The PedsCases Legacy Project: An example of a longitudinal, collaborative curriculum in medical education

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Background

• The UCSF Health Profession Education (HPE) Pathway is an optional medical education curriculum for MS4s, residents and fellows that includes a year-long legacy project
• For their legacy projects, three MS4s in two academic years have developed the PedsCases Elective - a series of nine clinical pediatrics cases for MS1s and MS2s that integrate into the Education in Pediatrics Across the Continuum (EPAC) AAMC pilot project
• This collaborative longitudinal legacy work is an example of what can be accomplished in a medical education curriculum

Objectives

Through completion of a Health Profession Education legacy project, MS4 learners:
• Demonstrate skills of curriculum development, delivery and dissemination
• Collaboratively develop a novel longitudinal pediatric curriculum for MS1 and MS2s

Needs Assessment to Identify Topics

1. Pediatric Emergency Medicine
2. Congenital Heart Disease
3. Cystic Fibrosis
4. Pediatric Kidney Disease and Lab Workup
5. Infant Nutrition and Communicating about Chronic Diseases
6. Child and Adolescent Depression
7. Neonatal Hepatitis C Exposure
8. Infantile Anemia and Clinical Reasoning
9. Toddler Development and Problem Lists

Distribution of Learner Assessments

<table>
<thead>
<tr>
<th>Bloom’s Taxonomy Level</th>
<th>Knowledge</th>
<th>Comprehension</th>
<th>Application</th>
<th>Analysis</th>
<th>Synthesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage</td>
<td>29%</td>
<td>33%</td>
<td>29%</td>
<td>5%</td>
<td>5%</td>
</tr>
</tbody>
</table>

Sample Curriculum Products

Conducting Program Evaluation

How well did the MS1 PedsCases reinforce principles from the core curriculum?

- Extremely 19%
- Somewhat 33%
- Very 48%
- Slightly 0%
- Not at all 0%

Educational Strategies

• Readings
• Lectures
• Audiovisual materials
• Discussion
• Reflection
• Small group learning
• Problem-based learning
• Role models
• Role plays
• Simulation

Disseminating Scholarship

• Two novel curricula
• 2014 UCSF Dean’s Prize for HPE Legacy Project
• Three posters in local and regional educational conferences
• Nine abstracts accepted in peer-reviewed contexts
• Planned dissemination through MedEdPORTAL

Methods

HPE Learner 1
2013-2014
• Develop MS1 PedsCases curriculum
• Initiate MS1 satisfaction-based program evaluation

HPE Learner 2, 2014-2015
• Revise MS1 PedsCases curriculum
• Develop MS2 peer-teacher component
• Expand MS1 program evaluation to include knowledge and communication skills assessment with comparison group

Collaborative Dissemination (other institutions, specialties)

HPE Learner 3, 2014-2015
• Develop MS2 PedsCases curriculum
• Continue MS2 satisfaction-based program evaluation

Discussion

• The PedsCases Legacy Project serves as an individualized, longitudinal curriculum in medical education for three MS4 learners, allowing refinement of medical education skills and creation of two novel pediatrics programs for junior learners
• Future steps include formal evaluation of the legacy project component of the HPE pathway
• Application of this work could include encouraging a collaborative, longitudinal model of legacy projects for future UCSF learners or introduction of a medical education legacy project at other institutions

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