

A Qualitative Evaluation of Student and Patient Perceptions of a Palliative and End-of-Life Care Curriculum taught in the Nursing Home

"What do college students & nursing home residents take away from a summer immersed in palliative care?"



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Background and Aims

BACKGROUND

Through its ten-week, full-time curriculum, the Columbia University Center for Science and Society Research Cluster on Science and Subjectivity-ArchCare at Terence Cardinal Cooke (RCSS-TCC) Internship provides pre-medical college interns with a patient care and accompaniment experience in nursing home palliative care. This experience is designed to provide exposure to these populations and convey foundational pre-clinical skills essential to pre-clinical students preparing for the wards.

SIGNIFICANCE

Medical trainees continue to receive inconsistent formal training in palliative care and end-of-life issues, particularly in the outpatient, hospice, and nursing home settings that many patients utilize at the end of life. As U.S. medical students continue to matriculate with increasing amounts of clinical exposure prior to medical school and preclinical curricula are shortened, earlier exposure to end-of-life issues may better prepare students to assist with the challenges faced by seriously ill or dying patients during their clinical rotations and beyond. Although research has been performed to identify palliative care competencies for medical students, residents, and fellows, no studies have been performed to evaluate undergraduate college internships with clinical exposure to these populations to identify appropriate competencies.

- 1. To evaluate the RCSS-TCC internship curriculum in conveying foundational preclinical knowledge and skills necessary to achieve medical student-level competencies in palliative care
- 2. To assess nursing home residents' perceptions about students' impact on quality of

Who are the Students and Nursing Home Residents?

Nursing Home Residents: FACIT-Pal Survey

Students: Demographics & Previous Exposure

| n - 9 hursing nome Resident Respondents | | | | |
|--|------------------|---|--|--|
| Within the past 7 days, have you felt that: (0 - Not at all, 1 - A little bit, 2 - Somewhat, 3 - Quite a bit, 4 - Very Much) | Average Score | # of Residents who answered "Quite a bit" or "Very Much" | | |
| I have a lack of energy | 1.9 | 4 | | |
| I have nausea | 0.6 | 0 | | |
| I have pain | 1.7 | 4 | | |
| I worry that my condition will get worse | 2.2 | 5 | | |
| I am able to enjoy life | 2.1 | 3 | | |
| I am sleeping well | 2.2 | 4 | | |
| I am content with the quality of my life right now | 1.9 | 4 | | |
| I get emotional support from my family | 2.7 | 6 | | |
| I feel hopeful | 1.9 | 4 | | |
| I feel sad | 2.4 | 5 | | |
| I feel like a burden to my family | 1.3 | 3 | | |
| I am constipated | 0.8 | 2 | | |
| I am able to openly discuss my concerns with the people closest to | 2.1 | 3 | | |

| Undergraduate School (Columbia College, Columbia Engineering, Barnard College, General Studies) | Columbia Engineering | Columbia College | Columbia College | Columbia College |
|--|----------------------------|--|--|--|
| Age | 20 | 20 | 21 | 21 |
| Year in Undergraduate Program | 3 | 3 | 4 | 4 |
| Gender (M, F) | F | F | F | F |
| Previous Degree of Exposure to People Age 65+ | Low Degree of Exposure | Moderate Degree of Exposure | Moderate Degree of Exposure | Moderate Degree of Exposure |
| Setting(s) of Past Exposure/Experiences with People Age 65+ | Home/Family Life | Home/Family Life, Nursing Home, Community- Based Programs | Home/Family Life, Nursing Home, Community- Based Programs | Home/ Family Life, Nursing Home |
| Previous Degree of Exposure to People Facing Terminal liness | High Degree of Exposure | Low Degree of Exposure | No Exposure | Moderate Degree of Exposure |

I have been short of breath Methods

Study Participants and the Recruitment Process

1.3

The study was approved as exempt by the Longwood Medical Area Institutional Review Board and by the Columbia University Institutional Review Board, ArchCare at Terence Cardinal Cooke (TCC) accepted the Institutional Review Boards' determination and gave approval for the study to occur on premises.

All four (4) 2015 RCSS-TCC interns were eligible for the study. They were invited to participate in the study by e-mail. All four (4) 2015 RCSS-TCC interns participated in all aspects of the study.

At the end of internship week 3, each of the 4 interns were asked to identify two to three nursing home residents with whom they had developed a relationship. All nine (9) identified nursing home residents were invited to participate in the study in-person. Nine (9) nursing home residents participated in the study.

Methods

All four 2015 RCSS-TCC Columbia University interns completed pre- and post- written surveys consisting of 12 items that utilized Likert scales and room for open-ended comments about their familiarity with palliative care knowledge, skills, and attitudes at the start (June 1st, 2015) and end of their internship (August 7th, 2015), respectively. We conducted a **1 – 1.5 hour semi-structured interview** consisting of 38 questions with each student intern at the end of internship week 2, at the end of internship week 4, at the end of internship week 6, and 7 weeks after the internship had concluded (September 15th, 2015) asking them to reflect on changes in their knowledge, skills, and attitudes surrounding palliative care since the previous interview. In addition, we asked the students to reflect on the impact of internship on quality of life for nursing home resident.

During internship weeks 6 and 7, we conducted one-time written FACIT-Pal (Functional Assessment of Chronic Illness Therapy - Palliative Care, copyright David Cella PhD) surveys and 30minute semi-structured interviews consisting of 8 open-ended questions with 9 TCC pursing home residents asking about their perceptions of the student interns' impact on their quality of life

Analysis

We quantitatively analyzed written surveys completed by students and nursing home residents for Likert score results to provide demographic data and to provide context for qualitative analysis. Averages of Likert score survey results were calculated and reported using Excel.

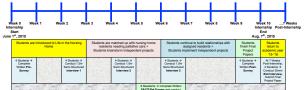
We used qualitative, grounded theory methods to analyze the audio-recorded and transcribed semi-structured interviews. One investigator (A. Shaw) undertook multiple cycles of reading the transcripts to group concepts and themes. These concepts and themes were then discussed with investigator K. Schaefer and each theme was clarified and renamed until the data were fully described and categorized. Themes surrounding the efficacy of certain curricular components in preparing and motivating pre-clinical students to deliver high-quality palliative care and the nursing home residents' perceptions of student involvement were identified to form a coding schema. Transcripts were coded according to the coding schema using the online software Dedoose. Dedoose was also used to generate online reports of coding frequency. Conclusions regarding essential elements of such curricula were then defined.

RCSS-TCC Internship Curriculum

Internship Objectives Adapted from K. Schaefer, et. al. "Raising the bar for the care of seriously ill patients: results of a national account of Adalma assaulti-I natiliative care competencies for medical students and residents. Acad Med. 2014 Jul;89(7):1024-31."

| Doma | ain | Leari | ning Objective | | Internship Activ | ity | |
|--|-----|--|--|--|--|--------|--|
| | | Describes ethical principles that inform decision- making in serious illness, including the right to forgo or withdraw life-sustaining treatment and the rationale for obtaining a surrogate decision maker. | | Describe the TCC Pal Describe Catholic hea Attend TCC Ethios Co | -Conduct relevant literature review -Describe the TCC Palliative Care Protocol workflow -Describe tablication healthcare principles surrounding end-of-life care -Attend TCC Ethics Council meeting -Interview patients about the factors that affect their decision-making in serious illness | | |
| Knowledge | | Describes the roles of members of an interdisciplinary palliative care team | | Observe different role Attend quarterly and e | Participate in daily Micrining Report Observe different roles in TCC's interdisciplinary palliative care team Affend quarterly and emergent interdisciplinary care planning meetings Describe each discipline's role in implementing TCC's Palliative Care Protocol | | |
| | | Defines the philosophy and role of palliative care across the life cycle and differentiates hospice from palliative care. | | Compare and contras Interact with Calvary I Describe hospice refe | Conduct relevant literature review. Compare and contract TCC's Pallative Care Protocols and TCC's Hospice Protocols - Interact With Calvary Hospital hospice team Describe hospice referral process Spend one day in inpatient hospics setting | | |
| | | Identifies psycho-social distress in patients and their loved ones. | | | Interview residents and loved ones regarding psycho-social distress Follow and advocate for 4-6 residents throughout dying process | | |
| Skills | | Explores patient and loved ones' understanding of illness, concerns, goals, and values that inform the plan of care. | | rm and values | Interview residents and loved ones regarding understanding of illness, concerns, goal and values Advocate for residents and loved ones' concerns and goals | | |
| | | Demonstrates basic approaches to handling emotion in patients and their loved ones facing serious illness. | | emotion in residents ar | -Meet one-on-one with the Medical Director to discuss approaches to handling emotion in residents and their loved ones facing serious illness -Implement specific non-pharmacological palliative interventions for assigned residents. | | |
| | | Identifies patients' and their loved ones' cultural values, beliefs, and practices related to serious illness and end-of-life care. | | related to serious illnes | Interview residents and loved ones regarding cultural values, beliefs, and practices related to serious illness and end-of-life care Follow and advocate for residents and their loved ones' cultural values to be respected | | |
| Identifies spritual and existential suffering in patients and families. -Interview residents and their loved ones regardreflow and advocate for residents and their love -Shadow TCC chaplains during pallative care and | | | or residents and their loved ones | s' spiritual needs to be met | | | |
| | | Reflects on person patients' dying and | nal emotional reactions to deaths. | personal emotional rea | -Meet with the Medical Director one-on-one several afternoons a week to refi- personal emotional reactions to residents' dying and deaths -Journal and blog several times a week | | |
| | | Agrees that it is possible to tell the truth about a terminal prognosis and still maintain hope. | | understand their role, to | Interview and shadow the Medical Director and TCC's attending physicians to understand their role, techniques, and skills in helping residents and their loved ones maintain hope with a terminal prognosis | | |
| Attitudes Agrees that physicians have a responsibility to help patients at the end of life prepare for death. Interview and shadow the Medical Director and TCC's attending plant of the patients and at the end of life prepare for death at the end of life prepare for death. | | | attending physicians to esidents and their loved ones | | | | |
| | | Agrees that psychological suffering can be as severe as physical suffering. | | Understand role of inte suffering | Follow and advocate for residents and loved ones' psychological suffering to be | | |
| Sample Student Intern Work Week | | | | | | | |
| | | Monday | Tuesday | Wednesday | Thursday | Friday | |

| | | Tuesday | Wednesday | Thursday | Friday |
|-----------|---|---|--|---|--|
| Morning | 9AM – 10 AM Morning Report with entire Interdisciplinary Team | 9AM – 10 AM Morning Report with entire Interdisciplinary Team | SAM – 10 AM Morning Report with entire Interdisciplinary Team | 9AM – 10 AM Morning Report with entire Interdisciplinary Team | 9AM – 10 AM Morning Report with entire Interdisciplinary Team |
| | 10 AM – 10:30 AM Bedside Rounds on emergent hospital transfers with Medical Director & attending physicians | 10 AM – 12:00 PM Attend HIVIAIDS Program Comprehensive Care Planning (CCP) | 10 AM – 10:30 AM Bedside Rounds on emergent hospital transfers with Medical Director & attending physicians | 10 AM – 12:00 PM Attend Huntington's disease Program Comprehensive Care Planning (CCP) | 10 AM – 10:30 AM Bedside Rounds on emergent hospital transfers with Medical Director & attending physicians |
| | 10:30 AM – 12 PM Escort residents to in-house Alcoholics Anonymous meeting | | 10:30 AM – 12 PM Shadow Consultant Palliative Care Nurse Practitioner on Patient Volts | | 10:30 AM - 12 PM Conduct literature review pertinent independent project |
| Afternoon | 1 PM - 2 PM Meet with Unit Social Worker to advocate for resident's specific needs (trip to bank, eyeglasses, etc.) | 1 PM – 2 PM Conduct audit on advanced directives forms on assigned units | 1 PM – 2 PM Altend emergency Ethics Council meeting | 1 PM – 2 PM Discuss independent project progress with Medical Director | 1 PM – 2 PM Shadow Chaptain on Hospice Rounds |
| | 2 PM - 4:30 PM Sit vigil at bedside of dying resident discussed during Morning Report | 2 PM – 4:30 PM Meet with loved ones of assigned resident at bedside | 2 PM - 4:30 PM Follow resident and loved ones through hospital admission; visit in hospital | 2 PM – 4:30 PM Review TCC Patietive Care Procedure; suggest improvements | 2 PM -4:30 PM Meet with resident and loved ones bedside |
| | 4:30 PM - 5 PM Debrief day's events with Medical Director | 4:30 PM - 5 PM Debrief day's events with Medical Director | 4:30 PM - 5 PM Debrief day's events with Medical Director | 4:30 PM - 5 PM Debrief day's events with Medical Director | 4:30 PM – 5 PM Debrief day's events with Medica Director |



Coding Schema and Survey Results

STUDENT INTERVIEWS: EXAMPLES FROM CODING SCHEMA

Knowledge & Attitudes Surrounding Interdisciplinary Team Function

·Hierarchy within IDT team Student's own perceived role on team •Knowledge of different team member's roles When team members did not fulfill their roles *Comprehensive care planning conferences

Knowledge of the philosophy of palliative care / hospice

Changes in knowledge of palliative care / hospice services

"Previous misconcentions & attitudes Experiences or people that most contributed to those changes

Learner attitudes surrounding quality of life in nursing home

·Student's own perceived impact on patients'

 Relationships with patients -Companionship and non-abandonment ·Student's own perceived impact on caregiver

·Examples of student advocacy

·Most important experiences

Learner self-reflection

·Coping with overwhelming aspects of internship -Therapeutic value of debriefing Mental health

·Most personally meaningful experiences Impact of experience on future goals

·Change in desire to go into geri. and pall. care Change in respect for caregivers in geri. and pall.

.Change in academic goals Change in career goals . Change in confidence in one's skills

RESIDENT INTERVIEWS: **EXAMPLES FROM CODING SCHEMA**

Role of students in advocacy

•Comments about specific tasks students were able to help with

·Comments about specific tasks students should not be involved with

Individualized relationship

•Comments about sharing interests in activities .Comments about being treated as an individua ·Comments about being able to leave the unit

Perception of students' time

.Comments about role being "just right" .Comments about wanting students to play a bigger role

.Comments about wanting more students

| STUDENT SURVEY | | | | |
|--|-------------|-----------|---------|--|
| RESULTS | | | | |
| [1: need further basic instruction, 2: able to perform with close supervision, 3: able to perform with minimal supervision. 4: able to perform independently) | | | | |
| I am able to Identify psycho-social distress in patients and their loved ones. | 2.3 | 4.0 | +1.8 | |
| I am able to explore patient and loved ones' understanding of illness, concerns, goals, and values that inform the plan of care. | 1.8 | 3.8 | +2.0 | |
| I am able to handle emotion in patients and their loved ones facing serious illness. | 2.0 | 4.0 | +2.0 | |
| I am able to identify patients' and their loved ones' cultural values, beliefs, and practices related to serious illness and end-of-life care. | 1.8 | 3.8 | +2.0 | |
| am able to identify spiritual and existential suffering in patients and families. | 1.8 | 3.5 | +1.8 | |
| I am able to reflect on my own emotional reactions to patients' dying and deaths. | 3.0 | 3.8 | +0.8 | |
| Domain: Attitudes (1: strongly disagree, 2: somewhat disagree, 3: somewhat agree, 4: strongly agree) | | | | |
| It is possible for physicians to tell the truth about a terminal prognosis and for the patient to still maintain hope. | 3.3 | 3.8 | +0.5 | |
| Physicians have a responsibility to help patients at the end of life prepare for death. | 4.0 | 4.0 | 0.0 | |
| Psychological suffering can be as severe as physical suffering. | 4.0 | 4.0 | 0.0 | |
| Domain: Knowledge (1: not knowledgeable, 2: somewhat knowledgeable, 3: som knowledgeable) | ewhat knowl | edgeable, | 4: very | |
| I can describe ethical principles that inform decision- making in serious illness, including the right to forgo or withdraw life-sustaining treatment and the rationale for obtaining a surrogate decision maker | 2.0 | 3.5 | +1.5 | |
| in I can describe the roles of members of an interdisciplinary palliative care team, including rurses, nursing assistants, social workers, case managers, chaptains, dietidans, recreational and occupational therapists, psychologists, administrators, and pharmacists. | 2.3 | 4.0 | +1.8 | |
| I can define the philosophy and role of pallative care across the life cycle and differentiates hospice from pallative care | 1.8 | 4.0 | +2.3 | |

Conclusions

- Students' increased confidence in possessing the knowledge and skills to respond to patients and family members dealing with serious illness positively impacts their future healthcare career
- Protected time for topic-specific training to respond to challenging scenarios and self-reflection / debriefing are essential elements of such an immersive clinical experience
- 3 Students identified the growth of personal relationships with patients and examples of successful student advocacy on behalf of patients as the most meaningful outcomes of this immersive
- Nursing home residents reported that student involvement improved their quality of life during the length of the internship
- Nursing home residents desired more time with students but felt their role was "just right"
- Students' actions towards nursing home residents were most meaningful to residents when they served to "individualize" the patients in the NH

"I sure would [recommend that other residents have students involved in their care]. You learn somethin from the students. You learn a whole lot from them Because [Student]'s a listener." –Nursing Home Resident

Validity and References

Confirmability: The use of a single individual coder (A. Shaw) who had previously been involved as a participant and administrator of the RCSS-TCC internship presents the possibility of investigator bias which could in the future be minimized by utilizing several independent coders to further confirm and refine the coding schema. However, the presence of unexpected conclusions drawn from counted theory outlitative analysis may serve as evidence that

Credibility: The interview transcripts were shown to student participants and students reflected on their Director, reaching similar conclusions as the investigators.

Transferability: This study design could be utilized to study similar pre-clinical educational interventions at nursing homes or healthcare ins care for the seriously ill and would likely yield similar results.

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