

# Global Health Activities 2020-2021

**Anthony Kovac MD**  
**Department of Anesthesiology**  
**KUMC**

# PERU



# Cooperative Agreements for Exchange of Education, Research and Culture Between KU and Hospitals in Lima, Peru

- Instituto Nacional de Enfermedades Neoplasicas (INEN)
- Instituto Nacioinal de Salud del Ninos San Borja (INSNSB)
- Instituto Nacional Materno Perinatal







Lima, Peru



# Dr. Juan Urquizo





# GHANA



# Kumasi, Ghana





# Cooperative Agreement for Exchange of Education, Research and Culture Between KU and KATH



- Meeting with Dr Oheneba Danso, CEO
- Komfo Anokye Teaching Hospital (KATH)
- Kumasi, Ghana



# Kovac's Global Health Timeline 2020 - 2021

- March 2020 Return from Lima, Peru
- March 2020 – May 2021 networking with contacts in Peru and Ghana
- June 2020 INMED virtual meeting, poster presentation
- January 2021 INMED start Masters International Health courses
- March 2021 CUGH virtual meeting, poster presentation
- April 2021 KU OIP, Global Perspectives virtual presentation
- April 2021 KU Anesthesiology Dept., virtual 70<sup>th</sup> annual Symposium
- June 2021 INMED virtual/in person meeting, Kansas City, MO

# Multiple Communications About Covid19

March 2020 to present



# Use Of Herbal Medications In A Pain Clinic At The National Cancer Institute (INEN) Lima, Peru

Abigail Pinto, BSN, CCRN, SRNA<sup>1</sup>; Malena Echelin, MD<sup>2</sup>; Anthony Kovac, MD<sup>1</sup>

<sup>1</sup>Department of Anesthesiology, University of Kansas Medical Center, Kansas City, Kansas

<sup>2</sup>Pain Clinic, Instituto Nacional de Enfermedades Neoplasicas (INEN), Lima, Peru

## BACKGROUND

- Herbal medications have long been used as treatments for human illnesses.
- These treatments are increasing as insurance companies have provided reimbursement for them [1].
- In the United States, herbal medications are considered supplements by the Food and Drug Administration and are not regulated or tested to determine safety and efficacy.
- Anesthesia providers should be cognizant of potential interactions between herbal medications and pharmaceutical pain treatments to avoid negative outcomes.

## PURPOSE/AIMS/HYPOTHESIS

- Insert a sentence summarizing the purpose or objective of the study.

## METHODS

- A stratified sample of INEN patients who had been diagnosed with various types of cancer and were seeking pain control interventions at the pain clinic were invited to participate.
- Information about interactions between herbal medications and pain treatments were shared with Pain Clinic staff.
- After their visit with physicians about their treatment, the patients would receive further instructions from nurses who would answer questions and educate patients on using the pain medications.
- After their interaction with the nurses, patients were recruited to the herbal medication study, in which they were interviewed about their use of herbal medications.
- Patient gender, age, city in which they lived, cancer diagnosis, herbs used, and how they used each herb was recorded.
- A list of common herbal medications was compiled.
- Pharmacologic and safety information about these herbal medications were gathered and analyzed.

## RESULTS

Number of Different Herbs Used by Each Patient

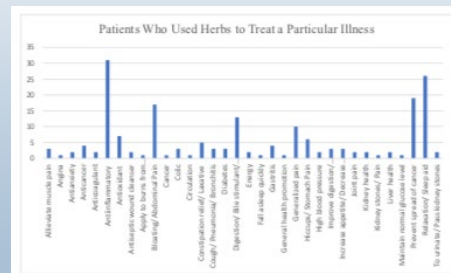
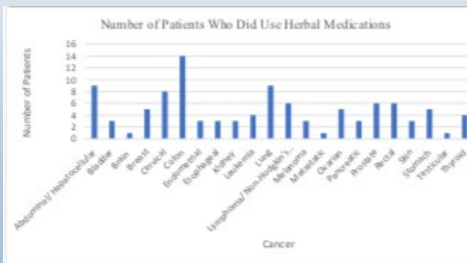
Amount of Herbs	Patients (n)
1	25
2	24
3	16
4	10
5	1
6	3

Method of Use

Method of Use	Patients (n)
Bath	1
Chew	11
Eat	26
Inhale/Smoke	6
Sublingual	1
Tea	141
Syrup	4
Topical	13

Herbal/ medicinal plant and he number of patients who use it

Ahote/ Marrubium vulgare/ white herb	2	Matico	2
Albahaca/ Basil	1	Mate de Coca	1
Akachafo/ Artichokes	2	Min/ Mentha	1
Aloe Vera	8	Moringa	4
Anise/ Fennel	20	Muña	10
Hercampuri	1	Noni	2
Ballarina/ Ballerina	5	Oregano	4
Sangre de Grado/ Blood of Dragon	2	Papalo	3
Boldo	3	Papaya	2
Cac hop/ Hibiscus	1	Pasuchaca	1
Cannabis	6	Perejil/ Parsley	1
Cedron	2	Pinapple Juice/ Jugo de Pina	1
Cinnamon	1	Pitahaya	1
Cordoncillo negro	1	Plante de Vida	3
Curcuma/ Turmeric	2	Pollas/ Pumilum	1
Dente de lion	2	Pollo de cola de caballo	1
Eucalyptus	2	Quilon	1
Garlic	1	Romero/ Rosemary	5
Achiote/ Annato	1	Sage	4
Hierba Luisa/ Vervain	5	Serenoa repens/ Saw Palmetto	1
Hoja de guanabana	24	Seta/ Horsetail/ Equisetum	2
Hoja de Llantén	10	Spirulina	1
La Malba/ Malva	1	Tilo	1
Lavender	1	Vanilla	1
Lemon	1	Yerba Buena/ Spearmint	2
Manzanilla	27		



## RESULTS

- 100 cancer patients participated in interviews.
- 80 patients used herbs: 52 females and 28 males.
- 20 patients did not use herbs: 13 females and 7 males.
- Average age of patient group: 59 years old.
- Age range of patients who most admitted to using herbs : 60-65 years.
- Region of patients with the most herbal use: 1. Lima, Peru; 2. Callao, Peru
- Regions with least herbal use: 1. Barranco, Peru; 2. San Antonio, Peru.
- Most common cancer diagnosis for herbal use: 1. Colon Cancer (14 patients); 2. Abdominal/ hepatocellular cancer.
- Most reported herbal used: 1. Manzanilla (Asteraceae); 2. Hoja de Guanabana (*Annona muricata*).

## DISCUSSION

- 80% of participants reported using herbs, supporting the assumption of frequent use of herbs by patients at INEN.
- Results support other studies showing common use of herbal medications.
- There is no established integration of herbs into current pain management practices in Peru due to lack of knowledge of herbs, their use, and their efficacy.
- Due to geographical limitations, some patients don't have access to pharmaceuticals.
- Providers should be aware of these medications so that discussion regarding herbal use can be included in the preoperative interview.
- Increased knowledge of herbs and their interactions in the perioperative period, such as their sympathomimetic, sedative, and coagulopathic effects, is essential for providers to mitigate potential adverse events [2, 3].

## CONCLUSION

- Despite the popularity of herbal use, little is known about herbal interactions with currently prescribed pain control and anesthesia regimens.
- This list of most used herbs can be further investigated and developed into a database integrated into the care of the patient.

## REFERENCES

- Kaye A, Kucera I, Sabar R. *Anesthesiol Clin North Am*. 2004;22(1):125-139.
- Tsuchiya H. *Molecules*. 2017;22(8):1369.
- Wong A, Townley S. *Continuing Education in Anesthesia Critical Care & Pain*. 2011;11(1):14-17.

# Use of Herbals in Chronic Pain Patients at the National Cancer Institute, Lima, Peru

- 80% of participants reported using herbals, supporting the assumption of frequent use of herbals by patients at INEN.
- Herbal use: 25% = 1; 24% = 2
- Results support other studies showing common use of herbal medications.
- There is no established integration of herbals into current pain management practices in Peru.



# Development and Evaluation of International Rotations for Education, Research, and Culture as Cooperative Bidirectional People-to-People Exchanges

A. Kovac MD,<sup>1</sup> A. Hermanson MD,<sup>1</sup> K. Connelly MAT<sup>2</sup>

<sup>1</sup>Department of Anesthesiology, <sup>2</sup>Office of International Programs, University of Kansas Medical Center, Kansas City, Kansas

## BACKGROUND

- The number of students, residents and faculty at our institution who have participated in an international education and teaching experience (IEE) has grown.
- Since 2016, a bidirectional international program has evolved for observation & exchange of education, research & culture of anesthesiology, nurse anesthesia, nursing & emergency medicine between our institution and partners in Ghana and Peru.

## METHODS

- Evaluation of IEEs by past participants via anonymous online survey.

## FINDINGS

- 38 participated in our study (11 anesthesia residents and 8 medical, 6 nursing, 6 respiratory care and 7 nurse anesthesia students).
- 23 traveled to or from Ghana; 15 to or from Peru.
- 17/38 (45%) completed the online survey.
- On 1 to 10 scale (10 = highest), all rated their experience 9 or higher. Scores on prior knowledge of country visited averaged 5/10.
- All indicated positive experiences and would recommend to others.
- 80% indicated foreign language skill improvement.
- Optimal IEE length: 4 (80%), 3 (14%) & 2 weeks (6%)
- Positive aspects included cultural immersion, relationships, exchange of ideas, learning new medical systems, and host family.
- Negative aspects included short observer period, sickness, language barrier, lack of hands-on care, climate, lack of structure, and difficulty adapting.



**Figure 1:** Dr. Anthony Kovac and participants of an airway course taught at Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana, in November 2018.



**Figure 2:** Dr. Anthony Kovac and Dr. Juan Urquiza (back row) with anesthesia residents at the Instituto Nacional de Enfermedades Neoplásicas (INEN, National Peru Cancer Hospital) Lima, Peru, in September 2015.



**Figure 3:** Drs. Anthony Kovac and Hilary Sheridan giving donated airway supplies to the head nurse at Komfo Anokye Teaching Hospital (KATH), Kumasi, Ghana in September 2019.



**Figure 4:** Anesthesia resident Dr. Hilary Sheridan and nurse anesthesia students Halie Owen and Lindsey Bagby lead an airway workshop for an EMT review course for the Ghana Ambulance Service, Accra, Ghana, in September 2019.

## FINDINGS

- Lessons learned included healthcare delivery outside USA, inspiration, happiness as choice/state of mind, change of approach to people/patients, use of education to impact more providers/patients, and learning from providers/patients.
- Overall IEE ratings ranged from meeting to far exceeding expectations.
- Participants indicated experiencing more cultural aspects than expected.
- 60% of residents, 30% of medical students and 15% of nurse anesthesia students felt the IEE could be improved.
- Suggestions included clear objectives, cooperative research, teaching, and increased time available for the experience.
- Students and residents from USA, Peru and Ghana stated that the bidirectional IEE was valuable for their clinical training and changed how they approach patient care.

## CONCLUSIONS

- Bidirectional, interprofessional and educational IEEs result in increased understanding of cultural differences and allow better cooperation and collaboration.
- Success and sustainability of cooperative agreements for international partnerships depend on regular communication and a key contact person in each country.

# Development and Evaluation of International Rotations in Peru and Ghana for medical students, nurse anesthesia students and anesthesiology residents

- Bidirectional, interprofessional and educational experiences result in increased understanding of cultural differences and allow better cooperation and collaboration.
- Success and sustainability of cooperative agreements for international partnerships depend on regular communication and a key contact person in each country.



# Humanitarian Health Virtual Conference, June 2020



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## 2021 Humanitarian Health Conference

*In-Person and Online Registration Options Will Be Available!*

**Save the Date** for June 11 – 12, 2021

{Friday and Saturday}

Pre-Conference Courses: June 10, 2021 {Thursday}

**Where:** Graceway, [5460 Blue Ridge Cutoff, Raytown, MO 64133](#)  
and/or Online

**View conference trailer [here](#).**

**The 2021 Humanitarian Health Conference** is an educational event

to equip healthcare professionals and students to provide excellent and appropriate care to the world's most marginalized people. Breakout sessions will focus on community health, patient care, and career development. In-person attendees can also participate in hands-on skill learning sessions. Participants will also connect with organizations with whom they can serve. *Please note: We are continuing to monitor the current public health status to see if a transition to a virtual-only event will become necessary.*

### NEWS & EVENTS

View Past and Current Issues of  
*INMED News & Events*

*Offering International Electives in Int'l  
Medicine, Nursing & Public Health*

*Humanitarian Health Conference  
Professional Certificate Courses in  
Int'l Medicine, Nursing, Public Health*



*Learn where you can go, and how you  
can be a part of changing lives.*

May 7, 2021  
Are You Contagious?  
You may benefit from being exposed!

April 23, 2021  
What Is Better Than Delivering  
Newborns?  
Bring on the bright smiles!

Updated Weekly  
Read Dr. Nick's Blog  
Nicholas Comminellis, MD, MPH

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# March 12 – 14, 2021

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## CUGH's 12th Annual Global Health Conference (Virtual)

MAR

12 - 14

📅 Friday, March 12, 2021 - Sunday, March 14, 2021

📍 Virtual

[See All Events](#)

# January 2021



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My Courses



Anthony Kovac



Anthony Kovac  
[Edit profile](#)

<b>6</b>	<b>3</b>	<b>0</b>	<b>100</b>
Courses	Completed	Certificates	Points

## Your Courses



Master's Degree in International Health (MIH)



Professional Certificate Course in Epidemiology



2020 Humanitarian Health Conference (HHC) June 12 Virtual Event



Professional Certificate Course in Helping Babies Breathe (HBB)



Professional Certificate Course in International Medicine & Public Health





# Helping Babies Breathe

*a global educational program  
in neonatal resuscitation*



Chinbua et al. *BMC Health Services Research* (2020) 20:739  
<https://doi.org/10.1186/s12913-020-05225-2>

BMC Health Services Research

## RESEARCH ARTICLE

## Open Access

Scaling up Ghana's national newborn care initiative: integrating 'helping babies breathe' (HBB), 'essential care for every baby' (ECEB), and newborn 'infection prevention' (IP) trainings

Margaret Amanua Chinbua<sup>1†</sup>, Mira Taylor<sup>1,2†</sup>, Magdalena Serpa<sup>3,4</sup>, Goldy Mazia<sup>3,5</sup>, Patience Korkor Cofie<sup>1</sup>, Williams Kwarah<sup>1</sup>, Suzanne Dawson<sup>3</sup>, Brett D. Nelson<sup>6,7</sup> and Cyril Engmann<sup>3,8</sup>



# Helping Babies Breathe

flip chart/simulator/learner workbook



# Helping Babies Breathe

pair learning/teaching



# Foundations of Global Health Presentation

## April 15, 2021

[Oipevents] Upcoming Events April 12-16, 2021



Oipevents <oipevents-bounces@listserv.kumc.edu> on behalf of Alexa Smith <asmith5@kumc.edu>  
To

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Mon 4/12/2021 12:31



KUMCIO Masks.pdf  
159 KB



ATT00001.txt  
486 bytes

Dear Members of the KUMC/TUKHS, KC, and greater community,

Announcing this week's upcoming events.

Please register on the [OIP Events Calendar](#) for the connection information. Facebook Live @kumcoip will also be available.

### **KUMC Community Conversations—Turning the Page | 12:00–12:50 p.m.**

- Systemic racism has a major impact on health disparities in America. Join us for discussions on the book, *Why Are All the Black Kids Sitting Together in the Cafeteria?*, by Dr. Beverly Daniel Tatum.
- Tuesday, April 13 | Chapters 6–7
- Tuesday, May 11 | Chapters 8–10

### **Foundations of Global Health**

- Foundations of Global Health “International Exchange between Peru, Ghana and the USA” by Dr. Anthony Kovac, KUMC Professor of Anesthesiology
- Thursday, April 15 | 12:00–12:45 p.m.

# OIP Foundations of Global Health

## April 15, 2021 Presentation

- **Virtual ZOOM Participants**
- Total = 42
- KUMC = 21
- KATH, Kumasi, Ghana = 21





# 70<sup>th</sup> Annual Postgraduate Symposium on Anesthesiology

Friday April 23 and Friday April 30, 2021:  
Point-of-Care Ultrasound Workshop (with Virtual Reality Session)

Saturday May 1, 2021:  
Online Symposium

\*Virtual Event



7:15 a.m.	Orientation Screen and Audio Check Exhibits and Research Posters	11:40 a.m.	Safety in the OR: Complexity and Normal Accidents <i>Laureen Hill, M.D., M.B.A.</i>
7:45 a.m.	Welcome and Introductions <i>Talal Khan, M.D., M.B.A. and Usman Latif, M.D., M.B.A.</i>	12:05 p.m.	Q&A
8:00 a.m.	Difficult Airways in Pediatric Patients <i>Katherine Stiles, M.D.</i>	12:20 p.m.	Lunch Exhibits and Research Posters
8:20 a.m.	Learning Orientation and Touching On Deliberate Practice <i>Keith Baker, M.D., Ph.D.</i>	1:20 p.m.	Sitting Craniotomies: A review of Evidence- Based Practice <i>Erin Plaza, M.D.</i>
8:45 a.m.	Value Based Care and the Perioperative Physician <i>Laureen Hill, M.D., M.B.A.</i>	1:40 p.m.	Ultrasound-guided Percutaneous Neuromodulation for Management of Postoperative Pain <i>Rodney Gabriel, M.D.</i>
9:10 a.m.	Q&A	2:05 p.m.	Update on Neuromuscular Blockade Monitoring and Reversal <i>Michael McCartney, M.D.</i>
9:25 a.m.	Exhibits and Research Posters	2:25 p.m.	Obstetric Anesthesia in Maternal Cardiac Disease <i>Katherine Arendt, M.D.</i>
10:15 a.m.	Lorhan Award Presentation	2:50 p.m.	Q&A
10:25 a.m.	Ultrasound-guided Percutaneous Cryoanalgesia for Management of Acute Pain <i>Rodney Gabriel, M.D.</i>	3:05 p.m.	2019 Research Award Recipient <i>Dawood Sayed, M.D.</i>
10:50 a.m.	The Role of the Anesthesia Provider in Reducing Maternal Mortality <i>Katherine Arendt, M.D.</i>	3:15 p.m.	2020 Research Award Recipient <i>Anthony Kovac, M.D.</i>
11:15 a.m.	The Cognitive Science of Teaching and Learning <i>Keith Baker, M.D., Ph.D.</i>	3:25 p.m.	2021 Research Awards
		3:40 p.m.	Concluding Remarks and Adjournment

# 2021 70<sup>th</sup> Annual Anesthesiology Symposium

## April 23 and 30 Ultrasound Workshop

### May 1 meeting

- **Virtual ZOOM Participants**

- Total = 127

- KUMC = 113

- Total Foreign = 14
  - Peru = 13
  - Ghana = 1



# Kovac International Observership Award





# International Planning for 2022 (Kovac wish list)

- Resume international rotations for Ghana and Peru
- Kovac International Observership Award → 2 groups for 2022
- Masters in International Health
- Helping Babies Breathe Project
- Fulbright Specialist Program → Ghana?
- Ghana Airway Project

# Summary:

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