinary specific gravity</td>
<td>Age-associated decreased urinary concentrating ability</td>
</tr>
<tr>
<td>Decreased skin turgor</td>
<td>Normal age-related change due to loss of skin elastin and structural changes in collagen</td>
</tr>
<tr>
<td><strong>Occult Renal Failure</strong></td>
<td></td>
</tr>
<tr>
<td>Normal serum creatinine</td>
<td>Due to decreased muscle mass with aging plus average 50% decline in creatinine clearance by age 70 years</td>
</tr>
<tr>
<td><strong>Miscellaneous Functions</strong></td>
<td></td>
</tr>
<tr>
<td>Orthostatic hypotension</td>
<td>Mild orthostasis may be due to deconditioning or venous insufficiency</td>
</tr>
<tr>
<td>Systolic blood pressure ≤ 120 (approx.)</td>
<td>Very high incidence of isolated systolic hypertension (ISH), often labile. “Normal” blood pressure may be misleading in a patient with known history of ISH or if clinical findings suggest hemodynamic change</td>
</tr>
<tr>
<td>Heart rate &lt;100 (approx.)</td>
<td>Heart rate response to many stimuli often blunted due to conduction system disease, negative chronotropic medications, or blunted catecholamine response</td>
</tr>
<tr>
<td>Body temperature</td>
<td>Febrile response to infection may be blunted; delirium and dementia reduce ability to cooperate with oral temperature measurement; if axillary temperature measured, should assume rectal temperature is two degrees higher</td>
</tr>
</tbody>
</table>

The New York State Task Force on Life and the Law and the New York State Workgroup on Ventilator Allocation in an Influenza Pandemic have issued draft guidelines for comment providing the rationale and non-age-based guidelines for allocating ventilators when resources are limited. (visit: www.health.state.ny.us/diseases/communicable/influenza/pandemic/ventilators/docs/ventilator_guidance.pdf) The recommendations urge facilities to appoint triage officers, operating separately from the physician in charge of patients’ care, to oversee ventilator allocation. When making decisions about allocation, the triage officers would use modified exclusion criteria for ventilator access (see below for further discussion of this document, see Section 6, Ethical and Legal Issues, page 105).


- **Cardiac arrest:** Unwitnessed arrest, recurrent arrest, arrest unresponsive to standard measures, trauma-related arrest
- **Metastatic malignancy** with poor prognosis
- **Severe burn:** Body surface area >40%; severe inhalation injury
- **End-stage organ failure:**
  - Cardiac: New York Heart Association class III or IV
  - Pulmonary: severe chronic lung disease with FEV₁<25% **
  - Hepatic: MELD score >20***
  - Renal: dialysis dependent
  - Neurologic: severe, irreversible neurologic event/condition with high expected mortality

* Sequential Organ Failure Assessment Tool (SOFA), using modified exclusion criteria developed by New York State Task Force on Life and the Law; adapted from Ontario Health Plan for an Influenza Pandemic (OHPIP)
** Forced Expiratory Volume in one second, a measure of lung function
***Model of End-stage Liver Disease
REFERENCES


41. United Network for Organ Sharing (UNOS). Model for end-stage liver disease

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**New York City Department of Health and Mental Hygiene**
resources

assessment tools

Mini-Cog and Clock Drawing Test
Rapid dementia screening in multilingual elderly
www.hospitalmedicine.org/geriresource/toolbox/pdfs/clock_drawing_test.pdf

Confusion Assessment Method (CAM)
Rapid assessment of delirium in older patients
www.healthcare.uiowa.edu/igec/tools/cognitive/CAM.pdf

Teaching Tools and Guidance Materials

Geriatric Education for Emergency Medical Services
Resource for emergency medical service providers (case-based lectures, video, hands-on
skill stations, lectures, courses, CDs and print material)
www.gemssite.com

Gerontological Society of America Expert Referral Service
Provides experts in many fields of aging (not intended for patient referrals).
Telephone: 1-202-842-1275 extension 142.

University of Chicago: Curriculum for the Hospitalized Aging Medical Patient
(CHAMP)
http://champ.bsd.uchicago.edu/
Designed to prepare non-geriatric-trained clinicians to care for elderly hospitalized
patients.

Society for Academic Emergency Medicine: Emergency Care of the Elder Person
Teaching Modules
PowerPoint presentation and instructor’s manuals on case-based topics such as functional
decline, delirium, trauma, ischemic heart disease, and others.

For additional education and rapid teaching tools, see Section 3, Clinical Care of Acutely
Ill, Elderly Patients, page 42.
SECTION 2. SOFT CARE AREA

PURPOSE

This Section provides guidance to hospitals, their emergency departments (EDs) and other relevant areas on dealing with patients deemed medically stable but unable to be discharged due to lack of housing or the unavailability of caregivers or services received at home. The material focuses specifically on frail, elderly people and other vulnerable adults who may be dependent on others for basic medical care and assistance with activities of daily living (ADL).

BACKGROUND

Hospitals as Safe Havens
In a health care crisis, fear of being infected, exposed, or displaced, can lead even healthy individuals to seek emergency medical care. Vulnerable adults who cannot stay in their homes or who are dependent on others for care often present in large numbers. The patients, even if medically stable, may require shelter and care.

Physiologic Vulnerability
A significant number of older adults are cognitively impaired and unable to provide accurate demographic or medical information and/or the name or contact information of caregivers or family members. Chaos and an unfamiliar setting can heighten confusion and significantly complicate care for these individuals. Physical and cognitive disabilities can greatly diminish an individual’s ability to function during a disaster, creating a need for supervised care in a holding area of the hospital; there, staff, with the help of healthy displaced persons, could monitor such patients for signs of new illness. Staff would need to be aware of potential clinical needs such as help using oxygen or taking medication, and basic needs, such as feeding toileting, and avoiding falls.

Psychosocial Vulnerability of Elderly New Yorkers
Frail elderly residents of New York City may be particularly vulnerable due to one or more of the following factors:

• Dependence upon others for care
• Physical abuse and neglect
• Financial abuse and theft
• Inability to speak English
• Poverty
• Living alone

Loss of Community Services in a Disaster
In a disaster, medically stable patients may not be able to return to their homes because their caregivers are ill or not able to be present. Those who need assistance accessing food, taking medications, and other basic and vital functions may end up presenting to hospitals in search of care or may be unable to go home after receiving care. In disasters such as a fire or hurricane, there may not be a home to return to.
Caring For and Reuniting Families
Families can become separated in a disaster causing repercussions for the broader community, including hospitals, where dependent elderly and other vulnerable patients are likely to end up. In an infectious disease epidemic, families may be separated because of quarantine.

The extreme difficulty in reuniting families has been well documented. On September 11, 2001, Manhattan hospitals were besieged by distraught family members seeking their missing loved ones. Many went to multiple hospitals, growing increasingly confused and anxious as they failed to locate relatives. Eventually, the function of dealing with families seeking missing members was centralized on a West Side pier and administered by the city.

During the Katrina disaster, many families from in and around New Orleans were evacuated—together or separately—to distant cities and states. In many cases, frail, older residents were left alone in the disaster area. Those who survived and were evacuated often became confused in their new setting.

Need for Alternate Care Sites
Nursing home beds in New York City are approximately 95% occupied and would be unable to accommodate a surge of people who require subacute, palliative or custodial care during a disaster. During an infectious disease epidemic, nursing homes may be reluctant to expose residents to incoming patients who are presumed but perhaps not certain to be uninfected. The lack of beds would force EDs and hospitals to care for individuals who cannot be safely discharged; therefore, alternatives to nursing homes or other traditional sites for people needing care will need to be identified.

Lessons Learned from Recent Disasters
Issues in dealing with the elderly in disasters include:

- Difficulty locating and tracking seniors and other vulnerable adults.
- Inadequacy of extant shelter options and difficulty gaining access for those in need.
- The need for geriatricians to attend to the medical requirements of frail elderly patients.
- The need to involve multidisciplinary professionals, who have training or experience in care of the frail elderly, early in the planning phase.
- The importance of cooperating with community-based and citywide agencies that have knowledge of seniors and their needs, including, but not limited to, senior centers, faith-based senior programs, adult protective services, the Department for the Aging and the Office of Emergency Management.
- The tendency of the frail elderly, who are vulnerable before a disaster, to become more vulnerable during and after such an event. Along with physical limitations, cognitive disorders can play a role in putting these patients at greater risk since chaotic circumstances and unfamiliar settings might heighten their confusion and significantly complicate their care.
- The need to address post-disaster, long-term needs; even those who do not require immediate medical care have needs, such as adequate housing, resumption of

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services, and access to a Social Security check, health insurance, or other entitlements.

• The need to provide information and support to families seeking missing adults, especially their frail elderly loved ones.

PLANNING GUIDELINES

1. Identify Institutional Expertise in Community-Based Social Services and Discharge Planning
Social work, case management, family center and psychological or crisis counseling experts should be identified and included on the Emergency Preparedness Committee (see Section 5, Mental Health Issues, page 86).

2. Provide a Soft Care Area
A Soft Care Area is a secure place in the hospital staffed to treat medically stable, but frail elderly vulnerable adults, who cannot be safely discharged from the emergency department (ED) in a timely manner but who need psychosocial support and medical oversight (see Tool 2-1, Establishing a Soft Care Area, page 33). If the Soft Care Area cannot be established in the ED, a nearby location in the hospital or an unoccupied ward can be used. The Soft Care Area should have close links with the ED, the hospital pharmacy and a family support center.

Soft Care staff should be trained in geriatric care, the use of the Seniors without Families Triage (SWiFT) tool, (visit: www.dmphp.org/cgi/content/full/2/Supplement_1/S45 and see Section 1, Tool 1-2, Seniors without Families Triage (SWiFT) Tool, page 23) and, if possible, psychological assessment (see Section 5, Mental Health Issues, page 86).

3. Develop Methods for Identifying and Tracking Frail Elderly Individuals
Identify frail patients during triage so that their unique medical and psychosocial needs can be properly addressed. Identification of, and relationships with, appropriate community agencies should be established during the emergency planning process.

4. Encourage Primary Care Clinicians to Identify Vulnerable Elderly Patients before Disasters Occur
Clinicians, whether based at hospital clinics or community practices, should be reminded to continuously identify elderly, vulnerable patients and routinely assess them for risk factors during an emergency, and advise them and their caregivers on disaster preparedness methods.

5. Stock a Minimum 4-Day Supply of Commonly Used Outpatient Medications
Stock common medications for those who may not be able to return home because of disrupted services (see Section 4, Medications, Tool 4-2, Geriatric Medication Guidelines for Commonly Encountered Medical Conditions in the Acute Care Setting, page 66).

6. Work with City Agencies to Identify Alternative Care Sites for Patients Who
Need Subacute or Custodial Care
Planners should work with city agencies to identify facilities (such as nursing homes, clinics or other low-acuity patient care sites) available for patients who do not require acute care but who may require subacute or custodial care. Establish methods of inter-institutional communication and transport, and admission standards; in addition, obtain signed memoranda of understanding or contractual agreements in advance so immediate activation can occur.

7. Link to Community-based Senior Service Organizations
With the assistance of institutional social work or case management departments, hospitals should establish links to appropriate organizations and work with them to create coordinated disaster plans for vulnerable adults.

8. Provide Assistance for Adults Seeking Missing Adults
Disaster plans that include Family Information and Support Centers should provide areas within the centers for adults seeking missing adults to safeguard the mental health and psychosocial needs of families seeking to reunite.

TOOLS
Tools 2-1 and 2-2: Soft Care Area
The soft care area is designed to address the medical and psychosocial needs of frail elderly and other vulnerable adults who do not require hospitalization yet are not able to leave the hospital because of disrupted home care services, unavailable family or other caregivers, or other obstacles to safe discharge. See Tool 2-1 below for details on requirements for the area, and Tool 2-2 for information on triaging patients in Soft Care.

<table>
<thead>
<tr>
<th>Tool 2-1. Establishing a Soft Care Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Systems</strong></td>
</tr>
<tr>
<td>• Identification and tracking methods</td>
</tr>
<tr>
<td>• Identifying psychosocial risk factors through public health screenings (see Section 2, Tool 2-2, Psychosocial Triage in the Soft Care Area, page 35)</td>
</tr>
<tr>
<td>• Discharge planning</td>
</tr>
<tr>
<td>• Communication with and service by runners to the Family Information and Support Center</td>
</tr>
<tr>
<td>• Links with the ED and hospital pharmacy (by runner, if necessary)</td>
</tr>
<tr>
<td>• Links with community agencies</td>
</tr>
<tr>
<td><strong>Physical Space</strong></td>
</tr>
<tr>
<td>Designate an area before a disaster that can accommodate quarantine or decontamination, and provide:</td>
</tr>
<tr>
<td>• Communication links (phone, computers, and beepers) to other areas (Family Information and Support Center, hospital pharmacy) and to outside services</td>
</tr>
</tbody>
</table>
- A wheelchair-accessible seating area for vulnerable adults who may have to wait for discharge
- Seating for family or other caregivers who may be assisting patients
- Cots and bedding, as space allows
- Wheelchair-accessible restrooms
- Quiet areas for patients who may be agitated or upset

A storage area for walkers, canes, commodes, adult diapers and smaller necessities
- A medication storage area with medications most often used by elderly patients (see Section 4, Medications, Tool 4-2, Geriatric Medication Guidelines for Commonly Encountered Medical Conditions in the Acute Care Setting, page 66)

Telephones with volume controls that connect to translation services

**Staffing**

Appropriate staffing is vital to the success of the Center; be sure to assign:

- Security staff
- If possible, a multi-disciplinary team that includes one or more individuals with training or experience in geriatrics and/or crisis counseling, such as:
  - Social workers
  - Nurses, nurse practitioners and/or physicians
  - Pre-trained and credentialed assistants from professional or non-professional staff
  - Medical, nursing or social work students; community volunteers (see below)
- A coordinator who is a social work administrator or manager with experience or training in providing care and services for frail elderly and other vulnerable adults
- Prescreened volunteers, such as:
  - Individuals credentialed as hospital volunteers
  - Fieldwork students assigned to the ancillary services
  - Clergy from nearby religious institutions
  - Individuals from community organizations
- Staff with training in relevant geriatric issues is highly recommended. Use a team approach, for example, by pairing a more seasoned gerontologist with a less experienced person. Non-professionals or less experienced volunteers can be used as runners for rapidly transferring information within the hospital, or as companions that provide one-on-one support for confused or agitated patients.
Tool 2-2. Psychosocial Triage in the Soft Care Area

* The Seniors Without Families Triage (SWiFT) Tool, is designed to be used before or after a disaster event to rapidly determine a patient’s ability to perform activities of daily living (ADLs), and thereby ensure triage to the appropriate level of care (see Section 1, Tool 1-2, Seniors without Families Triage (SWiFT) Tool, page 23). Ideally, SWiFT should be applied in the emergency department as soon as discharge is contemplated, either by trained ED staff or trained “runners” from Soft Care Area. If not, SWiFT should be applied in Soft Care Area.
Tool 2-3. Family Information and Support Center
Actively seeking information can help people regain a sense of control by reducing a sense of uncertainty inherent in traumatic events. People turning to an information center are inevitably distraught, so making essential information accessible at a Family Information and Support Center is a first step in enabling them to cope.

Tool 2-3. Creating a Family Information and Support Center
Use the following guidelines to establish a comprehensive Family Information and Support Center (FISC):

- Designate a hospital area for families to receive information and support during a disaster.*
- Create a distinct area within the FISC for adults seeking missing adults.
- Augment FISC staff with geriatrics-oriented personnel and/or trained volunteers (consider including peer volunteers, such as healthier seniors).
- Provide methods of communicating with non-English-speaking family members such as staff translators, multilingual volunteers or telephone translation services.
- Offer to conduct SWiFT screening of patients’ spouses or partners who are elderly or appear to be vulnerable.
- Establish links with the Soft Care Area by phone, computers, and “runners,” to facilitate family reunifications (see Section 2, Tool 2-1, Establishing a Soft Care Area, page 33).
- Enable Soft Care Area staff to seek out family members who are able to assist in caring for their relatives in the area. If there is more than one such family member or other caregiver, have them assist in rotation.

REFERENCES


    www nyhealthcarecommission org/docs/final/commissionfinalreport pdf. 


RESOURCES

U.S. Department of Homeland Security
Ready America: People with Disabilities and Other Special Needs
Web site with advice for older adults and people with disabilities and other special needs, including how to develop an emergency kit.
http://www.ready.gov/america/index.html

New York City Department of Health and Mental Hygiene/ Consortium for Risk and Crisis Communication
Communicating in a Health Emergency: Crisis Communications Guide
Booklet for professionals and trainees with information on communicating with patients, patients’ family members, fellow employees and the community during a disaster.

Health Privacy Project
Myths and Facts about the HIPAA Privacy Rule
Facts and fallacies about federal rules governing communication between health professionals and families of vulnerable elderly.

www.healthprivacy.org/newsletter-url2306/newsletter-url_show.htm?doc_id=173459

**Disability Preparedness Resource Center**
A resource center with an array of helpful information on disaster preparedness for people with disabilities; also has general information for families and service providers of persons with disabilities.

www.disabilitypreparedness.gov/

**NEW YORK CITY RESOURCES**

**New York City Department for the Aging/Office of Emergency Management**

**Ready New York**

For an audiotape of the information, call 311 (in New York City) or (212) 639-9675 (outside New York City)
http://www.disabilitypreparedness.gov/

**New York City Office of Emergency Management (OEM)**
City agency responsible for coordinating emergency response and recovery; it also provides public education and the Web site contains online resources and links.
Tel. (718) 422-4800

**American Red Cross of Greater New York**
Volunteer-led organization that provides relief to disaster victims and helps people prevent, prepare for, and respond to emergencies.
Tel: (877) 733-2767
www.nyredcross.org/

**NYC Department of Health and Mental Hygiene Medical Reserve Corps**
New York City's emergency preparedness group of credentialed and trained health professionals ready to respond to health emergencies.
Tel: (866) 692-3641

**SENIOR AND COMMUNITY-BASED RESOURCES**

**New York City Department for the Aging (DFTA)**
A resource for a broad range of programs in New York City related to seniors. The Website includes a 5-borough directory of senior services. DFTA can link a hospital to an appropriate partnering agency and provide information on DFTA services.

www.nyc.gov/html/dfta
Tel. (212) 639-9675

**Interagency Councils on Aging**
Organizations comprising both small community-based organizations serving seniors and larger DFTA-funded programs and agencies:

- Brooklyn Tel. (718) 686-1333
- Bronx Tel. (718) 410-1216
- Manhattan Tel. (212) 725-7775
- Queens Tel. (718) 268-5954
- Staten Island Tel. (212) 667-3162

**Alzheimer’s Association (New York City Chapter)**
Educational and advocacy organization that assisting families of patients with dementia in gaining access to a wide range of services. Programs are useful for non-disaster related problems as well as for disaster preparedness.
Tel. (646) 744-2900, (800) 272 3900 (24-hour help line).
http://www.alzny.org
Telephone: 1-646-744-2900

**Alzheimer’s Association Safe Return Program**
This program is designed for people who wander and become lost so they can be reunited with family or other caregivers.
www.alznyc.org/prog&services/default.asp#safereturn

**Alzheimer’s Association National MedicAlert + Safe Return Program**
This combined program also provides access to medical information
www.alz.org/we_can_help_medicalert_safereturn.asp

**Catholic Charities, Archdiocese of New York**
Offers assistance in finding services, especially in Manhattan, Staten Island, the Bronx, and nearby counties.
Tel. (212) 371-1000

**Catholic Charities, Diocese of Brooklyn**
Tel. (718) 722-6008
www.ccbq.org/

**Council for Senior Centers and Services of New York City**
Resource for senior centers in all 5 boroughs provides assistance in obtaining legal services, money management, entitlements, and other senior issues.

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Jewish Association for Services for the Aged  
Provides many services to seniors and families in the five boroughs of New York City.  
Tel. (212) 273-5272  

DOROT  
Non-profit social service organization that provides services for seniors and caregivers  
Tel. (212) 769-2850  

United Neighborhood Houses of New York  
Grassroots network of 34 settlement houses and community-based programs.  
Tel. (212) 967-0322  
www.unhny.org

REUSABLE HEARING AIDS

Various models of pocket hearing aids can be purchased online from $20 to more than $200 and can be kept in the hospital ward or office. These products consist of a pocket size microphone connected to earphones to be used while interviewing or examining a severely hearing impaired patient who does not have a hearing aid.
SECTION 3. CLINICAL CARE OF ACUTELY ILL, ELDERLY PATIENTS

PURPOSE

This section provides guidance for clinicians, physicians and other health care professionals on caring for very old or frail, elderly patients in the emergency department (ED), acute wards or other areas of the hospital during a disaster.

BACKGROUND

Diversity and Elderly Individuals
The geriatric population is physiologically diverse. Robust older adults, especially the “young-old” (those aged 65 to 74 years), can generally be managed in the same way as middle-aged adults. However, the likelihood that a person will have cognitive and physical disabilities or overt or clinical comorbidities increases steadily with age.

Although a precise definition is elusive, the term “frail elderly” is used in this manual to refer to individuals with one or more characteristics that increase the risk of morbidity or functional decline when exposed to a stressor, including hospitalization.

Special Elements of Geriatric Medicine in the Acute Care Setting
There are important considerations when caring for elderly patients with acute illnesses; clinicians should be aware of the following:

- Co-existing conditions and functional impairments make diagnosis and management more complicated.
- Diseases often present atypically in elderly people, making diagnosis challenging (see Section 3, Tool 3-7, Acute Illnesses that May Have Altered Presentations in the Elderly, page 50).
- The risk of adverse effects from prescription and non-prescription medications increases steadily after 65 years of age (see Section 4, Medications: Prescribing and Dispensing, page 64).
- Hospitalization alone is a major risk factor for functional decline and medical morbidity.

PLANNING GUIDELINES

Basic guidelines for preparing to care for elderly individuals during a disaster include:

1. Identify Staff with Geriatric Expertise at the Facility
Identify individuals who have a background in geriatric care, such as:

Geriatric specialists as planners and staff leaders. Identify staff leaders who are

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experienced in, and knowledgeable about, geriatric clinical care to:

- Serve on the Emergency Preparedness Committee (representation on the committee should include at least one professional from the social services, such as a social worker or nurse case manager)
- Provide staff education and oversee geriatric care delivery during a disaster

Ideally, a clinical staff leader should be an experienced physician holding a Certificate of Added Qualifications (CAQ) in Geriatrics, and/or an advanced practice nurse with training in geriatrics (a gerontologic nurse practitioner (GNP) or clinical nurse specialist), and experience in medical management of acutely or chronically ill elderly patients. Also include:

**Other clinicians with geriatric training or experience.** These individuals should be identified by department heads to provide ongoing or consultative clinical care to frail, elderly patients in appropriate hospital settings. Geriatric fellows in training may be suitable.

**External consultants.** For institutions with limited geriatric expertise, external consultants are available who can assist in training or policy development (see Section 3, Resources, Gerontological Society of America, page 62).

2. **Determine the Location and Type of Geriatric Care in the Facility**

Assess the individual facility and provide the following services if possible:

**Geriatric care area.** This area should, if possible, be staffed by an onsite, multi-disciplinary care team with geriatric expertise. An ideal site would be an acute care for the elderly (ACE) unit12-13 or bed cluster.

**Multi-disciplinary care.** Physicians, nurses, social workers and other health professionals should collaborate to develop multi-disciplinary short- and long-term goals for frail, elderly patients. A team leader should be appointed who has the appropriate skills or experience in geriatric care and should involve relevant members of the team, as well as volunteers and family or caregivers providing care.14

**Geriatric consultation service.** For hospitals that do not have a dedicated geriatric inpatient unit or bed cluster, a roving geriatric consultant or team (an ACE unit without walls) should be developed to provide consultative or ongoing care in appropriate areas of the hospital, including emergency department, acute wards, and soft care area (see Section 2, Soft Care Area, page 30). Guidance on when to obtain geriatric medicine consultation is given in Tool 3-1 below.
Tool 3-1. When to Obtain a Geriatric Medicine Consultation

1. Patient is 80 years of age or older  \textbf{OR}

2. Patient is 65+ years of age with one or more of the following Geriatric Triggers:*  
   • Dementia plus one or more comorbidity  
   • Delirium  
   • Risky medication regimen such as:**  
     o Anticoagulant  
     o Sedating medication  
     o Anticholinergic  
     o Multiple medications  
   • Agitation  
   • Urinary retention or indwelling catheter  
   • Tendency to fall  
   • Mechanical restraints  
   • Difficulty walking a short distance because of weakness, impaired gait or dyspnea  
   • Significant feeding problems  
   • Not eating when fed  
   • Requiring assistance with feeding  
   • Low vision or impaired hearing  
   • In a patient who lacks the capacity to decide, making determinations about life-sustaining treatment, such as tube feeding  

*High-risk characteristics that increase the risk of morbidity or functional decline\textsuperscript{5-7}  
**See Section 4, Medications, Tool 4-7, Medication Adverse Effects in Elderly Patients with Specific Conditions, page 81

   
   - \textbf{Basic Geriatric Functional Assessment}. Non-geriatric-trained clinicians should receive training in basic geriatric assessment skills that can be applied in a disaster (see Section 3, Tools 3-2 and 3-3, pages 45-46).  
   - \textbf{Clinical Geriatric Care}. Staff leaders can use tools for pre-disaster or on-the-spot clinician training for clinicians and other staff working in the emergency department, acute care wards or the Soft Care Area (see Section 3, Tools 3-4 to 3-11, pages 47-58).
TOOLS FOR ASSESSMENT OF GERIATRIC FUNCTION

Tool 3-2. Assessment of Geriatric Function
Geriatric assessment alerts clinicians to the vulnerabilities of a particular patient. Numerous tools exist to assess patient function, many of which apply a numerical score. In a disaster, geriatric assessment can prevent misdiagnosis and reduce morbidity, but must be performed rapidly. This tool summarizes key elements of function that can be assessed individually and rapidly by observing the patient in the clinical setting, and requires no scoring or specialized training.

Tool 3-2. Geriatric Assessment

I. Rapid Basic Assessment

Determine how well the patient can function independently in a hospital room, including following commands, feeding, calling for assistance, toileting, and other functions.

II. Specific Functional Assessment

- Baseline Function
  - Interview patient or a reliable caregiver (e.g., health professional, family member, neighbor or home attendant) who is most familiar with the patient’s functioning to establish recent baseline function and use of assistive devices, such as eyeglasses, hearing aids, dentures or a walker.

- Cognitive function—determine if the patient:
  - Knows he/she is in the hospital and why
  - Can name year and month
  - Recalls 3 of 3 named objects after 2 minutes (e.g., “house,” “skirt,” “rain”).
  - Can recite months in reverse order (“December,” “November,” “October,” etc.)
  - Identifies or names family members correctly and gives their approximate ages
  - Can discuss current events (e.g., can name presidential candidates or discuss issues in presidential campaign or activity of celebrity)

- Physical and executive function—observe and note whether patient needs a cane, walker, other device or personal assistance to:
  - Walk
  - Walk to bathroom
  - Use a bedpan or urinal
  - Change position in bed or wheelchair
  - Transfer from bed to chair
  - Reach and use telephone
  - Reach and use nurse call button
  - Open containers on tray and feed self
  - Read normal-size print (inquire whether patient has eyeglasses; provide magnifier or loan personal reading glasses if patient’s glasses are not accessible)
  - Hear and respond to information in his/her own language (inquire whether patient...
uses hearing aid; allow patient to use stethoscope as microphone, or provide “pocket talker” device if necessary) (see below: Tools, Reusable Hearing Aids).

- Follow instructions

Adjust oxygen mask or nasal cannula

Tool 3-3: Activities of Daily Living

Basic Activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL) are important terms used to rapidly describe how well a patient functions (e.g. “He is independent in ADLs;” “She is having some trouble with her IADLs”). Many physical, medical, and cognitive disorders can impair ADLs and IADLs. While diagnosing or treating the underlying disorder, it is very important not to lose sight of the function that is impaired.

Tool 3-3. Activities of Daily Living and Instrumental Activities of Daily Living*

Activities of Daily Living (ADL) include the most basic functions:
- Bathing
- Grooming
- Toileting
- Transferring
- Feeding
- Walking

Instrumental Activities of Daily Living (IADL) include more sophisticated functions:
- Using the telephone
- Shopping
- Preparing food
- Housekeeping
- Doing laundry
- Handling finances
- Using transportation

* Schema widely used to describe a patient’s ability to function, sometimes scored. Also can be utilized as a rapid, unscored checklist of patient’s observed or reported function.
RAPID EDUCATIONAL TOOLS FOR CLINICAL GERIATRIC CARE

Tool 3-4. Risk Factors for Falls in Older Adults
Falling is an extremely common problem in older adults, and when it occurs in the hospital it contributes significantly to morbidity. This tool highlights important risk factors which may be preventable or modifiable.

Tool 3-4. Risk Factors for Falls in Older Adults*

- Medications
  - Benzodiazepines
  - Other hypnotic agents
  - Antipsychotics
  - Antidepressants (especially tricyclics)
  - Antiarrhythmics
- Gait Abnormalities
- Dementia
- Over treatment of hypertension (including recent “normalization” of blood pressure)
- Orthostatic hypotension
- Accidental overdosing of cardiovascular or sedating medications (including double dosing)
- History of falling, syncope, or cardiac arrhythmia
- Visual impairment
- Use of bi- or multi-focal eyeglasses when walking
- Inability to hear nearby hazards
- Known use of an assistive device (such as cane or walker)
- Muscle weakness (including pharmacologically-induced)
- Hazards (such as steps, objects on the floor, bedrails, poor lighting)

Tool 3-5. Diagnosing and Managing Agitation in Hospitalized Patients who have Dementia or Delirium

Delirium is a very important, potentially reversible cause of agitation, and must be distinguished from dementia. Dementia patients are at heightened risk of developing delirium; hence, dementia and delirium frequently coexist, and either may produce agitation.

I. Causes of Agitation
- Delirium (see paragraph II below for diagnostic features and rapid screening method)
- Restraints
- Intrusive devices
- Pain, dyspnea, or other physical symptoms
- Unfamiliar environment
- Someone patient doesn’t recognize tries to feed, dress or wash patient
- Fecal impaction
- Urinary retention (see Section 3, Tool 3-6, page 49 for reversible causes)
- Need for repositioning
- Need to get out of bed to urinate
- Sundown Syndrome

II. Diagnostic Features of Delirium*
- Disturbance of consciousness (i.e., reduced clarity of awareness of the environment) with reduced ability to focus, sustain, or shift attention
- A change in cognition (such as memory deficit, disorientation, language disturbance) or the development of a perceptual disturbance that is not better accounted for by a preexisting, established, or evolving dementia
- The disturbance develops over a short period of time (usually hours to days) and tends to fluctuate during the course of the day.
- There is evidence from history, physical examination, or laboratory findings that the delirium is caused by the direct physiological consequences of one or more medical conditions, e.g., medical condition, medication side effect, substance (including prescription medication) intoxication or withdrawal.

Note: Delirium may be superimposed on underlying chronic dementia.
* Adapted from: American Psychiatric Association, Diagnostic and Statistical Manual of Mental Disorders (DSM-IV-TR), 4th ed, with permission.

Rapid Screen for Delirium:

III. Managing Agitation in Patients with Dementia or Delirium
- Seek and address underlying cause of agitation
- Avoid using intrusive devices, such as bladder catheters, nasogastric tubes, etc., if possible
- Avoid using mechanical restraints, if possible
- Camouflage devices such as intravenous lines by covering securely with gauze or by using other methods
• Utilize interpersonal methods (reassurance, distraction, and conversation by family, friend, or volunteer) whenever possible
• When managing pharmacologically, give cautious “geriatric” doses of atypical antipsychotics, trazodone, or haloperidol (see Section 5, Tool 5-6, Appropriate Dosing of Common Psychiatric Medications for Frail Elderly, page 94)
• Avoid benzodiazepines, except if indicated in specific withdrawal syndromes (alcohol, benzodiazepines), or if antipsychotic medications are contraindicated

Tool 3-6. Reversible Causes of Urinary Retention

• Fecal impaction

• Bed-bound state in patient with benign prostatic hyperplasia (BPH)

• Medications*
  o Sedating “first-generation” antihistamines
  o Tricyclic antidepressants
  o Opioids
  o Gabapentin
  o Oxybutynin (Ditropan®)
  o Tolterodine (Detrol®)
  o Other anticholinergics
  o Calcium channel blockers (e.g., verapamil)

* For a complete list, see Section 4, Tool 4-5, Drugs That May Cause Urinary Retention, Section 4, Medications, Tool 4-5, page 80.
Tool 3-7. Altered Presentations in the Elderly
Although presentations may be “typical” in older adults, presenting in a textbook fashion, acute illness very often presents *atypically* in the elderly, especially those who are frail. It is important to become familiar with and consider these “atypical” presentations, in order to avoid misdiagnosis.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Altered Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia, other infections, fever, adverse drug event, dehydration with normal sodium and blood urea nitrogen (BUN)</td>
<td>Acute change in mental status, especially confusion, lethargy, stupor, or coma</td>
</tr>
<tr>
<td>Unstable angina</td>
<td>Dyspnea, dyspepsia, back pain</td>
</tr>
<tr>
<td>Any medical condition causing weakness or drop in baseline blood pressure (myocardial infarction; over treatment of blood pressure; adverse drug event, etc.)</td>
<td>Weakness, dizziness, falls</td>
</tr>
<tr>
<td>Bowel infarction or other abdominal infections and catastrophes</td>
<td>Muted abdominal signs and symptoms</td>
</tr>
<tr>
<td>Fecal impaction</td>
<td>Paradoxical Diarrhea</td>
</tr>
<tr>
<td>Infection</td>
<td>Absent or muted febrile response</td>
</tr>
<tr>
<td>Head trauma, often apparently minor trauma, such as falling</td>
<td>Muted or delayed signs and symptoms</td>
</tr>
<tr>
<td>Thyrotoxicosis</td>
<td>Goiter often absent or substernal, tachycardia may be absent, constipation common</td>
</tr>
</tbody>
</table>

* See also Section 1, Tool 1-3, Findings that May be Misleading in Elderly Patients, page 24
### Tool 3-8. Inventory and Clinical Guidelines for Frail, Elderly Inpatient Care, According to Vulnerability

<table>
<thead>
<tr>
<th>Patient Vulnerability</th>
<th>Equipment/Inventory</th>
<th>Guidance</th>
</tr>
</thead>
</table>
| Gait disorders, tendency to fall, immobility  | - Foldable walkers  
- Wheelchairs  
- Chair recliners  
- Bedside commodes                                                                 | - Recliners are useful for family or other non-staff caregiver assisting the patient at bedside  
- Address causes of falling (see Section 3, Tool 3-4, Risk Factors for Falling in Older Adults, page 47 and Resources, pages 60-63) |
| Cognitive impairment                          | - Chair recliners                                                                     | - Recliners for patients who attempt to get up without assistance (instead of wrist or vest restraints)  
- Place patient near nursing station or in another visible position  
- Camouflage I.V. sites and other treatments to avoid the need for restraints  
- Avoid sedating with benzodiazepines  
- Observe cautionary guidelines for any centrally action medication (see Section 4, Tool 4-4, Drugs That May Cause Mental Status Changes in Elderly Individuals, page 79 and Section 7, Tool 7-6, Age-adjusted Dosing for Opioid Treatment of Acute Pain, page 130) |
| Susceptibility to delirium                   | - Chair recliners  
- Non-sedating low-dose forms of atypical antipsychotics or haloperidol           | - Rule out underlying cause (most often infection, dehydration, or medication)  
- Avoid inappropriate medications and excessive sedation (see links provided in box above: Cognitive Impairment) |
| Agitation                                    | - Gauze wraps and pads                                                             | - Use these materials to camouflage I.V. tubing and other intrusive devices  
- Seek underlying cause (see Section 3, Tool 3-5, Diagnosing and Managing Agitation in Hospitalized Patients who have Dementia or Delirium, page 48)  
- Apply interpersonal methods whenever possible (see Section 3, Tool 3-5, Diagnosing and Managing Agitation in Hospitalized Patients who have Dementia or Delirium, page 48) |
### Tool 3-8. Cont’d

<table>
<thead>
<tr>
<th>Patient Vulnerability</th>
<th>Equipment/Inventory</th>
<th>Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impaired hearing</td>
<td>• Reusable, on-the-body hearing aid with disposable earphone covers (inexpensive varieties are commercially available); keep at least one on hand in inpatient units and the emergency department</td>
<td>• Ascertain the patient’s ability to hear spoken words (difficulty hearing may be misdiagnosed as dementia)</td>
</tr>
<tr>
<td></td>
<td>• Replacement hearing aid batteries for patient-owned devices</td>
<td>• Face the patient and speak loudly, using low frequency, articulate speech</td>
</tr>
<tr>
<td></td>
<td>• Telephones with volume enhancement equipped if telephone translation services are available</td>
<td>• Speak directly into the patient’s ear when necessary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If a hearing aid is unavailable, place clinician’s stethoscope in patient’s ears and speak into the bell or diaphragm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Use translation services if needed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Implement measures to prevent loss of hearing aids, such as storage in an attached fanny pack (see Section 5, Tool 5-7, Pre-Disaster Planning: The GeriGoBag, page 97)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impaired vision</td>
<td>• Adequate lighting</td>
<td>• Confirm that the patient is visually impaired and inform staff.</td>
</tr>
<tr>
<td></td>
<td>• Magnifying eyeglasses (reading glasses)</td>
<td>• If reading glasses or magnifier unavailable, offer clinician’s reading glasses to patient to complete brief tasks</td>
</tr>
<tr>
<td></td>
<td>• Eye drops for glaucoma</td>
<td>• Have volunteers to read to the patient or assist with visual tasks</td>
</tr>
<tr>
<td></td>
<td>• Eyeglass chain or string to prevent loss</td>
<td>• Take measures to prevent loss of eyeglasses, such as an eyeglass chain, or by placing glasses into an attached fanny pack (see Section 5, Tool 5-7, Pre-Disaster Planning: The GeriGoBag, page 97)</td>
</tr>
</tbody>
</table>
### Tool 3-8. Cont’d

<table>
<thead>
<tr>
<th>Patient Vulnerability</th>
<th>Equipment/Inventory</th>
<th>Guidance</th>
</tr>
</thead>
</table>
| Poor nutrition        | Enteral nutritional formulas (e.g., Ensure®) or less costly alternatives (e.g., Instant Breakfast®)  
Protein powder to mix with regular food (e.g., Beneprotein®)  
Enteral feeds (for patients receiving non-oral feeding)  
[(See Section 3, Tool 3-10, Formulas that Provide Total Nutrition for Oral or Enteral Tube Feeding, page 57)](link) |  
- Permit family, volunteers and other non-staff to assist with meal tray or feeding  
- Loosen dietary restrictions, if possible  
- Recognize that a balanced diet of regular food and beverages may be equal or preferable to commercial supplements  
**Note:** Hypoalbuminemia may not respond to nutritional supplements if it is attributable to additional factors, such as chronic infection or inflammatory condition |
| Neurogenic dysphagia (difficulty ingesting thin liquids)  
Oral dyspraxia (difficulty eating when fed) | Fluid thickener (e.g., Thick-it®)  
Applesauce or other packaged food for crushed pills |  
- Serve pureed foods  
- Mix thin liquids with thickener  
- Administer frequent, small feedings  
- Provide favorite foods from home, in the appropriate consistency |
| Oral apraxia (inability to ingest sufficient food and fluids when fed) | Small-bore nasogastric feeding tubes |  
- Nasogastric tubes for temporary use only; gastrostomy if consistent with goals of patient  
- In advanced dementia and other terminal illnesses, consider a palliative care approach (spoon feeding as patient tolerates; [(see Section 7, Palliative Care, page 119)](link)) |
| Hydration              | Flexible drinking straws  
Intravenous fluids and tubing |  
- Permit volunteers to assist the patient with drinking  
- Monitor hydration status clinically (observe amount of fluid intake, color of urine or wetness of pads and incontinence garments and moisture of mucous membranes; note that skin turgor is an unreliable sign in the elderly)  
- Avoid indwelling catheters for fluid monitoring, if possible |
### Tool 3-8. Cont’d

<table>
<thead>
<tr>
<th>Patient Vulnerability</th>
<th>Equipment/Inventory</th>
<th>Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urinary incontinence</td>
<td>• Bedside commodes</td>
<td>• Avoid in-dwelling catheters to minimize catheter-related infection (this will also minimize unnecessary equipment use)</td>
</tr>
<tr>
<td></td>
<td>• Bedpans</td>
<td>• Recognize pseudoincontinence (the inability to get to the toilet)</td>
</tr>
<tr>
<td></td>
<td>• Urinals</td>
<td>• Permit family and volunteers to assist in toileting patient</td>
</tr>
<tr>
<td></td>
<td>• Incontinence pads</td>
<td>• Simple voiding is also preferable to the use of condom catheter because of infection risk</td>
</tr>
<tr>
<td></td>
<td>• Adult diapers</td>
<td>• Scheduled toileting</td>
</tr>
<tr>
<td></td>
<td>• Condom catheters</td>
<td></td>
</tr>
<tr>
<td>Urinary retention</td>
<td>• Alpha blockers</td>
<td>• Seek reversible causes (<a href="#">see Section 3, Tool 3-6, Reversible Causes of Urinary Retention, page 49</a>)</td>
</tr>
<tr>
<td></td>
<td>• Straight catheters</td>
<td>• Assist male patients in standing to urinate</td>
</tr>
<tr>
<td></td>
<td>• Foley catheters</td>
<td></td>
</tr>
<tr>
<td>Fecal incontinence</td>
<td>• Incontinence pads</td>
<td>• Identify cause of diarrhea (consider paradoxical presentation of fecal impaction)</td>
</tr>
<tr>
<td></td>
<td>• Adult diapers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Bedside commode</td>
<td></td>
</tr>
<tr>
<td>Fecal impaction</td>
<td>• Laxatives</td>
<td>• Avoid bulk-forming laxatives such as psyllium (Metamucil®) for immobile patients</td>
</tr>
<tr>
<td></td>
<td>• Stool softeners</td>
<td>• Permit family and others to assist in reporting patient’s bowel function</td>
</tr>
<tr>
<td></td>
<td>• Enemas</td>
<td>• Ensure patient hydration and mobility, if possible</td>
</tr>
<tr>
<td></td>
<td>• Avoid constipating medications (<a href="#">see Section 4, Tool 4-6, Drugs that Commonly Cause Constipation, page 80</a>)</td>
<td>• Scheduled, seated toileting, if possible</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Note: Impaction may present with diarrhea</td>
</tr>
<tr>
<td>Susceptibility to abnormalities in thermoregulation: hypothermia</td>
<td>• Warm socks</td>
<td>• Rectal or axillary temperature measurements if patient cannot cooperate for adequate oral measurement</td>
</tr>
<tr>
<td></td>
<td>• Blankets</td>
<td>• Document method of temperature measurement (rectal higher and axillary lower than oral temp)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Normal temperature does not rule out infection</td>
</tr>
</tbody>
</table>
Tool 3-8. Cont’d

<table>
<thead>
<tr>
<th>Patient Vulnerability</th>
<th>Equipment/Inventory</th>
<th>Guidance</th>
</tr>
</thead>
</table>
| Susceptibility to pressure and need for wound care\(^{20-21}\) (see Section 3, Resources, pages 60-63) | • Pillows and bed linens  
• Towels  
• Incontinence pads and adult diapers  
• Bandages and dressings  
• Sterile water or saline  
• Iodine (Betadyne®)  
• Enzymatic debriding agents  
• Cushioned heel pads | • Priorities: Remove pressure, keep dry, avoid friction  
• Bony prominences with little subcutaneous fat are the most susceptible  
• Permit family and other non-staff to assist in turning, repositioning or toileting patient  
• Roll bed linens or towels to aid positioning; insert under ankle to elevate heel and prevent heel ulcers  
• Avoid indwelling catheter (does not prevent fecal soiling or moisture from perspiration; causes urinary infection)  
**Note:** Special mattresses do not make enough difference to justify the extra inventory |
| Deconditioning (deterioration in physical function due to immobility)\(^5\) | • Hardback chairs  
• Recliner bedside chairs | • Teach patient, family, other caregivers or volunteers to perform simple in-bed or in-chair exercises  
• Permit family and other caregivers, or volunteers, to assist patient in transferring, standing, walking, and in-bed or in-chair exercise  
• Recliner chairs for use by visiting staff caregivers who may need to provide around-the-clock assistance |
| Susceptibility to adverse drug events | For detailed guidelines, see Section 4, Medications: Prescribing and Dispensing, page 64 | Use non-pharmacological measures whenever possible and appropriate |
Tools 3-9 through 3-11. Tube Feeding

Short term feeding by tube is often indicated in patients who cannot take nutrition and fluids by mouth and who are expected to recover, but long term use in patients with advanced dementia and other terminal illnesses is controversial. Tool 3-9 provides clinical guidance on using feeding tubes in the acute care setting; 3-10 describes different types of basic feeds available for oral use or for enteral tube feeding; 3-11 provides practical alternatives when long term tube feeding is not consistent with the patient’s goals of care.

Tool 3-9. Enteral Nutrition and Hydration by Tube

Indications
- **Temporary** provision of comprehensive or supplemental nutrients in patients unable to take solids and liquids adequately by mouth (not intended to replace oral feeding in patients who can be fed)
- Continued provision of oral nutrients and fluids in patients receiving long-term tube feeding, unless contraindicated or refused
- Rarely, for administration of vital medication that cannot be administered parenterally and for which alternative medication is unavailable (e.g., carbidopa-levodopa in patients receiving and requiring this medication for Parkinson’s disease)

Formula
- Isotonic, unless clinical condition dictates otherwise (see Section 3, Tool 3-10, Formulas that Provide Total Nutrition for Oral or Enteral Tube Feeding, page 57)

Rate
- Initiate at 25-30 cc per hour by continuous drip over 18 hours
- Increase tube feeding rate by increments of 20 cc per hour approximately every eight hours until calorie goal is reached.
- Rate may be increased more gradually in patients who have eaten minimally for prolonged periods to avoid refeeding syndrome
- During titration, ensure adequate hydration with supplemental intravenous fluid, if indicated

Method
- Administer continuous feed by gravity or by pump
- Keep stomach empty for at least six of every 24 hours (ideally during night sleep) to reduce aspiration risk and to facilitate repositioning and return of appetite; check gastric residuals periodically
- Intermittent feeds by drip may be given if continuous feeding is impractical; avoid rapid “bolus” administration
- Keep head of bed elevated and reposition patient during feeding
- Flush tube periodically to maintain patency while avoiding excessive free water flushes because of risk of hyponatremia in susceptible patients
- Nasogastric tubes should be small bore to maximize comfort

Percutaneous endoscopic gastrostomy (PEG) should generally be employed only if long-term feeding is expected; in these circumstances, PEG is preferred over a nasogastric tube, which is more likely to
become dislodged and lead to restraint use

**Caveat: Tube feeding in patients with end-stage dementia** and other terminal illnesses

- Exhaust alternatives before considering tube feeding (see Tool 3-11 below, Alternatives to Tube Feeding)
- Ascertain patient’s wishes before instituting tube feeding (see Section 6. Ethical and Legal Issues)

*See Section 7, Tool 7-3, Dementia Stage and Failure to Eat, page 127

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### Tool 3-10. Formulas that Provide Total Nutrition for Oral or Enteral Tube Feeding*

<table>
<thead>
<tr>
<th>Type</th>
<th>Example</th>
<th>Indication</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flavored</td>
<td>Carnation Instant Breakfast® (powder)</td>
<td>Supplemental oral feeding, if convenience or swallowing problems require</td>
<td>Less expensive than most commercial liquid preparations; it is intended to be mixed with milk</td>
</tr>
<tr>
<td></td>
<td>Ensure® (liquid)</td>
<td>Supplemental oral feeding, if convenience or swallowing problems require</td>
<td>Canned supplements are more expensive but convenient and generally lactose and gluten free; certain brands are available as pudding</td>
</tr>
<tr>
<td></td>
<td>Blenderized (“home made”)</td>
<td>Oral or enteral feeding</td>
<td>Reduce risk of spoilage by refrigerating until use</td>
</tr>
<tr>
<td>Isotonic** (about 1 cal/ml)</td>
<td>Osmolite® Nutren®</td>
<td>Default choice for tube feeding</td>
<td>Not flavored, therefore generally not appropriate for oral feeding</td>
</tr>
<tr>
<td>Fiber-added</td>
<td>Many brands, with variable amounts of fiber</td>
<td>Designed to reduce diarrhea, but evidence of efficacy is conflicting</td>
<td>Standard fiber-containing formulas contain modest amounts; in general, excessive fiber is not recommended for immobilized patients</td>
</tr>
<tr>
<td>Calorie-dense (2 cal/ml)</td>
<td>Osmolite® HN Nutren® 2.0 TwoCal® HN</td>
<td>Water restriction (e.g., SIADH); increased nitrogen needs</td>
<td>Hypertonic to gut; may increase risk of diarrhea</td>
</tr>
<tr>
<td>Protein powder</td>
<td>Beneprotein®</td>
<td>Mix with oral or enteral feed if increased protein is indicated</td>
<td>Low serum albumin alone is not a specific indication for tube feeding or protein supplementation</td>
</tr>
</tbody>
</table>

*For further reading, see Malone A. Enteral formula selection: A review of selected product categories. Practical Gastroenterology (available at: www.healthsystem.virginia.edu/internet/digestive-health/nutritionarticles/malonearticle.pdf), a comprehensive reference, containing detailed information on specialized feeding formulations, with evidence for and against certain claims; also provides recipes for “home-made” blenderized feed 22
** Tonicity approximating that of normal body fluids, avoiding net secretion of water into the gut and theoretically reducing risk of diarrhea; low in sodium

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**Tool 3-11. Alternatives to Long-Term Tube-Feeding*: Helping to avoid tube-feeding when it is not necessary or when patient refuses**

**Approach to patients who need assistance with eating and drinking**
- Assist the patient in reaching the food tray, open containers and feed self.
- Ascertain patient’s baseline feeding status.
- Provide frequent, small feedings with a spoon.
- Determine food preferences and permit others to bring favorite foods from home.
- Add condiments to improve taste.
- For patients having difficulty swallowing liquids, provide foods with “antidysphagia” consistency (thick puree) and add commercially available thickener (e.g., Thick-it®) to liquids.
- Provide intravenous fluids during delays in recovery of feeding after acute illness. Expect five to 10 days for full return to baseline eating in frail patient.
- Supplement tube feeds with oral feeds, as tolerated.
- Use family or trained volunteers to assist in feeding.
- Obtain information about patient’s wishes regarding long-term tube-feeding, if possible, and abide by these wishes as legally required (see Section 6, Ethical and Legal Issues, page 105).
- Inform patients or their surrogate decision-makers about risks and benefits of feeding tubes.

**Tube-feeding is not generally indicated in the following conditions (evidence of benefit lacking)**
- Pneumonia, including recurrent sub-clinical aspiration pneumonia
- Pressure ulcer
- Low serum albumin
- Swallowing evaluation that indicates aspiration risk
- Prevention of painful death from failure to eat and drink

REFERENCES


RESOURCES

**American Medical Directors’ Association**

**Clinical Corner: Pressure Ulcers**

American Medical Directors Association

Useful clinical information on pressure ulcers, including staging and guidelines for management. [www.amda.com/tools/clinical/pressureulcers.cfm](http://www.amda.com/tools/clinical/pressureulcers.cfm)
National Pressure Ulcer Advisory Panel  
Updated Pressure Ulcer Staging System  
www.npuap.org/pr2.htm

The American Geriatrics Society  
Get Up and Go Test  
Source to assess the risk of falling.  
www.americangeriatrics.org/education/02_get_up_go_test.pdf

American Geriatrics Society, British Geriatrics Society, and American Academy of Orthopaedic Surgeons Panel on Falls Prevention  
Guideline for the Prevention of Falls in Older Persons  
www.americangeriatrics.org/products/positionpapers/Falls.pdf

The University of Chicago  
Care of the Hospitalized Aging Medical Patient (CHAMP)  
Slide presentations, pocket teaching cards, and other tools to manage conditions encountered in hospitalized elderly patients. Selected topics include falls prevention (including pros and cons of restraints), wound care, dementia, deconditioning and delirium.  
http://champ.bsd.uchicago.edu/index.html

Mini-CHAMP  
Streamlined version of CHAMP  
http://champ.bsd.uchicago.edu/minichamp.html

The University of Iowa \Geriatric Education  
GeriaSims  
Interactive “virtual patient” simulations (registration required).  
• Multiple topics, useful for formal classes in geriatrics;  
  www.healthcare.uiowa.edu/igec/e-learn_lic/geriasims/default.asp  
• Geriatric assessment tools  
  www.healthcare.uiowa.edu/igec/tools/default.asp  
• Time and Change Test  
  Rapid testing tool for dementia in older patients; useful for ethnically diverse populations.  
  www.healthcare.uiowa.edu/igec/tools/cognitive/SPMSQ.pdf

Society of Hospital Medicine  
Clinical Toolbox for Geriatric Care  
A set of online geriatric assessment instruments adapted from multiple sources.  
www.hospitalmedicine.org/geriresource/toolbox/howto.htm

Selected tools:  
• Confusion Assessment Method (CAM; for rapid assessment of delirium)  
• Mini-Cog/Clock-Draw Test (for rapid dementia screening in multilingual elderly population)
• **Short Portable Mental Status Questionnaire** (brief rapid dementia screening test)
• **Restraint Alternative Menu** (strategies to manage agitated patients without restraints)

[www.hospitalmedicine.org/geriresource/toolbox/howto.htm](http://www.hospitalmedicine.org/geriresource/toolbox/howto.htm)

**Portal of Online Geriatric Education (POGOe)**
Free geriatric educational materials, many peer-reviewed, from many academic medical centers and professional organizations. Registration may be required; after login, go to “Product Library;” selected topics include pressure sore slide presentation, pocket card on approach to older patients, delirium in elderly emergency department patients slide presentation and collections of educational tools from several academic programs.

[www.POGOe.org](http://www.POGOe.org)

**Selected Clinical Tools**
**Clock-Draw Test**
Rapid dementia screening in multi-lingual elderly

**Restraint Alternative Menu**
[www.hospitalmedicine.org/geriresource/toolbox/pdfs/restraint_alternative_progr.pdf](http://www.hospitalmedicine.org/geriresource/toolbox/pdfs/restraint_alternative_progr.pdf)

**The Hospitalized Frail Elder: Teaching Strategies for Identification and Assessment**
A slide show for teaching that provides tools and rationale.

**National Council on Interpreting in Health Care**
Organization devoted to improving quality of medical interpreters. Web site contains links, publications, and other resources.
[www.ncihc.org](http://www.ncihc.org)

**Donald W. Reynolds Consortium for Faculty Development to Advance Geriatric Education**
**Minifellowships in geriatrics**
Three- to four-day minifellowships in geriatrics; some held outside of New York City area. Free for physicians who are not certified in geriatrics and who are not already in programs funded by D.W. Reynolds Foundation.

**Gerontological Society of America Expert Referral Service**
Provides experts in many fields of aging (not intended for patient referrals).
Tel. (202) 842-1275, ext. 142
[www.geron.org/Resources/Expert%20Referral%20Service](http://www.geron.org/Resources/Expert%20Referral%20Service)

**REUSABLE HEARING AIDS**
Various models of pocket type hearing aids can be purchased online from $20 to more
than $200 and can be kept in the hospital ward or office. These products consist of a pocket size microphone connected to earphones to be used while interviewing or examining a severely hearing impaired patient who does not have a hearing aid.
SECTION 4. MEDICATIONS: PRESCRIBING AND DISPENSING

PURPOSE

This Section is intended to provide guidance to clinicians and pharmacists on prescribing and dispensing medications to elderly patients during a disaster. The principles outlined can be applied in the emergency department, acute wards or other areas of the hospital, including the Soft Care Area (see Section 2, Soft Care Area, page 30).

BACKGROUND

Elderly patients take more prescription and non-prescription medications than any other age group and many need help accessing or taking their medications. Medication regimens are often complex, involving any combination of injectable, transdermal, inhaled and ocular preparations in addition to oral medications, which may need to be crushed or given in liquid form. Even in the best of circumstances, elderly people may not adequately follow prescribed regimens. In addition, older patients have more adverse drug events than any other population group due in part to a lack of knowledge among prescribers about geriatric dosing and what medications are risky or inappropriate for older adults. As many as 42% of serious adverse drug reactions among the elderly may be preventable. Also, newer medications require extra caution because very few subjects in clinical trials are over 65 years of age.

In a disaster, access and adherence to medication regimens would likely be exacerbated by (1) a lack of vital medical and social services, and personal caretakers; (2) patients arriving at hospitals or other sites without bringing their medications or information about their prescribed regimen; (3) a shortage of providers with geriatric training, which could increase the likelihood of adverse drug events.

PLANNING GUIDELINES

1. Build an Inventory of Essential Inpatient and Outpatient Medications

Hospital pharmacies should (1) maintain supplies of disaster-specific medications appropriate for elderly patients; (2) develop systems to ensure that, during a disaster, hospitalized, elderly patients have access to essential medications that they take on an ongoing basis; (3) stock minimal-dosage tablets and special formulations of commonly used medications, such as liquid preparations, and scored or crushable pills; (4) have an additional, minimum 4-day supply of commonly prescribed, essential outpatient medications for use by medically stable patients who are awaiting discharge from the emergency department or acute wards (see Section 4, Resources, Most Commonly Prescribed Outpatient Medications for People 65 and Older in New York City, page 85).
2. Ensure Adherence to Principles of Geriatric Prescribing and Administration

Clinical departments should ensure that clinicians are trained in geriatric prescribing principles or methods of administration, as appropriate. Basic tools are available that can provide rapid teaching or immediate guidance for all. Hospital pharmacists should also have rapid access to such guidelines so they can serve as a second check in a disaster. 

**Tools 4-2 to 4-8, pages 66-83** are provided below for training and rapid reference.

**TOOLS**

Tools 4-1 to 4-8 consist of quick reference tables to assist clinicians in appropriate prescribing practices for elderly patients. The information is particularly pertinent to the management of frail elderly, who often experience adverse effects at usual adult doses and tend to experience specific adverse effects that younger patients generally do not. An understanding of these factors begins with an awareness of certain pharmacokinetic and pharmacodynamic changes that occur with age.

**Tool 4-1. Age-associated Pharmacokinetic and Pharmacodynamic Changes*”**

**Pharmacokinetics**

- Average 50% decline in renal function by age 70, though not universal
- Serum creatinine is an unreliable measure of renal function in elderly patients, often masking renal insufficiency
- Consequences of occult renal insufficiency: elevated drug levels after continuous dosing of renally excreted drugs or active metabolites; adverse drug events likely when using medications with a narrow therapeutic index (elevated toxic-to-therapeutic ratio)
- Reduced hepatic oxidative metabolism that varies greatly among patients based on genetic differences, comorbidities, smoking, and other extrinsic factors
- Altered drug distribution, due to:
  - Low serum albumin (usually in chronic or acute illness), increasing free fraction of highly bound drugs and requiring cautious interpretation of therapeutic drug levels (e.g. phenytoin)
  - Increased fat-to-lean ratio, causing increased duration of the action of lipophilic drugs (e.g. many CNS drugs)
  - Decreased body water, causing more rapid onset and peak effect of drugs that distribute in water (e.g., ethanol)

**Pharmacodynamics**

- Altered (usually enhanced) sensitivity to medications
- Overt and preclinical disease enhancing the risk of specific adverse drug events (see Section 4, Tool 4-7, Medication Adverse Effects in Elderly Patients with Specific Conditions, page 81)

*For additional information, see Section 4, Reference 8, page 84
### Tool 4-2. Geriatric Medication Guidelines for Commonly Encountered Medical Conditions in the Acute Care Setting.*

<table>
<thead>
<tr>
<th>INDICATION</th>
<th>PREFERRED DRUG AND STARTING DOSE**</th>
<th>SPECIFICS OF GERIATRIC USE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Influenza A</strong></td>
<td>Oseltamivir (Tamiflu®)</td>
<td>• Adjust for renal function: Creatinine clearance &lt;30 mL/min: 75 mg daily for treatment; 75 mg every other day for prophylaxis (no data available for CrCl&lt;10)</td>
</tr>
<tr>
<td></td>
<td>Usual adult dose:</td>
<td>• Reported to cause mental status changes in children, though not in the elderly, despite renal elimination of this drug</td>
</tr>
<tr>
<td></td>
<td>Treatment: 75 mg twice daily</td>
<td>• Avoid amantadine and rimantadine because of CNS side effects (unless neuraminidase inhibitor such as oseltamivir cannot be given), or adjust for renal function¶</td>
</tr>
<tr>
<td></td>
<td>Prophylaxis: 75 mg daily</td>
<td>• For both ciprofloxacin and doxycycline, avoid calcium and iron supplements, which may chelate the antibiotic and reduce absorption</td>
</tr>
<tr>
<td></td>
<td>Based on CDC recommendations for 2009-10 influenza season; otherwise adhere to recommendations of NYC Department of Health and Mental Hygiene at time of incident</td>
<td></td>
</tr>
<tr>
<td><strong>Anthrax</strong></td>
<td>Ciprofloxacin</td>
<td>• Inhibits metabolism of warfarin and certain other medications metabolized by CYP450 enzymes</td>
</tr>
<tr>
<td></td>
<td>• Adhere to recommendations of NYC Department of Health and Mental Hygiene at time of incident for specific drug selection</td>
<td>• Adjust for renal function¶</td>
</tr>
<tr>
<td></td>
<td>• See also Centers for Disease Control and Prevention (CDC) recommendations, visit: <a href="http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5042a1.htm#tab1">www.cdc.gov/mmwr/preview/mmwrhtml/mm5042a1.htm#tab1</a></td>
<td>• For both ciprofloxacin and doxycycline, avoid calcium and iron supplements, which may chelate the antibiotic and reduce absorption</td>
</tr>
<tr>
<td><strong>Pneumonic Plague</strong></td>
<td>Adhere to recommendations of NYC Department of Health and Mental Hygiene at time of incident for specific drug</td>
<td>If using aminoglycosides or carbapenems, adjust the maintenance dose or the interval between doses to account for renal function¶</td>
</tr>
</tbody>
</table>

*Draft for Comment
New York City Department of Health and Mental Hygiene
### Other Bacterial Infections

Select antibiotic based on specific indication and antimicrobial sensitivity; do not avoid based on advanced age

- Aminoglycosides, vancomycin and carbapenems—adjustment for renal function is mandatory because of serious dose-related toxicity
- If available, serum-drug monitoring is appropriate
- Other renally eliminated antimicrobials with dose-related adverse effects (e.g. ciprofloxacin; amantadine)—dose adjustment for renal function is optimal

### Acute Herpes Zoster

- Acyclovir, Famiclovir, Valacyclovir
- In general, give usual adult dose of selected agent
- Oral agents: may adjust for renal function by increasing the dosing interval (this will also improve adherence)
- Intravenous acyclovir: adjust for renal function and maintain adequate hydration

### Congestive Heart Failure

- ACE inhibitor, angiotensin receptor blocker (ARB), beta blocker
  - Use the lowest possible starting dose and titrate slowly
- Furosemide oral: 10-20 mg
- Furosemide intravenous: 5-10 mg for frail elderly
- If digoxin is used, adjust for renal function
- Adjust other drugs according to clinical response to avoid symptomatic hypotension
- Discontinue pioglitazone or rosiglitazone if either was previously prescribed for diabetes
### Hallucinations or Delusions (if disturbing to patient or interfering with essential care)

<table>
<thead>
<tr>
<th>Preferred Drug and Starting Dose**</th>
<th>Preferred Drug and Starting Dose**</th>
<th>Preferred Drug and Starting Dose**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quetiapine (Seroquel®): 25-50 mg</td>
<td>Risperidone (Risperdal®): 0.25-0.5 mg</td>
<td>Haloperidol (Haldol®): 0.25-0.5 mg</td>
</tr>
<tr>
<td>Olanzapine (Zyprexa®): 5 mg</td>
<td></td>
<td>Clozapine (Clozaril®): 6.25-25 mg (if other agents cannot be used)</td>
</tr>
</tbody>
</table>

- Dosing interval of antipsychotic medications depends on response – avoid oversedation
- Quetiapine is less likely to produce extrapyramidal symptoms compared to other antipsychotics (except clozapine)
- Reserve clozapine for patients in whom atypical antipsychotics are contraindicated (such as Parkinson’s Disease or Lewy body dementia) due to their extrapyramidal effects; this is necessary since clozapine requires frequent hematologic monitoring for neutropenia
- Olanzapine requires monitoring for hyperglycemia
- Haloperidol has high risk of Parkinsonian adverse effects and is best for short term use; contraindicated in patients with Parkinson’s disease or Lewy body dementia
- Hallucinations and delusions in dementia that are not disturbing to the patient do not require medication unless they interfere with essential care, though family and staff may need reassurance
### Tool 4-2. Cont’d

<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
</tr>
</thead>
</table>
| **Agitated Delirium** | Haloperidol, oral or subcutaneous: 0.5-1 mg | • Avoid benzodiazepines (may worsen delirium)  
• Address underlying cause of delirium immediately (see Section 3, Clinical Care of Acutely Ill Elderly Patients, page 42)  
• Use nonpharmacological (interpersonal) methods whenever possible  
• Haloperidol when given in high intravenous doses (unlabeled use) is proarrhythmic |
| **Hypertension** | ACE Inhibitor, angiotensin receptor blocker (ARB), thiazide or dihydropyridine calcium channel blocker  
• Select drug according to patient risk profile and comorbidities  
• Use lowest starting dose and titrate over several days | • Avoid abrupt lowering of blood pressure  
• Beta blockers: In general, reserve for patients with coexisting CHF, coronary artery disease, or arrhythmia; extreme caution required if patient has a history of bronchospasm  
• Hydralazine may be used as second-line medication  
• Rare bladder symptoms occur with calcium channel blockers  
• Nondihydropyridine calcium channel blockers verapamil and diltiazem are very constipating  
• Alpha blockers may cause orthostatic hypotension; first dose requires extra caution in frail elderly individuals |
<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
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<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diabetes</strong></td>
<td>Various Medications</td>
<td>• Metformin contraindicated in renal failure; use with caution in patients with creatinine clearance &gt;30 but &lt;50 mL/min; temporarily discontinue if risk of renal insufficiency arises (e.g., planned contrast study or surgery)</td>
</tr>
<tr>
<td></td>
<td>• Select oral agents according to patient’s side-effect risk profile</td>
<td>• Pioglitazone and rosiglitazone contraindicated in congestive heart failure</td>
</tr>
<tr>
<td></td>
<td>• Initial therapy of all oral agents: smallest available dose and gradual titration</td>
<td>• Sulfonylureas: glyburide (Micronase®, Diabet®) more likely to cause hypoglycemia than glipizide (Glucotrol®) or glimepiride (Amaryl®)</td>
</tr>
<tr>
<td></td>
<td>• Insulin: no specific age-adjusted dosing parameters</td>
<td>• For all agents, avoid hypoglycemia; signs and symptoms may not be apparent</td>
</tr>
<tr>
<td><strong>History of Thrombotic Stroke, Transient Ischemic Attack or Coronary Heart Disease</strong></td>
<td>Aspirin: 81-325 mg once daily</td>
<td>Adding clopidogrel (Plavix®) increases gastrointestinal and other bleeding events with little or no proven additional benefit in most cases; however, clopidogrel may be useful for patients with true aspirin allergies</td>
</tr>
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## Tool 4-2. Cont’d

<table>
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<tr>
<th>PREFERRED DRUG AND STARTING DOSE**</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Peptic Ulcer and Gastritis</strong></td>
<td>Proton pump inhibitors (PPIs)</td>
<td>• No dose adjustments necessary for oral use of PPI or H-2 blockers</td>
</tr>
<tr>
<td></td>
<td>Histamine-2 (H-2) blockers: famotidine, nizatidine</td>
<td>• H-2 blockers: adjust for renal function[5] if given intravenously</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Possible to discontinue PPI or H-2 blocker if it has been prescribed as routine prophylaxis</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cimetidine may be used as second line H-2 blocker (may cause drug interactions and mental status changes); adjust for renal function[6]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Magnesium-aluminum-containing antacids are acceptable as second-line treatment, though should generally be reserved for nonulcer dyspepsia</td>
</tr>
<tr>
<td><strong>Seizure Disorder</strong></td>
<td>Various Medications</td>
<td>• Phenytoin (Dilantin®): toxicity of repeated dosing may cause stupor and coma; serum total drug levels may be falsely low in hypoalbuminemia and post-dialysis (compared to free drug level, not routinely available)</td>
</tr>
<tr>
<td></td>
<td>No age-specific age guidelines or drug selection</td>
<td>• Gabapentin may cause or worsen edema</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• All anticonvulsants can cause lethargy or confusion, especially at higher doses</td>
</tr>
</tbody>
</table>

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*Draft for Comment*

**New York City Department of Health and Mental Hygiene**
<table>
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<tr>
<th>Tool 4-2. Cont’d</th>
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<tr>
<td><strong>PREFERRED DRUG AND STARTING DOSE</strong></td>
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<tr>
<td><strong>PREFERRED DRUG AND STARTING DOSE</strong></td>
</tr>
<tr>
<td>Deep Vein Thrombosis (DVT) Prophylaxis</td>
</tr>
<tr>
<td>• LMWH: adjust for renal function</td>
</tr>
<tr>
<td>• Unfractionated heparin enhances risk of osteoporosis with chronic dosing (discontinue at discharge or switch to alternative prophylaxis if needed)</td>
</tr>
<tr>
<td>Deep Vein Thrombosis (DVT) or Pulmonary Embolism Treatment</td>
</tr>
<tr>
<td>• LMWH: adjust for renal function</td>
</tr>
<tr>
<td>• Unfractionated heparin: adjust according to activated partial thromboplastin time (aPTT)</td>
</tr>
<tr>
<td>Atrial Fibrillation (rate control)</td>
</tr>
<tr>
<td>• Digoxin: adjust maintenance dose for renal function</td>
</tr>
<tr>
<td>• Diltiazem: monitor for constipation</td>
</tr>
<tr>
<td>Atrial Fibrillation (chronic; prevention of thromboembolism)</td>
</tr>
<tr>
<td>• Warfarin: individualize decision to use based on patient’s function, the risk of falling, and the presence of lesions that may bleed; associated with many under-recognized drug interactions (e.g. certain antibiotics, grapefruit juice, St. John’s wort)</td>
</tr>
<tr>
<td>• Aspirin is less effective than warfarin; use if warfarin contraindicated; limited data on efficacy of doses lower than 325 mg</td>
</tr>
<tr>
<td>Pain: Mild</td>
</tr>
<tr>
<td>--------------------------------</td>
</tr>
<tr>
<td>Pain: Mild to Moderate Due to Inflammatory Conditions</td>
</tr>
</tbody>
</table>

- Acetaminophen: maximum daily dose of ≤3 gm is theoretically preferable to 4 gm, but supporting data is lacking
- Ibuprofen: associated with increased risk of upper gastrointestinal bleeding in elderly, especially if given around-the-clock

- Non-steroidal anti-inflammatory agents (NSAIDs) and COX-2 inhibitors are associated with increased risk of upper gastrointestinal bleeding in elderly (NSAID gastropathy)
- Short-acting agents such as ibuprofen given as needed (“PRN”) are preferable to long-acting NSAIDs, which have enhanced risk of bleeding or other adverse effects
- Monitor for gastrointestinal symptoms or occult bleeding, especially if administering around the clock
- COX-2 and other NSAIDs: monitor for edema, sustained elevations in blood pressure, or deterioration in renal function associated with repeated dosing
- Corticosteroids: observe for insomnia, psychosis and agitation; avoid chronic dosing if possible due to osteoporosis risk
### Tool 4-2. Cont’d

<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Pain: Moderate</strong></td>
<td>Codeine-acetaminophen (30 to 60 mg codeine plus 325 mg acetaminophen)</td>
<td>• Monitor for constipation, oversedation, confusion and urinary retention</td>
</tr>
<tr>
<td></td>
<td>Hydrocodone-acetaminophen (Vicodin®) (5 mg hydrocodone plus 500 mg acetaminophen)</td>
<td>• Extra caution required when initiating dose in frail elderly, opioid-naïve patients</td>
</tr>
<tr>
<td></td>
<td>Oxycodone-acetaminophen (Percocet®) 5/325; if lower dose needed, can give 2.5/325 mg dosage form if available (Percocet-Demi®)</td>
<td>Avoid a maximum daily dose of acetaminophen greater than 3 to 4 gm</td>
</tr>
<tr>
<td></td>
<td>Tramadol (Ultram®): 25-50 mg</td>
<td>• Tramadol may be less constipating than non-μ-receptor-specific opioids; concurrent use with serotoninergic drugs (e.g., selective serotonin reuptake inhibitors) may result in serotonin syndrome</td>
</tr>
</tbody>
</table>

- *Note: Monitor for constipation, oversedation, confusion and urinary retention.*
- *Extra caution required when initiating dose in frail elderly, opioid-naïve patients.*
- *Avoid a maximum daily dose of acetaminophen greater than 3 to 4 gm.*
- *Tramadol may be less constipating than non-μ-receptor-specific opioids; concurrent use with serotoninergic drugs (e.g., selective serotonin reuptake inhibitors) may result in serotonin syndrome.*
Tool 4-2. Cont’d

<table>
<thead>
<tr>
<th>PREFERRED DRUG AND STARTING DOSE**</th>
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<th>PREFERRED DRUG AND STARTING DOSE**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pain: Severe or not responding to moderate pain regimens</strong></td>
<td>Oxycodone 2.5-5 mg</td>
<td>• Use half of the usual starting dose for opioid-naïve frail elderly, especially when giving intravenously or subcutaneously, and monitor closely for hypotension and lethargy</td>
</tr>
<tr>
<td></td>
<td>Morphine 2.5-5 mg p.o. (1-2 mg subcutaneous)</td>
<td>• Liquid forms of most opioids are available; rectal opioid absorption is erratic</td>
</tr>
<tr>
<td></td>
<td>Hydromorphone (Dilauded®) 1-2 mg (0.5 mg s.c.)</td>
<td>• Monitor for constipation and add laxative early</td>
</tr>
<tr>
<td></td>
<td>Tramadol: <a href="#">See moderate pain regimen in box above, page 74; titrate to effect</a></td>
<td>• Drug accumulation is common, especially with morphine, because active metabolite is excreted renally; monitor closely if prescribed around the clock</td>
</tr>
<tr>
<td></td>
<td>For further guidelines on dose titration in frail elderly, see <a href="#">Section 7, Tool 7-6, Age-adjusted Dosing for Opioid Treatment of Acute Pain, page 130</a> and <a href="#">Tool 7-7, Severe Symptom Management Chart, page 131</a>.</td>
<td>• Fentanyl patch: apply only after titration of short-acting opioid; avoid in opioid-naïve patients ¹²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Methadone: extreme caution is required because the duration of analgesia is intermediate but the drug half life is very long; there is a significant risk of drug accumulation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Avoid meperidine (Demerol®) because of accumulation of renally excreted toxic metabolite</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Avoid propoxyphene (minimal therapeutic effect despite opioid side effects; may cause cardiac dysrhythmia)</td>
</tr>
</tbody>
</table>
### Pain: Neuropathic

<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Opioids (see above)</td>
</tr>
<tr>
<td>• Gabapentin – 100 mg t.i.d. or 300 mg at bedtime</td>
</tr>
<tr>
<td>• Pregabalin (Lyrica®) – 50 mg t.i.d. or 150 mg h.s.</td>
</tr>
</tbody>
</table>

- Gabapentin is renally eliminated; monitor for sedation and confusion; may give entire dose at night
- Gabapentin and pregabalin may cause or worsen edema; may produce dose-related sedation and confusion
- Tricyclic antidepressants (TCAs) should be used as second line because of adverse effects (nortriptyline is preferred if TCA is needed); use the smallest available dose and monitor for confusion and urinary retention

<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Opioids: see above</td>
</tr>
<tr>
<td>• Gabapentin is renally eliminated; monitor for sedation and confusion; may give entire dose at night</td>
</tr>
<tr>
<td>• Gabapentin and pregabalin may cause or worsen edema; may produce dose-related sedation and confusion</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PREFERRED DRUG AND STARTING DOSE</strong></th>
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<tr>
<td>• Tricyclic antidepressants (TCAs) should be used as second line because of adverse effects (nortriptyline is preferred if TCA is needed); use the smallest available dose and monitor for confusion and urinary retention</td>
</tr>
</tbody>
</table>
### Tool 4-2. Cont’d

<table>
<thead>
<tr>
<th>Preferred Drug and Starting Dose**</th>
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<th>Preferred Drug and Starting Dose**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wheezing</strong></td>
<td>• Inhaled beta agonists</td>
<td>• Generally well-tolerated in usual adult doses; distinguish between tachycardia due to respiratory distress and tachycardia associated with excessive dose of the drug</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Observe whether the patient can use hand-held or metered dose inhaler (MDI) properly; a spacer for MDI or face mask for nebulized delivery may be necessary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• May use cautiously in patients with cardiac asthma (bronchospasm resulting from congestive heart failure) as adjunct to loop diuretic and ACE inhibitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• For chronic obstructive pulmonary disease, may give in conjunction with inhaled ipratropium, which has a relatively low risk of producing anticholinergic side effects at the usual doses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If corticosteroids are used, monitor for insomnia, psychosis and agitation; reduce dose or taper rapidly if mental status is altered</td>
</tr>
</tbody>
</table>

*See also dose recommendations in Section 5, Mental Health Issues, page 86 and Section 7, Palliative Care, page 119.*

** Assumes absence of hepatic dysfunction and overt renal failure; renal guidelines in this tool are based on age-related occult renal insufficiency (see Section 4, Tool 4-3, Rapid Estimate of Creatinine Clearance Using the Cockcroft Gault Equation, page 78 – immediately below)

*Serum creatinine is a poor predictor of renal function in older adults (overestimates creatinine clearance). Adjust maintenance dose for renal function or increase interval between doses.*
Tool 4-3. Rapid Estimate of Creatinine Clearance by Using the Cockcroft Gault Equation*

Creatinine clearance = \frac{(140\text{-age}) \times \text{weight in kg}}{72 \times \text{serum creatinine}}

(multiply x 0.85 for women)

The above calculation assumes stable renal function and lean/ideal body weight

Caveats:

- Vertical height measurement is problematic in the elderly because of age-related height loss, making estimates of lean body weight unreliable; thus, actual weight may be more reliable measure to utilize unless patient is obese

- Serum creatinine level less than 1.0 mg/dL in frail elderly individuals may lead to significant overestimate of creatinine clearance in debilitated elderly patients when using this and similar equations.


Note: Other methods have been proposed for estimating creatinine clearance in the elderly, though no method has been shown to be superior; for additional information see Section 4, Reference 14, page 85.
Tool 4-4. Drugs That May Cause Mental Status Changes in Elderly Individuals*

- Antipsychotics, especially at usual adult doses
- Hypnotics
- Benzodiazepines
- Barbiturates
- Clonidine
- Quinolone antibiotics
- Corticosteroids
- Opioid analgesics
- Gabapentin and pregabalin
- Other anticonvulsants
- Tricyclic antidepressants
- Sedating antihistamines (partial list)
  - Diphenhydramine (Benadryl®, Tylenol PM®)
  - Hydroxyzine (Atarax®, Vistaril®)
  - Meclizine (Antivert®)
  - Doxylamine (Unisom®)
- Other anticholinergics
- Cimetidine
- Oseltamivir (Tamiflu®)**
- Levodopa-carbidopa
- Amantadine and rimantadine
- Other dopamine agonists
- Lidocaine (intravenous)
- Muscle relaxants
  - Methocarbamol (Robaxin®)
  - Orphenadrine (Norflex®)
  - Cyclobenzaprine (Flexeril®)
  - Carisprodol (Soma®)
  - Chlorzoxazone (Parafon Forte®)
- Isoniazid (INH)
- Theophylline
- Nonsteroidal antiinflammatory agents
- Digoxin (rare at therapeutic doses)
- Beta blockers (rare)

*Mental status changes may be dose related

** May cause altered mental status, including delirium, although published reports to date are primarily of children and adolescents
Tool 4-5. Drugs That May Cause Urinary Retention

- Sedating “first generation” antihistamines
  - Diphenhydramine (Benadryl®; Tylenol PM®)
  - Hydroxyzine (Atarax®; Vistaril®)
  - Meclizine (Antivert®)
  - Doxylamine (Unisom®)
- Tricyclic antidepressants
- Opioids
- Gabapentin
- Oxybutynin (Ditropan®)
- Tolterodine (Detrol®)
- Other anticholinergics
  - Scopolamine
  - Hyoscyamine (Levsin®)
  - Dicyclomine (Bentyl®)
  - Benztropine (Cogentin®)
  - Trihexyphenidyl (Artane®)
- Calcium channel blockers (rare)

Tool 4-6. Drugs that Commonly Cause Constipation

- Opioids
- Calcium-channel blockers, especially verapamil and diltiazem
- Aluminum-containing antacids
- Anticholinergic medications (e.g. tricyclic antidepressants and antispasmodics)
- Antidiarrheal drugs
- Excessive fiber supplements
- Calcium supplements
### Tool 4-7. Medication Adverse Effects in Elderly Patients with Specific Conditions

<table>
<thead>
<tr>
<th>Underlying Disorder (may be pre-clinical)</th>
<th>Drug</th>
<th>Potential Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dementia or other cerebrocortical disease</td>
<td>Many (for list of drugs, see Section 4, Tool 4-4, Drugs That May Cause Mental Status Changes in the Elderly, page 79)</td>
<td>Confusion, sedation</td>
</tr>
<tr>
<td>Pre-clinical Parkinson’s disease</td>
<td>Antipsychotic agents</td>
<td>Extrapyramidal symptoms</td>
</tr>
<tr>
<td>Dementia with Lewy bodies</td>
<td>Metoclopramide</td>
<td>Rigidity and Gait instability</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tremor</td>
</tr>
<tr>
<td>Parkinson’s disease</td>
<td>Dopamine agonists</td>
<td>Hallucinations, worsening confusion</td>
</tr>
<tr>
<td></td>
<td>Levodopa-carbidopa (Sinemet®)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Amantadine</td>
<td>Amantadine may also cause overstimulation</td>
</tr>
<tr>
<td>Impaired baroreceptor function</td>
<td>Diuretics</td>
<td>Orthostatic hypotension</td>
</tr>
<tr>
<td>Venous insufficiency</td>
<td>Tricyclic antidepressants</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phenothiazines</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alpha blockers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td></td>
</tr>
<tr>
<td>Increased ADH secretion (age-related change)</td>
<td>Thiazide diuretics</td>
<td>Hyponatremia</td>
</tr>
<tr>
<td></td>
<td>Selective serotonin reuptake inhibitors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tricyclic antidepressants</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td></td>
</tr>
</tbody>
</table>
### Tool 4-7. Cont’d

<table>
<thead>
<tr>
<th>Underlying Disorder (may be pre-clinical)</th>
<th>Underlying Disorder (may be pre-clinical)</th>
<th>Underlying Disorder (may be pre-clinical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiac conduction disease</td>
<td>Verapamil</td>
<td>Bradycardia</td>
</tr>
<tr>
<td></td>
<td>Diltiazem</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Digoxin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beta blockers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other antiarrhythmics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cholinesterase inhibitors</td>
<td></td>
</tr>
<tr>
<td>Venous insufficiency</td>
<td>Calcium channel blockers</td>
<td>Edema</td>
</tr>
<tr>
<td></td>
<td>Hydralazine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gabapentin, pregabalin</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rosiglitazone, pioglitazone</td>
<td></td>
</tr>
<tr>
<td>Chronic open-angle glaucoma</td>
<td>Corticosteroids</td>
<td>Increased intraocular pressure</td>
</tr>
<tr>
<td>Bone loss</td>
<td></td>
<td>Accelerated osteoporosis (associated with chronic use)</td>
</tr>
<tr>
<td>Lens cloudiness</td>
<td></td>
<td>Accelerated cataract formation (associated with chronic use)</td>
</tr>
<tr>
<td>Benign Prostatic Hyperplasia</td>
<td>Many</td>
<td>Urinary retention</td>
</tr>
<tr>
<td>(for list of drugs, see Section 4, Tool 4-5, Drugs That May Cause Urinary Retention, page 80)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hyperparathyroidism</td>
<td>Thiazide diuretics</td>
<td>Hypercalcemia</td>
</tr>
<tr>
<td>Immobility</td>
<td>Diltiazem</td>
<td>Constipation</td>
</tr>
<tr>
<td>Age-related increased bowel transit time</td>
<td>Verapamil</td>
<td>Fecal impaction</td>
</tr>
<tr>
<td></td>
<td>Calcium supplements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Iron supplements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aluminum-containing antacids</td>
<td></td>
</tr>
</tbody>
</table>
Tool 4-8. Non-essential Medications that Could Be Discontinued during Acute Hospitalization

- Vitamin C and zinc for wound healing
- Calcium supplements, bisphosphonates, raloxifene and calcitonin for age-related osteoporosis
- Proton pump inhibitor or H-2 blocker for routine prophylaxis (unless patient has history of peptic ulcer, non-steroidal-antiinflammatory drug gastropathy or other clearcut indication)
- Therapeutic equivalents—duplicates from the same drug family
- Donepezil (Aricept®), other anticholinesterase inhibitors and memantine (Namenda®) for dementia; best to taper rather than to abruptly stop
REFERENCES


Draft for Comment
New York City Department of Health and Mental Hygiene


**RESOURCES**

**State University of New York – Downstate**

Most Commonly Prescribed Outpatient Medications for Aged People 65 Years and Older, New York *“Medications” are defined as those purchased from retail pharmacies in 2007. They are sorted by borough, neighborhood, and zip code. For a list of the top 20 medications in a specific catchment area, a hospital representative should contact SUNY-Downstate, Department of Pharmacy

Tel: 718-270-4238

**Commission for Certification in Geriatric Pharmacy**

This organization administers and determines eligibility for and administers the Certification Examination in Geriatric Pharmacy for licensed pharmacists with at least 2 years of experience; it also provides online self-assessment tools. The commission’s Web site has listing of certified geriatric pharmacists in New York and other regions.

[www.ccgp.org](http://www.ccgp.org)

**Duke University**

Center for Clinical and Genetic Economics

The BEERS List: Potentially Inappropriate Medications for the Elderly

A listing of medications to avoid or use with extreme caution according to Beers Criteria. The Web site has links to MEDLINEPlus for each medication, which gives guidelines for use (MEDLINEPlus guidelines are not geriatric specific).

[www.dcri.duke.edu/ccge/curtis/beers.html](http://www.dcri.duke.edu/ccge/curtis/beers.html)
SECTION 5. MENTAL HEALTH ISSUES

PURPOSE

This Section is designed to assist clinicians manage mental health issues in elderly patients hospitalized in emergency departments, a Soft Care Area (see Section 2, Soft Care Area, page 30) or acute care inpatient units, and who may:

- Have a history of psychiatric disease
- Develop urgent mental health problems associated with the disaster
- Are at greater risk of developing post-disaster mental health problems
- Develop confusion, anxiety or other symptoms due to displacement from home, loss of health care services, or disruptions in taking medication

The Section also provides guidance on diagnosing and managing behavioral or cognitive changes in patients who have a history of dementia or mild cognitive impairment, including:

- Distinguishing psychiatric and psychological syndromes from chronic neurological syndromes, such as dementia
- Recognizing delirium, and distinguishing it from dementia

There are also tools for recognizing and managing specific psychiatric syndromes that may occur in elderly patients in disasters, including:

- Anxiety
- Mood disorders, especially depression
- Secondary features of dementia, including agitation, delusions and hallucinations
- Withdrawal syndromes from interruptions in taking medications (opioids, sedative-hypnotics and antidepressants)

BACKGROUND

Vulnerable People Suffer Disproportionately in a Disaster

Many elderly residents in NYC live alone and in poverty; in addition, many are dependent on home-based health services, which can be disrupted in a disaster. Such obstacles, often compounded by difficulty in making social contacts and displacement from the familiarity of the home environment, can cause fear, confusion and anxiety, and even physical decline. In community-wide disasters, death rates may be highest among the elderly, but other vulnerable adults may face a similar loss of psychosocial and medical support in these situations, with serious short- and long-term consequences.

Psychological Responses to Trauma in the Elderly are Highly Variable

It is erroneous to generalize about how older adults will respond to the trauma of a disaster compared with younger adults—some are more vulnerable psychologically and...
others more resilient.³ It is important, therefore, to customize treatment according to individual needs. For example, an elderly patient with existing psychiatric disease may be at higher risk for mental and physical health problems from poor self-care, loss of access to medication or social support, or other factors.

Disaster preparedness can help prevent mental health problems
Disaster mental health experts agree that community, family and individual preparedness—knowing what to do in the event of a disaster and being prepared for evacuation and care—can reduce the risk of mental health problems in disasters. Government agencies and many charitable and other organizations in New York City offer a wide variety of tools and resources for older adults and other vulnerable populations, such as people with disabilities. For more information about these programs, see Section 5, Resources, page 100.

An acute change in mental status is a medical emergency
Acute mental status changes in people without a history of psychiatric disease are almost always due to a medical condition or an acute neurological syndrome, and not to psychiatric disease. Because it is urgent to diagnose and treat such patients, clinicians need information about the patient’s baseline cognitive function, information which may not be available in a disaster. Therefore, it is important for providers to recognize the great variability in cognitive function in the older population and to avoid making assumptions that cognitively impaired patients have dementia.

Although dementia is very common by age 85 years,⁴ and afflicts as many as 70% of nursing home residents,⁵ most community-dwelling people over 65 years of age are cognitively intact and able to live independently. However, many independently living may have “mild cognitive impairment,”⁶ a lesser form of cognitive dysfunction which may foreshadow dementia, or may have subclinical dementia without any apparent cognitive deficits. Such individuals, like those with dementia, are at enhanced risk of developing acute mental status changes from a large variety of insults, many of which are potentially reversible, especially if treated promptly (see Section 3, Clinical Care of Acutely Ill Elderly Patients, page 42).

Older adults may develop psychiatric disease for the first time late in life and presentations may evade accurate diagnosis
In contrast to the neurological syndrome of dementia, most chronic psychiatric illnesses develop before age 60 years, but when psychiatric disease first appears later in life, it may have an “atypical” presentation. The most common mental health problems in older adults are anxiety and mood disorders, especially clinical depression.⁷ Severe symptoms of depression in elderly people usually occur in those with a history of clinical depression, whereas depressive symptoms beginning later in life are generally less severe or are masked by somatic complaints.⁸⁻¹⁰ These symptoms, which often develop as a result of personal loss, are commonly overlooked, but still require close attention.

Features of schizophrenia likewise tend to differ when onset is after age 60 years, but this late onset schizophrenia is uncommon.¹¹⁻¹² Regardless of age of onset, symptoms may evolve as patients age; for example, patients may gradually demonstrate fewer “positive” symptoms like hallucinations and delusions, whereas “negative” symptoms like social
withdrawal, poor self-care and apathy, tend to predominate.

Finally, psychiatric symptoms such as delusions or hallucinations may occur in patients with Alzheimer’s disease, Lewy body dementia and dementia associated with Parkinson’s disease. The management of these symptoms differs in many ways from the management of psychotic symptoms in adults (especially the nonelderly) who have chronic psychiatric disease (see Section 5, Tool 5-3, Managing Agitation in Patients with Dementia or Delirium, page 91 and Tool 5-5, Features that Distinguish Psychiatric Diseases and Dementia in Elderly Patients, page 93).

Substance abuse and withdrawal is under-recognized in elderly individuals
Substance abuse is much less common in people older than age 70 years than among younger adults. However, misuse of substances, particularly alcohol, is under-recognized in older adults, especially when it begins late in life; in addition, disasters may increase the risk of renewed drinking among people with a history of alcohol misuse.

Hospital staff may overlook withdrawal syndromes related to alcohol or prescription medication. Patients regularly taking medications such as opioids, benzodiazepines or non-benzodiazepine hypnotics like zolpidem, may develop withdrawal syndromes if they cannot obtain their medications or if hospital personnel are not aware they are using these medications.

The risk of suicide increases with age and is especially high in older men
In the United States, suicide risk is particularly high among white and Native American men, and in all ethnic groups men have a substantially higher risk of suicide than women do. Suicide attempts also increase with age; the risk is higher among women than men in early adulthood and midlife, but the risk is as high or higher among men after age 60 years.

Studies show inconsistent findings about the suicide risk associated with disasters; however, one study during the Asian SARS epidemic showed an increased risk in older women, raising the possibility that disruptions in the social network or in access to health care could contribute. Clearly, vigilance is required, especially after hospital discharge.

**PLANNING GUIDELINES**

1. **Identify One or More Individuals with Expertise in Geriatric Mental Health to Participate in Disaster Planning**
   These individuals should also help provide psychiatric care and counseling to elderly adults with psychiatric symptoms and help educate staff who will provide mental health services during a disaster. Ideally, one of these individuals should be a geropsychiatrist with a Certificate of Added Qualifications in Geriatric Psychiatry from the American Board of Psychiatry and Neurology. The geropsychiatrist would work with professionals from other mental health disciplines to provide training and overall mental health preparedness for the institution and the community.
Psychiatric and related departments should identify professionals from other disciplines, such as psychology and social work, who have skills in geriatric counseling and training. Geropsychiatry fellows in training who have completed a residency in general psychiatry should also be considered to provide consultation and assist in training others.

2. Emergency Departments, Acute Care Wards and Other Areas Where Geriatric Care Will Take Place Should be Prepared to Call Upon Relevant Specialists in Geriatric Medicine or Nursing
Geriatric medicine specialists (geriatricians) and geriatric-trained advanced practice nurses, if available, should help care for patients who develop behavioral or psychiatric features of dementia, or acute mental status changes, such as delirium. These specialists should also supervise or help provide the complex medical care of frail elderly being treated for psychiatric diseases (see Section 3, Tool 3-1, When to Obtain Geriatric Medicine Consultation, page 44).

3. Encourage Outpatient Providers, Clinics and Emergency Departments to Continuously Identify High Risk Patients Before a Disaster, and Provide Them, Their Caregivers and Their Adult Children with Guidance and Literature on Disaster Preparedness
Hospitals should reach out to primary care providers and encourage them to provide guidance to their patients concerning disaster preparedness (see Section 5, Resources, page 100). In addition, providers should be encouraged to maintain phone or email contact with the adult children of vulnerable elderly (even those children who live far away) to promote preparedness.

4. Train and Prepare Appropriate Staff to Provide Psychological First Aid to Patients Arriving at the Hospital During, and Immediately After, a Disaster
Preparation and training should include methods of identifying and communicating with hearing, visually or cognitively impaired patients. Staff members should also be able to advise patients about resources, and refer them for mental health follow-up. Numerous resources and educational tools are provided below (see Section 5, Resources, page 100).

5. Hospitals Should Develop a Plan for Accommodating Families Who Are Distraught Over the Condition, Death or Disappearance of a Loved One
Hospitals should identify multidisciplinary staff, including psychologists, social workers, psychiatrists, clergy and others, to provide grief counseling and other forms of patient and caregiver emotional support (see Section 5, Resources, Grief and Loss, page 100). Hospitals should also devise methods for accommodating non-English-speaking patients and relatives through the use of staff translators, community volunteers and telephone translation services.

6. In Coordination with Volunteer Departments, Hospitals Should Continuously Identify and Credential Mental Health Professionals to Volunteer in Professional Roles During a Disaster
Hospitals should also operationalize existing requirements for credentialing professional volunteers during a disaster (see Section 6, Ethical and Legal Issues, page 105).
**Tool 5-1. Distinguishing Dementia from Delirium**

It is not unusual for clinicians to assume that elderly patients with abnormal mental status have dementia; this may result in failure to recognize delirium, which requires prompt medical attention. Providers should make efforts to ascertain the patient’s baseline mental status upon arrival and to be aware of the clinical features that differentiate dementia from delirium.

<table>
<thead>
<tr>
<th>Dementia</th>
<th>Delirium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hallmark: memory loss</td>
<td>Hallmark: inattention and alteration in the state of consciousness</td>
</tr>
<tr>
<td>Loss of memory and higher intellectual function impairing social or occupational function, or both</td>
<td>A change in cognition, which may include memory deficits, that cannot be accounted for by pre-existing or evolving dementia</td>
</tr>
<tr>
<td>Usually progresses over years</td>
<td>Usually develops over hours or days</td>
</tr>
<tr>
<td>Except for a drug-induced dementia-like syndrome, a reversible component is rarely found</td>
<td>Very often reversible</td>
</tr>
<tr>
<td>Acute deterioration of stable cognitive dysfunction function generally indicates delirium superimposed on dementia, and becomes a medical emergency</td>
<td>A medical emergency</td>
</tr>
</tbody>
</table>
Tools 5-2 and 5-3. Agitation
Elderly patients with dementia and delirium often become agitated, but agitation in the hospital is often treated inappropriately, leading to serious but avoidable medical complications. The best approach is to seek and treat the cause of agitation, avoid mechanical restraints, and to consider nonpharmacologic management. Pharmacologic treatment of agitation may be necessary, but requires very cautious dosing, especially in the frail elderly.

Tool 5-2. Causes of Agitation

- Delirium (see Section 3, Tool 3-5, Diagnosing and Managing Agitation in Hospitalized Patients who have Dementia or Delirium, page 48)
- Restraints
- Intrusive device
- Pain, dyspnea, or other physical symptoms
- Unfamiliar environment
- Someone the patient does not recognize attempts to feed, dress, or wash patient
- Fecal impaction
- Urinary retention (for reversible cause, see Tool 3-6 in Section 3, Clinical Care of Acutely Ill Elderly, on page XXX)
- Need for repositioning
- Need to get out of bed to urinate
- Sundown syndrome

Tool 5-3. Managing Agitation in Patients with Dementia or Delirium

- Seek and address the underlying cause of agitation
- Avoid intrusive devices, such as bladder catheters, nasogastric tubes and others, if possible
- Avoid mechanical restraints, if possible
- Camouflage essential devices, such as intravenous lines, by covering them securely with gauze or other materials
- Utilize interpersonal methods (reassurance, distraction, and conversation with family, friends, or volunteers) whenever possible
- When managing pharmacologically, use cautious, “geriatric-appropriate” doses (see Section 5, Tool 5-6, Appropriate Dosing of Common Psychiatric Medications for Frail Elderly, page 94)
- Avoid benzodiazepines, except if indicated in specific withdrawal syndromes (e.g. alcohol or benzodiazepines) or if antipsychotic medications are contraindicated
Diagnostic Difficulties: Depression

Depression is very common in older adults. Severe symptoms usually occur in those with a previous history of clinical depression, whereas symptoms that begin later in life tend to be less severe and may be masked by somatic complaints. Aspects of geriatric depression are summarized in Tool 5-4 immediately below.

### Tool 5-4. Features of Depression in the Elderly

- Patient may deny or fail to recognize depressive symptoms
- Patient may complain only of somatic symptoms
- Risk of suicide increases after age 60 years, especially in men
- Patient may not seek help from a mental health professional, including follow-up care when referred, because of:
  - Failure to recognize symptoms as depression
  - Stigma of depression as “mental illness”
  - Stigma of seeking psychiatric help
  - Failure of primary care provider to recognize and refer
  - Cost
- Features of antidepressant withdrawal syndrome:
  - Symptoms may include dizziness, gastrointestinal disturbance, or enhanced depression
  - Time to onset is unpredictable
  - Caused by inadequate adherence to medications or inability to access medications (such, as in a disaster)
**Diagnostic Difficulties: Distinguishing Psychiatric Disease from Dementia**

The high incidence of dementia in older populations complicates the diagnosis of other diseases that affect behavior and cognition. Depression, delirium or secondary features of dementia (such as delusions or hallucinations) may be superimposed on dementia, while in other cases, depression or delirium may be misdiagnosed as dementia.

Although there is some overlap in the management, it is important to distinguish chronic psychiatric disease from dementia so appropriate management can proceed. Common features of various syndromes as seen in elderly patients are summarized in **Tool 5-5**, immediately below.

<table>
<thead>
<tr>
<th>Chronic or Existing Syndrome</th>
<th>Manifestations</th>
<th>Comments</th>
</tr>
</thead>
</table>
| **Mild to Moderate Dementia** | Mild – memory loss  
Moderate – confusion; agitation, hallucinations and delusions may also occur | Rule out delirium; depression may coexist; “pleasant” hallucinations and delusions that are not disturbing to patient do not require medication unless they interfere with essential care |
| **Severe Dementia** | Complete inability to engage in self care; superimposed delirium often produces stupor or coma | Evaluate for underlying cause of agitation; rule out delirium if there has been an abrupt change in mental status; prior psychotic symptoms due to dementia may wane, eliminating need for antipsychotics |
| **Depression** | Depressed mood and/or loss of pleasure for at least 2 weeks, with or without physical or cognitive symptoms; coping mechanisms vary; severe depression may mimic dementia | Rule out antidepressant withdrawal syndrome (e.g., because of loss of access to medication) |
| **Anxiety Disorder** | Enhanced anxiety | Rule out benzodiazepine or other prescription drug withdrawal (e.g. because of loss of access to medication) |
| **Bipolar Disorder** | Depression or mania (mania could manifest as enthusiastic involvement in disaster-related work); rule out lack of access to mood-stabilizing medication | Upper acceptable therapeutic limit of serum-lithium levels is generally lower in elderly patients[^24] |
| **Chronic Schizophrenia** | Recurrence of illness; paranoia resulting in refusal of food, medications, or other care; hallucinations or delusions | “Pleasant” delusions or hallucinations do not require medication unless they interfere with essential care |

[^24]: Lithium levels in elderly patients are generally lower compared to younger patients to avoid toxicity.
### Chronic or Existing Syndrome

#### Alcoholism
Withdrawal syndrome resulting from lack of access to alcohol; intoxication because of binge drinking; there is a risk of increased use during or following a disaster, especially in individuals with a history of alcohol misuse.

Treatment with benzodiazepines requires frequent re-evaluation to avoid oversedation; lorazepam (Ativan) is preferable to chlordiazepoxide (Librium).

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**Management: Psychiatric Medications in the Elderly**

Adverse drug reactions occur at a higher rate among the elderly compared with all other age groups. Psychiatric drugs frequently cause over-sedation, confusion and falls, and must be prescribed very conservatively in the elderly, especially those with underlying dementia, gait disorders, or a tendency to fall.

When pharmacologic management is needed, cautious dosing is essential; dosing guidelines are summarized in **Tool 5-6**, immediately below.

---

**Tool 5-6. Appropriate Dosing of Common Psychiatric Medications for Frail Elderly**

<table>
<thead>
<tr>
<th>Antipsychotic Drugs for Secondary Symptoms * of Dementia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medication</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>Risperidone (Risperdal®)</td>
</tr>
<tr>
<td>Olanzapine (Zyprexa®)</td>
</tr>
<tr>
<td>Quetiapine (Seroquel®)</td>
</tr>
<tr>
<td>Haloperidol (Haldol®)</td>
</tr>
<tr>
<td>Clozapine (Clozaril®)</td>
</tr>
</tbody>
</table>
### Antipsychotic Drugs for Secondary Symptoms * of Dementia (Cont’d)

<table>
<thead>
<tr>
<th>Drug</th>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Selective Serotonin Reuptake Inhibitors (SSRIs)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Sertraline (Zoloft®)</td>
<td>50-100 mg</td>
<td></td>
<td>Most forms of unipolar depression</td>
<td>Generally well-tolerated in elderly individuals</td>
</tr>
<tr>
<td>· Escitalopram (Lexapro®)</td>
<td>10 mg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Citalopram (Celexa®)</td>
<td>20 mg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bupropion (Wellbutrin®)</td>
<td>100-150 mg per day in extended-release form</td>
<td>Activating; good for patient with prominent vegetative symptoms or those quitting smoking</td>
<td>Generally well-tolerated in elderly; may cause insomnia</td>
<td></td>
</tr>
<tr>
<td>Mirtazapine (Remeron®)</td>
<td>15-30 mg</td>
<td>Sedating; good choice for patients with agitated depression, insomnia, or anorexia</td>
<td>Avoid over-sedation</td>
<td></td>
</tr>
</tbody>
</table>

*The term “secondary symptoms” refers to behavioral problems, agitation, delusions, and hallucinations**Doses often lower in frail elderly, especially those 85 and older.

**Note:** Use of antipsychotics in dementia, though “off-label” (not an FDA-approved indication), is common and widely accepted within the medical community, although evidence does not uniformly support its efficacy. Because of the possible increased risk of adverse outcomes, including stroke and cardiac problems for some of the above medications, caution has been recommended. Cautious dosing, liberal use of nonpharmacologic management, and attention to cerebrovascular and cardiovascular risk factors (such as hypertension, atrial fibrillation, and others), would be expected to minimize adverse outcomes. As an alternative for management of agitation, antidepressant trazodone (starting dose ≤ 25 mg) may be effective.

For further reading on management of dementia, visit [http://www.aagponline.org/prof/position_caredmnalz.asp](http://www.aagponline.org/prof/position_caredmnalz.asp)

For nonpharmacologic approaches to treatment of agitation, see Section 5, Tool 5-3, Managing Agitation in Patients with Dementia or Delirium, page 91.
## Antipsychotic Drugs for Secondary Symptoms * of Dementia (Cont’d)

<table>
<thead>
<tr>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
<th>Average Daily Maintenance Dose **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norepinephrine and Serotonin Reuptake Inhibitors (NSRIs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Venlafaxine (Effexor®)</td>
<td>150 mg in extended-release form</td>
<td>Second line; use if patient has poor response to other agents or if concurrent treatment of neuropathic pain needed</td>
<td>Generally well-tolerated in elderly; may raise blood pressure in high doses</td>
</tr>
<tr>
<td>· Duloxetine (Cymbalta®)</td>
<td>60 mg</td>
<td></td>
<td></td>
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<tr>
<td>Psychostimulants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>· Methylphenidate (Ritalin®)</td>
<td>5 mg once or twice a day</td>
<td>Useful for apathetic patients, especially if rapid effect desired</td>
<td>May cause anorexia or insomnia; best given early in the day</td>
</tr>
<tr>
<td>· Dextroamphetamine</td>
<td>2.5-5 mg once or twice a day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tricyclic antidepressants (TCAs)</td>
<td>Generally should avoid in elderly** because of problematic anticholinergic side effects and cardiac-conduction abnormalities; nortriptyline and desipramine (starting doses ≤10-25 mg) have less prominent anticholinergic action within TCA group and are preferred if non-TCA is ineffective or cannot be used</td>
<td>May precipitate or worsen dementia; may cause urinary retention, especially in older men; contraindicated in narrow-angle glaucoma</td>
<td></td>
</tr>
</tbody>
</table>

*Starting doses are lower, and smaller, maintenance doses are often effective.  
**A patient who has been taking a tricyclic antidepressant but cannot obtain it in an emergency could be started on SSRI, NSRI, or bupropion, if appropriate.
Tool 5-7. Pre-Disaster Planning: The GeriGoBag

Elderly patients should be encouraged to prepare a carrier in which to carry vital medications, personal items, and basic personal and medical information. The GeriGoBag should be an attachable waist or fanny pack, and have a Velcro or buckle attachment strap to affix to the person, wheelchair or bed to ensure secure transfer of these items to and from the hospital, and during hospitalization. The bag should be kept in an easy-to-remember and accessible location at home in case of emergency.

<table>
<thead>
<tr>
<th>Tool 5-7. Pre-Disaster Planning: The GeriGoBag</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Waist or fanny bag with buckle or Velcro strap attached to person’s waist, wheelchair, or hospital bed to ensure transfer of contents during transport and hospitalization</td>
</tr>
<tr>
<td>• Needed small equipment</td>
</tr>
<tr>
<td>• Minimum 4-day supply of regular medications, labeled to identify individual pills</td>
</tr>
<tr>
<td>• Maximum 1-page medical history (possibly on index card) that includes:</td>
</tr>
<tr>
<td>o Description of baseline mental and physical status</td>
</tr>
<tr>
<td>o Conditions for which currently under treatment</td>
</tr>
<tr>
<td>o Pertinent past illnesses</td>
</tr>
<tr>
<td>o List of current medications and doses</td>
</tr>
<tr>
<td>• Personal identification, including:</td>
</tr>
<tr>
<td>o Name, address, phone number</td>
</tr>
<tr>
<td>o Copy of insurance card(s)</td>
</tr>
<tr>
<td>o Contact information for physicians(s), pharmacy, local and distant family or caregiver(s)</td>
</tr>
<tr>
<td>o Copy of advance directive (proxy or living will)</td>
</tr>
<tr>
<td>o Copy of non-hospital do-not-resuscitate order if pertinent and other pertinent information if the patient is cognitively impaired</td>
</tr>
<tr>
<td>• Hearing aid and extra batteries</td>
</tr>
<tr>
<td>• Extra dentures or denture case</td>
</tr>
<tr>
<td>• Extra eyeglasses with eyeglass chain or lanyard in a hard eyeglass case</td>
</tr>
<tr>
<td>• A pair of warm socks</td>
</tr>
<tr>
<td>• Face mask</td>
</tr>
</tbody>
</table>
REFERENCES


**RESOURCES**

**COURSES**

**The Consortium of New York Geriatric Education Centers**
**Geriatric Emergency Preparedness Certificate Program**

This is a 40-hour course available in a flexible, staggered schedule in several New York City and other New York State locations. It is designed for health professionals of all disciplines and taught by multidisciplinary faculty. It includes substantial coverage of mental health issues.

http://www.nygenc.org

**GENERAL TEACHING TOOLS IN DISASTER PSYCHIATRY AND MENTAL HEALTH**

**New York City Department of Health and Mental Hygiene**
**Mental Health Disaster Preparedness**

Set of fact sheets prepared by the New York City Department of Health and Mental Hygiene and designed to assist providers and others in dealing with mental health issues that arise during and immediately after a disaster. Topics include information for disaster responders, post traumatic stress disorder (PTSD), seeking help after exposure to a traumatic event, and providing psychological first aid.


Other fact sheets available at:

**GRIEF AND LOSS RESOURCES**

**American Association of Retired Persons (AARP)**

This organization offers print publications on grief and loss, and maintains a message board and other online resources.

http://www.aarp.org/families/grief_loss/

AARP’s Widowed Persons Service Programs

**Draft for Comment**

New York City Department of Health and Mental Hygiene
These programs offer one-on-one support to the newly widowed provided by trained peer volunteers. Information on local chapters available at:

Widowed Persons Service
AARP
601 E Street, N.W.
Washington, D.C. 20049
Telephone: 1-202-434-2260

CRISES HOTLINES FOR PATIENTS AND CAREGIVERS

Mental Health Association of New York City and the New York City Department of Health and Mental Hygiene
1-800-LIFENET (1 800 543-3638)
This is a 24/7 helpline for people dealing with a crisis, operated by the Mental Health Association of New York City and the New York City Department of Health and Mental Hygiene. The helpline is staffed by mental health professionals and linked with mobile crisis teams. Also available in Spanish (1-877-AYUDESE; 1-877-298 3373) and Chinese and Korean dialects (1-877 990 8585).

National Suicide Prevention Lifeline
Telephone: 1-800-273 TALK (1-800-273-8255)

Alzheimer’s Association
Professionals provide 24/7 phone consultation and referral for crisis assistance for patients with Alzheimer’s disease and other dementias Multilingual service is available. Tel. (800) 272-3900
www.alz.org/index.asp
Organization also administers MedicAlert + Safe Return program, which provides access to medical information while assisting in reuniting people with dementia who have wandered from home to reunite with family or other caregivers.
www.alz.org/we_can_help_medicalert_safereturn.asp

GERIATRICS DISASTER MENTAL HEALTH RESOURCES FOR PROFESSIONALS

Substance Abuse and Mental Health Services Administration (SAMHSA)
Psychosocial Issues for Older Adults in Disasters.
Online and print manual with guidance for service providers and others on the appropriate response to the needs of older adults during a disaster.

Medical Reserve Corps, National Child Traumatic Stress Network and National Center for PTSD
Psychological First Aid: Field Operations Guide
This online manual offers comprehensive guidance on the use of psychological support for patients of all ages, families, caregivers and disaster- relief workers.
www.medicalreservecorps.gov/File/MRC_Resources/MRC_PFA.doc

Disaster Psychiatry Outreach Downloads

Draft for Comment
New York City Department of Health and Mental Hygiene
Numerous training tools from Disaster Psychiatry Outreach, a professional organization of psychiatrists devoted to mental health care in a disasters.

http://sites.google.com/a/disasterpsych.org/blog/File-Cabinet

**Consortium for Risk and Crisis Communication and New York City Department of Health and Mental Hygiene**  
**Communicating in a Health Emergency: Crisis Communications Guide**  
Booklet to assist professionals and trainees communicate with patients, family members, fellow employees and the community during a disaster.


**American Psychiatric Association, Committee on Psychiatric Dimensions of Disaster**  
**Disaster Psychiatry Handbook**  
http://www.psych.org/disasterpsych/pdfs/apadisasterhandbk.pdf

**New York Disaster Interfaith Services (NYDIS)**  
**Manual for New York City Religious Leaders: Spiritual Care and Mental Health for Disaster Response and Recovery**  
This manual provides guidance for spiritual-care leaders and their roles during a disaster as well as available resources on providing support for their congregations and the community.

www.nydis.org/resources/headlines/2007_09_24.php#Chapters

**Disaster Preparedness Resources for Seniors, Their Adult Children and Other Caregivers**

**New York City Department for the Aging and the Office of Emergency Management**  
**Ready New York**  
This consumer-friendly, pamphlet helps the general public prepare for disasters. Also available in Spanish, Russian, and Chinese.

To obtain audiotape version, call 311 (in New York City only)

**American Red Cross**  
**Disaster Preparedness for Seniors by Seniors**  
**Personal Emergency Preparedness Checklist for People with Disabilities**  
Concise sets of recommendations with checklists.

http://www.redcross.org/services/disaster/beprepared/seniors.html  
http://www.redcross.org/services/disaster/beprepared/checklist.html

**Centers for Disease Control and Prevention**  
**Be Informed: Maintain a Healthy State of Mind**  
For seniors:

http://www.bt.cdc.gov/preparedness/mind/seniors/  
For other Adults:

http://www.bt.cdc.gov/preparedness/mind/adults/
National Institute on Aging,
Getting your Affairs in Order
Brochure with useful information, list of resources, and links.
www.nia.nih.gov/HealthInformation/Publications/affairs.htm

EMERGENCY PET PREPAREDNESS BROCHURES AND GUIDANCE

New York City Office of Emergency Management
Ready New York for Pets
Downloadable brochure providing guidance on emergency pet preparedness.
Tel 311 (in New York City)
(212) 504-4115 (outside New York City)

American Red Cross of Greater New York
Disaster Safety Guide for Pets
Evacuation guidelines and other useful information helpful during and after a disaster.
Tel. (877) REDCROSS

PROFESSIONAL AND NONPROFIT ORGANIZATIONS

American Association for Geriatric Psychiatry
Professional association of geropsychiatrists, includes useful links.
www.aagponline.org

Disaster Psychiatry Outreach
Provides education and training in disaster mental health to professionals and health care
organizations and maintains a data base of psychiatrists certified in disaster psychiatry
who are able to train others and to volunteer during disasters.

Geriatric Mental Health Foundation.
Established by American Association for Geriatric Psychiatry; includes online search tool
to locate member practicing geriatric psychiatrists

NY Disaster Interfaith Services (NYDIS)
Faith-based coalition of charitable organizations and service providers that offers
education, training, advocacy, and programs focused on disaster preparedness, response
and recovery.
www.nydis.org

Disaster Chaplaincy Services
Non-sectarian organization that recruits, screens and trains chaplains to participate in
interdisciplinary care during disasters in New York City and the tri-state region.
www.disasterchaplaincy.org

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New York City Department of Health and Mental Hygiene
Health Care Chaplaincy
This multifaith organization is devoted to education, research and clinical chaplaincy services, as well as consultation for organizations in developing or enhancing pastoral-care programs.
www.healthcarechaplaincy.org
Tel. (212) 644-1111

Reusable Hearing Aids

Various models of pocket hearing aids can be purchased online from $20 to more than $200. These products consist of a pocket size microphone connected to earphones to be used while interviewing or examining a severely hearing impaired patient who does not have a hearing aid.
SECTION 6. ETHICAL AND LEGAL ISSUES

PURPOSE

This section provides ethical and legal guidance for hospital administrators, clinical departments, clinicians, ethics committees, attorneys and other professionals in addressing and resolving ethical dilemmas during disasters. Certain sections are specifically geared toward issues about elderly inpatients and others apply to adult patients of any age.

BACKGROUND

The Ethical Duty to Plan
Just as effective emergency response requires forethought and careful planning, ethical issues must be discussed and planned for before a disaster strikes. Health care providers and communities may be forced to confront many ethical dilemmas in a disaster, such as allocation of scarce resources and the accompanying life and death decisions, loss of personal autonomy, and providers’ reluctance to work in the face of personal risk.

Resolving ethical dilemmas is an ongoing and, at times, contentious process. Although there are no “right answers” to many ethical questions, discussions should center on arriving at a reasonable consensus. The duty to plan for a disaster, therefore, encompasses more than organizing resources, supplies and infrastructure—it also requires finding appropriate ways to deal with ethical dilemmas in advance.

Limited Resources, Age Discrimination, and the Need to Individualize Care
Although few commentators have suggested that age might sometimes be an appropriate criterion for allocating medical resources, informal age discrimination most likely occurs in the clinical setting. Resources such as medications, technical tools and staff may all be scarce during a disaster, intensifying a tendency to discriminate against older patients.

Chronological age is a poor indicator of biological wellness. Many very old people are fit and live successfully on their own, and many younger individuals have serious illnesses or disabilities. Providers must therefore make individualized decisions about how to provide care to each person. Clinical approaches to evaluating elderly patients are discussed in detail in Section 3, Clinical Care of Acutely Ill Elderly Patients, page 42.

Understanding New York State Laws Governing Life-Sustaining Treatment
Many elderly people lack decisional capacity, the ability to weigh the risks versus the benefits of treatments, and make decisions about them. In such cases, providers can honor patients’ wishes by following advance directives (verbal or written instructions that patients have given in advance of losing decisional capacity).

In cases of whether or not to initiate cardiopulmonary resuscitation (CPR), New York State law specifies a hierarchy of surrogate decision-makers who can authorize an order not to resuscitate on behalf of an incapacitated patient; however, the law sets stringent
standards for refusal of other life-sustaining treatments, such as ventilators or feeding tubes. Unfortunately, some institutions have established policies that are even more stringent than the law, for example, requiring written evidence of a patient’s wishes, which, though desirable, is not required under New York State law.5

During a disaster, when scarce resources could create serious ethical dilemmas, there may be circumstances when autonomous decision making will be severely limited, even for patients who have capacity, so at a minimum the law needs to be correctly interpreted. When patients cannot obtain (or refuse) treatments, alternatives to unavailable resources should be sought and offered (see Section 7, Palliative Care, page 119).

**Basing Decisions on Sound Diagnoses**  
Triage, resource allocation and ethical decision-making rely on making an accurate diagnosis. Many diseases present atypically in the elderly,6 and misdiagnosis may occur (see Section 3, Clinical Care of Acutely Ill Elderly Patients, page 42). Furthermore, although advanced age worsens prognoses for many serious diseases and conditions,7-9 in other circumstances comorbidities rather than age determine outcome.10 In cases of emergency surgery, mortality is often higher in the elderly because of delay in diagnosis rather than the surgery itself.9

**Uncertainties about Prognosis: Late-Stage Dementia as a Paradigm**  
Dementia is a major cause of death in people over 75 and, although the average life expectancy of elderly patients with severe dementia is 6 months or less,11-12 many clinicians do not perceive this disease as terminal, and fail to recommend palliative or hospice care for such patients. This is of particular relevance in a disaster setting if individuals with late-stage dementia from the community or from nursing homes present to hospital emergency departments.

Current standards for ventilator allocation take into account serious and end-stage illnesses.13-14 The New York State Task Force on Life and the Law has set forth specific medical exclusion criteria for ventilator use, which include, among other things, severe, irreversible neurologic conditions with high expected mortality14 (see Section 1, Tool 1-4, New York State Task Force on Life and the Law Draft Guidelines: Modified Exclusion Criteria for Ventilator Acces, page 25). According to standard diagnostic criteria, advanced and end-stage dementia would fall under that criterion, as discussed elsewhere in this document (see Section 7, Tool 7-3, Dementia Stage and Failure to Eat, page 127).

Because prognosis is never an exact science, health professionals must be prepared to make medical recommendations in the midst of uncertainty, and be able to help families and other loved ones in dealing with death.

**Ethical Dilemmas in Withdrawing Ventilator Support**  
According to the New York State Task Force draft guidelines on ventilator allocation, patients who fail to meet rationing criteria could be taken off ventilators. The Guidelines therefore emphasize the need for transparency and flexibility, given the serious concerns that such withdrawal raises among families, health care providers and others.14

Withdrawing life-sustaining treatment is subject to the same legal standards as

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withholding it, and there is a general consensus among ethicists that the two actions are morally indistinguishable (i.e., are subject to the same ethical standards, such as taking into consideration a patient’s current or previously expressed wishes). Other ethical concerns are bound to be raised if providers were faced with the dilemma during a disaster of having to remove a ventilator from one person to provide it for another.

These and other issues are not easy to resolve, but they highlight the need for hospitals and their staffs to discuss such dilemmas before a disaster occurs. The medical aspects of ventilator withdrawal are discussed in Section 7, Palliative Care, page 119.

**The Role of Palliative Care**

When decisions are made to withhold or withdraw life-sustaining treatment, patients must be kept as comfortable as possible. Palliative care involves active management to relieve physical and psychological suffering, and is not intended to hasten death. Palliative care is an adjunct, and not an alternative to, medical care; therefore, medical care and palliative care are not mutually exclusive, even in the intensive care unit. Guidelines for palliative care during a disaster are described in Section 7, Palliative Care, page 119.

**Maximizing Personnel by Use of Volunteers**

Health care providers, especially those experienced in providing geriatric care, may be in short supply during a disaster and may not be available—risks posed by a deadly epidemic or other disaster might be met with a less enthusiastic response than that demonstrated by clinicians during the September 11, 2001 terrorist attacks, the NYC blackout, and Hurricane Katrina.

Fear of becoming ill; the need to care for a child, elderly, or sick family member; or the inability to report to work because of illness or disruptions in transportation might also reduce staff (all of which have been cited as concerns by health care workers in NYC). In times of staff shortages, volunteers may be and can serve as an important source of help.

Specific programs exist in New York that would augment staff in a disaster, including the NYC Medical Reserve Corps (MRC) and the New York State Health Emergency Volunteer Program (see Section 6, Resources, page 115). Other government and private entities may also be able to supply volunteers during such a time.

Of particular concern to geriatric care is the need to augment basic care, which could be provided by non-clinical volunteers. Unfortunately, current hospital policies about what volunteers are allowed to do may be overly restrictive when it comes to an extraordinary situation (for example, many hospitals do not permit non-clinical volunteers, even under ordinary circumstances, to provide direct, though basic, patient services such as feeding, cleaning).

The disaster privileging standards of the Joint Commission (formerly, the Joint Commission on Accreditation of Healthcare Organizations) delineate a rapid procedure for granting disaster privileges to clinical providers who are unaffiliated with the host

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hospital, specifically, those providers who are required by law or regulation to have a license, certification, or registration. Credentialing for other kinds of volunteers would be covered by existing, non-emergency standards, a more time-consuming process that is best completed before an emergency.

**Liability Concerns during a Disaster**

**Liability for negligence (malpractice).** Health care providers are likely to have concerns about liability when dealing with shortages in equipment, personnel and other vital resources during a disaster. These concerns may become exacerbated when managing patients who might have high death rates, such as the elderly, or when providing treatment in unfamiliar clinical situations, or performing procedures not typical for the provider.

Liability protection for volunteers exists in local programs administered by the government, as well as under certain federal and interstate initiatives, such as the Emergency Management Assistance Compact. Legal guidance regarding liability protection is available for hospitals, as delineated in the Resources (see Section 6, Resources, New York City Department of Health and Mental Hygiene, Legal Issues and Hospital Response during a Disaster, page 115 and Greater New York Hospital Association, Using Volunteers during a Disaster, page 115).

**Criminal liability and standards of care in extraordinary situations.** In addition to concerns about routine medical malpractice, providers may worry about the risk of more serious liability, including criminal liability (for example, the case after Hurricane Katrina involving a physician who risked her life to save patients yet was charged with homicide.) Most states that provide liability protection in a disaster specifically exempt “gross negligence” or “criminal misconduct” from protection. Such exceptions also exist under certain circumstances in New York State, for example, under liability protection for volunteers who have been deployed by the NYC Medical Reserve Corps or NY State Health Emergency Volunteer Program.

A grand jury declined to indict the New Orleans physician in her actions of providing sedation to ventilator-dependent patients and found insufficient evidence to support the charges. The situation, however, not only raised health care providers’ concerns but also raises the question of whether normal care standards of care should apply in a disaster.

Although liability and immunity are legal issues, the Joint Commission standards for emergency management recognize the range of extraordinary circumstances that confront health care providers during disasters. While guidelines do not lower the standard of care during these events, they account for the possibility that a stand-alone hospital might not be able to provide sufficient resources in a disaster. The Commission requires hospitals to plan to function independently for 96 hours (while not specifically requiring a 96-hour stockpile of supplies) and to include procedures such as “maintaining or expanding services, conserving resources, curtailing services, supplementing resources from outside the local community, closing the hospital to new patients, [and] staged [or] total
evacuation.” Thus, in extraordinary circumstances, responsibilities for care would shift from the hospital alone to the population at large.

The Health Insurance Portability and Accountability Act (HIPAA) Privacy Rule
Health care providers responding to disasters may also be concerned about the difficulty of maintaining the privacy requirements stipulated by HIPAA. In a disaster, it may be impossible or impractical to obtain permission to share private, legally-protected health information. Even under normal circumstances, providers often misunderstand and hospitals often have overly-stringent interpretations of HIPAA regulations.

Although HIPAA guidelines are intended to apply during a disaster, exceptions to the privacy rule exist and may be applicable under many, if not most, circumstances arising during a public health emergency. The U.S. Department of Health and Human Services Office for Civil Rights has provided guidance for HIPAA’s use in both emergency preparedness and during disasters or other emergencies. Guidelines for application of HIPAA in a disaster are covered in the Resources below, in this Section on page XXX.

Planning Guidelines

1. Prepare to Operationalize Proposed New York State Life and the Law Proposed Guidelines on Ventilator Allocation
Hospital administrators, clinicians, ethics committees, attorneys and other professionals should become familiar with and plan to use these guidelines, which are in draft form and available for comment. The document covers issues such as the appointment and responsibilities of triage officers, documentation of triage decisions, exclusion criteria for ventilators, and other relevant issues. The document also includes rationale and commentary (see Section 1, Tool 1-4, New York State Task Force on Life and the Law Draft Guidelines: Modified Exclusion Criteria for Ventilator Access, page 25).

2. Provide Regular and Up-to-Date Trainings
Administrators, health care providers, attorneys and related personnel should receive training on ethical issues and legal guidelines surrounding public health emergencies. Numerous training resources are available (see Section 6, Resources, page 115). Hospital ethics committees and other institutional or outside sources of expertise can also be tapped for training, which should address the following issues:

- State laws on medical decision-making, including the use of oral and written advance directives, decision making by authorized surrogates, and how to make decisions for patients whose wishes are unknown
- Correct application of Do-Not- Resuscitate (DNR) orders, including non-hospital DNR orders created before the patient presents at the hospital
- Legal protections for hospital personnel who provide care in a disaster
- Legal standards for the use and deployment of volunteers in a disaster
- Application of the Health Insurance Portability and Accountability Act (HIPAA) privacy rule in disasters

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New York City Department of Health and Mental Hygiene
Clinical determination of a patient’s ability to make health care decisions (see Section 6, Tool 6-1, Determining a Patient’s Decisional Capacity, page 111).

Promotion of palliative care as a proactive adjunct to medical care

Palliative care in a range of life-threatening and terminal diseases, including advanced dementia

3. Consider Using Non-Clinical Volunteers to Augment Staff
In addition to enacting disaster-privileging standards for outside clinicians as volunteers (see Section 6, Resources, Using Volunteers and Sharing Personnel, page 115), hospitals should also consider the use of non-clinical volunteers, especially those who reside in the nearby community, or nonclinical hospital staff, to assist professional staff during a disaster. Such individuals should be identified, prescreened and trained on an ongoing basis, before a disaster strikes.

4. Identify Palliative Care Expertise within the Institution
Hospitals should include one or more clinicians from this field with expertise in palliative care on their Emergency Preparedness Committees (see Section 7, Palliative Care, page 119).
TOOLS

Tool 6-1. Determining Decisional Capacity
Patients who lack the capacity to make health care decisions must rely on others to make decisions for them. Sometimes capacity or lack of capacity is obvious but in many cases it is not. It is up to the clinician to determine that a patient lacks capacity before allowing another person to decide, or to utilize information that the patient provided in an advance directive.

TOOL 6-1. Determining a Patient’s Decisional Capacity

Protocol: Determine, by interview, whether the patient:

- Understands the risks, benefits, alternatives and outcomes of the proposed intervention AND
- Can make a reasoned decision AND
- Can communicate a stable decision

Understand that Decisional Capacity:

- **Is not** specific to the disease
- **Is not** determined by scores on mental status tests
- **Is not** determined in a court of law
- **Is** specific to the decision at hand
- **Is** specific to the patient
- **Is** a clinical determination by a physician
- **May be** preserved in the early stages of dementia

Be aware of the following when obtaining informed consent:

- Information provided to the patient must be accurate
- Information provided to the patient must be understandable
- Patient quirkiness does not mean incapacity
- Patients may communicate verbally, in writing or by any other reasonable methods (e.g. sign language, letter-by-letter communication)
- Consultation by an experienced psychiatrist is recommended in patients with depression or schizophrenia
REFERENCES


25. N.Y. GEN. MUN. § 50-k-3, available at: 

26. N.Y. Pub Off § 17, available at: 

Draft for Comment
New York City Department of Health and Mental Hygiene


RESOURCES

GENERAL LEGAL GUIDANCE

NEW YORK CITY DEPARTMENT OF HEALTH AND MENTAL HYGIENE
Legal Issues and Hospital Response during a Disaster
This document covers issues such as the Emergency Medical treatment and Active Labor Act (EMTALA), credentialing and immunity from liability for local and out-of-state volunteers, moving patients to alternate care sites, and related concerns.

USING VOLUNTEERS AND SHARING PERSONNEL

THE JOINT COMMISSION
Hospital Accreditation Requirements- 2009 Emergency Management Standards Standards Governing Volunteer Practitioners
Information for volunteer licensed independent practitioners, and volunteer practitioners who are not independent practitioners but who are required by law and regulation to have a license, certification or registration.

GREATER NEW YORK HOSPITAL ASSOCIATION
Using Volunteers during a Disaster
Greater New York Hospital Association, in coordination with its Emergency Preparedness Coordination Council, prepared these 2004 guidelines for New York hospitals, which covers privileging and use of unaffiliated clinical providers, as well as use of non-clinical volunteers.
www.gnyha.org/203/Default.aspx

Model Memorandum of Understanding on Sharing of Personnel in a Disaster
Greater New York Hospital Association, 2004; based on model for reciprocal use of staff that has been employed in other jurisdictions. See especially Section 5: Health care planning and emergency response, Appendix 5C, pp164-5.

NEW YORK CITY MEDICAL RESERVE CORPS
One of approximately 800 local volunteer programs in the country developed under a federal initiative. MRC registers, credentials, trains and is prepared to mobilize health professionals from various disciplines during a health emergency or other disaster with widespread health consequences.

NEW YORK STATE DEPARTMENT OF HEALTH
Health Emergency Volunteer Program
Statewide program that enlists licensed volunteer health professionals for deployment in an emergency in volunteers’ communities or elsewhere. All volunteers’ information

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resides in a secure Public Health Preparedness Volunteer Practitioner Data Base, developed collaboratively with a broad range of partners, including the Medical Society of the State of New York, the New York State Nurses Association and the Health Department.

Registration (if volunteer has no Health Provider Network [HPN] account):
https://commerce.health.state.ny.us/pub
If volunteer has an HPN account:
https://commerce.health.state.ny.us/hpn/cgi-bin/applinks/mpvols/VolunteerQuestionnaire

ADVANCE DIRECTIVES AND NONHOSPITAL DNR: FORMS AND GUIDANCE

Health Care Proxy
Downloadable New York State health care proxy form with explanations of its use. (Living will forms are not available on this website because there is no statutory living will in NY State; however, they are available and may be used to delineate treatment preferences (see Section 6, Resources, Caring Connections, page 116 - below).
www.health.state.ny.us/professionals/patients/health_care_proxy/intro.htm

Non-hospital Don-Not-Resuscitate Form
Downloadable, legally approved 1-page New York State non-hospital form, which differs from alternate, multi-page legally approved Medical Orders for Life Sustaining Treatment (see Section 6, Resources, “Dear CEO” Letter, page 116 - immediately below)
www.health.state.ny.us/forms/doh-3474.pdf

Dear CEO” Letter
This document explains the difference between the official, one-page New York State non-hospital Do-Not-Resuscitate (DNR) form and the alternative, multi-page Medical Orders for Life Sustaining Treatment (MOLST) form, both legally approved for use in New York State.

The non-hospital DNR form is used to authorize refusal of CPR and is one page long. The more complex MOLST form leaves room for patient preferences about life-sustaining treatments in addition to directives about CPR.
www.health.state.ny.us/professionals/nursing_home_administrator/docs/dcl_molst.pdf

Concise, downloadable pamphlet explaining DNR in various settings, including at home.
www.health.state.ny.us/publications/1441.pdf

CARING CONNECTIONS

Advance Care Planning Packet (Health Care Proxy and Living Will)
Program offered by National Hospice and Palliative Care Organization, provides state-specific, downloadable health care proxy and living will forms with instructions. The living will form is useful for New Yorkers who do not have an appropriate person to appoint as a health care agent (proxy), or who would like to augment their proxy appointment with a living will. Living will forms are not available from the New York
State Department of Health because there is no statutory living will in New York.


**MONTEFIORRE MEDICAL CENTER/ALBERT EINSTEIN COLLEGE OF MEDICINE,**
**Making Health Care Decisions for Others: A Guide to Being a Health Care Proxy or Surrogate**
To order 15-page booklet, contact Leslie Carrington:
lcarring@montefiore.org
Tel. (718) 920-7428

**THE HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT (HIPAA)**
**PRIVACY RULE.**
**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES**
**Dear Healthcare Provider**
Guidance on the applicability of HIPAA privacy rule but not specifically geared to disasters. www.hhs.gov/ocr/Healthcare-Provider-letter.pdf

**Can health care information be shared in a severe disaster?**
Information on how covered entities (providers and health plans) can share patient information during a disaster. www.hhs.gov/hipaafaq/permitted/emergency/960.html

**HIPAA Privacy Rule—Disclosures for Emergency Preparedness – a Decision Tool**
Office for Civil Rights online tool to help hospitals and providers apply the HIPAA privacy rule during a disaster. www.hhs.gov/ocr/hipaa/decisiontool/

**ETHICAL GUIDELINES, COMMENTARY, AND EDUCATION**

**Task Force on Life and the Law Workgroup on Ventilator Allocation in an Influenza Pandemic: Planning Document**
This document provides rationale and non-age-based guidelines for allocating ventilators when resources are limited and recommends that facilities appoint triage officers (working independently from treating physicians) to oversee ventilator allocation. The triage officers are to use explicit criteria set forth in the guidance document to make such decisions.

**Hastings Center**
**Bioethics Backgrounder: Ethical decision-making during an influenza pandemic**

**Ontario Health Plan for an Influenza Pandemic (OHPIP)**

**Montefiore Medical Center/Albert Einstein College of Medicine**
**Certificate Program in Bioethics and Medical Humanities**

**Draft for Comment**
**New York City Department of Health and Mental Hygiene**
SECTION 7. PALLIATIVE CARE

PURPOSE

The purpose of this section is to provide guidance to hospitals about the goals and application of palliative care during disasters, with a particular focus on the principles of palliative care in elderly patients.

BACKGROUND

Palliative care, sometimes called “comfort care,” is a philosophy and a structured method of providing care in any setting—hospital, nursing home or the patient’s home.

Palliative care is based on a set of basic values:¹

- To cure, sometimes
- To relieve, often
- To comfort, always

Palliative care is defined in specific terms as:

- Active management that optimizes quality of life by preventing and relieving physical and psychological suffering, but is not intended to hasten death²³
- An adjunct, but not an alternative, to conventional medical care
- An intrinsic part of medical care, regardless of the patient’s prognosis; thus, management of pain and other distressing symptoms should be provided to all patients who need it
- Care that is patient-and family centered

Palliative care is not:

- Euthanasia
- Abandonment

Palliative Care vs. Hospice Care

Whereas palliative care is a structured method of rendering care, hospice care is a service delivery system that provides palliative care for patients as they enter the terminal stages of their illness. In addition to supporting family members who are caring for their relatives, hospice care addresses families’ bereavement needs after the patient dies.

In the United States, hospice care services are usually delivered by a certified hospice program for which Medicare or certain other third-party payers cover most of the costs for patients with limited life expectancy.⁴ All hospice programs in New York State must be Medicare-certified. In contrast to non-hospice palliative care, which can and should be provided in any setting, hospice services are provided primarily in the patient’s home or in a residential care setting. Hospice patients, however, are eligible to receive inpatient care when symptom management requires a high level of intervention and support. Non-
hospice inpatients may transition to hospice services without leaving the hospital, if they obtain a hospice admission and paper hospital discharge.

**Palliative Care in Disasters**

If life-sustaining treatments are withheld or withdrawn, or are unavailable during a disaster, care providers must strive to keep patients as comfortable as possible. The goal of palliative care in disasters is to maximize the physical and psychological comfort of individuals who are not expected to survive in the short term (hours to days) or the long term (weeks to months), with or without treatment. There are three groups of patients that are of particular concern during disasters:

1. Those who are seriously injured or ill as a result of the event
2. Those whose prognosis is limited because of the inability to obtain life-sustaining treatment in the face of shortages
3. Those with terminal or life-threatening disease who were receiving palliative care at home, a hospital or a nursing home before the disaster

**A Fourth Group: Vulnerable Populations**

Vulnerable populations, such as home-bound persons with cognitive or physical impairments (most of whom are elderly individuals) are an important fourth group of concern during disasters. People fitting this description are likely to be prominently represented in the second and third groups above. They may be unable to obtain or call for assistance, either because they have no caregiver, or because family or other caregivers are unavailable.

Past events in NYC have shown that such people often are overlooked by authorities in the first wave of surge and rescue, and, if discovered, are found alone days after the event. At that point, these individuals may be seriously ill from neglect, poor self-care, or the inability to obtain food, water or medications. Such individuals require assessment and interventions that might be considered low-priority in a disaster, but, at a minimum, basic palliative care should be provided until further assessment and treatment are available.

**Barriers to Palliative Care during Disasters**

There are several barriers to palliative care that could affect patients of all ages, including:

- A lack of experience in the United States with allocating scarce resources in large populations
- Misperceptions about the roles of, and services offered by, palliative care and hospice providers
- A chronic shortage of clinicians trained or experienced in palliative care
- Deployment of palliative care professionals to acute care in hospitals, limiting the number available to provide hospice or palliative care in homes or in non-acute-care settings

*Draft for Comment*

*New York City Department of Health and Mental Hygiene*
• The need to prioritize life-saving interventions over non-invasive care approaches
• Disrupted access to medications such as opioid analgesics
• Health care provider concerns about liability when treating patients with life-threatening illnesses during disasters
• An ongoing problem of suboptimal care for severe pain and other serious symptoms, due to inadequate training in assessing and treating pain, fear of legal repercussions for using high doses of controlled substances, clinicians’ fears of causing addiction, and patients’ fears of developing addiction

**Barriers to Palliative Care Faced by Elderly Patients**

Geriatric care issues can compound the barriers to palliative care that exist during a disaster, including:

• Lack of information about patients’ prior health status, or provider inexperience in geriatric assessment, leading to under-treatment or incorrect triage of healthy elderly
• Atypical presentation of pain or a patient’s inability to express pain, leading to under-treatment of pain or failure to correctly address its cause.
• Inadequate provider knowledge or skill in geriatric prescribing, which may lead to excessive as well as inadequate dosing of medications such as opioids or sedatives
• Failure of providers to view certain life-threatening diseases, such as advanced dementia, as terminal, leading to over-treatment or unwanted treatment (see Section 6, Ethical and Legal Issues, page 105)
• Coexistence of chronic illness compounded by cognitive or physical impairments, requiring additional workers (including friends or family members) to assist patients in basic activities such as feeding, toileting or taking medications
• Large numbers of non-English-speaking elderly in NYC, exacerbating the problem of incorrect clinical assessment.

**PLANNING GUIDELINES**

1. **Identify Staff with Expertise in Palliative Care and Include One or More on the Emergency Preparedness Committee**

   • **Staff leaders.** Ideally, such individuals should be physicians with experience in hospice and palliative medicine who are board-certified in internal medicine or family practice. (Additional qualifications in geriatric medicine are highly desirable.) Professionals who do not have American Board of Hospice and Palliative Medicine certification but who have formal training in geriatric medicine or geriatric nursing will likely have many of the skills needed to provide basic palliative care.

   • **Additional clinicians.** Identify additional clinicians who can provide consultative palliative services.
• **External consultants.** For institutions with little or no palliative-care expertise, external consultants are available who can assist with training, program design, and/or policy development (see Section 1, Teaching Tools and Guidance, Gerontological Society of America Expert Referral Service, page 29).

2. **Identify Local Hospice Programs**
Invite one or more representatives from local hospice organizations to participate on the Emergency Preparedness Committee.

3. **Train Staff in Basic Palliative Care Skills and Principles**
Be sure staff receives instruction on:

- **Basic medical issues: approach and management:**
  - Basic palliative care approach (see Section 7, Tool 7-1, Basic Steps in Providing Palliative Care, page 125)
  - Pain, dyspnea and other distressing symptoms that commonly occur in complex, life-threatening illnesses
  - Side-effects of opioids and other medications used in palliative care
  - Recognizing appropriateness of palliative care in a range of irreversible, life-threatening illnesses, such as advanced stages of dementia and other serious chronic diseases (see Section 7, Tool 7-3, Dementia Stage and Failure to Eat, page 127 and Section 6, Ethical and Legal Issues, page 105).

- **Mental health issues:** (for additional information see Section 5, Mental Health Issues, page 86)
  - Anxiety, confusion and depression
  - Anger response from patients and families of patients who are denied access to ventilator support
  - Identifying pre-existing conditions, including prior use of psychotropic medications

- **Multidimensional medical issues:**
  - Sedation for control of refractory-symptom distress
  - Ventilator withdrawal from incurably ill patients
  - Titration of opioids and sedatives to achieve relief of symptom distress
  - Forgoing tube feeding and other life-sustaining treatments
  - Avoiding iatrogenic suffering by assessing burdens and benefits of medical interventions

- **Communication and counseling:**
  - Giving bad news
  - Grief counseling (see Section 7, Resources, page 136 and Section 5, Mental Health Issues, page 86)
  - Use of translation services
  - Communicating with the hearing and visually impaired
For rapid training and education tools, see Section 7, Resources, page 136.

4. Provide Information to Hospital Staff on When and How to Obtain and Use Palliative Care and Hospice Services

For information on finding programs, see Section 7, Resources, Hospice and Palliative Care Association of NY State, Find a Hospice Program, page 137. Hospitals that already have formal palliative care programs or personnel trained or experienced in palliative care should be contacted for assistance in basic as well as more complex management (see Section 7, Tool 7-2, Obtaining a Palliative Care Consult, page 126).

5. Familiarize Staff with Ethical and Legal Issues in the Care of Patients Not Expected to Survive

In this training, include:

- The differences among key concepts: palliative care; euthanasia and assisted suicide; withholding/withdrawing treatment
- The use of risky doses of opioids and sedatives in terminal care that could unintentionally hasten death
- Determining the ability of patients to make their own treatment decisions (see Section 6, Tool 6-1, Determining a Patient’s Decisional Capacity, page 111)
- Use of Do-Not-Resuscitate (DNR) orders and advance directives (for a complete discussion and links, see Section 6, Resources, Advance Directives and Nonhospital DNR: Forms and Guidance, on page 116)

6. Ensure There Are Adequate Supplies of Palliative Medications and Access to Injectable Morphine

Medications should that should on hand include:

- Morphine and other strong opioid immediate-release tablets
- Injectable morphine or other strong opioids for parenteral injection, or continuous intravenous or subcutaneous infusion
- Liquid oral morphine
- Liquid oral haloperidol
- Acetaminophen suppositories
- Atropine drops, 1% solution (available as ophthalmic agent but to should be used orally)
- Liquid oral lorazepam
- Potent laxative (bisacodyl, senna, other)

(See Section 7, Tool 7-5, Comfort Pack, page 129 and Tool 7-7, Severe Symptom Management Chart, page 131.)

7. Work with City Agencies to Identify Alternative Care Sites for Patients in Need
of Palliative Care
Alternative care sites should be determined in advance for patients who do not require an acute hospital bed; be sure to establish:

- Methods of communication and transport between institutions
- Standards for admission
- Memoranda of understanding or contractual agreements so resources can be immediately activated in a disaster

8. Secure Hospice Participation Contracts for Inpatient Care
Established contracts will facilitate smooth transition to available hospice services when patients who are still in the acute care setting.

9. Encourage Health Care Providers Affiliated with the Institution to Identify the Most Compromised Individuals Prior to a Disaster
Clinicians should continuously identify patients with terminal or life-threatening illnesses who do not wish to be hospitalized and whose care could be provided at home or another nonhospital setting; be sure to provide:

- Blank documents for providers, such as Health Care Proxy and non-hospital DNR forms for use when appropriate
- Advance-care planning, including:
  - Non-hospital DNR order, if appropriate, with instructions on its use for patients and all their caregivers
  - A Health Care Proxy appointment, if the patient has the capacity to make such an appointment (see Section 6, Ethical and Legal Issues, page 105)
  - Adequate supplies of medications (see Section 7, Tool 7-5, Comfort Pack, page 129)
  - Identification of back-up caregivers
  - Methods and contact information for directing care by land-line telephone
  - Basic disaster preparedness information (see Section 5, Resources, page 100)
  - Hospice referral, if appropriate

11. Develop Methods of Accommodating Families Distraught about the Health or Loss of Loved Ones

- Appoint or train a multi-disciplinary staff (including psychologists, social workers, psychiatrists and clergy) to provide grief counseling and other emotional support to family and caregivers
- Provide a means of communicating with non-English speaking patients by using staff translators, community volunteers or telephone translation services
12. Identify and Prescreen Volunteers on an Ongoing Basis
Find volunteers, especially from the nearby community, to assist professional staff. Nonclinical volunteers should be trained in providing adjunct services, such as feeding and toileting. Mental health and social service professionals, clergy, and others should be recruited and credentialed in advance if possible. For an overview of using volunteers during a disaster, see Section 6, Ethical and Legal Issues, page 105.

TOOLS

Tool 7-1. The Basic Steps in Providing Palliative Care

Key steps for patients in hospitals or other health care settings

- Triage to the most appropriate level of care
- Triage to the most appropriate setting, potentially including alternative care sites
- Perform pain, symptom and psychosocial needs assessments for all patients
- Provide treatment of symptom distress for all

Requirements for staff preparation and support:

- Diagnostic acumen for triage
- Training in forma pain assessment
- Training in relief of common symptoms and drug side effects
- Access (by internet, telephone or in person) to palliative medicine expertise
Tool 7-2. Obtaining a Palliative Care Consult *

WHEN
Consult the palliative care hospital service when:

- A patient has prolonged or difficult ventilator withdrawal, or consideration of ventilator withdrawal is considered because death is expected
- A patient normally would be considered for intensive care unit admission and/or mechanical ventilation, but, given disaster scope, the patient is unlikely to have access to ventilator support
- There is uncertainty about prognosis
- The patient has difficult-to-control physical or emotional symptoms
- The family or physician requires assistance with goals-of-care discussion, for example, when family distress impairs surrogate decision-making
- There are conflicts about do-not-resuscitate orders
- The patient or family experiences psychological or spiritual distress
- The patient or family will likely benefit from support in considering hospice as an option

WHAT
Services expected from palliative care providers in acute care settings:

- Consultation and recommendations addressing the specific clinical considerations identified by the referring physician
- Collaboration with the referring physician, who may be able to assume care management if needed
- Expert pain and symptom management
- Attention to the concerns and needs of the patient, family and involved staff
- Collaboration on outplacement options, including writing medication orders for management in non-acute care settings

* Hospital-based palliative care programs provide consultation in managing symptoms associated with chronic or acute illness; some hospitals have dedicated inpatient units to which patients can be transferred for ongoing care management and surveillance. Tool adapted from Hospice and Palliative Care Association for NY State: Pandemic Asian Flu Project [www.hpcanys.org/provider_resources.asp](http://www.hpcanys.org/provider_resources.asp)
### Tool 7-3. Dementia Stage and Failure to Eat: Medical or Neurological?

<table>
<thead>
<tr>
<th>Functional Assessment Staging Tool (FAST)*</th>
<th>Most Common Causes of Failure to Eat §</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stage Levels</strong></td>
<td></td>
</tr>
<tr>
<td>1.  Normal function</td>
<td></td>
</tr>
<tr>
<td>2.  Forgetful</td>
<td></td>
</tr>
<tr>
<td>3.  Decreasing job or domestic function</td>
<td></td>
</tr>
<tr>
<td>4.  Difficulty with instrumental activities of daily living</td>
<td>Stages 1-5: Medical illness, drug toxicity, depression, inability to obtain food or delayed return of baseline eating following acute illness</td>
</tr>
<tr>
<td>5.  Difficulty with basic activities of daily living</td>
<td></td>
</tr>
<tr>
<td>6.  Progressive difficulty with activities of daily living</td>
<td>Stage 6: Progressive neurological impairment with aversive feeding behaviors (difficulty getting food to the mouth, or resisting feeding, e.g. by pushing food or feeder away); reversible medical cause may also exist</td>
</tr>
<tr>
<td>7.  End stage</td>
<td></td>
</tr>
</tbody>
</table>

**Late-stage and End-stage Dementia**

| 6a Difficulty dressing                     |                                       |
| 6b Difficulty bathing                      |                                       |
| 6c Difficulty with mechanics of toileting  |                                       |
| 6d Urinary incontinence                    |                                       |
| 6e Fecal incontinence                      |                                       |
| 7a Speech limited to a few words           |                                       |
| 7b Speech limited to a word or less        |                                       |
| 7c Can’t walk without assistance          |                                       |
| 7d Can’t sit up without assistance         |                                       |
| 7e Unable to smile                         |                                       |
| 7f Unable to hold head up independently    |                                       |

*Adapted from: Reisberg B. Functional Assessment Staging (FAST). *Psychopharmacol Bull.* 1988; 24:653-655

§The FAST scale does not examine progressive inability to eat and drink, which begins and generally progresses gradually throughout the late stages. In end-stage dementia, patients are permanently unable to eat and drink, marking a terminal phase of the disease. Failure to eat before stage six almost always indicates a problem other than dementia, such as poor appetite due to medical illness.
Tool 7-4. Alternatives to Long-Term Tube-Feeding*: Helping to avoid tube-feeding when it is not necessary or when patient refuses

Approach to patients who need assistance with eating and drinking
- Assist the patient in reaching the food tray, open containers and feed self.
- Ascertain patient’s baseline feeding status.
- Provide frequent, small feedings with a spoon.
- Determine food preferences and permit others to bring favorite foods from home.
- Add condiments to improve taste.
- For patients having difficulty swallowing liquids, provide foods with “antidysphagia” consistency (thick puree) and add commercially available thickener (e.g., Thick-it®) to liquids.
- Provide intravenous fluids during delays in recovery of feeding after acute illness. Expect five to 10 days for full return to baseline eating in frail patient.
- Supplement tube feeds with oral feeds, as tolerated.
- Use family or trained volunteers to assist in feeding.
- Obtain information about patient’s wishes regarding long-term tube-feeding, if possible, and abide by these wishes as legally required (see Section 6, Ethical and Legal Issues, page 105).
- Inform patients or their surrogate decision-makers about risks and benefits of feeding tubes**.

Tube-feeding is not generally indicated in the following conditions (evidence of benefit lacking)**:
- Pneumonia, including recurrent sub-clinical aspiration pneumonia
- Pressure ulcer
- Low serum albumin
- Swallowing evaluation that indicates aspiration risk
- Prevention of painful death from failure to eat and drink

**For further reading on risks and benefits of tube feeding, see Section 7, References, 11, 12, 13, page 135
Tool 7-5. Comfort Pack*

For Pain or Shortness of Breath
Medication: Morphine liquid (Roxanol®) 20 mg per ml
Give 1 quarter ml (1/4) to 1 half ml (1/2) by mouth or under tongue every 30 minutes until the patient achieves relief.

For Restlessness, Agitation, Confusion or Nausea (if not relieved by morphine)
Medication: Haloperidol liquid (Haldol®) 2 mg per ml
Give 1 quarter ml (1/4) to 1 half (1/2) ml by mouth or under tongue every hour until the patient achieves calm or relief from nausea.

For Restlessness, Agitation or Nausea (if not relieved by haloperidol)
Medication: Lorazepam liquid (Ativan®) 2 mg per ml
Give 1 quarter ml (1/4) to 1 half ml (1/2) by mouth or under tongue every 15 minutes until the patient achieves calm or relief from nausea.

For Excessive Lung Secretions (if unable to cough)
Medication: Atropine drops 1% solution**
Give 2 to 4 drops by mouth or under tongue every 2 to 4 hours as needed.

For Constipation
Medication: Bisacodyl (Dulcolax®) suppositories
Give 1 to 2 suppositories by rectum daily as needed.

For Uncomfortable Fever
Medication: Acetaminophen (Tylenol®) suppositories
Give one or two 325-mg suppositories by rectum every 4 to 6 hours as needed.

* The Comfort Pack includes medication instructions for terminal care on one page. The instructions are easy to understand and appropriate for family caregivers to utilize use at home, for example, after the patient’s discharge from the hospital. Selections are based on cost and availability of liquid preparation or suppository. Doses and choices may differ for other indications, especially in frail elderly (see Section 4, Medications: Prescribing and Dispensing, page 64). Prepared by Diane E. Meier, MD. Hertzberg Palliative Care Institute, Mount Sinai School of Medicine, New York City

** Available as ophthalmic solution, although in this case should be taken by mouth or sublingual route; an alternative is glycopyrrolate (Robinol®) 0.2 mg/ml (give 0.4 to 0.8 mg every 4 to 8 hours as needed)
### Tool 7-6. Age-adjusted Dosing for Opioid Treatment of Acute Pain

<table>
<thead>
<tr>
<th>Opioid</th>
<th>Usual Adult Starting Dose*</th>
<th>Geriatric Starting Dose**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Oral</td>
<td>Parenteral</td>
</tr>
<tr>
<td>Morphine</td>
<td>5-10 mg</td>
<td>2-5 mg</td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>2-4 mg</td>
<td>1-2 mg</td>
</tr>
<tr>
<td>Oxycodone</td>
<td>5-10 mg</td>
<td>2.5-5 mg</td>
</tr>
<tr>
<td>Oxycodone-Acetaminophen</td>
<td>5/325 mg (do not exceed 4 gm/day of acetaminophen)</td>
<td>5/325 (do not exceed 3-4 gm/day of acetaminophen)</td>
</tr>
</tbody>
</table>

#### Other Opioids

- Sustained-release tablets should be instituted only after maintenance dose has been established
- Fentanyl: Use a transdermal patch only after maintenance dose of morphine or other opioid has been established, or resume patient’s established dose
- Tramadol (Ultram®) ([see Section 4, Tool 4-1, Age-associated Pharmacokinetic and Pharmacodynamic Changes, page 65](#))
- Methadone: Do not use unless patient has failed standard opioids; initiate only in conjunction with an experienced pain consultant; generally, avoid entirely in elderly patients to prevent drug accumulation (half-life of drug is longer than duration of analgesic effect)
- Meperidine (Demerol®): Avoid repeated doses to prevent accumulations of toxic metabolite
- Propoxyphene (Darvon®): Avoid because of minimal therapeutic effect despite opioid adverse effects

---

* Conservative dosing guidelines are intended for “opioid-naïve” patients, and should be considered a “test” dose for patients in severe pain. They may be repeated within an hour or less if ineffective. Patients who have recently been receiving opioids, including a “weak” opioid such as codeine or hydrocodone, may need higher initial doses. These guidelines assume normal renal and liver function.

** Initial dose is for an opioid-naïve patient. Patients who have recently been receiving opioids may need higher initial doses. “Geriatric dose” represents the preferred starting dose for frail elderly, particularly those over 80 who appear underweight. Repeated dosing should assume occult renal insufficiency (as discussed in [Section 4, Medications: Prescribing and Dispensing, page 64](#)) and enhanced central nervous system effects. Around-the-clock dosing in frail elderly requires periodic reevaluation during titration to avoid oversedation.

¶ Can be given by continuous subcutaneous infusion for patients with poor i.v. access, though intravenous-subcutaneous conversion ratios are not well established
§ Oral liquid preparation available
### Tool 7-7. Severe Symptom Management Chart*

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Medication</th>
<th>Route of Administration</th>
<th>Adult Dosage</th>
<th>Frail Elderly: Comments**</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Severe Dyspnea</td>
<td>Lorazepam tabs (if necessary, dissolve in &lt;1 ml of fluid)</td>
<td>Oral or rectal</td>
<td>0.5 mg every 8 hours scheduled or every 2 hours as needed. May increase to 1 mg if needed</td>
<td>Observed for worsened confusion or delirium; smaller doses and longer intervals between doses may be necessary if deep sedation is not desired. Observe for tolerance to sedating effects of morphine over time.</td>
</tr>
<tr>
<td>- Dyspnea at Rest</td>
<td>Morphine liquid concentrate 20 mg/ml</td>
<td>Oral or Sublingual</td>
<td>2.5 mg every 2 to 4 hours as needed. May increase to 5 mg as needed</td>
<td></td>
</tr>
<tr>
<td>- Respiratory Failure</td>
<td>Morphine injectable solution</td>
<td>Subcutaneous or i.v.</td>
<td>0.5 to 1 mg every 2 to 4 hours as needed. May increase to 1 or 2 mg if needed</td>
<td></td>
</tr>
<tr>
<td>- Air Hunger</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Severe Dyspnea</td>
<td>Lorazepam tabs (if necessary, dissolve in &lt;1 ml of fluid)</td>
<td>Oral or rectal</td>
<td>0.5 mg every 4 hours as needed. May increase to 1 mg if needed</td>
<td>Observe for worsened confusion or delirium. Smaller doses or longer intervals between doses may be necessary if deep sedation is not desired. Selective serotonin reuptake inhibitor (e.g. sertraline) may be helpful in patients who do not tolerate benzodiazepines, though effect usually delayed.</td>
</tr>
<tr>
<td>• Dyspnea at Rest</td>
<td>Morphine liquid concentrate 20 mg/ml</td>
<td>Oral or Sublingual</td>
<td>2.5 mg every 2 to 4 hours as needed. May increase to 5 mg if needed</td>
<td></td>
</tr>
<tr>
<td>• Respiratory Failure</td>
<td>Morphine injectable solution</td>
<td>Subcutaneous or i.v.</td>
<td>1 mg every 2 to 4 hours as needed. May increase to 2 mg if needed</td>
<td></td>
</tr>
<tr>
<td>• Air Hunger</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Observed for worsened confusion or delirium; smaller doses and longer intervals between doses may be necessary if deep sedation is not desired. Observe for tolerance to sedating effects of morphine over time.
### Tool 7-7. Cont’d

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Medication</th>
<th>Route of Administration</th>
<th>Adult Dosage</th>
<th>Frail Elderly: Comments**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muscle aches, Fever, Chest pain</td>
<td>Acetaminophen tabs or liquid</td>
<td>Oral or rectal</td>
<td>650 to 1000 mg every 6 hours as needed</td>
<td>Maximum acetaminophen dose: 3 to 4 grams/day</td>
</tr>
<tr>
<td></td>
<td>Ibuprofen tabs or syrup</td>
<td>Oral</td>
<td>200 to 800 mg every 6 to 8 hours as needed</td>
<td>Maximum ibuprofen dose: 3.2 grams/day A histamine-2 blocker or proton-pump inhibitor may be necessary to prevent gastric bleeding, especially with scheduled dosing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Use enemas if patient has no bowel movement for 72 hours, sooner if patient is at risk for fecal impaction.</td>
</tr>
<tr>
<td>Constipation</td>
<td>Senna tabs or liquid</td>
<td>Oral</td>
<td>1 to 4 tablets daily while inactive, especially if using opioids</td>
<td>Observe for increased confusion, constipation, urinary retention or exacerbation of tachyarrhythmia.</td>
</tr>
<tr>
<td></td>
<td>Bisacodyl tabs</td>
<td>Oral</td>
<td>1 to 4 tablets daily if senna not effective</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bisacodyl suppositories</td>
<td>Rectal</td>
<td>1 to 2 suppositories daily if oral routes not used</td>
<td></td>
</tr>
<tr>
<td>Secretions in patients who are unable to cough</td>
<td>Glycopyrrolate oral solution (0.2 mg/ml)</td>
<td>Oral or sublingual</td>
<td>0.4 to 0.8 mg every 8 hours as needed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Atropine 1% ophthalmic solution</td>
<td>Oral or sublingual (not in eyes)</td>
<td>2-4 drops every 2 to 4 hours as needed</td>
<td></td>
</tr>
<tr>
<td>Symptom</td>
<td>Medication</td>
<td>Route of Administration</td>
<td>Adult Dosage</td>
<td>Frail Elderly: Comments**</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-----------------------------------------</td>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>- Agitation/anxiety (if lorazepam and haloperidol are not adequate)</td>
<td>Phenobarbital tabs</td>
<td>Oral</td>
<td>45 to 60 mg every 8 hours as needed. May increase to 90 mg</td>
<td>Smaller starting doses of phenobarbital and slower titration are appropriate, especially if deep sedation is not desired.</td>
</tr>
<tr>
<td></td>
<td>Phenobarbital injectable solution (130 mg/ml)</td>
<td>Subcutaneous or i.v.</td>
<td>45 to 60 mg every 8 hours as needed. May increase to 90 mg</td>
<td>Smaller starting doses and slower titration are appropriate if deep sedation is not desired.</td>
</tr>
<tr>
<td></td>
<td>Chlorpromazine (Thorazine) tabs</td>
<td>Oral</td>
<td>25 to 50 mg every 6 hours as needed</td>
<td>Observe for urinary retention, especially in men. Intravenous chlorpromazine may produce hypotension; smaller starting doses and slower titration are recommended.</td>
</tr>
<tr>
<td></td>
<td>Chlorpromazine Injectable solution</td>
<td>i.v.</td>
<td>25 to 50 mg every 6 hours as needed</td>
<td></td>
</tr>
<tr>
<td>- Intractable anxiety, other intractable symptoms, existential distress</td>
<td>Lorazepam tabs (if necessary dissolve in &lt;1 ml of fluid)</td>
<td>Oral or rectal</td>
<td>2 mg every 10 minutes until seizure stops</td>
<td>In postictal phase, prolonged sedation could be the result of the residual effect of lorazepam.</td>
</tr>
<tr>
<td></td>
<td>Lorazepam injectable solution</td>
<td>Subcutaneous or i.v.</td>
<td>2 mg every 10 minutes until seizure stops</td>
<td></td>
</tr>
<tr>
<td>- Seizures</td>
<td>Haloperidol tabs or oral solution</td>
<td>Oral or rectal</td>
<td>1 mg every 2 to 4 hours as needed</td>
<td>When symptoms permit, reduce dose or increase dosing interval in ambulatory patients to avoid gait deterioration.</td>
</tr>
<tr>
<td></td>
<td>Haloperidol injectable solution</td>
<td>Subcutaneous or i.v.</td>
<td>1 mg every 2 to 4 hours as needed</td>
<td></td>
</tr>
</tbody>
</table>
### Tool 7-7. Cont’d

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Medication</th>
<th>Route of Administration</th>
<th>Adult Dosage</th>
<th>Frail Elderly: Comments**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternatives for nausea/vomiting</td>
<td>Lorazepam tabs (may use with haloperidol)</td>
<td>Oral or rectal</td>
<td>0.5 mg every 2 to 4 hours as needed. Increase to 1 mg, if needed</td>
<td>Reduce dose or increase dosing interval as soon as symptoms permit, if deep sedation not desired.</td>
</tr>
<tr>
<td></td>
<td>Promethazine</td>
<td>Oral or rectal</td>
<td>12.5 to 25 mg every 6 hours as needed</td>
<td></td>
</tr>
<tr>
<td>Dehydration</td>
<td>NaCl 0.9% i.v. solution</td>
<td>i.v. or subcutaneous</td>
<td>1 to 3 liters/ 24 hours</td>
<td>Titrate to comfort; intravenous rehydration may worsen secretions and respiratory distress; patient not expected to recover may prefer to avoid parenteral fluids, since burdens may outweigh benefits.</td>
</tr>
<tr>
<td>Diarrhea</td>
<td>Loperamide capsules</td>
<td>Oral</td>
<td>4 mg followed by 2 mg after each stool</td>
<td>Fecal impaction may present with diarrhea, which should resolve with disimpaction. Loperamide unlikely to produce sedation or confusion; if patient requires morphine for pain or other non-diarrhea symptoms, loperamide may be added to the regimen for control of diarrhea.</td>
</tr>
<tr>
<td></td>
<td>Morphine liquid concentrate (20 mg/ml)</td>
<td>Oral</td>
<td>2.5 mg every 2 to 4 hours as needed</td>
<td></td>
</tr>
</tbody>
</table>

*Adapted from: Hospice & Palliative Care Association for New York State: Toolkit for Symptom Management. Pandemic Asian Flu Project. Comments concerning frail elderly have been developed collaboratively and added here. For further information about the Pandemic Flu Palliative Care Plan, visit. http://www.hpcanys.org/provider_resources.asp

**Doses based on pharmacokinetic and pharmacodynamic principles delineated in Section 4, Medications: Prescribing and Dispensing, page 64. See also Section 7, Tool 7-6, Age-adjusted Dosing for Opioid Treatment of Acute Pain, page 130.
REFERENCES

1. Old French saying, inscribed on Gutzon Borglum statue of Dr. Edward Livingston Trudeau, founder of Tuberculosis Sanitarium, Saranac Lake, N.Y.


13. Finucane TE, Bynum JP. Use of tube feeding to prevent aspiration pneumonia.

Draft for Comment
New York City Department of Health and Mental Hygiene
RESOURCES

END OF LIFE/PALLIATIVE CARE EDUCATION RESOURCE CENTER

Fast Facts
Easy-to-use, concise guidelines (approximately 220 topics) on a variety of palliative-care-management principles prepared by experts in the field in collaboration with the American Academy of Hospice and Palliative Medicine
www.eperc.mcw.edu/ff_index.htm

Selected topics:
- Ventilator Withdrawal Protocol (Part I)
  www.eperc.mcw.edu/fastFact/ff_033.htm
- Symptom Control for Ventilator Withdrawal in the Dying Patient (Part II)
  www.eperc.mcw.edu/fastFact/ff_034.htm
- Information for Patients and Families about Ventilator Withdrawal (Part III)
  www.eperc.mcw.edu/fastFact/ff_035.htm
- Treatment of Dyspnea
  www.eperc.mcw.edu/fastFact/ff_027.htm
- Subcutaneous Opioid Infusions.
  www.eperc.mcw.edu/fastFact/ff_028.htm
- Tube Feed or Not Tube Feed?
  www.eperc.mcw.edu/fastFact/ff_010.htm
- Disaster: Coping with Tragedy (Fast Facts and Concept)
  http://www.mcw.edu/fastFact/ff_50.htm

MOUNT SINAI SCHOOL OF MEDICINE

Opioid Therapy Guidelines Pocket Reference Card
This card includes opioid analgesic equivalences and guidelines for kidney and liver disease, titration, breakthrough pain and bowel function, among others.
www.mssm.edu/palliative/pdf/paincardv20011.pdf

THE SIDNEY KIMMEL COMPREHENSIVE CANCER CENTER AT JOHNS HOPKINS

Opioid Conversion Calculator
A free, PDA-based opioid-conversion calculator assists in dosing when converting from one opioid to another (user should have basic skills on equianalgesic dosing).
www.hopweb.org/

ASSURING YOUR Wishes.ORG

Online Advance Directive Access
This site enables individuals to file advance directives online for future access
Registration is required.
www.assuringyourwishes.com/
(for further information on advance directives, see Section 6, Resources, page 115)

GETPALLIATIVECARE.ORG

A Web-based information source about palliative care designed for patients and families; it also includes guidance for physicians.

Draft for Comment
New York City Department of Health and Mental Hygiene
CENTER TO ADVANCE PALLIATIVE CARE
This site provides training, tools and other resources for health professionals to develop and maintain palliative-care programs in their institutions
Tel. (212) 201-2670
www.capc.org
Specific topics:
**Building a Hospital-Based Palliative Care Program**
Manual that provides guidance in forming and financing palliative-care services in the acute-hospital setting. (Print manual and audiovisual tools are available for purchase.)
www.capc.org/building-a-hospital-based-palliative-care-program/
**CAPCconnect SM**
A palliative care discussion forum that provides a useful resource for ongoing palliative care management issues via threaded discussions; it includes a “Palliative Care in the ED” section.
www.capc.org/forums

HOSPICE AND PALLIATIVE CARE ASSOCIATION OF NEW YORK STATE
**Find a Hospice Program**
This online resource helps users locate hospice programs in New York State.
www.hpcanys.org
www.hpcanys.org/find_program.asp

AMERICAN ACADEMY OF HOSPICE AND PALLIATIVE MEDICINE
This organization provides educational opportunities, clinical guidelines and multiple resources for multidisciplinary management of palliative care, including a certifying exam in palliative medicine available to qualified individuals with a “grandfathering” option through 2012.
www.aahpm.org/

NATIONAL HOSPICE AND PALLIATIVE CARE ORGANIZATION
www.nhpco.org/templates/1/homepage.cfm

HOSPICE AND PALLIATIVE NURSES ASSOCIATION
www.hpna.org/

ALZHEIMER’S ASSOCIATION (NEW YORK CITY CHAPTER)
Educational and advocacy organization that assisting families of patients with dementia in gaining access to a wide range of services.
www.alznycc.org/index.asp
Tel. (646) 744-2900, (800) 272 3900 (24-hour help line).

ADDITIONAL PALLIATIVE CARE COURSES AND TRAINING

Intensive Update with Board Review in Geriatric and Palliative Medicine
Department of Geriatrics and Adult Development, Mount Sinai Medical Center, New
York City
Annual 4-day fall course; tuition required; scholarships available
www.mssm.edu/geriatrics/education/courses/geriatric_medicine/

Visiting Scholars Program
Mount Sinai School of Medicine, New York City
This observership in palliative medicine is designed for physicians, nurse practitioners, social workers and other professionals, and lasts for one to three days or one to three weeks.
Diane.maguire@mssm.edu
Telephone: 1-212-241-8830

Center to Advance Palliative Care
Palliative Care Leadership Centers
Intensive training at six academic sites outside New York City, offering two days of hands-on training and one year of distance mentoring.
Telephone: 1-212-201-2680

Department of Pain Medicine and Palliative Care, Beth Israel Medical Center, New York City
Web- based online education for physicians and nurses; continuing education credits available; links available.
http://www.stoppain.org/

GRIEF AND LOSS
(For additional information, see Section 5, Resources, page 100).

Caring Connections
Grieving a Loss (Caring Connections)
http://www.caringinfo.org/GrievingALoss.htm

Bereavement (National Hospice and Palliative Care Organization)
http://www.nhpco.org/files/public/Insights_09.05_Bereavement_Perspective.pdf