

## VRiMS/GASOC VIRTUAL REALITY SURGICAL CONFERENCE

### UGANDAN PROGRAM

UCU SoM & ACE (IDI-Makerere), Kampala

26<sup>th</sup>-29<sup>th</sup> April 2022




**VRiMS**  
(Virtual Reality in  
Medicine and Surgery)

**GLOBAL MEDICINE/SURGERY  
EDUCATIONAL CONFERENCE**

**26-29<sup>th</sup> APRIL**

Ideal for surgical residents, surgeons, medical officers  
and medical students.

Registration needed, request link from [vrims.ug@gmail.com](mailto:vrims.ug@gmail.com)

If unable to attend in person remote access is open to all  
free of charge

OUR PARTNERS :

Venue: Uganda Christian University and  
IDI, Makerere University Kampala



DAY ONE: Tuesday 26 <sup>th</sup> April 2022			
INTRODUCTION & STABILISATION OF THE TRAUMA PATIENT			
All times in EAT, Kampala (UK BST = EAT-2hrs)			
Time	Topic	Speaker	Delivery
<b>INTRODUCTION to VR (0900-0930 Kampala delegates only)</b>			
0900	Registration	-	-
0915	Introduction to Virtual Reality from the Ugandan-based team	Dr Helen Please & Mike Nsubuga	Lecture
0930	Smartphone setup for VR + pre-course questions	Dr Helen Please	Lecture
<b>INTRODUCTION to the VRiMS course</b>			
1015	Welcome from UK team and introduction to VRiMS	Prof Jag Dhanda	Lecture
	Introduction to GASOC, and candidates to introduce their learning needs	Dr William Bolton	Lecture
1035	Access to Essential Surgical Care: Patient and Provider Perspectives	Prof Mood Bhutta	Lecture
1100	Logistics in Country and Ugandan Faculty Perspective	Dr Helen Please, Dr Henry Luweesi, Dr Billy Ndiwalana, Dr Daudi Jjingo	Lecture
1120	Trauma Care: Epidemiology and Principles of Management	Prof Mansoor Khan	Lecture
1200	Tea break		
<b>STABILISATION OF THE TRAUMA PATIENT</b>			
1230	Resuscitation and stabilisation: Airway	Dr Stel Panayiotou & Prof Mood Bhutta	Lecture
1300	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>Airway: Intubation, cricothyroidotomy, tracheostomy</li> </ul>	Dr Stel Panayiotou, Prof Mood Bhutta & Dr Henry Luweesi	VR
1400	Lunch		
1445	Resuscitation and stabilisation: Breathing and Circulation	Prof Mansoor Khan	Lecture
1515	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>Breathing: Chest drain</li> <li>Circulation: Venous access / iv cut-down / intraosseous access</li> <li>Repair of vascular injuries</li> <li>Pericardiocentesis</li> </ul>	Dr Stel Panayiotou, Prof Mansoor Khan & Dr Henry Luweesi	VR
1800	Official Close of Day 1		

Form to be completed  
**before** the course:



**VRiMS**  
Virtual Reality in Medicine and Surgery



Form to be completed  
**after** the course:



DAY TWO: Wednesday 27 <sup>th</sup> April 2022			
ABDOMINAL & SKIN TRAUMA; ESSENTIAL ABDOMINAL SURGERY			
All times in EAT, Kampala (UK BST = EAT-2hrs)			
Time	Topic	Speaker	VR or Lecture
<b>INTRODUCTION to VR (0900-0930 Kampala delegates only)</b>			
0900	Registration	-	-
0915	Introduction to Virtual Reality from the Ugandan-based team	Dr Helen Please & Mike Nsubuga	Lecture
0930	Smartphone setup for VR + pre-course questions	Dr Helen Please	Lecture
<b>ABDOMINAL TRAUMA</b>			
1000	Metaverse and Introduction to Mozilla Hubs	Dr Karamveer Narang	Lecture
1015	Abdominal injuries	Prof Mansoor Khan	Lecture
1045	<b>Cadaveric dissection</b> <ul style="list-style-type: none"> <li>• Diagnostic peritoneal lavage</li> <li>• Laparotomy</li> <li>• Repair of ruptured bladder</li> <li>• Repair of diaphragm</li> </ul>	Prof Mansoor Khan & Dr Henry Luweesi	VR
1200	Tea break		
<b>SKIN TRAUMA</b>			
1220	Wound and burn management	Dr Rob Pearl, Dr Chris Macdonald	Lecture
1300	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>• Primary and secondary wound closure</li> <li>• Escharotomy and skin grafts</li> <li>• Tendon Repair</li> </ul>	Dr Rob Pearl, Dr Chris Macdonald & Dr Henry Luweesi	VR
1400	Lunch		
<b>ESSENTIAL ABDOMINAL SURGERY</b>			
1445	Abdominal medicine: preventing and managing life-threatening disease	Prof Mansoor Khan	Lecture
1600	<b>Cadaveric dissection</b> <ul style="list-style-type: none"> <li>• Inguinal hernia repair (elective and emergency)</li> <li>• Nasogastric decompression</li> <li>• Reduction of sigmoid volvulus</li> <li>• Exploratory laparotomy</li> <li>• Appendectomy and drainage appendiceal abscess (open approach)</li> <li>• Cholecystectomy and cholecystostomy (open approach)</li> <li>• Enterolysis, small bowel resection, colostomy</li> </ul>	Prof Mansoor Khan & Dr Henry Luweesi	VR
1800	Official Close of Day 2		



DAY THREE: Thursday 28 <sup>th</sup> April 2022			
ORTHOPAEDIC AND HEAD TRAUMA			
All times in EAT, Kampala (UK BST = EAT-2hrs)			
Time	Topic	Speaker	VR or Lecture
<b>INTRODUCTION to VR (0900-0930 Kampala delegates only)</b>			
0900	Registration	-	-
0915	Introduction to Virtual Reality from the Ugandan-based team	Dr Helen Please & Mike Nsubuga	Lecture
0930	Smartphone setup for VR + pre-course questions	Dr Helen Please	Lecture
<b>ORTHOPAEDIC TRAUMA</b>			
1000	Principles of fracture management & traction	Dr Enis Guryel	Lecture
1040	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>• Cast application for lower limb injuries</li> <li>• External fixation</li> </ul>	Dr Heidi Wilson-Le-Moine, Dr Enis Guryel & Dr Okello	VR
1200	Tea break		
1220	Managing limb injuries	Dr Enis Guryel	Lecture
1300	<b>Cadaveric dissection</b> <ul style="list-style-type: none"> <li>• Open fracture initial debridement</li> <li>• Lower limb fasciotomy</li> <li>• Below knee amputation</li> </ul>	Dr Enis Guryel & Dr Okello	VR
1400	Lunch		
<b>HEAD TRAUMA</b>			
1445	Head injury	Dr Jin Ekanayaka	Lecture
1615	<b>Cadaveric dissection</b> <ul style="list-style-type: none"> <li>• Burr hole</li> <li>• Craniotomy and craniocentesis</li> </ul>	Dr Jin Ekanayaka & Dr Kiryabwire, Dr Oscar Obiga & Dr Deogracious Edemaga & Dr William Bolton	VR
1800	Official Close of Day 3		



DAY FOUR: Friday 29 <sup>th</sup> April 2022			
ESSENTIAL OBSTETRIC CARE			
All times in EAT, Kampala (UK BST = EAT-2hrs)			
Time	Topic	Speaker	VR or Lecture
<b>INTRODUCTION to VR (0900-0930 Kampala delegates only)</b>			
0900	Registration	-	-
0915	Introduction to Virtual Reality from the Ugandan-based team	Dr Helen Please & Mike Nsubuga	Lecture
0930	Smartphone setup for VR + pre-course questions	Dr Helen Please	Lecture
<b>ESSENTIAL OBSTETRIC CARE</b>			
1000	Obstetric medicine: Managing complications of pregnancy (tbc)	Dr John Dalton, Dr Billy Ndiwalana, Dr Cathy Shutt	Lecture
1030	<b>Model demonstration</b> Assisted vaginal delivery with forceps or vacuum	Dr John Dalton, Dr Billy Ndiwalana, Dr Cathy Shutt	VR
1200	Tea break		
1220	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>• Manual vacuum aspiration</li> <li>• Dilation and curettage, culdocentesis, culpotomy</li> <li>• Caesarean section</li> <li>• Repair ruptured uterus / vaginal tear / cervical tear / perineal tear</li> <li>• Salpingotomy/ salpingectomy</li> </ul>	Dr John Dalton, Dr Billy Ndiwalana, Dr Cathy Shutt	VR
1400	Lunch		
1445	Obstetric medicine: Post-partum haemorrhage	Dr John Dalton, Dr Billy Ndiwalana, Dr Cathy Shutt	Lecture
1600	<b>Simulation Model Demonstration/Cadaveric Dissection</b> <ul style="list-style-type: none"> <li>• Manual removal of placenta</li> <li>• Uterine and utero-ovarian artery ligation</li> <li>• Bimanual compression of uterus</li> <li>• Uterine inversion</li> <li>• Total and sub-total hysterectomy</li> </ul>	Dr John Dalton, Dr Billy Ndiwalana, Dr Cathy Shutt	VR
<b>DEBRIEF AND CLOSE</b>			
1730	Debrief and course feedback		
1800	End of course		

