South African Simulation Survey

Introduction and background

Many thanks for completing this survey which we hope will help us better understand:

- 1. The state of simulation-based education in South Africa
- 2. Simulation resources available in the various centres
- 3. Attitudes towards and perceptions of simulation as an educational tool
- 4. Perceived barriers or facilitators influencing how simulation is used.
- 5. Goals and vision for simulation

It is hoped this will facilitate national collaboration to accelerate the growth of this valuable training technique.

This survey should not take longer than 20 minutes to complete. If any explanations or clarification is needed, please contact Dr Rowan Duys rowanduys@gmail.com or Dr Robert Swart robswart6@gmail.com

The data collected will be confidential and when published will not identify individual institutions.

The completion of the survey will be seen as consent for the data to be used in the research paper.

The development of this survey has been guided by a Society for Simulation in Healthcare accreditation document, expert opinion and other sources from the simulation literature.

Ethics approval number: HREC REF 157/2017 Human Research Ethics Committee University of Cape Town

Please answer the following questions as completely as possible.

Name of individual completing survey:	
	
Email:	
	(This email will only be used for future sim related communication)
Institution:	
	
Department:	
	
Role at institution:	
	
You are answering this questionnaire on behalf of:	 An anaesthesia department, including critical care and perioperative medicine A multi-disciplinary simulation programme (eg: a university-wide programme), or a non-anaesthesia department

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Please indicate your level of agreement with the following statements:					
	strongly disagree	disagree	undecided	agree	strongly agree
Our department provides some form of simulation-based education	0	0	0	0	0
Simulation-based education is integrated into the formal education programme of our department	0	0	0	0	0
Our department is trying to grow the simulation-based education programme	0	0	0	0	0
Our department would be interested in collaboration with other centres to facilitate growth in simulation-based education programmes.	0	0	0	0	0
Please indicate to what ext	ent the followir	ng factors in	npede the grow	th of simula	ation-based
education in your departme					
	strongly disagree	disagree	undecided	agree	strongly agree
Lack of finances for simulation programme	0	0	0	0	0
Lack of trained educators	\bigcirc	\circ	\bigcirc	\bigcirc	\bigcirc
Lack of space/facilities dedicated to simulation (eg: simulation centre)	0	0	0	0	0
Lack of simulation equipment (eg manikins, sundries)	0	0	0	\circ	0
Lack of protected time for educators	0	0	0	\circ	0
Lack of protected time for learners	0	0	0	0	0
Lack of institutional support for simulation-based education	0	0	0	0	0
Simulation is not yet validated as an educational model	0	0	0	0	0
Simulation is perceived as stressful and intimidating	0	0	0	\circ	0

Page 3 of 39 **Curriculum and Learners** This section will explore the learners targeted, and the topics explored through simulation programmes. It will also explore decision-making around scenario design and learning objectives. What content or learning needs do you cover? (tick ☐ Medical knowledge or theory where appropriate) ☐ Practical skills ☐ Communication skills ☐ Leadership skills ☐ Critical thinking and decision making ☐ Integrated management of clinical scenarios ☐ Teamwork or Crew Resource Management or Human **Factors** Whom do you target? (tick where appropriate) ☐ Nurses ☐ Paramedics Undergraduates students ☐ Registrars ☐ Specialists ☐ Teams from within a department ☐ Experts identify a learning need How are topics for new scenarios decided? ☐ Adverse events inform scenario design ☐ Curriculum focused ☐ Scenarios are part of an established course e.g.: **MEPA** ☐ Other If other, please specify Who designs the scenarios? ☐ Departmental simulation leaders

Contact hours are defined as the length of time a learner spends within a simulation-based curriculum, including instruction, structured practice, and debriefing/feedback. Using this definition, estimate the number of contact hours per learner per year for undergraduates?

Estimate the number of unique learners exposed to

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If other, please specify

simulation in a 12-month period:

☐ Departmental experts

objectives
☐ Combination
☐ Other

☐ Dedicated simulation facility staff

Learners design their own simulations and learning

Contact hours are defined as the length of time a learner spends within a simulation-based curriculum, including instruction, structured practice, and debriefing/feedback. Using this definition, estimate the number of contact hours per learner per year for post-graduates?	
Organization, management, personnel This section explores details concerning personnel programme and the organizational structure and f finance are to help understand how simulation edu with future planning.	unding. Questions regarding funding and
Does the simulation program have a specific director?	○ Yes ○ No
Are the staff involved in the simulation program allocated protected time to conduct simulation-based education?	○ Yes ○ No
List the current staff allocated to simulation education briefly describe:	ntion in your department or institution and
Category of staff	 ☐ Consultant ☐ Registar ☐ Medical officer ☐ Tech ☐ Nurse ☐ Outside consultant ☐ Other
Consultants	
Number of consultants	○ 1○ 2○ 3○ 4○ 5
Consultant 1	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	



Consultant 2	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Consultant 3	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Consultant 4	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	

Consultant 5	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Registrars	
Number of registrars	○ 1○ 2○ 3○ 4○ 5
Registrar 1	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 2	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	

Role in programme	
	
Registrar 3	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 4	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 5	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	

Medical Officers	
Number of medical officers	○ 1○ 2○ 3○ 4○ 5
Medical officer 1	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Medical officer 2	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Medical officer 3	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	

Role in programme	
	
Medical officer 4	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	<u> </u>
Medical officer 5	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Techs	
Number of techs	○ 1○ 2○ 3○ 4○ 5
Tech 1	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other



If other, please specify	
Role in programme	
Tech 2	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Tech 3	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Tech 4	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	



Tech 5	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Nurses	
Number of nurses	○ 1○ 2○ 3○ 4○ 5
Nurse 1	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Nurse 2	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	

Role in programme	
Nurse 3	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
	
Nurse 4	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Nurse 5	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	



Outside consultants	
Number of outside consultants	○ 1○ 2○ 3○ 4○ 5
Outside Consultant 1	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Outside Consultant 2	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Outside Consultant 3	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	

Role in programme	
	
Outside Consultant 4	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Outside Consultant 5	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	·
Other	
Number of others	○ 1○ 2○ 3○ 4○ 5
Other 1	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only

How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Other 2	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Other 3	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	

Other 4	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Other 5	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Other information about staff	
Do the staff running the simulation program have accreditation or formal training with regards to simulation education?	YesNo
If yes, which training programme is employed? eg: BASIM, local etc	
Does your facility provide an orientation program for the simulation program teaching faculty?	

Where do your simulations take place?	 Dedicated simulation facility off-site Dedicated simulation facility within your hospital/university/organisation complex Dedicated simulation facility within your department In-situ or in clinical areas where patients are not currently being treated Other
If other, please specify	
Is the simulation space owned by your department?	YesNoPartially
Is your simulation equipment owned by your department?	○ Yes○ No○ Partially
Running a simulation programme is expensive.	
Who funds the simulation centre/facility?	 ☐ University ☐ Hospital ☐ Department ☐ Corporate Sponsor ☐ Self-funded fundraising
Who funds the simulation equipment?	☐ University ☐ Hospital ☐ Department ☐ Corporate Sponsor ☐ Self-funded fundraising ☐ Donated

Simulation equipment includes everything from large, expensive items like integrated patient simulators to sundries and consumables. We would like to understand your access to these items.

Please indicate if you have unlimited/sufficient access to and use of the equipment, limited access with items occasionally unavailable or if your programme has no access to this item at all.

	NO access	Littliced (flot always available)	Offilitilited of Sufficient access
Part-task simulator: models represent only a part of the real thing and will often comprise a limb or body part or structure	0	0	0
Computer based multimedia: programs which incorporate audio and video components, are used as adjuncts to formal teaching and learning	0	0	0
Computer based interactive: programmes which provide the user with an interface that presents physiological or pharmacological variables that can be manipulated through the user's actions, providing feedback on decisions made and actions taken			
Virtual reality and haptic systems: haptic systems refer to those replicating the kinaesthetic and tactile perception	0	0	0
Simulated patient & environments: real people (actors, students, faculty) trained to mimic patient reactions	0	0	0
Integrated simulators: sophisticated manikin with computerised controls designed to mimic physiological responses eg: SimMan, METI	0	0	0
Self-designed simulation equipment:	0	0	0
List your most important equipment	gaps?		

How likely are you to be able to fill these gaps in the near the future?	○ Next 1 year○ Next 2 years○ Unlikely in next 5 years
Evaluation and Improvement	
Methods to evaluate the strengths, impact and a	reas for improvement of any educational
programme are critical to ensuring quality.	
What methods are used to evaluate the quality of the simulation faculty?	 None Peer evaluation Independent evaluation Participant feedback Other
If other, please specify	
What methods are used to evaluate the impact of the simulation program?	 ☐ Informal faculty discussion about simulation scenario ☐ Learner feedback ☐ Assessment of learner performance in simulated clinical scenarios ☐ Assessment of learner performance in 'real' clinical scenarios ☐ Impact on patient outcomes
Expanding the field/Research Research is an important vehicle for understandi acknowledge that some researchers may not be	
Is your facility conducting any of the following categories of research related to simulation education?	 ✓ Quantitative research into efficacy of simulation ✓ Quantitative research using simulation as the vehicle for investigation ✓ Qualitative research into how and why simulation works ✓ Other
If other, please specify	
Simulation for assessment Simulation can be used for formative assessment growth, or as a tool for summative assessment w performance against a required standard and aw concerns summative assessments.	here the goal is to assess the learner's
Do you use simulation for summative assessment of any of the following learner categories?	○ Nurse○ Intern○ Medical Officer○ Registrar○ Specialist

What tools are used for assessment?			☐ Expert opinion of☐ Peer evaluation of☐ Validated check I☐ Other	of performance	
If other, please specify					
Future plans					
Describe your vision for the future or the role of simulation in your d		ne			
What are your most urgent needs/deficiencies/requirements of your goals?	n the achievement	=			
What are your immediate plans for programme?	or growth of the		_		
Would you be interested in collab centres in South Africa to grow th research impact of your simulation	e educational or		○ Yes ○ No		
The UCT Department of Anaesthe Medicine is building a simulation interns rotating through the Depa facility be interested in collaborat work, or using the material once of	oackage for the rtment. Would you ing on this	1	○ Yes ○ No		
Please indicate your level of	of agreement w	ith the follo	owing statement	:s	
	strongly disagree	disagree	undecided	agree	strongly agree
Our facility provides some form of simulation-based education	0	0	0	0	0
Simulation-based education is integrated into the formal education programme of our facility	0	0	0	0	0
Our facility is trying to grow the simulation-based education programme	0	0	0	0	0
Our facility would be interested in collaboration with other centres to facilitate growth in simulation-based education programmes.	0	0	0	0	0

	strongly disagree	disagree	undecided	agree	strongly agree
Lack of finances for simulation programme	0	0	0	0	0
Lack of trained educators	\circ	\circ	\circ	\circ	\bigcirc
Lack of space/facilities dedicated to simulation (eg: simulation centre)	0	0	0	0	0
ack of simulation equipment eg manikins, sundries)	0	0	0	\circ	0
Lack of protected time for educators	0	0	0	\circ	0
ack of protected time for earners	0	0	0	0	0
Lack of institutional support for simulation-based education	0	0	0	0	0
Simulation is not yet validated as an educational model	0	0	0	0	0
Simulation is perceived as stressful and intimidating	0	0	0	0	0
Curriculum and Learners This section will explore the programmes. It will also exobjectives.	_			_	
What content or learning needs d where appropriate)	o you cover? (tick		Medical knowledge Practical skills Communication so Leadership skills Critical thinking and Integrated manage Teamwork or Crefactors	skills and decision m gement of clin	
Whom do you target? (tick where	appropriate)		Nurses Paramedics Undergraduates Medical interns Medical Officers Registrars Specialists	students	

How are topics for new scenarios decided?	 □ Experts identify a learning need □ Adverse events inform scenario design □ Curriculum focused □ Scenarios are part of an established course e.g.: MEPA □ Other
If other, please specify	
Who designs the scenarios?	 Departmental simulation leaders Departmental experts Dedicated simulation facility staff Learners design their own simulations and learning objectives Combination Other
If other, please specify	
Estimate the number of unique learners exposed to simulation in a 12-month period:	
Contact hours are defined as the length of time a learner spends within a simulation-based curriculum, including instruction, structured practice, and debriefing/feedback. Using this definition, estimate the number of contact hours per learner per year for undergraduates?	
Contact hours are defined as the length of time a learner spends within a simulation-based curriculum, including instruction, structured practice, and debriefing/feedback. Using this definition, estimate the number of contact hours per learner per year for post-graduates?	
Organization, management, personnel This section explores details concerning personnel programme and the organizational structure and fu finance are to help understand how simulation educ with future planning.	nding. Questions regarding funding and
Does the simulation program have a specific director?	○ Yes ○ No
Are the staff involved in the simulation program allocated protected time to conduct simulation-based education?	

List the current staff allocated to simulation briefly describe:	education in your department or institution and
Category of staff	☐ Consultant ☐ Registar ☐ Medical officer ☐ Tech ☐ Nurse ☐ Outside consultant ☐ Other
Consultants	
Number of consultants	○ 1○ 2○ 3○ 4○ 5
Consultant 1	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Consultant 2	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	



Consultant 3	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Consultant 4	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Consultant 5	
In which discipline does this consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	

Registrars	
Number of registrars	○ 1○ 2○ 3○ 4○ 5
Registrar 1	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 2	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 3	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	

Role in programme	
Registrar 4	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Registrar 5	
In which discipline does this registrar have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Medical Officers	
Number of medical officers	○ 1○ 2○ 3○ 4○ 5
Medical officer 1	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other



If other, please specify	
Role in programme	
Medical officer 2	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Medical officer 3	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Medical officer 4	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	



Medical officer 5	
In which discipline does this medical officer have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Techs	
Number of techs	○ 1○ 2○ 3○ 4○ 5
Tech 1	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Tech 2	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	

Role in programme	
	
Tech 3	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
	
Tech 4	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Tech 5	
In which discipline does this tech have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	



Nurses	
Number of nurses	○ 1○ 2○ 3○ 4○ 5
Nurse 1	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Nurse 2	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Nurse 3	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	

Role in programme	
Nurse 4	
In which discipline does this nurse have simulation-based education responsibilities?	○ Anaesthesia only○ Anaesthesia and other disciplines○ Other disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Nurse 5	
In which discipline does this nurse have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Outside consultants	
Number of outside consultants	○ 1 ○ 2 ○ 3 ○ 4 ○ 5
Outside Consultant 1	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other



If other, please specify	
Role in programme	
Outside Consultant 2	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Outside Consultant 3	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Outside Consultant 4	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	



Outside Consultant 5	
In which discipline does this outside consultant have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Other	
Number of others	○ 1○ 2○ 3○ 4○ 5
Other 1	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	○ University○ Hospital/Province○ Private/Donor○ Other
If other, please specify	
Role in programme	
Other 2	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only

How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther	
If other, please specify		
Role in programme		
Other 3		
Specify other designation		
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only	
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther	
If other, please specify		
Role in programme		
Other 4		
Specify other designation		
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only	
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther	
If other, please specify		
Role in programme		

Other 5	
Specify other designation	
In which discipline does this other designation have simulation-based education responsibilities?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
How is this employee's position funded?	UniversityHospital/ProvincePrivate/DonorOther
If other, please specify	
Role in programme	
Other information about staff	
Do the staff running the simulation program have accreditation or formal training with regards to simulation education?	Anaesthesia onlyAnaesthesia and other disciplinesOther disciplines only
If yes, which training programme is employed? eg: BASIM, local etc	
Does your facility provide an orientation program for the simulation program teaching faculty?	○ Yes ○ No
Where do your simulations take place?	 □ Dedicated simulation facility off-site □ Dedicated simulation facility within your hospital/university/organisation complex □ Dedicated simulation facility within your department □ In-situ or in clinical areas where patients are not currently being treated □ Other
If other, please specify	
Is the simulation space owned by your facility?	YesNoPartially
Is your simulation equipment owned by your facility?	YesNoPartially

Running a simulation program	me is expensive.		
Who funds the simulation centre/facil	ity?	☐ University☐ Hospital☐ Department☐ Corporate Sponsor☐ Self-funded fundraising	g
Who funds the simulation equipment	?	 ☐ University ☐ Hospital ☐ Department ☐ Corporate Sponsor ☐ Self-funded fundraising ☐ Donated 	9
Simulation equipment include	s everything from	large, expensive items lil	ke integrated patient
simulators to sundries and co	nsumables. We w	ould like to understand yo	ur access to these
items.			
Please indicate if you have unlimited/sufficient access to and use of the equipment, limited access with items occasionally unavailable or if your programme has no access to this item at all.			
	NO access	Limited (not always available)	Unlimited or sufficient access
Part-task simulator: models represent only a part of the real thing and will often comprise a limb or body part or structure	0	0	0

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	NO access	Limited (not always available)	Unlimited or sufficient access
Computer based multimedia: programs which incorporate audio and video components, are used as adjuncts to formal teaching and learning	0	0	0
Computer based interactive: programmes which provide the user with an interface that presents physiological or pharmacological variables that can be manipulated through the user's actions, providing feedback on decisions made and actions taken			
Virtual reality and haptic systems: haptic systems refer to those replicating the kinaesthetic and tactile perception	0	0	0
Simulated patient & environments: real people (actors, students, faculty) trained to mimic patient reactions	0		0
Integrated simulators: sophisticated manikin with computerised controls designed to mimic physiological responses eg: SimMan, METI	0		0
Self-designed simulation equipment:	0		0
List your most important equipment	gaps?		
How likely are you to be able to fill the near the future?	nese gaps in	○ Next 1 year○ Next 2 years○ Unlikely in next 5 year	S
Evaluation and Improvement Methods to evaluate the street programme are critical to ens		areas for improvement of	any educational
What methods are used to evaluate simulation faculty?	the quality of the	NonePeer evaluationIndependent evaluatioParticipant feedbackOther	n
If other, please specify			

What methods are used to evaluate the impact of the simulation program?	 Informal faculty discussion about simulation scenario Learner feedback Assessment of learner performance in simulated clinical scenarios Assessment of learner performance in 'real' clinical scenarios Impact on patient outcomes 	
Expanding the field/Research Research is an important vehicle for understand	ing and expanding a field. However, we	
Research is an important vehicle for understanding and expanding a field. However, we acknowledge that some researchers may not be ready to share details of their work.		
Is your facility conducting any of the following categories of research related to simulation education?	 ☐ Quantitative research into efficacy of simulation ☐ Quantitative research using simulation as the vehicle for investigation ☐ Qualitative research into how and why simulation works ☐ Other 	
If other, please specify		
Simulation can be used for formative assessment of a performance against a required standard and avantable concerns summative assessments. Do you use simulation for summative assessment of any of the following learner categories?	where the goal is to assess the learner's	
	Registrar Specialist	
What tools are used for assessment?	 □ Expert opinion of overall performance □ Peer evaluation of performance □ Validated check lists □ Other 	
If other, please specify	·	
Future plans		
Describe your vision for the future of your programme or the role of simulation in your facility?		
What are your most urgent needs/deficiencies/requirements in the achievement of your goals?		
What are your immediate plans for growth of the programme?		



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Would you be interested in collaborating with other centres in South Africa to grow the educational or research impact of your simulation programme?	Yes No
The UCT Department of Anaesthesia and Perioperative Medicine is building a simulation package for the interns rotating through the Department. Would your facility be interested in collaborating on this work, or using the material once complete?	○ Yes ○ No