

PASS Course

Pediatric Acute Surgical Support

Thursday Lecture

8th June

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UNIVERSITY HOSPITAL
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PASS
Pediatric Acute Surgical Support

6-8 April 2023

Main Lecture Hall,
King Hamad University Hospital

Pediatric Acute Surgical Support (PASS)

Workshop Led by:
Prof Aixuan Holterman
Chicago Illinois USA

**The acute management of life-threatening
pediatric surgical emergencies.**

The course goal is to prepare health care personnel in the immediate management of neonatal/pediatric life-threatening surgical conditions and road injuries at their first point of entry into hospital.

Registration Free:

- PLACES LIMITED
- FIRST COME, FIRST SERVED

Registration Link:
<https://forms.office.com/r/j7MX7Pd8M9>

For registration, kindly contact:
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Today's talk

- What is PASS?
- Why is there a need for PASS?
- How is it taught?
- Why are we involved in King Hamad?
- What is the future?



The image features a newborn baby lying in a hospital bed, crying. Overlaid on the image are several logos and text elements:

- OPERATION CHILDLIFE**: A logo with a sun icon and two children holding hands.
- KING HAMAD UNIVERSITY HOSPITAL**: Text in English and Arabic, accompanied by the hospital's crest.
- 12 CME Credit Hours**: A purple circular badge with a scalloped edge.
- PASS**: A logo with a heart icon and the text "Pediatric Acute Surgical Support".

What is PASS?

- The course is based on the premise that enhancing the initial assessment, recognition, and early appropriate management of a life-threatening surgical emergency in an acutely ill child, decreases avoidable morbidities and mortality
- The course contents consisted of a mix of didactic materials for general neonatal and pediatric surgery, modified PALS/ATLS, in-person multidisciplinary team-based skill stations, interactive clinical scenarios and simulated trauma cases



Why is there a need for PASS?

- Low and low middle income LMIC countries carry a disproportionate burden of childhood injury mortality and morbidities
- World Health Organization (WHO) estimated that one million children die annually due to traumatic injuries (2016) 90-95% in LMIC
- The gaps in the clinical staff readiness to acutely care for pediatric patients, especially for the child with life-threatening surgical injuries and illnesses are further accentuated in LMIC countries
- training opportunities for front-line hospital personnel are severely lacking in LMIC
- The goal of Pediatric Acute Surgical Support (PASS) course is to prepare caregivers in LMIC, for the acute management of life-threatening pediatric surgical emergencies.

How is it taught?

- Traditional VN medical education system of teacher-centered classroom didactic lecture delivery, with low teacher-student interactivity
- PASS challenged learners to:
 - think critically,
 - to practice clinical problem-solving,
 - to use a systematic approach in the care of patients with complex multi-organ injuries,
 - to be engaged in team performance discussions and to practice teamwork



What Makes PASS Different?

- PASS offers a broader course content that includes beyond pediatric trauma, serious commonly seen neonatal and general pediatric surgical emergencies to prepare the caregivers in the recognition and initial management of the most common life-threatening pediatric surgical illnesses
- PASS is not a first-aid pre-hospital course preparation for first responders, or a pediatric surgical skill course for surgeons, but a training course in the initial assessment and management of life-threatening pediatric surgical illnesses that targets both non-surgical and surgical providers



What Makes PASS Different?

- In order to promote multidisciplinary patient care, nurse training and physician nurse team communication as they are key factors in effective trauma training
- PASS places a heavy emphasis on group dynamics and team communication, with the use of team exercise during the unfolding trauma scenario exercises and the inclusion of everyone in the course and the team training.



Teaching Experience in Vietnam

- August 2022 I taught on the Course in Ho Chi Min City – on behalf of Operation Childlife, RCSI, and KHUH



Teaching Experience in Vietnam - *Challenges*

- Communication barriers
 - delays and interpretation accuracy from language translation
- Interactive virtual lectures are not practical
 - Time differences
 - training sessions require real time language translation and hands-on team activities
- learners were assigned bilingual reading materials prior to attending the course

Teaching Experience in Vietnam - *Challenges*

- Cultural Aspects
 - The language barrier
 - Culture specific issues to Vietnam
 - such as its hierarchical health care structure
 - affected the learners' participation in the interactive case scenario and debriefing sessions.
- By the end of the course they became much more engaged and confident in simulations, post-exercise team debriefing and discussions

Teaching PASS in KHUH



PASS @ KHUH

- Same structure and content as in Veitnam
- 2.5 day course
- Pre and Post Course testing



Differences in teaching PASS @ KHUH

- No need for translators
- Improved time efficiency
- Candidates used to this style of teaching
 - Simulation
 - Teamwork
 - Multi-disciplinary
 - Feedback / debrief

KHUH – International Humanitarian Partners

Operation Childlife



Operation Childlife

- Operation Childlife originated in 2004, to upskill and mentor paediatric doctors and nurses in Children's Hospital Number 2, Ho Chi Minh City, and to carry out a number of complex surgeries.
- OCL has, to date expanded to Tanzania, Mongolia and Jordan.
- Over 100 senior-level consultants have travelled as volunteers, conducting complex surgeries
- Providing pre- and post-operative support and guidance and training, mentoring and developing their local colleagues on a continual basis.
- The countries and regions we visit lack, or have limited expertise in, key disciplines such as paediatric cardiology, oncology, orthopaedics, intensive care, anaesthesia, interventional radiology, urology, plastic surgery, ear, nose and throat surgery and related nursing care

What is Operation Childlife Planning?

- Complex surgeries where appropriate expertise is not available
- Increased sustainability through capacity building in partnership with local professionals and informed by mutually identified need
- Continuous in-person and remote training, upskilling, education and support

What is the future?

- Educating and training our local colleagues moves our activities from “point in time” interventions that affect a small number of children, to a more systemic impact that can improve the lives and outcomes of more children into the future.



What is Operation Childlife Planning?

- The PASS programme will be delivered on at least 2 trips each year. OCL Volunteers will be accredited PASS Tutors and will train, assess and certify our colleagues in our partner sites.
- OCL volunteers will become accredited PASS Tutors, enabling them to deliver the PASS Programme to healthcare professionals in our partner countries, so that they can become PASS certified. PASS education materials will be provided, in advance, via OCL Virtual



Congratulations – 1st PASS Graduates of KHUH



Thank You!

- King Hamad University Hospital
- Everyone here that supports this work – either at home or abroad
 - Doctors, nurses, admin, educational support
- Operation Childlife



Useful links

ipsacvietnam.org

operationchildlife.com

Rivas JA, Bartoletti J, Benett S, Strong Y, Novotony TE, Schultz ML. **Paediatric trauma education in low- and middle-income countrys: A systematic literature review.** J Global Health. 2022;12:04078.

Nguyen B-U, Holterman A, Holterman M and Dinh L-T (2022) **Academic Pediatric Surgery Capacity Building in Vietnam Through PASS, a Pediatric Acute Surgical Support Course.** Front. Surg. 9:868483. doi: 10.3389/fsurg.2022.868483

T. Dinh, T. Khairallah, C. Nguyen et al., **PASS-A course in Pediatric Acute Surgical Support to build pediatric surgical emergencies capacity in developing countries,** Journal of Pediatric Surgery, <https://doi.org/10.1016/j.jpedsurg.2022.03.004>