

SGT Medical College, Hospital & Research Institute

-(A Constituent of SGT University)

Budhera, Gurugram-Badli Road, Gurugram (Haryana) - 122505 Ph.: 0124-2278183, 2278184, 2278

DEPARTMENT OF PEDIATRICS

MINUTES OF MEETING

The meeting of the Board of Studies, Department of Pediatrics was held on 12.12.2019 at 02:30

PM in Room No. 212, Department of Pediatrics

The following members were present

- 1. Dr. Pankaj Abrol- Convener
- 2. Dr. Anita Sharma- Member
- 3. Dr. Shashi Sharma- Member
- 4. Dr. Satya Kiran Kapur Member
- 5. Dr. Richa Member
- 6. Dr. T.P Yadav External Member
- 7. Dr. Anand Kumar Bhardwaj External Member

The agenda discussed was consideration of Syllabus, curriculum and evaluation scheme for MD Pediatrtics.

The Board deliberated in details and approved the syllabus, curriculum and scheme of evaluation for MD Pediatrics placed at Annexure- I

Dr. Pankaj Abrol Professor & Head

(Convener)

Dr. T. P Yadav

Professor, Pediatrics

(External Member)

Dr. Anand Kumar Bhardwaj

Professor & Head (External Member)

Dr. Anita Sharma

Professor, Pediatrics

(Member)

Dr. Shashi Sharma

(Member)

Dr. Satya Kiran Kapur

Professor, Pediatrics Professor, Pediatrics

(Member)

Dr. Richa

Assistant Professor

(Member)

partment of Paediatrics SGT Medical College & Hospital, Budhara, Gurgaon



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Date: 05.12.2019

DEPARTMENT OF PEDIATRICS

OFFICE ORDER

The Board of Studies, Department of Pediatrics, SGT University is being constituted as

below:

- 1. Dr. Pankaj Abrol- Convener
- 2. Dr. Anita Sharma- Member
- 3. Dr. Shashi Sharma- Member
- 4. Dr. Satya Kiran Kapur Member
- 5. Dr. Richa Member
- 6. Dr. T.P Yadav External Member
- 7. Dr. Anand Kumar Bhardwaj External Member

Professor & Head Dept. of Pediatrics

Copy to:

- 1. Dean FMHS
- 2. All PG Board Members

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DEPARTMENT OF PEDIATRICS

Date: 06.12.2019

MEETING NOTES

A meeting of Board of studies of Department of Pediatrics is scheduled to be held on 12.12.2019 at 02:30 PM in the office of the undersigned in room No. 212 to consider MD Pediatrics syllabus curriculum and scheme of evaluation of SGT University.

Professor & Head Dept. of Pediatrics

Copy to:

- 1. Dean FMHS
- 2. All Members of PG Board of Studies

Professor & Head
Department of Paediatrics
SGT Medical College & Hospital,
Budhera, Gurgaon

GUIDELINES FOR COMPETENCY BASED POSTGRADUATE TRAINING PROGRAMME FOR MD IN **PAEDIATRICS**

The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training.

A post graduate student after undergoing the required training should be able to deal effectively with the needs of the community and should be competent to handle the problems related to his specialty including recent advances. S/He should also acquire skills in teaching of medical/paramedical students.

SUBJECT SPECIFIC OBJECTIVES

The objectives of MD Course in Pediatrics are to produce a competent pediatrician who:

- Recognizes the health needs of infants, children and adolescents and carries out professional obligations in keeping with principles of the National Health Policy and professional ethics
- Has acquired the competencies pertaining to Pediatrics that are required to be practiced in the community and at all levels of health system
- Has acquired skills in effectively communicating with the child, family and the
- Is aware of contemporary advances and developments in medical sciences as related to child health
- Is oriented to principles of research methodology
- Has acquired skills in educating medical and paramedical professionals
- Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients

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SUBJECT SPECIFIC COMPETENCIES

A. Cognitive domain

At the end of the MD course in Paediatrics, the students should be able to:

- 1. Recognize the key importance of child health in the context of the health priority of country
- Practice the specialty of Paediatrics in keeping with the principles of professional ethics
- Identify social, economic, environmental, biological and emotional determinants
 of child and adolescent health, and institute diagnostic, therapeutic, rehabilitative,
 preventive and promotive measures to provide holistic care to children
- 4. Recognize the importance of growth and development as the foundation of Paediatrics and help each child realize her/his optimal potential in this regard
- 5. Take detailed history; perform full physical examination including neurodevelopment and behavioral assessment and anthropometric measurements in the child and make clinical diagnosis
- 6. Perform relevant investigative and therapeutic procedures for the paediatric patient
- 7. Interpret important imaging and laboratory results
- 8. Diagnose illness based on the analysis of history, physical examination and investigations
- Plan and deliver comprehensive treatment for illness using principles of rational drug therapy
- 10. Plan and advice measures for the prevention of childhood disease and disability
- 11. Plan rehabilitation of children with chronic illness and handicap and those with special needs
- 12. Manage childhood emergencies efficiently
- 13. Provide comprehensive care to normal, 'at risk' and sick neonates
- 14. Demonstrate skills in documentation of case details, and of morbidity and mortality data relevant to the assigned situation
- 15. Recognize the emotional and behavioral characteristics of children, and keep these fundamental attributes in focus while dealing with them
- 16. Demonstrate empathy and humane approach towards patients and their families and keep their sensibilities in high esteem
- 17. Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities
- 18. Develop skills as a self-directed learner. Recognize continuing educational needs; use appropriate learning resources and critically analyze published literature in order to practice evidence-based Paediatrics
- Demonstrate competence in basic concepts of research methodology and epidemiology
- 20. Facilitate learning of medical/nursing students, practicing physicians, paramedical health workers and other providers as a teacher-trainer
- 21. Implement National Health Programs, effectively and responsibly
- 22. Organize and supervise the desired managerial and leadership skills
- 23. Function as a productive member of a team engaged in health car, research and education.
- 24. Recognize mental conditions, characterized by self absorption, reduced ability to respond, abnormal functioning in social interaction with or without repetitive behavior, poor communication (autism) and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients.

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B. Affective Domain:

1. Should be able to function as a part of a team, develop an attitude of cooperation with colleagues, and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion.

2. Always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient

including the right to information and second opinion.

 Develop communication skills to word reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.

C. Psychomotor domain

At the end of the course, the student should have acquired following skills:

I. History and Examination

The student must gain proficiency in eliciting, processing and systemically presenting Paediatrics history and examination with due emphasis of the important and minimization of less important facts. The following skills must be achieved:

i) Recognition and demonstration of physical findings

ii) Recording of height, weight, head circumference and mid arm circumference and interpretation of these parameters using growth reference standard assessment of nutritional status and growth

iii) Assessment of pubertal growth

iv) Complete development assessment by history and physical examination, and recognizing developmental disabilities, including autism

v) Systematic examination

vi) Neonatal examination including gestation assessment by physical neurological criteria

vii) Examination of the fundus and the ear-drum

viii) Skills related to IMNCI and IYCF

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II. Monitoring Skills

Non-invasive monitoring of blood pressure, pulse and respiratory rates, saturation; ECG

III. Investigative Procedures

- i) Venous, capillary and arterial blood sampling using appropriate precautions
- ii) Pleural, peritoneal, pericardial aspiration; subdural, ventricular and lumbar puncture
- iii) Tuberculin test
- iv) Biopsy of liver and kidney
- v) Urethral catheterization and suprapubic tap
- vi) Gastric content aspiration

IV. Therapeutic Skills

- i) Breast feeding assessment and counseling; management of common problems
- ii) Establishment of central and peripheral vascular access; CVP monitoring
- iii) Administration of injections using safe injection practices
- iv) Determination of volume and composition of intravenous fluids and heir administration
- v) Neonatal and Pediatric basic and advanced life support
- vi) Oxygen administration, CPAP and nebulization therapy
- vii) Blood and blood component therapy
- viii) Intraosseous fluid administration
- ix) Phototherapy, umbilical artery and venous catheterization and exchange transfusion
- x) Nasogastric feeding
- xi) Common dressings and abscess drainage; intercostal tube insertion
- xii) Basic principles of rehabilitation
- xiii) Peritoneal dialysis
- xiv) Mechanical ventilation

V. Bed side investigations, including

- i) Complete blood counts, micro ESR, peripheral smear
- ii) Urinalysis
- iii) Stool microscopy and hanging drop
- iv) Examination of CSF and other body fluids
- v) Blood sugar
- vi) Shake test on gastric aspirate
- vii) Gram stain, ZN stain

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VI. Patient Management Skills

- i) Proficiency in management of pediatric emergencies, including emergency triaging
- ii) Drawing and executing patient management plan and long term care
- iii) Documenting patient records on day to day basis and problem oriented medical record
- iv) Care of a normal and sick newborn, management of neonatal disorders hypothermia, sepsis, convulsions, jaundice, metabolic problems
- Identifying need for timely referral to appropriate departments/health facility and pre-transport stabilization of the sick child

VII. Communication Skills; Attitudes; Professionalism

- i) Communicating with parents/child about nature of illness and management plan prognostication, breaking bad news
- ii) Counseling parents on breast feeding, nutrition, immunization, disease prevention, promoting healthy life style
- iii) Genetic counseling
- iv) Communication and relationship with colleagues, nurses and paramedical workers
- v) Appropriate relation with pharmaceutical industry
- vi) Health economics
- vii) Professional and research ethics

VIII. Interpretation of Investigations

- i. Plan x-ray chest, abdomen, skeletal system
- ii. Contrast radiological studies: Barium swallow, barium meal, barium enema, MCU
- iii. Ultrasound skull and abdomen
- iv. Histopathological, biochemical and microbiological investigations
- v. CT Scan and MRI (skull, abdomen, chest)
- vi. Electrocardiogram, electroencephalogram
- vii. Arterial and venous blood gases
- viii. **Desirable**: Interpretation of radio-isotope studies, audiogram, neurophysiological studies, (BERA, VER, Electromyography [EMG], Nerve Conduction Velocity [NCV]), lung function tests

IX. Academic Skills

- i. Familiarity with basic research methodology, basic IT skills. Planning the protocol of the thesis, its execution and final report
- ii. Review of literature
- iii. Conducing clinical sessions for undergraduates medical students
- iv. Desirable: writing and presenting a paper. Teaching sessions for nurses and medical workers

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Syllabus

I Course contents: Guidelines

During the training period, effort must be made that adequate time is spent in discussing child health problems of public health importance in the country or particular region.

Basic Sciences

- · Principles of inheritance, chromosomal disorders, single gene disorders, multifactorial / polygenic disorders, genetic diagnosis and prenatal diagnosis, pedigree drawing.
- · Embryogenesis of different organ systems especially heart, genitourinary system, gastro-intestinal tract. Applied anatomy and functions of different organ systems.
- Physiology of micturition and defecation; placental physiology; fetal and neonatal circulation; regulation of temperature, blood pressure, acid base balance, fluid electrolyte balance and calcium metabolism.
- Vitamins and their functions.
- Hematopoiesis, hemostasis, bilirubin metabolism.
- Growth and development at different ages, growth charts; puberty and its regulation.
- Nutrition: requirements and sources of various nutrients.
- Pharmacokinetics of common drugs, microbial agents and their epidemiology.
- Basic immunology, biostatistics, clinical epidemiology, ethical and medico-legal issues.
- Vaccination
- Teaching methodology and managerial skills.

Understanding the definition, epidemiology, aetiopathogenesis, presentation, complications, differential diagnosis and treatment of the following, but not limited to:

Growth and development

 Principles of growth and development □ ADHD. ☐ Sexual maturation and its disturbances Normal growth and development • Failure to thrive and short stature

Neonatology

- Perinatal care
- · Care in the labor room and resuscitation
- Prematurity
- Hypothermia
- Infections

- ☐ Autism (as mentioned in objective 24)
- ☐ Low birth weight ☐ Newborn feeding
- ☐ Respiratory distress
- ☐ Apnea
- ☐ Anemia and bleeding disorders

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Jaundice	☐ Gastrointestinal disorders		
Neurologic disorders	☐ Malformations		
Renal disorders	☐ Understanding of perinatal medicine		
 Thermoregulation and its disorders 			
Nutrition			
 Maternal nutritional disorders; 	☐ Nutrition for the low birth		
weight impact on fetal outcome	☐ Breast feeding		
 Infant feeding including 	☐ Vitamin and mineral		
deficiencies complementary feeding			
 Protein energy malnutrition 	□ Obesity		
Adolescent nutrition	☐ Parenteral and enteral nutrition		
• Nutritional management of systemic illnes	s (gi, hepatic, renal illness)		
Cardiovascular			
Heart diseases	☐ Rheumatic fever and rheumatic heart		
Congenital (cyanotic and acyanotic)	disease		
 Infective endocarditis 	□ Arrhythmia		
 Disease of myocardium 	☐ Diseases of		
	pericardium		
(cardiomyopathy, myocarditis) • Hyperlipidemia in children	☐ Systemic hypertension		
Congenital and acquired disorders of no tract tonsils and adenoids	☐ Obstructive sleep apnea		
 Congenital anomalies of lower respiratory 	tract		
 Foreign body in larynx, trachea and bronch 	hus 🗆 Trauma to larynx		
 Subglottic stenosis (acute, chronic) 	□ Neoplasm of larynx and trachea		
Bronchial asthma	☐ Bronchiolitis		
Acute pneumonia	☐ Aspiration pneumonia, GER		
Recurrent, interstitial pneumonia	☐ Suppurative lung disease		
Atelectasis, pneumothorax	☐ Lung cysts, mediastinal mass		
Pleural effusion, empyema.			
Gastrointestinal and liver disease	Discussion of doglytition		
Disease of oral cavity	☐ Disorders of deglutition		
	and esophuags		
Peptic ulcer disease	☐ Congenital pyloric stenosis☐ Acute and chronic		
Intestinal obstruction	pancreatic disorders		
	□ Acute and chronic diarrhea		
Malabsorption syndrome	☐ Inflammatory bowel disease		
Irritable bowel syndrome	☐ Anorectal malformations		
Hirschsprung disease			
Hepatitis	☐ Hepatic failure		
Chronic liver disease	 ☐ Budd-chiari syndrome ☐ Cirrhosis and portal hypertension 		
Metabolic diseases of liver	Chinosis and portar hyperchision		

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Nephrologic and Urologic disorders · Acute and chronic glomerulonephritis ☐ Urinary tract infection Hemolytic uremic syndrome ☐ Involvement in systemic diseases Vur and renal scarring ☐ Neurogenic bladder. · Renal tubular disorders voiding dysfunction ☐ Renal and bladder stones Congenital and hereditary renal disorders ☐ Hydronephrosis · Posterior urethral valves • Undescended testis, hernia, hydrocoele Neurologic disorders ☐ Epilepsy, epileptic syndromes Seizure and non-seizure paroxysmal events ☐ Brain abscess Meningitis, encephalitis ☐ Guillain-barre syndrome Febrile encephalopathies ☐ Hiv encephalopathy Neurocysticercosis and other neuroinfestations ☐ Cerebral palsy Sspe ☐ Neurodegenerative disorders Neurometabolic disorders ☐ Mental retardation Neuromuscular disorders ☐ Muscular dystrophies Learning disabilities ☐ Malformations · Acute flaccid paralysis and afp surveillance □ Tumors Movement disorders Hematology and Oncology ☐ Hemolytic anemias Deficiency anemias ☐ Pancytopenia · Aplastic anemia ☐ Disorders of hemostasis • Thrombocytopenia ☐ Transfusion related infections • Blood component therapy ☐ Acute and chronic leukemia Bone marrow transplant/stem cell transplant ☐ Lymphoma Myelodysplastic syndrome ☐ Hypercoagulable states · Neuroblastoma, Wilms tumor Endocrinology ☐ Diabetes insipidus Hypopituitarism/hyperpituitarism ☐ Hypo – and hyper-thyroidism Pubertal disorders ☐ Cushing's syndrome Adrenal insufficiency ☐ Diabetes mellitus Adrenogenital syndromes ☐ Short stature Hypoglycemia □ Obesity Gonadal dysfunction and intersexuality

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Infections	
Bacterial (including tuberculosis)	☐ Viral (including HIV)
• Fungal	□ Parasitic
Rickettssial	☐ Mycoplasma
Protozoal and parasitic	☐ Nosocomial infections
Control of epidemics and infection prevention	☐ Safe disposal of infective material
Emergency and Critical Care	
Emergency care of shock	☐ Cardio-respiratory arrest
Respiratory failure	☐ Acute renal failure
Status epilepticus	☐ Acute severe asthma
Fluid and electrolyte disturbances	☐ Acid-base disturbances
• Poisoning	□ Accidents
Scorpion and snake bites	
Immunology and Rheumatology	
Arthritis (acute and chronic)	☐ Vasculitides
Immunodeficiency syndromes	☐ Systemic lupus erythematosus
ENT	
Acute and chronic otitis media	☐ Hearing loss
Post-diphtheritic palatal palsy	☐ Acute/chronic tonsillitis/adenoids
Allergic rhinitis/sinusitis	☐ Foreign body
Skin Diseases	
Exanthematous illnesses	☐ Vascular lesions
Pigment disorders	☐ Vesicobullous disorders
• Infections	☐ Steven-johnson syndrome
Atopic, seborrheic dermatitis	□ Drug rash
Alopecia	☐ Icthyosis
Eye problems	
 Refraction and accommodation 	☐ Partial/total loss of vision
Cataract	☐ Night blindness, xerophthalmia
• Strabismus	☐ Conjunctival and corneal disorders
Disorders of retina, including tumors	
Behavioral and Developmental disorders	
Rumination, pica	☐ Enuresis, encopresis
Sleep disorders	☐ Habit disorders
Breath holding spells	☐ Anxiety disorders
Mood disorders	□ Temper tantrums
Attention deficit hyperactivity disorders	□ Autism (as mentioned in objective 24)
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•	Orthopaedics	
	 Major congenital orthopedic deformities 	☐ Bone and joint infections
	 Common bone tumors 	
	II. Approach to clinical	
	problems	
	Growth and development	
	Precocious and delayed puberty	☐ Developmental delay
	Impaired learning	- Developmental delay
	• Impaned rearining	
	Neonatology	
	• Low birth weight newborn	☐ Sick newborn
	Nutrition	
	 Lactation management and complementary 	☐ Protein energy malnutrition
	feeding	(underweight, wasting, stunting)
	Failure to thrive	and micronutrient deficiencies
	Cardiovascular	
	Murmur	☐ Cyanosis
	Congestive heart failure	☐ Systemic hypertension
	Arrhythmia	□ Shock
	GIT and Liver	
	Acute diarrhea	☐ Persistent and chronic diarrhea
	Abdominal pain and distension	□ Ascites
	• Vomiting	□ Constipation
	Gastrointestinal bleeding	□ Jaundice
	Hepatosplenomegaly	☐ Hepatic failure and encephalopathy
	Respiratory	
	Cough/chronic cough	☐ Hemoptysis
,	Wheezy child	☐ Respiratory distress
	wheely clina	2 respines, abuss
	Infections	
	Acute onset pyrexia	☐ Prolonged pyrexia with and
	Recurrent infections	without localizing signs
	Nosocomial infections	☐ Fever with xanthema
	Renal	D Distingth and in continues
	Hematuria/dysuria Hematuria/dysuria	☐ Bladder/bowel incontinence
	Voiding dysfunctions	☐ Renal failure (acute and chronic)
	Hypertension	
	Hematology and Oncology	
	• Anemia	□ Bleeding
	Neurology	
		a land
	Professor & Head	ho los
	epartment of Paediatrics	
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Miscellaneous

- · Skin rash
- Epistaxis
- Arthralgia, arthritis

	Lymp	hade	nopathy
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Once a week

☐ Proptosis

TEACHING AND LEARNING METHODS

Postgraduate teaching programme

General principles

Acquisition of practical competencies being the keystone of PG medical education, PG training should be skills oriented. Learning in PG program should be essentially self-directed and primarily emanating from clinical and academic work. The formal sessions are merely meant to supplement this core effort.

Teaching methodology

This should include regular bedside case presentations and demonstrations, didactic lectures, seminars, journal clubs, clinical meetings, and combined conferences with allied departments. The post graduate student should be given the responsibility of managing and caring for patients in a gradual manner under supervision. Department should encourage e-learning activities.

Formal teaching sessions

In addition to bedside teaching rounds, at least 5-hr of formal teaching per week are necessary. The departments may select a mix of the following sessions:

Journal club t

Seminar Once a fortnight

• Case discussions once a month

Case discussions once a month
 Interdepartmental case or seminar Once a month
 [Cardiology, Pediatric Surgery]

Attend accredited scientific meetings (CME, symposia, and conferences).

 Additional sessions on resuscitation, basic sciences, biostatistics, research methodology, teaching methodology, hospital waste management, health economics, medical ethics and legal issues related to pediatric practice are suggested.

There should be a training program on Research methodology for existing faculty

to build capacity to guide research.

• The postgraduate students shall be required to participate in the teaching and training programme of undergraduate students and interns.

 A postgraduate student of a postgraduate degree course in broad specialities/super specialities would be required to present one poster presentation, to read one paper at a national/state conference and to present one research paper which should be published/accepted for publication/sent for publication during the period of his postgraduate studies so as to make him eligible to appear at the postgraduate degree examination.

• Log book: During the training period, the post graduate student should maintain a Log Book indicating the duration of the postings/work done in Pediatric Wards,

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Rotations

The postgraduate student should rotate through all the clinical units in the department. In addition, following special rotations should be undertaken:

Mandatory

Neonatology, perinatology Intensive care, emergency

Desirable

Posting in Out Patient Services of the following specialties is recommended Posting 15 days each.

- Skin
- Pediatric Surgery
- Physical Medicine and Rehabilitation
- Community

Note: Additionally, the PG students may be sent to allied specialties (Cardiology, Neurology, nephrology *etc.*) depending on facilities available. It should be ensured that the training conforms to the curriculum.

Thesis

Objectives

By carrying out a research project and presenting his work in the form of thesis, the student shall be able to:

- Identify a relevant research question
- · Conduct a critical review of literature
- Formulate a hypothesis
- · Determine the most suitable study design
- · State the objectives of the study
- Prepare a study protocol
- Undertake a study according to the protocol
- Analyze and interpret research data, and draw conclusions
- · Write a research paper

Guidelines

While selecting the topic, following should be kept in mind:

- The scope of study is limited to enable its conduct within the resources and time available
- The study must be ethically appropriate
- The emphasis should be on the process of research rather than the results
- The protocol, interim progress and final presentation is made formally to the department
- · Only one student per teacher/thesis guide

There should be periodic department review of the thesis work, as per following schedule:

End of 6 months

During 2nd yr

6 months prior to examination

Submission of protocol

Mid-term presentation

Final presentation; submission

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ASSESSMENT

FORMATIVE ASSESSMENT, ie., assessment to improve learning

Formative assessment should be continual and should assess medical knowledge, patient care, procedural & academic skills, interpersonal skills, professionalism, self directed learning and ability to practice in the system.

General Principles

Internal Assessment should be frequent, cover all domains of learning and used to provide feedback to improve learning; it should also cover professionalism and communication skills. The Internal Assessment should be conducted in theory and practical/clinical examination.

Quarterly assessment during the MD training should be based on:

- 1. Journal based / recent advances learning
- 2. Patient based /Laboratory or Skill based learning
- 3. Self directed learning and teaching
- 4. Departmental and interdepartmental learning activity
- 5. External and Outreach Activities / CMEs

The student to be assessed periodically as per categories listed in postgraduate student appraisal form (Annexure I).

SUMMATIVE ASSESSMENT, ie., assessment at the end of training

The summative examination would be carried out as per the Rules given in POSTGRADUATE MEDICAL EDUCATION REGULATIONS, 2000. The postgraduate examination shall be in three parts:

1. Thesis

Thesis shall be submitted at least six months before the Theory and Clinical / Practical examination. The thesis shall be examined by a minimum of three examiners; one internal and two external examiners, who shall not be the examiners for Theory and Clinical examination. A post graduate student shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

2. Theory examination

The examinations shall be organized on the basis of 'Grading'or 'Marking system' to evaluate and to certify post graduate student's level of knowledge, skill and competence at the end of the training. Obtaining a minimum of 50% marks in 'Theory' as well as 'Practical' separately shall be mandatory for passing examination as a whole. The examination for M.D./ MS shall be held at the end of 3rd academic year. An academic term shall mean six month's training period.

There shall be four theory papers. Each paper should have 10 short essay questions (SEQ).

Paper I: Basic sciences as applied to Paediatrics

Paper II: Neonatology and community Paediatrics

Paper III: General Paediatrics including advances in Paediatrics relating to Cluster I specialties

Paper IV: Paediatric Medicine including advances in Paediatrics relating to Cluster II specialties

Cluster I: Nutrition. Growth and Development. Immunization. Infectious disease.

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3. Practical/clinical and Oral/viva voce examination Practical examination

Case I

Case II (Newborn)

Case III

OSCE may be used

Oral/Viva voce examination on defined areas by each examiner separately. Oral examination shall be comprehensive enough to test the post graduate student's overall knowledge of the subject.

Recommended Reading: Books (latest edition)

- 1. Nelson's Textbook of Pediatrics, Kliegman et al (Editors)
- 2. Manual of Neonatal care, Cloherty
- 3. Nada's Pediatric Cardiology, Kaene
- 4. PG Textbook of Pediatrics, IAP P Gupta et al (Editors)
- 5. Clinical Methods in Pediatrics, P Gupta
- 6. Care of the newborn, Meharban Singh

Journals

Minimum 03-05 International Journals and 02 national (all indexed) journals

A. International Journals

- 1. Pediatrics
- 2. The Journal of Pediatrics
- Archives of disease in childhood
- 4. Pediatric clinic of North America
- 5. Pediatric Research
- 6. The Pediatric infectious disease Journal

B. National Journals

- 1. Indian Pediatrics
- 2. Indian Journal of Pediatrics
- 3. Journal of Neonatology
- 4. Pediatric Hematology Oncology Journal

Annexure I

Orientation sessions for PG students joining MD in Pediatrics

This could be spread over 4-5 sessions once or twice a week depending on departmental routine and feasibility.

For all PG students

Orientation to the Hospital: Various Departments and fagilities available

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Pediatric PGs

Introduction to Residency in Pediatrics (Seminars)

- Universal precautions and appropriate disposal of hospital waste
- Management of shock
- Congestive cardiac failure
- Normal fluid and electrolyte requirement and their disorders
- Interpretation and management of disorders of acid-base balance
- Evaluation of a sick newborn
- Management of seizures, hypothermia and hypoglycemia in the newborn
- Management of seizures and status epilepticus
- Management of comatose patients
- Hospital management of severe PEM
- Acute kidney injury
- Fulminant hepatic failure
- Management of respiratory distress
- Management of acute diarrhea
- Approach to a bleeding child and its management
- Rational antibiotic therapy

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Postgraduate Students Appraisal Form Pre / Para / Clinical Disciplines

Name of the Department/Unit:

Name of the PG Student

PeriodofTraining

: : FROM.....TO.....

Sr. No.	PARTICULARS	Not Satisfactory	Satisfactory	More Than Satisfactory	Remarks
		123	456	789	
1.	Journal based / recent advances learning				
2.	Patient based /Laboratory or Skill based learning				
3.	Self directed learning and teaching				
4.	Departmental and interdepartmental learning activity				
5.	External and Outreach Activities / CMEs	•			
6.	Thesis / Research work				
7.	Log Book Maintenance				

Publications		Yes/ No	
Remarks*			

*REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended.

SIGNATURE OF ASSESSEE

SIGNATURE OF CONSULTANT

SIGNATURE OFHOD

Professor & Head
Ser Medical College & Houpital,
Budhera, Gurgaon
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