

# CHEMICAL PATHOLOGY

	SUBJECT	INFORMATION
1	<b>ABOUT THE DEPARTMENT (BACKGROUND AND SERVICES RENDERED)</b>	Department of Chemical Pathology is one of the Pathology Disciplines that trains the undergraduate students in Medicine, postgraduate students in Medical Science and also specialist pathologists for the country and southern Africa in Medical Biochemistry while also providing routine and specialized biochemistry testing to the Dr George Mukhari Academic Hospital and surrounding 21 clinics. The laboratory is managed and financed by the National Health Laboratory Services and also provides testing for the referral specimens from the hospitals and clinics of Limpopo, Northwest and Northern Gauteng provinces.
2	<b>STAFF PROFILE (NAME,TITLE,CONTACT AND SHORT CV)</b>	Prof Aye Aye Khine is the Head of Department and a specialist pathologist, also further studied in Medical Genetics and has attained a postgraduate Diploma in Health Science Education. She qualified her Pathology degree at Medunsa in 1998 and further studied at Wits university. Work experience as a senior Pathologist and lecturer was natured at Medunsa, Universities of Wits and Pretoria. Afterwards, she worked as a chief specialist for the Namibia Institute of Pathology in Windhoek for 3 years, Regional laboratory consultant for William J Clinton Foundation in South East Asia, Laboratory Director at Quintiles Clinical Trial laboratory in Centurion, Pretoria and came back the University of Pretoria and NHLS joint appointment as a principle specialist and senior lecturer in 2011. In 2013, she took up the position as a HOD in the department of Chemical Pathology at the former

		<p>University of Limpopo Medunsa campus. Currently busy with her PhD in Primary Dyslipidaemias, she has published in the area of laboratory accreditation, standardization practices in the network laboratories, toxicology of soil eating, Drug of Abuse testing and Nyaope and working on the publications in the area of her PhD study, with the supervisor from the University of Cape Town.</p> <p>Dr Barbara Sedumedi is the senior consultant/lecturer of the department and her main area of interest is in the HIV patients with nutritional anaemia.</p> <p>Dr Abdur Rab is another consultant/lecturer in the department.</p> <p>We are waiting to fill one vacancy for another pathologist consultant lecturer.</p> <p>The above mentioned academic staffs are under joint appointment of NHSL and the university and key performance areas include teaching, training of pathology registrars, providing service and research output. In addition, we have one senior biomedical scientist (Mr Manie Dreyer) who is employed by the university and involved in teaching of undergraduates and postgraduate medical science students.</p> <p>There are 3 registrars in Pathology training program and they are also jointly appointed. Their mandate is to participate in the laboratory services and teaching undergraduate students while undertraining for pathology speciality. They also require conducting a small research project before qualifying from the department. The standard exit exam for registration with the HPCSA as a pathologist is the College of Pathology South Africa.</p>
3	<b>ACADEMIC PROGRAMMES: UNDER-GRADUATES AND POST-GRADUATES(DEGREE PROGRAMME,DURATION,ADMISSION REQUIREMENTS,POSSIBLE CAREER OPPORTUNITIES</b>	<p>Academic programs include MBCHB 4<sup>th</sup> year, 6<sup>th</sup> year, Practice of Medicine 2,3,5 years and Dentistry 4<sup>th</sup> year.</p> <p>For the postgraduate programs, it includes BSC (Hons) , MSC and PhD in Medical Science (Chemical Pathology) and Medical Genetics BSC (Hons) programs.</p> <p>For Pathology postgraduate program, it includes Chemical</p>

		<p>Pathology and Clinical Pathology programs. These programs train the students for careers in the public and private sectors of Pathology services, tertiary training institutes, Research and Development, Pharmaceutical and invitro Diagnostics, Quality Assurance and laboratory accreditation.</p>
4	<b>SUPPORT STAFF (PREFERABLY ADMINISTRATION STAFF)</b>	Administrative staffs are currently employed by the University (not on joint appointment). These include one secretary, one student administrator and two technical officers.
5	<b>STUDENT CLINICAL TRAINING's TIME TABLE</b>	We offer practical training and scenario based clinical learning but not with the real patients in the hospital. Time table is updated yearly based on the changes in the university calendar.
6	<b>ALUMNI (FORMER BEST STUDENT)</b>	<p>The HOD herself was awarded Cum Laude in 1998 graduation of Medunsa.</p> <p>Dr David Rambau was a former student and he is now a co-owner of Lancet private laboratory in South Africa.</p> <p>Dr Maliq Farooq is another former student and now an owner of Maliq laboratory at Louis Pasteur Hospital in Pretoria</p>
7	<b>PROFESSIONAL BODIES THAT THE DEPARTMENT IS REGISTERED WITH</b>	<p>HPCSA</p> <p>SSACB (South African Association of Clinical Biochemists)</p>
8	<b>LATEST RESEARCH OUTPUT</b>	<ul style="list-style-type: none"> <li>• Khine AA, Mokwena KN, Huma M, Fernandez L. Identifying constituents of street drug Nyaope by two gas chromatography methods. Submitted to African Journal of Alcohol and Drug abuse studies, 1 June 2015 (accepted for publication)</li> <li>• Khine AA, Mokwena KE. Drug interactions in Nyaope mixture; a challenge for withdrawal treatment programs and rehabilitation. (accepted for publication in African Journal of Alcohol and Drug abuse studies)</li> <li>• Machaka L, Khine AA. Factors associating with Geophagia in pregnant women seen at Dr George Mukhari academic hospital</li> </ul>

		and trace metals levels in their blood and urine. Submitted to Journal of Africa Health Sciences.
9	<b>CAREER OPPOTUNITIES</b>	Careers in the public and private sectors of Pathology services, tertiary training institutes, Research and Development, Pharmaceutical and invitro Diagnostics, Quality Assurance and laboratory accreditation