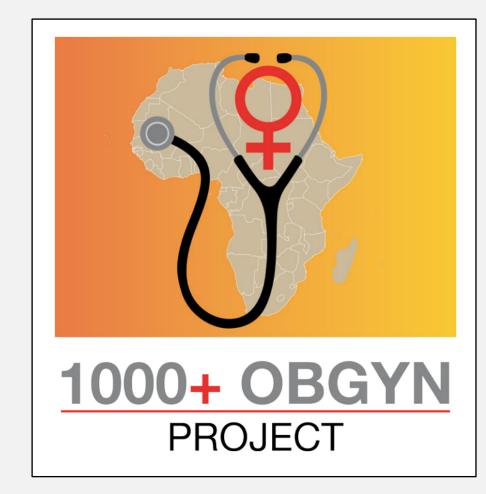
Developing and deploying free, adaptable digital learning resources to enhance postgraduate curricula partnerships in sub-Saharan Africa

Anderson, FW, MD, MPH;¹ Omollo, KL, MPP, MSI;¹ Curran, D, MD;¹ GK Rana, MLIS;² Dascola, DS;¹ Riddle, BD;¹ Mouton A, MPH, MPP;¹ Brady, RM, MD;³ Wolfe, D. MD⁴

¹University of Michigan Medical School, ²University of Michigan Taubman Health Sciences Library, St. ³Joseph's Hospital and Medical Center, ⁴Albert Einstein College of Medicine

Background

The 1000+ OBGYNs in Africa project launched in 2012 with the goal of training 1,000 new residents in obstetrics and gynecology in sub-Saharan Africa by 2025. The project resulted in the creation of a network with 30+ institutions, a mix of African and U.S. universities and professional societies.



Challenge

A qualitative analysis of the survey and interviews at the member meetings in 2012 and 2014 revealed that access to affordable, relevant, and up to date research and instructional material was a significant barrier to instructors and learners in OBGYN residency programs.

Methods: Part 1

The 2012 meeting was recorded, transcribed, and formatted into formal proceedings.

At a 2014 meeting, members identified 14 "hot topics" or priority areas for the curriculum.

Of these topics, members selected one to create a full course. This course was created with original content and delivered in June 2014 as 1-week instructor-facilitated free online course restricted to network members only.

Methods: Part 2

For the remaining 13 hot topics, a curriculum team of 4 OBGYN faculty and 3 information resources specialists identified key terms for each of the topics and selected 10-15 free websites to search for each topic. The sources searched were a mixture of professional associations identified by **OBGYN** faculty, Creative Commons-licensed health collections previously curated by the Open.Michigan Initiative, and open access databases previously curated by the Taubman Health Sciences Library. The team reviewed the search results for relevance, for audience fit, for free, public access, and for copyright permissions.

1. Instructors identify priority topics
2. Create, locate, and aggregate relevant learning materials
3. Review by subject matter experts
1
4. Review for copyright and technical formatting
1
5. Promote the new resources across & beyond the network

Following the completion of the hot topics, members requested additional materials aligned with common competencies across the varying curricula. The curriculum team selected the ACGME Milestones for OBGYN as the framework.

Due to Internet connectivity costs and unreliability, the member institutions in Africa requested offline access in parallel. The curriculum team partnered with the Global Library of Women's Medicine (GLOWM) to include all 4 collections in a special edition of GLOWM's offline compressed USB drives distributed through their Ambassador Program.

Results

Four new collections have been created:

- 1. A book of conference proceedings from 2012
- 2. An online course
- 3. A collection of resources for13 hot topics
- 4. A collection of resources for 25 milestones.

	home > find > medical > 1000+ obgyn project > selected free learning materials for obgyn residency programs - by milestone > communication with physicians and other health professionals and teamwork > materials >			
all academic units	Communication with Physicians and Other Health			
medical	Professionals and Teamwork			
1000+ obgyn project	Professionals and realitiwork			
 selected free learning materials for obgyn residency programs - by hot topic 	УTweet 0 G+1 0			
> selected free learning materials for obgyn residency programs - by milestone	Overview Materials			
foundational cross- curriculum texts	Term: Published: December 6, 2014 Revised: September 15, 2015			
abdominal-pelvic pain	Miscellaneous	10	000+ OBGY	/N
abnormal uterine bleeding	Supplemental Readings		PROJECT	
accountability and responsiveness to the needs of patients society and the profession	Keywords: communication gynecology interprofessionalism multiprofessionalism OBGYN obstetrics professionalism science team training working in teams	_		
ambulatory gynecology - patient care	Miscellaneous			Back t
antepartum care and complications of pregnancy	Document Title	Creator	Download	License
care of patients in the intrapartum period	Download Folder for Collection, from Box.com - This includes		_	200
care of patients in the postpartum period	everything with open licenses. It does not include the materials that are all rights reserved.	Author varies by material	₫	0©0
communication with patients and families	Supplemental Readings			Back to
communication with physicians and other health professionals and teamwork	Document Title	Creator	Download	License
compassion integrity and respect for others	An Interactive Workshop to Increase Resident Readiness to Perform Patient Hand-offs. MedEdPORTAL. (2012)	Michael Aylward	ਔ	•
cost-effective care and patient advocacy	COMFORT-IPE: Communication training for Interprofessional Patient-centered Care. MedEdPORTAL. (2012)	E. Wittenberg-Lyles et al.	ď	(1)(\$)(3)
family planning	Faculty Development Interprofessional Education Curriculum			
first trimester bleeding gynecology technical skills -	(IPEC): Case-Based Learning of IPE via a Complicated	S. Griswold et al.	자	() (\$)(=)
laparotomy	Newborn Resuscitation: Baby Boy Blue. MedEdPORTAL Publications. (2014)			
gynecology technical skills - vaginal surgery	Lisable Com Tanas Obellanas A Marchilla Madel (as	B. Richardson		
health care maintenance	Health Care Team Challenge: A Versatile Model for Interprofessional Education. MedEdPORTAL Publications.	M. Gersh	♂	®
and disease prevention immediate care of the	(2012)	N. Potter	•	
newborn	I-PASS Handoff Curriculum: Core Resident Workshop.	N Spector et al		(1) (\$)(3)
obstetrical technical skills	MedEdPORTAL. (2012)	N. Spector et al.	™"	
patient safety and systems approach to medical errors	Improving Interdisciplinary Collaboration in First-year Health Professional Students through Learner-Developed and	P. Colley et al.	₽ ₽	•
pelvic floor disorders	Learner-Driven IPE Curriculum. MedEdPORTAL. (2012)	, 	_	-

All materials are publicly available, free and licensed for students, teachers and practitioners to copy and modify to suit their curricular context within their institutions.

The collections have been shared via the Open.Michigan website. To date, the collection page has received 2507 unique pageviews, the book 115, the online course 149, the hot topics 249, and the milestones 1655. The proceedings book is also available for purchase for print on demand via Amazon.com, where it has sold 17 copies to consumers. From the online course, the collection of 15 videos (79 total minutes) has received 915 YouTube views to date.

The GLOWM compressed USB drives were distributed to 18 African institutions with 32GB total of digital content. These 4 new collections represented half the content.

Key Lessons

- 1. We were able to effectively draw upon existing free and openly licensed educational resources from Michigan, Ghana, Ethiopia, and elsewhere and curate them for a learner audience of OBGYN residents.
- 2. Review by subject matter experts was essential to determine the quality, audience fit, and categorization.
- 3. Review by information resources specialists was essential for copyright permissions, for file organization, and for appropriate metadata for browsing and searching such a large collection.
- 4. Via strategic partnerships with established brands of Open.Michigan and GLOWM, we increased the visibility of, access to, use of the four collections, online and offline.

Future Applications

A second book with the proceedings from 2014 is in progress. A third meeting for 1000+ OBGYNs network members is planned for October 2015. This meeting will be an opportunity to gather feedback on the existing collections. Discussions are in progress with new emerging maternal and reproductive health networks in Ethiopia and East Timor about adapting or adding to the collections to support their own training programs.