Beyond Skin Deep: Case-based Online Learning Modules to Teach Multidisciplinary Care in Dermatology among Clerkship Students

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Identify Problem
- Among 37 clerkship medical students surveyed, 14% perceived that the one-week pre-clerkship dermatology education received was sufficient. Further, 3% of students felt comfortable seeing patients with skin conditions in clinical settings.

- Only 29% of all undergraduate dermatology directors think the dermatology education provided at their school is adequate.1

Measurement Plan
- Process Measures
  - Number of modules developed
  - Disciplines covered
  - Number of students who completed the surveys

- Outcome Measures
  - Understanding of multidisciplinary care
  - Enhancement of dermatology knowledge
  - Overall narrative feedback
  - Feedback regarding the format of the modules

- Balancing Measures
  - Length of time to complete the modules

Target Goal
- To enhance dermatology knowledge and improve the understanding of multidisciplinary care in dermatology among clerkship students through the development of case-based online modules.

Implement Change
- 10 online dermatology modules (with step-wise progression through a case and 8-10 interactive multiple-choice questions) were developed that emphasize multidisciplinary care in dermatology for patients with different socioeconomic status and skin color.

- Modules links and post-modules surveys were sent out to 300 clerkship medical students in January 2021.

Selected Outcome

- Process Measures
  - Number of modules developed
  - Disciplines covered
  - Number of students who completed the surveys

- Understanding of multidisciplinary care

- Enhancement of dermatology knowledge

- Feedback regarding the format of the modules

- Overall narrative feedback

Narrative Feedback:
- “Easy to follow, content is clear and concise. I like how the answer explanations were thorough and direct”
- “This module will help me to be a more well-rounded physician in the future as I would like to do Rural Family Medicine.”

Conclusion
- Case-based online modules are an educational tool that meets students’ learning style, and students felt case-based online modules enhanced their dermatology knowledge.

- Case-based online modules are an accessible tool to help students understand the multidisciplinary care in dermatology.

Next Steps
- Recruit more participants and conduct focus group.
- Enhance and develop more modules based on the feedback received.
- Modules have been extended to UBC MD students for more feedback.