Sri Siddhartha Medical College

Tumakuru

Name of the Program

Post graduation MD/MS

Program outcomes: PG Degree (MD/MS)

At the end of post-graduation the students should be able to:

M.D. Anatomy:

PO01 - Develop Histology Laboratory

PO02 - Preserve the cadavers.

PO03 - Prepare Museum Models.

PO04 - Take Lectures for Under Graduate students.

M.D. Physiology:

PO01 - Be a competent Physiologist and have thorough knowledge of the body with respect toall the systems of the body including historical aspect, Evolution and development, Comparative physiology, body regulating mechanisms, applied physiology and recent advances

PO02 - Teach undergraduate medical (and Paramedical) students, the basic physiological processes occurring in the human body, and its clinical implications, patho physiology andthe physiological basis of management.

PO03 - Conduct research and publish the articles in indexed journals.

PO04 - Acquire skills in conducting and demonstrating the clinical practicals, human experiments,hematology practicals and experiments based on biophysical principles.

PO05 - Encourage the student to participate in various workshops / seminars /journal clubs /demonstration and collaborative research.

PO06 - Develop communication skills to interact with students, colleagues, superiors andother staff members.

PO07 - Have right attitude toward teaching profession.

M.D. Pathology:

PO01 -Achieve competencies pertaining to Pathology and be aware of contemporaryadvances and developments in the discipline of Laboratory Medicine.

PO02 - Acquire the basic skills in teaching of the medical and paramedical professionals.3.Describe the factors in causation of disease.

PO03 - Describe processes involved in the gross and microscopic changes of organs andtissues and explain the reasons or causes for the same.

PO04 - Explain the basis of evolution of clinical signs and symptoms.

PO05 - Perform procedures designated for laboratory detection of diseases and to process andinterpret the representative materials obtained from the patients in order to arrive at a correct diagnosis.

PO06 - Recognize and report morphological changes in cells, tissues and organs.

PO07 - Perform clinical autopsy and present CPC (Clinico Pathological Correlation)

M.D. Microbiology:

PO01 - Identify the microorganism isolated from patient's sample by using various media andbiochemical tests.

PO02 - Interpret the Antibiotic Susceptibility report.

PO03 - Report the smears using Gram stain, Zeihl-Neelson stain and other stains used foridentification of organisms.

PO04 - Identify the fungi grown in the laboratory from patient's sample.

PO05 - Perform various serological tests including ELISA used for the diagnosis ofinfections.

M.D. Community Medicine:

PO01 - Know the structure and functioning of the health system at the National andInternational levels and its historical perspectives

PO02 - Plan and conduct an educational session/programme. He/ She will be able to draw uplesson plan with details of educational objectives.

PO03 - Know the principles of nutrition, maternal health, and family welfare and put thesame into practice.

PO04 - Apply the principles of Epidemiology and Biostatistics to health practice including thedesign and implementation of health related research studies and clinical preventive medicine trails.

PO05 - Know the principles of Communicable and Non-communicable diseases control andassist in the implementation of National Health programmes at a peripheral level.

PO06 - Identify the socio-cultural dimension in Health and disease and apply this knowledge inthe design and implementation of an integrated Health and development program.

M.D. General Medicine:

PO01 - Have prerequisite knowledge, skill and communication skill to diagnose and treatdiseases.

PO02 - Elicit and record history (OPD/IPD/Consent/Death certificate),do meticulous physicalexamination, choose the appropriate diagnostic tests and interpret tests based on scientific validity, cost effectiveness and clinical context.

PO03 - Perform procedural skills (independently): central venous catheterisation, lumbar puncture, bone marrow aspiration, endotracheal intubation, pleural tapping, ascetic,artificial ventilation, BLS/ACLS etc.)

PO04 - Prescribe and safely administer appropriate therapies, pharmacotherapy andinterventions based on the principles of rational drug therapy and scientific validity.

PO05 - Have knowledge of national and regional health programmes and policies (RNTCP,malaria, AIDS etc).

PO06 - Have knowledge and skills to manage communicable and non communicable disease(Critical illness, infectious, CVS, RS, abdominal, CNS, toxin etc.)

PO07 - Participate in research activity, CME, Workshops, conferences etc.

PO08 - Have significant knowledge of principles of Bioethics and Medicolegal aspects and itsimportance.

PO09 - Have knowledge and able to prescribe Post exposure prophylaxis for various diseases(HIV, HbsAg, Rabies etc.)

M.D. Pediatrics:

PO01 - Possess detailed knowledge of bodily functions and disease processes.

PO02 - Perform thorough history taking, complete physical examination and ability to arrive atprobable diagnosis.

PO03 - Quickly perform triage on arrival of patient – address patients on priority

basis,identify critically ill patients, refer patients to higher centre if required.

PO04 - Initiate emergency treatment and stabilize patient followed by definitive treatment.

PO05 - Perform of emergency and planned procedures – i.e. cannula insertion, intubation,intercostal drainage, central line insertions, biopsy, etc.

PO06 - Perform neonatal and paediatric resuscitation. In neonatalogy, they must know aboutcare of preterm, breast feeding awareness and counselling.

PO07 - Manage pediatric emergencies–status epilepticus, status asthmaticus, cardiac failure,shock, intoxications, poisonings etc.

PO08 - Diagnose malnutrition, plot Growth charts, and treat with dietary management andcounselling

PO09 - Follow protocols for rational use of antibiotics and other drugs

PO10 - To be accustomed to good communication with patient and relatives especially insituations like explaining bad prognosis, declaring death etc.

M.S. General Surgery:

PO01 - Know etiology, clinical features and principles of management of common surgicalconditions like ulcer, various types of swellings, hernia, burns, varicose veins, anal fissures and hemorrhoids, wound healing

PO02 - Know etiology, clinical features and principles of management of acute abdomen in allage groups

PO03 - Diagnose premalignant and malignant conditions and their staging

PO04 - Perform surgical Skills such as First aid including suturing and minor surgical proceduresin patients

PO05 - Perform planned operative procedures like appendicectomy, hernia repair

PO06 - Perform excision of lipoma, cysts etc

PO07 - Assist various complicated procedures like breast, thyroid surgeries and transplant.

PO08 - Perform limb amputation in patients

PO09 - Communicate and counsel patients and families on the outcome and rehabilitationdemonstrating empathy and care.

M.D. Radiology:

PO01 - Become proficient diagnostic Radiology, well versed with branches of imaging modalities, conventional, X-rays, CT, USG, MRI, Image guided procedure in ultrasoundand CT

PO02 - Imbibe practice of research of publications while pursuing the dissertation and extraresearch projects.

PO03 - Use IT tools for preparing seminars, case presentations.

M.S Obstetrics and Gynaecology:

PO01 - Provide quality maternal care in the diagnosis and management of Antenatal, Intra-natal & Post natal period of normal and abnormal pregnancy.

PO02 - Provide effective & adequate care to the obstetrical and early neonatal emergencies.

PO03 - Provide counselling & knowledge regarding family planning methods & perform medical termination of pregnancy. Organize & implement maternal components in the"National Health Programs".

PO04 - Develop adequate surgical skills to manage common Obstetrical & Gynaecologicalproblems.

PO05 - Manage normal & abnormal pregnancy during Antenatal, Intra-natal &

Post-natalperiod, gynaecological Endocrinological & Infertility knowledge.
PO06 - Have knowledge of benign & malignant Gynaecological disorders, operative procedures including Endoscopy (Diagnostic & therapeutic) & its related complications.
PO07 - Have knowledge of interpretation of various laboratory investigations & other diagnosticmodalities in Obstetrics & Gynaecology.
PO08 - Have knowledge of essentials of Pediatric & Adolescent Gynaecology, reproductive& child Health, family welfare & reproductive tract infections.
PO09 - Have knowledge of STD & AIDS & Government of India perspective on women's health related issues. Demonstrate skills in documentation of case details and of morbidity & mortality data relevant to the assigned situation.
PO10 - Have knowledge of medico legal aspects in Obstetrics & Gynaecology.
PO11 - Be familiar with research methodologies & use of newer information technologies.
PO12 - Be up to date with advances in the field of Obstetrics & Gynaecology.
PO13 - Facilitate learning of medical / nursing students, paramedical health workers as ateacher trainer.
PO14 - Demonstrate empathy & humane approach towards patients and their families.
PO15 - Function as a productive member of a team engaged in health care, research &education.

M.D. Anesthesia:

PO01 - Effectively and independently conduct a comprehensive perioperative assessment of apatient and formulate a comprehensive perioperative management plan and implement it.
PO02 - Effectively prepare the operating room for any type of surgical procedure.
PO03 - Efficiently perform regional anesthesia, place nerve blocks and invasivehemodynamic monitors.
PO04 - Interpret and explain laboratory data and diagnostic tests relevant to the perioperativemanagement of patients.
PO05 - Recognize in a timely manner abnormal patterns of vital signs and life-threateningsituations during the care of a patient.
PO06 - Discuss pathophysiologic mechanisms of patients undergoing perioperative care.
PO07 - Describe current evidence based guidelines in the management and assessment ofperioperative patients.
PO08 - Discuss the indications and management of patients requiring vasoactive drugs
PO09 - Discuss the evidence base guidelines for transfusion medicine.
PO10 - Describe the medications and mechanism of action of the most common drugs utilized inthe perioperative management of patients.
PO11 - Identify by accessing electronic databases and interpret medical literature as it applies topatient care in the perioperative setting.
PO12 - Effectively communicate with the members of the operating room team and differenthealthcare services.

M.S. Orthopaedics:

PO01 - Basic sciences of locomotor system involving embryology, development, histology ofbone, cartilage, muscle and nerve
PO02- Know anatomy, physiology, pathology of bones, cartilage, muscles,

collagen, nerveswith congenital affection, infections, tumour, metabolic affections , etc

PO03 - Understand and offer treatment of metabolic bone diseases, bone infections,congenital anomalies, diseases of joint, tumour, amputations, etc

PO04 - Have knowledge of healing of wound healing, fractures, dislocation, innervations, andmanagement of the same

PO05 - Offer advice, and after management of advanced treatment in spine diseases, arthroscopyand Arthroplasty, microsurgery, orthotics and protection

M.S. ENT:

PO01 - Know aetiology, clinical features, diagnosis and management of common diseases ofENT.

PO02 - Know benign and malignant conditions in ENT and their complications.

PO03 - Know Clinical features, diagnosis and management of facial nerve palsy vertigoMeinere"s disease, CSOM, otosclerosis etc.

PO04 - Know Sialoendoscopy and Navigational endoscopic surgery in ENT as a part ofrecent advances in ENT and competency based curriculum.

PO05 - Demonstrate the correct technique to perform and interpret pure tone audiogram &impedance audiogram.

PO06 - Identify, resuscitate and manage ENT emergencies (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract).

PO07 - Secure airway and perform cardio-pulmonary resuscitation (CPR) in emergency situation.

PO08 - Perform ear syringing for retrieval of foreign body from ear.

PO09 - Provide first aid in emergency cases of active Epistaxis by way of both anterior andposterior nasal packing.

PO10 - Perform common ENT operations like tonsillectomy, DNS etc.

PO11 - Assist in major surgeries like thyroidectomy removal of malignancies and others.

PO12 - Inculcate care and skill while handling delicate equipments.

M.S. Ophthalmology:

PO01 - Diagnose and manage all ophthalmic diseases.

PO02 - Perform cataract, glaucoma, squint and other minor ocular surgeries independently,manage ocular emergencies.

PO03 - Know to refer critical cases to respective super specialties.

PO04 - Be well versed in using basic and recent investigative and management instruments(e.g.:- Slitlamp, Tonometry, Perimetry, OCT and Lasers).

M.D. Dermatology:

PO01 - Describe the etiology, pathogenesis and diagnostic features of common skinconditions like pediculosis, dermatophytes, viral infections of the skin, fixed drug eruptions and Steven Johnson syndrome.

PO02 - Identify and distinguish the dermatologic manifestations of HIV its complications,opportunistic infections and adverse reactions.

PO03 - Enumerate the indications and describe the pharmacology, administration and adversereaction of pharmacotherapies for dermatologic lesions in HIV.

PO04 - Identify and distinguish fixed drug eruptions and Steven Johnson

syndrome fromother skin lesions.

PO05 - Identify and classify syphilis based on the presentation and clinical manifestations and enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis.

PO06 - Describe the etiology, diagnostic and clinical features of nonsyphilitic sexually transmitted diseases (chancroid, donovanosis and LGV) and Identify and differentiate based on the clinical features non- syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV).

PO07 - Enumerate the indications, describe the pharmacology, indications and adverse reactions of drugs used in the non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)

PO08 - Identify and distinguish the dermatologic manifestations of HIV its complications, opportunistic infections and adverse reactions

PO09 - Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in pyoderma.