

# INTENSIVE CARE UNIT

	SUBJECT	INFORMATION
1	<b>ABOUT THE DEPARTMENT (BACKGROUND AND SERVICES RENDERED)</b>	<p>The Intensive Care Unit (ICU) at Sefako Makgatho Health Sciences University has been in existence since the establishment of the Dr George Mukhari Academic Hospital. The unit was initially run as part of Cardiothoracic Surgery and Anaesthesia Departments. Some of its former heads were Professors Cronje (Cardiothoracic), Cooper (Neurosurgery) and Mohlala (Cardiothoracic).</p> <p>It became an independent department in 1995 and Professor M S Mokgokong became its first head. The unit started gaining recognition and respect and occupied its rightful place as one of the academic ICU's in the country. Prof. John Mpe, an astute scholar and clinician, was appointed Head of ICU in July 2001 after Prof Mokgokong left the unit to assume headship of Neurosurgery. After Prof. M.J. Mpe left the unit in December 2008, Dr. Thabo Mothabeng succeeded him as acting head until Prof A. Goolam-Mahomed was appointed permanent head in August 2010. Prof. Goolam Mahomed has steered the unit to even greater heights that it occupies currently.</p> <p>The unit with its dedicated staff of nurses, doctors, physiotherapist and dieticians, is highly specialised and provides the much needed critical care to patients of Northern part of Tshwane as well as those referred from neighbouring provinces of Mpumalanga, Limpopo and Northwest. In addition to service, the ICU is an academic department involved in research and accredited to train critical care nurse practitioners, registrars, fellowship candidates and various categories of undergraduate students</p> <p><b>Vision and Mission</b></p> <p>The unit aligns itself with the mission and vision of Dr George Mukhari Hospital and Sefako Makgatho Health Sciences University .To provide patient care, health worker education and training and research, that is responsive to the needs of South Africa, and is dedicated to improving the health of its people. We work and serve to ensure that we treat our patients, their families, and others who support them with dignity, fairness, compassion, and respect.</p> <p>We undertake:</p> <ol style="list-style-type: none"> <li>1. To respect the right of all patients to make informed decisions regarding care, treatment, and their participation in education and research;</li> <li>2. To maintain a commitment to the development, support, and recognition of our staff;             <ul style="list-style-type: none"> <li>• To provide a referral site for critically ill patients from our drainage areas.</li> <li>• To collaborating with all care providers, community agencies and other institutions;</li> </ul> </li> </ol> <p>To respect the linguistic and cultural diversity within our community.</p>

**(ICU)Services Offered**

The department is well equipped and provides services to both adults and children who need state-of-the-art, invasive monitoring and therapy. This ranges from high care monitoring to invasive post-operative ventilation and management of patients such as those from cardiac and neurosurgery operations. 6 beds are dedicated and managed by the Cardio-thoracic team under the leadership of Prof. Risenga Chauke.

**Common reasons for admission include:**

- Valve replacement surgery
- Coronary artery bypass surgery
- Multiple Trauma
- Head trauma
- Severe community acquired infections especially pneumonia
- Neuromuscular disorders, like status epilepticus and Guillain Barre syndrome
- Pregnancy related complications like Severe preeclampsia and HELLP syndrome
- Post major reconstructive surgery
- Severe Asthma and COAD exacerbations
- Metabolic disorders e.g. Diabetic Keto acidosis

**2 STAFF PROFILE  
(NAME,TITLE,CONTACT AND  
SHORT CV)**

Name,Title	Short description of duties	Qualifications	Contacts
Prof.A.Goolam-Mahomed	<p><b>Professor/Specialist, Chief(HOD OF ICU)</b></p> <ul style="list-style-type: none"> <li>• A Specialist Physician/ Pulmonologist</li> <li>• Manages and develops the department to ensure it achieves the highest possible standards of excellence in all its activities</li> <li>• Gives clinical, administrative and educational direction to the ICU.</li> <li>• Is regularly involved in the care of patients in the department.</li> <li>• Has an interest in treatment of Multi-drug resistant organisms</li> </ul>	MBBCH FCP(SA) FCCP	0125215723

		and specialised ventilation		
	<b>Dr MJ Motiang</b>	<b>Specialist,Senior</b> <ul style="list-style-type: none"> <li>• Specialist Anaesthetist</li> <li>• Acting head in the absence of Prof. Goolam Mahomed</li> <li>• Responsible for management of patients</li> <li>• Responsible for 4<sup>th</sup> year selective training and Registrar training</li> <li>• Involved in the hospital PCT committee and the School research Ethics committee</li> </ul>	MBChB, M.Med (Anaesthesiology)	0125215723
	<b>Dr I. Hassan</b>	<b>Specialist ,Senior</b> <ul style="list-style-type: none"> <li>• A Specialist Physician/ Pulmonologist</li> <li>• Specializes in the diagnosis and treatment of lung diseases and conditions like cancer, emphysema, asthma, bronchitis and pneumonia and critical care.</li> <li>• Involved in the development of the provincial EDL drug list</li> </ul>		0125215723
	<b>Dr LT Mpholo</b>	<b>Specialist,</b> <ul style="list-style-type: none"> <li>• Specialist Anaesthetist</li> <li>• Responsible for management of patients and Registrar training</li> <li>• Involved in liason with the NHLS</li> <li>• Has an interest in airway management and Basic and Advanced life Support training.</li> </ul>	MBChB,M.Med (Anaesthesiology)	0125215723
	<b>Dr KA Nthwane</b>	<b>Specialist</b> <ul style="list-style-type: none"> <li>• Specialist Anaesthetist</li> <li>• Responsible for management of patients and Registrar training</li> <li>• Involved in liason with the Academic Planning Committee and Blood transfusion</li> <li>• Has an interest in ventilation postop management of</li> </ul>	MBChB, MMed (Anaesthesiology)	0125215723

		abdominal conditions including abdominal sepsis.		
<b>Dr TC Maganyane</b>		<ul style="list-style-type: none"> <li>• Specialist Anaesthetist</li> <li>• Responsible for management of patients and Registrar training</li> <li>• Involved in liason with the Equipment committee and Clinical Audit committee</li> <li>• Has an interest in Cardiac output monitoring and resuscitation.</li> </ul>	MMed,FCP(SA) (MEDUNSA) (Anaesthesiology)	0125215723
<b>Dr R Bhagwandass</b>	<b>Medical Officer, Principal</b>	<ul style="list-style-type: none"> <li>• Responsible for patient management at the coalface</li> <li>• Liase and orientate new registrars to the unit</li> <li>• Support data collection for research in the ICU</li> <li>• Report and Analyse trends in morbidity and mortality in the unit</li> <li>• Assist in teaching 4<sup>th</sup> year selective students.</li> <li>• Help in maintenance of equipment in the ICU.</li> </ul>	MBChB,	0125215723
<b>Dr J Joseph</b>	<b>Medical Officer, Principal</b>	<ul style="list-style-type: none"> <li>• Responsible for patient management at the coalface</li> <li>• Liase and orientate new registrars to the unit</li> <li>• Support data collection for research in the ICU</li> <li>• Report and Analyse trends in morbidity and mortality in the unit</li> <li>• Assist in teaching 4<sup>th</sup> year selective students.</li> <li>• Help in maintenance of equipment in the ICU.</li> </ul>	MBChB	0125215723
<b>Dr AJ Kanes</b>	<b>Medical Officer, Principal</b>	<ul style="list-style-type: none"> <li>• Responsible for patient management at the coalface</li> <li>• Liase and orientate new registrars to the unit</li> <li>• Support data collection for research in the ICU</li> <li>• Report and Analyse trends in morbidity and mortality in the</li> </ul>	MBChB,	0125215723

			<ul style="list-style-type: none"> <li>unit</li> <li>Assist in teaching 4<sup>th</sup> year selective students.</li> <li>Help in maintenance of equipment in the ICU.</li> </ul>		
		<b>Dr D Moroasui</b>	<b>Medical Officer ,Principal</b> <ul style="list-style-type: none"> <li>Responsible for patient management at the coalface</li> <li>Liase and orientate new registrars to the unit</li> <li>Support data collection for research in the ICU</li> <li>Report and Analyse trends in morbidity and mortality in the unit</li> <li>Assist in teaching 4<sup>th</sup> year selective students.</li> <li>Help in maintenance of equipment in the ICU.</li> </ul>	MBCHB	0125215723
<b>3</b>	<b>ACADEMIC PROGRAMMES: UNDER-GRADUATES AND POST-GRADUATES(DEGREE PROGRAMME,DURATION,AD MISSION REQUIREMENTS,POSSIBLE CAREER OPPORTUNITIES</b>	<p><b>Masters in Medicine (M.Med):</b> Registrars, rotate for 3-4 months in the unit for formal instruction and training in the care of critically ill patients. Two formal meetings are held every week to discuss topics that prepare various registrars from various clinical departments for M.Med or College Fellowship examinations. Informal presentations of ICU topics related to the specific registrar's specialty are done on ward rounds including a Grand ward round on Thursday afternoon in which the Pathology departments such as Microbiology, Chemical Pathology and Virology participate. Pharmacology is also represented.</p> <p><b>Critical Care Nursing Science:</b> This is a program for nurse practitioners. Students are in-service trained as well as receive formal lectures and demonstrations in critical care.</p> <p><b>Certificate in Critical Care and Pulmonology:</b> One post is available every 2 years for Medical specialists who wish to pursue formal training in critical care</p>			

		and preparation for examinations of the College of Medicine of South Africa (Cert. Crit. Care). In addition training is provided to Pulmonolgy Fellows in conjunction with the Dept. of Internal Medicine.
4	<b>SUPPORT STAFF (PREFERABLY ADMINISTRATION STAFF)</b>	<p><b>Administration of the Unit</b></p> <p>The greater part of the unit's successful operations is dependent on the diligence of its administrator, Ms Dorah Maselela , who is in the universities employment and mainly works in the academic side. She administers the department and renders service to the doctors and students that include but are not limited to duty roster, lectures and tutorials, arranging conferences and liaising with Dean's office</p> <p><b>Contact Person for the Department:</b>  <b>Ms DT Maselela</b>  <b>Intensive Care Unit</b>  Sefako Makgatho Health Sciences University  P O Box 105  SMU  0204  Republic of South Africa  Tel: 27 12 521 5723 (office)  Tel: 27 12 521 4351 (office)  Fax: 27 12 521 3606  e:mail: dorah.maselela@smu .ac.za</p>
5	<b>STUDENT CLINICAL TRAINING's TIME TABLE</b>	
6	<b>ALUMNI (FORMER BEST STUDENT)</b>	N/A
7	<b>PROFESSIONAL BODIES THAT THE DEPARTMENT IS REGISTERED WITH</b>	<ul style="list-style-type: none"> <li>• The Unit is registered with the Health Professionals Council for the training of both undergraduates and post graduate students including the Certificate in Critical Care.</li> <li>• We are also an accredited training unit recognised by the National Dept. of Health and the Gauteng Provincial Dept.</li> <li>• Prof. A. Goolam Mahomed is currently chairman and Dr. M. Mottiang is currently the treasurer of the Jacaranda branch of the Critical Care Society of Sothern Africa.</li> <li>• Prof. A. Goolam Mahomed is on the council of the South African Thoracic Society.</li> </ul>
8	<b>LATEST RESEARCH OUTPUT</b>	1. <b>Goolam Mahomed A.</b> Pulmonary thrombo-embolic disease. Continuing Medical Education. Vol. 31 No.9

		<p>September 2013:335-338</p> <ol style="list-style-type: none"> <li>2. <b>Hassan I, Goolam Mahomed A.</b> An unusual Cause of an Anterior Mediastinal Mass. Respiratory Medicine Case Reports 12 (2014) 52-54. <a href="http://dx.doi.org/10.1016/j.rmcr.2013.12.004">http://dx.doi.org/10.1016/j.rmcr.2013.12.004</a></li> <li>3. <b>Goolam Mahomed A, Komape BS.</b> Prevalence of Organisms isolated from the Respiratory tract in Intensive Care Unit (ICU) patients over a period of 1 year. South African Respiratory Journal Vol 19 no: 2 2013.page 61</li> <li>4. <b>Goolam Mahomed A,</b> Hassen MIE, Asmal Z, Tsela F. Use of inhaled nitric oxide as rescue therapy in a patient with severe ARDS: A case report. South African Journal of Critical Care. Vol. 30 No.2 November 2014 page 64</li> <li>5. Essop MR, Galie N, Badesch DB, Lalloo U, <b>Mahomed AG,</b> Naidoo DP, Ntsekhe M, Williams PG. Management of Pulmonary Hypertension. South African Medical Journal. Vol. 105 no 6 June 2015, pages 437-439</li> </ol>
9	<b>CAREER OPPOTUNITIES</b>	