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Introduction and Purpose

Contemporary shifts in healthcare provider roles and the expansion of these roles are moving primary care in a new direction, requiring both integrated and streamlined inter-professional collaboration.

Our research aims to identify the potential benefits, barriers and complexities of incorporating a cross-discipline, inter-professional education (IPE) component into the clinical curriculum at health science institutions such as Texas Tech University Health Sciences Center.

Interprofessional Training Units (ITUs) and Clinical Education Wards (CEW) have been implicated in greater mutual trust, respect, and basic teamwork between students in different health occupations disciplines. [2][7]

A majority of student participants agreed that IPE will benefit patient care but projected effects have not been measured.[4][7]

For the same cost, Texas educates 1 physician or 8 APNs. IPE is necessary to provide cost effective care, especially in primary care settings. [1]

Essential elements for a successful collaborative practice (family physician/nurse) practitioner model) involve communication, autonomy, mutual trust and respect, and assertiveness.[6]

Health care team dynamics require teamwork and planning: (1) clear goals with measurable outcomes (2) clinical and administrative systems (3) division of labor (4) training and (5) communication [4]

Methods

Searched PubMed for research articles, case studies, and meta-analyses from 2000-2011

Terms used were "interprofessional education", "interprofessional curriculum", 'medical & nursing interprofessional curriculum', & "increasing autonomy of health care providers."

Searched Google Scholar for research articles and case studies from 2005-2011

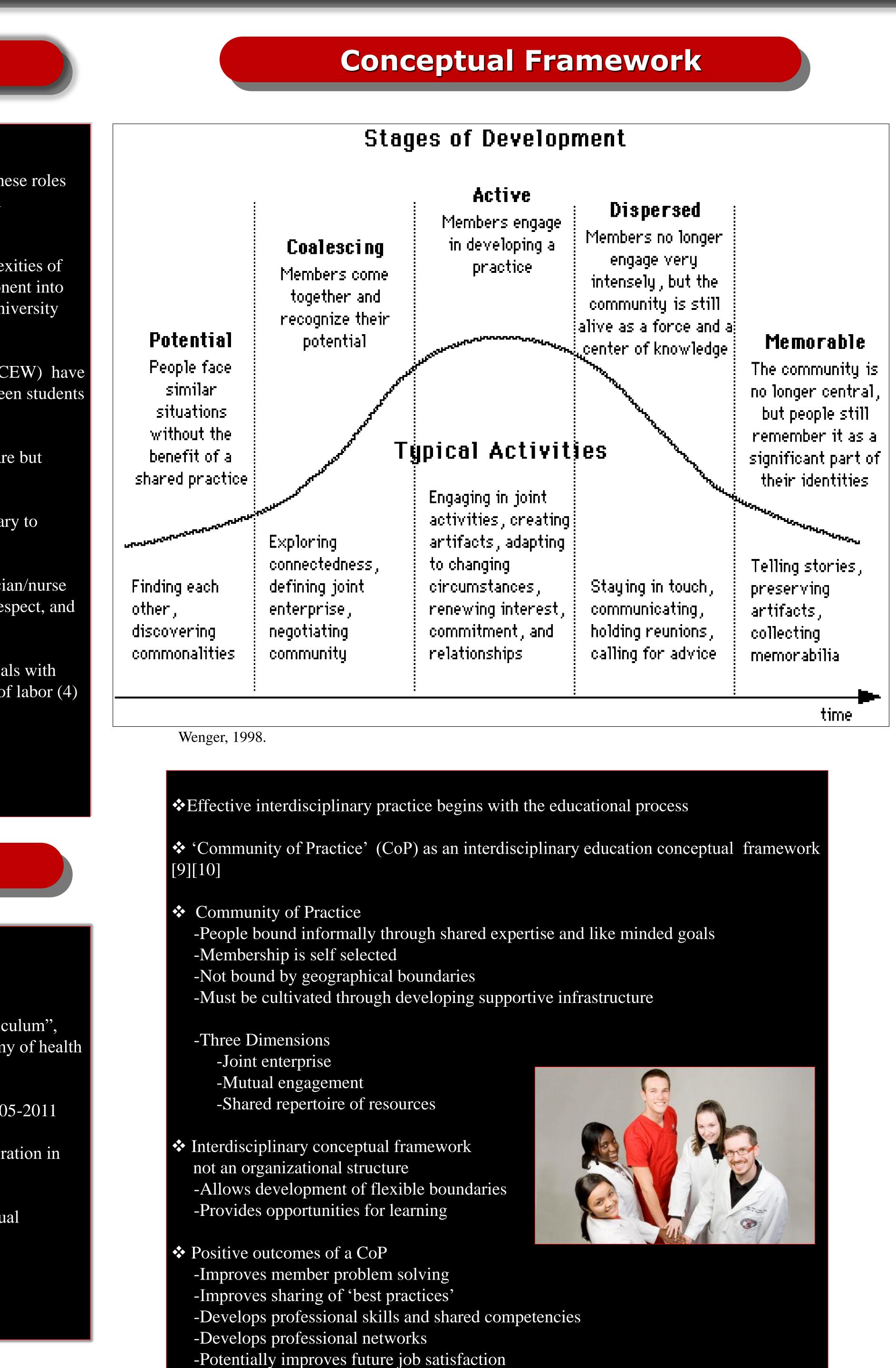
Terms used were "health care teams", "primary care training", "collaboration in training", & "inter-professional programs."

Reviewed <u>www.ewenger.com</u> ("Communities of practice") for conceptual framework.

Reviewed Harvard Business Review ("Communities of Practice: The Organizational Frontier") for theory on inter-professional education



Evaluating Professional Healthcare Provider Curricula In Response to An Increasing Interprofessional Work Environment



Knowledge		Before CEW cours
Regarding nursing care	Mean	6.7
	SD	1.6
	95%C	16.5-6.8
	12	486
Regarding medical care	Mean	6.7
	SD	1.6
	95%C	16.6-6.8
	n	729
Regarding physiotherapy	Mean	5.9
	SD	1.8
	95%C	15.7-6.0
	n	764
Regarding occupational therapy	Mean	4.6
	SD	2.2
	95%C	14.5-4.8
	n	846

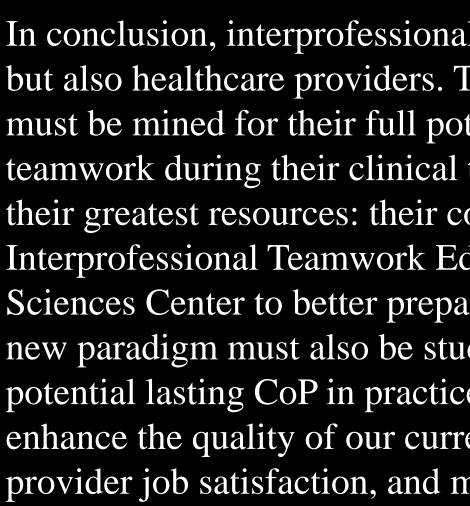
Students' ratings of their knowledge about one another's professions before and after the CEW course; ratings on a Likert scale of 1–9 [7]

•64% of students perceived their professional roles more clearly after they took an integrated course. [7]

•96.2% of the evaluations considered an inter professional teamwork atmosphere beneficial towards helping professionals develop mutual trust and respect one another [8].

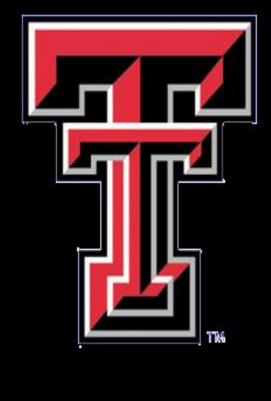
•Potential drawbacks: transaction costs of interpersonal communication and teamwork size; challenges with human relationships and personalities; interferences with patient preferences for continuity of care [6][4]

•In designing a curriculum, educators should take into consideration the quality of tutoring and support for students as a team within a clinical setting [7]

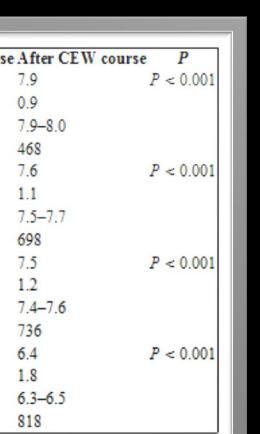


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Results





Key Elements of Team Building appointments

Grumbach, et al [4]

1. Defined Goals

Overall organizational mission state Improvement of patient's health

Reduction in barriers to access to care mprovement in practice's financial performance Physician and staff satisfaction

Specific, measurable operation

At least 80 of diabetic patients in practice will have hemoglobin A₁, lowe

Ninety percent of people calling for a ppointment within 1 week

Practice will achieve a targeted level ractice revenue

Each team member will achieve an explicitly identified goal for persona professional development

Systems

Clinical systems Examples:

Procedures for providing prescription

Procedures for informing patients of aboratory results

Administrative systems Examples

Procedures for making patient

Policies on how decisions are made in the medical practice

3. Division of labor

Definition of tasks ssignment of roles (Determining which people on the team perform which tasks vithin the clinical and administrativ systems of the medical practice)

4. Training

Training for the functions that each team nember routinely performs Cross-training to substitute for other role in cases of absences, vacations, or periodic heavy demands on one part of the team

5. Communication

Communication structures

- Examples: Routine communication through paper
- and electronic information flow Minute-to-minute communicatio
- hrough brief verbal interactions among
- eam members Team meetings
- Communication processes
- Examples: Giving feedback
- **Conflict resolution**

Conclusions

In conclusion, interprofessional teamwork is found to be a tool that not only benefits patients, but also healthcare providers. These benefits greatly outweigh potential drawbacks, and thus must be mined for their full potential. Students unexposed to real-world interprofessional teamwork during their clinical training will be at a disadvantage and may be less likely to utilize their greatest resources: their colleagues. TTUHSC may greatly benefit from an

Interprofessional Teamwork Education clinical clerkship in its curriculum across the Health Sciences Center to better prepare students for their future roles in the healthcare system. This new paradigm must also be studied over a longer period of time in order to better understand potential lasting CoP in practice. Synergistic studies among interdisciplinary teams can greatly enhance the quality of our current healthcare system, improve patient outcomes, increase provider job satisfaction, and mediate health care cost containment.

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-teamwork-and-communication-skills

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