

Procedural Training for Family Medicine Residents Interested in Global Health

Presenter: Sara Foster Fabiano, MD

Authors: Sara Foster Fabiano, MD and Daniel Kortsch, MD



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Learning Objectives

1. Discuss a list of procedures which could be valuable for FM residents planning to work in low resource global health settings.
2. Gain feedback and consensus opinion on the proposed list of procedures for FM residents wishing to be involved in global family medicine.
3. Discuss next steps for procedural training in global health curriculums.

Why does it matter?

- Growing numbers of providers are interested in global health (Haq, et al)
- Often this means working in underserved and low resource settings.
- Depending on location of training - exposure to certain aspects and procedures are not always encompassed - many providers will find themselves challenged in low resource settings (Haq, et al)



Who are we talking about?

- Residents trained in the United States
- Residents who are interested in working in low resource settings

In other words....What procedures should we teach them?



Completed Work...

1. Local discussion with faculty and residents
2. Literature review
3. Review of list by clinicians involved in global healthcare settings and training to begin to gain feedback



How did we organize the expectations?

Normal

Setting expectations for all residents who complete our curriculum

Advanced

Guiding those with specific interests or expected needs.

Organized
into
curricular
components

	Basic Training: Generally applicable and broadly useful.	Advanced Training: Requires higher level of training and/or technology
Anesthesia	Topical anesthesia Local anesthesia/field block	Peripheral nerve block Conscious sedation
Dental	Tooth Extractions Temporary Fillings Dental peripheral nerve block	
Gastrointestinal & Colorectal	Anoscopy Excision of thrombosed hemorrhoid Nasogastric tube Fecal disimpaction	Flexible sigmoidoscopy or colonoscopy Incision and drainage of perirectal abscess
Genitourinary	Newborn circumcision Bladder catheterization	Vasectomy Adult circumcision
Laboratory	KOH (skin and vaginal) ECG electrode placement Urine microscopic analysis Peripheral smear evaluation (malaria, etc) Urine dipstick analysis	Gram Stain Fine needle aspiration of superficial masses & lymphatics
Life support courses	Advanced Cardiac Life Support, Neonatal Resuscitation Program, Pediatric Advanced Life Support, Advanced Life Support in Obstetrics	Advanced Trauma Life Support, Comprehensive Advanced Life Support
Musculoskeletal	Initial management of simple fractures Closed reduction Upper and lower extremity splints Injection & aspiration of knee, shoulder, troch. bursa, trigger fingers, trigger points Reduction of shoulder dislocation Reduction of nursemaid's elbow	Upper and lower extremity casts
Pregnancy care	Spontaneous vaginal delivery Amniotomy Fetal monitoring Fetal scalp electrode Labor induction/augmentation 1st-3rd degree vaginal laceration repair	Assisted vaginal delivery Cesarian section Intrauterine pressure catheter and amniocentesis 4th degree vaginal laceration repair
Skin	Biopsies (punch, excisional) Cryosurgery Remove warts, fingernail, toenail, foreign body Incision and drainage of abscess Advanced Cardiac Life Support, Neonatal Resuscitation Program, Pediatric Advanced Life Support, Advanced Life Support in Obstetrics Remove corn/callous Drain subungual hematoma Skin staples Laceration repair with tissue glues Skin tag removal	Skin grafts

Ultrasound	Basic prenatal ultrasound: Amniotic Fluid Index, fetal presentation, placental location	Advanced prenatal ultrasound: Dating, Anatomic survey
	Cholesystitis	Cardiac evaluation
Urgent & hospital care	Ultrasound guidance for central vascular access, paracentesis, thoracentesis	Abdominal trauma evaluation
		Renal evaluation
	Fluorescein exam	Slit lamp exam
	Foreign body removal	Endotracheal intubation
	Anterior nasal packing for epistaxis	Thoracentesis
	Lumbar puncture	Paracentesis
	Fine needle aspiration of mass	Cardiac Stress Testing
	Foreign body removal	Central venous catheter
	Ring removal	Venous cutdown
	Arterial line	Pediatric umbilical vascular access
	Pediatric vascular access: Peripheral & intraosseous	
	Fish hook removal	
	Phlebotomy	
	Peripheral venous access	
	IM injections and vaccinations	
Women's health	Pap smear	Paracervical block
	Intrauterine device insertion/removal	Endometrial biopsy
	Wet mount, KOH	Bartholin's cyst management
	IUD placement & removal	Colposcopy
	Vulvar biopsy	Cervical cryotherapy
	Cervical dilation	Uterine aspiration/dilation and curettage
	Fine needle aspiration of breast	

To Get Your Thoughts Flowing...

- Needs to have more of an emphasis on items unique to global settings.
- Blood smear interpretation (malaria, trypanosomes, etc), stool O+P interpretation, peri-tonsillar abscess drainage, emergency symphysiotomy for obstructed labor...
- Look to your DALYs (disability adjusted life years) - focus on procedures and training that will help to reduce the burden of DALYs.
- More of a surgical approach - suprapubic cystostomy under local, management of open fracture to include debridement, hemostasis and external fixator application (again going back to DALYs), C-section



Survey Questions

1. Is it appropriate to apply consensus opinion as we begin to define this curriculum?
2. Is the “normal” and “advanced” structure appropriate?
3. Are the broad curriculum categories (anesthesia, dental, etc.) useful & complete?
4. Are the “normal” procedures appropriate?
5. Are the “advanced” procedures appropriate?
6. How would you like to see the results of this discussion disseminated?
7. Consider sharing your name & contact info



**Share
your
thoughts
with us!**

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UCFMRP Global & Undeserved Health Curriculum:
Useful procedures for family physicians working in low-resource settings

This list was created to guide FM resident procedural training, it is not mandatory but can help guide elective options. For questions contact daniel.kortsch@dhha.org

	Basic Training: Generally applicable and broadly useful.	Advanced Training: Requires higher level of training and/or technology
Anesthesia	Topical anesthesia Local anesthesia/field block	Peripheral nerve block Conscious sedation
Dental	Tooth Extractions Temporary Fillings Dental peripheral nerve block	
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Urgent & hospital care	Fluorescein exam Foreign body removal Anterior nasal packing for epistaxis Lumbar puncture Fine needle aspiration of mass Foreign body removal Ring removal Arterial line Pediatric vascular access: Peripheral & intraosseus Fish hook removal Phlebotomy Peripheral venous access IM injections and vaccinations	Slit lamp exam Endotracheal intubation Thoracentesis Paracentesis Cardiac Stress Testing Central venous catheter Venous cutdown Pediatric umbilical vascular access
Women’s health	Pap smear Intrauterine device insertion/removal Wet mount, KOH IUD placement & removal Vulvar biopsy Cervical dilation Fine needle aspiration of breast	Paracervical block Endometrial biopsy Bartholin’s cyst management Colposcopy Cervical cryotherapy Uterine aspiration/dilation and curettage