

Design, Evaluation, and Feasibility of a Pediatric Mentoring Program **Ruth Chiang**

Abstract

Chronic illness can have a significant impact on a child's psychological and social wellbeing. Although children and their families seem to adapt to chronic health conditions, families seem to adaptic chronic health conditions, epidemiologic studies suggest these same children display twice the prevalence of psychological symptoms when compared to children without a chronic condition. One intervention that may improve a child's psychosocial wellbeing is a buddy program' involving one-on-one mentorships between medical students and children diagnosed with a chronic lithess. Studies suggest that one-on-one mentoring promotes better social, academic, and behavioral outcomes, and some follow-up studies suggest these benefits extend a year or more beyond the end of a youth's perients extent a year or more beyond the end of a youth's participation in a mentoring program. The purpose of this study is to design and evaluate the feasibility of a mentoring program between pediatric chronically ill patients and medical students at the University of Arizona College of Medicine – Phoenix Campus.

Mentoring Program Design

The objectives of the mentoring program are to:

- 1. Provide the pediatric patients with:
 - rovide the pediatric patients with:

 A fliend who provides moral, social, and emotional support and companionship between medical visits.

 A fliend who visits and accompanies them during medical visits at the hospital / folini, provides social support and encouragement during their medical visit, but does not participate directly in their medical care.
- 2. Provide the medical students with:
 - rouse the medical students with:

 An opportunity ogain insight on the personal and family
 impact of a chronic illness by focusing on their friendship
 with a patient, rather than hisher disease process.

 An opportunity to gain exposure to pediatric patients'
 experiences in the hospital / clinic and to develop
 empathy and understanding from these experiences

I used PUBMED and the general search terms "mentoring," "buddy," students," and "healthcare workers" to search iterator gegarding mentoring programs between healthcare workers or students. I designed a tentative program design based on a previous literature review of research regarding design of effective mentoring programs for children.

Potential Participants:

- Male or Female patients of Phoenix Children's Hospital aged 8-17 and diagnosed with a chronic condition. For the purposes of this program, a pediatric chronic condition is defined as a condition that lasts greater than 3 months and affects daily functioning ².
- 2. Parents/guardians of children with a chronic condition
- Medical students enrolled at the University of Arizona College of Medicine Phoenix Campus.

<u>Time Commitment:</u> Students and children in the mentoring program will participate in an initial training session; after training they will meet once a in an initial training session; after training they will meet once a month and contact each other can easier with a session of mail. The estimated time commitment for this program is 4 hours of initial training, 4 hours/month for face-to-faving regementing(s), and 18-30 min/week for communication between pediatric patient's such possible patient's such possible or mail. I will pair students and patients for one year.

Mentoring Program Design

Student/Patient Pairing:
Shared interests and characteristics are reliable predictors of a strong mentor-youth relationship. Additionally, while shared interests help in the formation of a new relationship. demographic similarity (same race, gender) in mentor-youth pairs is not necessary. There is no evidence the same gender mentor-youth pairs from stonger relationships than heterosexual mentor-youth pairs', Consequently, medical students and pediatric patients will be matched by their interests and living proximity, but will not be matched by

Prior to beginning the program, students and patients will fill Prior to beginning the program, students and patients will fill out a survey regarding their interests. Patients will be matched with students who share the same 'top 3' interests. If a patient does not share all 3 interests with any student, 'she will be matched with a student with 2 of the same interests, and so on. If a patient shares the same degree of interests with more than one student, the student who lives closer to the patient. will be matched with the patient.

Activities:
Different patients will have different activity and functional levels, so the medical students will have to discuss meeting locations and activities with their buddles' parents. They may choose to meet at Phoenix Children's Hospital when the child has an appointment, procedure, or hospitalization. They may choose to meet at the family's home, or at a designated community meeting place. Potential needing locations and activities include the Phoenix Zoo, Heard Museum, Diamondback games, parks, arcades, board games, cooking/baking, etc.

Feasibility of Mentoring Program

The objectives of the medical student survey are to:

- 1. Determine current/anticipated medical student involvement in extracurricular activities
- Determine previous experience with chronic illness and pediatric chronic illness
- 3. Determine interest in participating in a pediatric mentoring

Research Method

74 medical students at the University of Arizona - Phoenix /4 medical students at the University of Arizona – Phoenix, participated in this study, Participants were recruited via an email sent through the class listservs. Participation was voluntary and no incentives were offered for participation. Participants included 18 first-year students (24.3% of participants), 22 second-year students (29.7%), 15 third-year students (20.3%), and 19 fourth-year students (25.7%). There were 35 (48.6%) male participants and 37 (51.4%) female

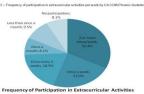
An Extracurricular Activities Survey assessed the current extracurricular commitments of medical students and their interest in joining the mentoring program. The survey included a short description of the mentoring program and estimated a short describton of the mentioning program and estimated time requirements, and collected data regarding demographics (see all school, gender, career choice), current extragardinal cardibles, interest in the mentioning program; it alloss oblicted control of the control of the control of the control of seek. The control of the control of the control of the control of previous programs of the control of the control of the control of seek. The control of the control of the control of seek. The control of the control of the control of seek. The control of the control of seek. The control of the control of seek. The contro

Feasibility of Mentoring Program

Survey administration was via Survey Monkey¹⁰, an online survey website familiar to the students. Participants were recruited via email sent to class listservs. There was a response rate of 44.3% across classes. The fourth year students had the highest response rate at 79.2%, followed by second-year students (45.8%), first-year students (37.5%), and third-year students (31.3%).

Results

Time Spent on Extracurricular Activities



	as how much y				
	Year in Medical Schools				
Answer Options	MSI	MSII	MSIII	MSIV	Total
I am interest	ed in participati	ng in a budd;	y program sci	th a pediatri	io patient.
Strongly Agree	22.2% (4)	22.7% (5)	21.1% (4)	21.1% (4)	23.0% (17)
Agree	22.4% (4)	27.3% (6)	33.3% (3)	42.1% (8)	31.1% (23)
Neutral	38.9% (7)	13.6% (3)	13.3% (2)	10.8% (2)	18.9% (14)
Disagree	11.1% (2)	31.8% (7)	20.0% (3)	26.3% (6)	24.3% (18)
Strongly Disagree	5.6% (1)	4.5% (1)	0.0% (0)	0.0% (0)	2.7% (2)
I feel that the	time commitme	ont for this pri	ogram is reas	renable.	
Strongly Agree	27.8% (0)	9.1% (2)	46.7% (7)	42.1% (8)	29.7% (22)
Agree	61.1% (11)	68.2% (15)	46.7% (7)	42.1% (8)	55.4% (41)
Neutral	11.1% (2)	13.6% (3)	6.7% (D)	15.8% (3)	12.2% (9)
Disagree	0.0% (0)	9.1% (2)	0.0% (0)	0.0% (0)	2.7% (2)
Strongly Disagree	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)

Experiences with Chronic Illness and Pediatric Chronic Illness: Experiences with curronic interest and re-reason Curronic interests. Stoky-hou students answered the following question: "Please describe any previous experience with chronic illness, including experiences with personal illness, silness in the family, previous volunteer and clinic experiences, illness in the family, previous volunteer and clinic experiences, LOE, etc." There were a wide range of responses, including personal and familia malignancies, volunteer work abroad, and patients encountered during clinical rotations. Only two participants replied that they had no experience with chronic illness

Students answered the following question: "Have you had any previous experience with pediatric chronic illness? If yes, please describe briefly." There were a wide range of responses, including AIDS work in Africa, raising children or siblings with chronic illnesses, patients seen on clinical rotations, and personal childhood illnesses. 39 (52.7%)

Discussion:

The aim of this survey was to assess the feasibility of the mentoring program by (1) determining if there was medical student interest in implementing the mentoring program, and (2) determining whether the time commitment for the mentoring program was reasonable for medical students.

Fifty-four percent of the survey participants were interested in the mentoring program. The seventeen students in the "strongly agree" category were well-dispersed among classes, suggesting that the program would be sustainable if implemented.

The proposed mentoring program would require about 6 hours a month, averaging to 1.5 hours a week, According to our survey, 64 (86.5%) participants felt that this time commitment was reasonable. In fact, 47 (63.5%) students were already participating in extracurricular activities for more than 2 hours a week. In addition, 41 (55.4%) students were participating in extracurricular activities once a week or more

Not surprisingly, it would be difficult for students in their third year to participate in this program. Twenty-six percent of third-year students reported no participation in extracurricular activities, and sixty per less than 2 hours of participation a week. While the mentoring program will have to compete with other extracurricular activities for student time, this survey shows that students during their basis science and fourth years do have enough time for extracurricular activities to participate in this program.

Conclusion:
The results of the survey are encouraging for the feasibility of implementing the mentoring program. The survey suggests that there is enough student interest to start a pilot program. that there is enough student interest to start a pinot program with a group of 10 or less students. Ideal participants would be students in their first or second years of medical school, as they have less experience with chronic illness. Whus, more to leam) and more time for extracurricular activities during this stage of their training. This program could potentially fill a training gap for medical students in the area of pediatric chronic illness, while providing pediatric patients with a unique source of friendship and support.

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