REPORT OF THE SUB-COMMITTEE FOR CURRICULUM IN PEDIATRICS FOR UNDERGRADUATE MEDICAL EDUCATION

In accordance with the request of the Medical Council of India, a Committee (Annexure 1) was constituted to review the undergraduate medical curriculum in relation to pediatrics.

The specific suggestions of the committee with respect to the tasks assigned for recommending the curriculum in Pediatrics for Undergraduate Medical Education are detailed below.

I. Syllabus

The following is a broad outline of the expected knowledge and skills including the course content. It must be reiterated that there is scope for flexibility in consideration of local health needs, available resources and student characteristics.

A. STUDENT MUST DEMONSTRATE SKILLS IN RELATION TO

(i) Neonatology

- * Care of a newborn at birth including Apgar scoring and resuscitation.
- * Identification of low birth weight and its differentiation into growth retarded and preterm infants.
- * Identification of common physiological conditions like transitional stools, physiological jaundice, care of the cord, toxic crythema, etc.
- * Differentiate a sick newborn from a normal one.
- Lactation management.

- * Thermal care of newborns especially low birth weights.
- * Knowledge of and exposure to common practical procedures like tube (naso/orogastric) feeding, venous sampling, intravenous line establishment and drug therapy, oxygenation, lumbar puncture, etc.

(ii) General Pediatrics

- * History taking and examination of a pediatric patient which includes a crying and irritable child.
- * Caring and compassionate attitude for the patients and their relatives.
- * Consideration of social aspects of diseases.
- * Operational aspects of immunization.
- * Anthropometric assessment and nutritional classification.
- * Developmental assessment.
- * Assessment and management of diarrheal dehydration including oral rehydration therapy.
- * Knowledge of and exposure to common pediatric practical procedures like intravenous line establishment and drug therapy, oxygen therapy, tube feeding, nasogastric tube insertion, blood transfusion, nebulizer therapy, etc.
- * Knowledge of and exposure to common pediatric emergencies like cardiopulmonary resuscitation, shock, respiratory failure, congestive cardiac failure, status asthmaticus, status epilepticus, etc.
- * Develop and approach for differentiating the common pediatric conditions (respiratory, gastrointestinal, cardiac,

hepatic, renal, nutritional, neurological, etc.) and outline their management.

- * Knowledge of and exposure to common diagnostic procedures like venous sampling, lumbar puncture, liver biopsy, bone marrow aspiration, pleural tap, ascitic tap, etc.
- * Provide ambulatory care to all sick children and ensure timely recognition of need and referral for specialized care.

B. STUDENT MUST DEMONSTRATE KNOWLEDGE OF

- (i) Neonatology
- (a) Knowledge of
- * Nomenclature
- * Care of normal newborn
- * Common neonatal problems like transitional stools, physiological jaundice, umbilical cord care, etc.
- * Feeding of neonates including low birth weight babies.
- (b) Describe/Explain Causes of, Diagnostic Procedures, Differential Diagnosis, Management Considerations and Complications of
- * Low birth weight (preterm and growth retarded)
- * Asphyxia including assessmentt (APGAR score) and resuscitation
- * Respiratory distress
- * Jaundice
- * Septicemia
- * Life threatening congenital anomalies
- (ii) General Pediatrics
- (a) Explain Essential Elements/Causes of, Diagnostic Procedures, Differential

- Diagnosis, Management Considerations and Complications of
- * Protein energy malnutrition including nutritional anthropometry and classification
- * Vitamin and other micronutrient deficiencies
- * Lactation management and weaning
- * Growth and development
- * Immunization and vaccines
- * Common exanthematous illnesses (measles, varicella, rubella) and mumps
- * Diphtheria
- * Pertussis
- * Tetanus including tetanus neonatorum
- * Poliomyelitis
- * Tuberculosis *
- * Malaria in pilodopom promoci ?
- * Enteric fever
- * Important "local" infectious diseases (Kala Azar, leprosy, filariasis, guinea worm, Japanese encephalitis, dengue)
- * Helmenthiasis
- * AIDS in children
- * Seizures in childhood including febrile convulsions
- * Meningitis
- * Viral encephalitis, cerebral malaria
- * Acute respiratory infections
- * Asthma in childhood
- * Diahhrea and dysentery and their management (including ORS and persistent diarrhea)
- * Chronic liver disease including ICC and portal hypertension

attending the Outpatient/Well Baby Clinics

- * Immunization Sessions (performing immunization and principles of vaccine storage including cold chain)
- * OPD handling of patients including management and diagnosis of common manifestations (fever, diarrhea, cough, abdominal pain, vomiting, failure to thrive, poor appetite, etc.)
- * Performing common diagnostic procedures like venous sampling, lumbar puncture, liver biopsy, bone marrow aspiration, pleural tap, ascitic tap, etc.
- * Performing common pediatric practical procedures like intravenous line establishment and drug therapy, exygen therapy, tube feeding, nasogastric tube insertion, blood transfusion, nebulizer therapy, etc.
- * Recognition of and use of commonly employed instruments for diagnostic and practical procedures (scalp vein, intravenous canula, intragastric tube, bag and mask, bone marrow aspiration needle, liver biopsy needle, lumbar puncture needle, etc.)
- * Interpretation of common X-rays (rickets, scurvy, pneumonia, bronchopneumonia, primary complex, miliary tuberculosis, pleural effusion/empyema, pneumothorax, hydropneumothorax, renal calculus, cardiomegaly, left to right shunts, right to left shunts, increased intracranial pressure, esophageal varices, etc.)
- * Managing common pediatric emergencies (diarrheal dehydration, respiratory distress acute respiratory infections, status asthmaticus, cardiopulmonary resuscitation, shock, congestive heart failure, status epilepticus; etc.)

- (b) Diagnostic Procedures, Differential Diagnosis and Management of Children with
- * Protein energy malnutrition (includes associated micronutrient deficiency states—Vitamins A, B complex, C; iron)
- * Rickets
- * Generalized edema (nephrotic syndrome, cardiac cause, hepatic cause, kwashiorkor)
- * Hepatosplenomegaly (hemolytic anemia, portal hypertension, chronic liver disease, Kala Azar/chronic malaria)
- * Congenital heart disease (left to right shunt and right to left shunt)
- * Rheumatic heart disease
- * Respiratory infections (bronchopneumonia, bronchiolitis, pneumonia, pleural effusion, consolidation, collapse, tuberculosis)
- * Poliomyelitis
- * Cerebral palsy/retarded child
- * Meningitis (tubercular, pyogenic)
- * Hemiplegia, paraplegia
- * Common malignancies (leukemia, lymphomas, neuroblastoma)
- * Bleeding diathesis (hemophilia, ITP)
- * Other anemias (aplastic, nutritional)
- * Other common infectious illnesses (septicemia, post measles complications, enteric fever, etc.)
- * Miscellaneous (Down syndrome, hypothyroid, AGN, hydrocephalus, meningomyelocele, etc.)

Note

Acquisition of skills will be supported by performance of tasks in relation to new-

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borns and children which will be documented in a log book. The student will be expected to record at least 20 cases out of which 5 each should be of neonatology and infectious diseases. The suggested prototypes for recording Neonatal and Pediatric histories, which can be modified according to local needs, are shown in *Annexures II and III*.

D. AREAS FOR POSSIBLE INTEGRATION

The committee felt that integrated teaching could be adapted to a wide range of topics. Salient examples of such areas of integration with various pre- and paraclinical disciplines are provided below:

Anatomy

- * Growth and Development
- * Congenital heart disease
- * Anatomy of the fetus and transition of a fetus to newborn

Biochemistry

- * Vitamin deficiency states
- * Nutritional requirements
- * Inborn errors of metabolism
- * Fluid and electrolytic balance
- * Acid base disorders
- * Molecular biology (genetic engineering, gene therapy, application to pediatrics)
- * Endocrinology

Physiology

- * Congestive heart failure
- * Fetal circulation
- * Neonatal bilirubin metabolism
- * Growth and development
- * Organ function tests, (pulmonary, renal, hepatic, endocrine, cardiovascular, etc.)

Pharmacology

- * Drug dosages
- * Pharmacokinetics
- * Rational drug therapy for all common diseases of Pediatrics

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Pathology

- * Nephrotic syndrome
- * Rheumatic heart disease
- * Malabsorption syndromes
- * Anemias and blood transfusion
- * Leukemias and malignancies
- * Chronic liver disease

Microbiology

- * Streptococcal infection
- * Meningitis
- * Tuberculosis
- * Vaccine preventable diseases
- * Gram negative septicemia
- * Enteric infections
- * Viral encephalitis
- * Urinary tract infection
- * Parasitic infections

Forensic Medicine

* Common childhood poisonings

Community Medicine

- * National policy and programmes related to Child Health
- * Primary Health Care

Obstetrics and Gynecology

- * Integrating MCH and Family Welfare
- * Minimum Perinatal Care.

Pediatric Surgery

* Common pediatric surgical problems

E. TIME FRAME

The suggested teaching-learning time for pediatrics and its distribution is outlined below:

- 1. Four weeks: Pediatrics/Infectious Diseases (Part-1; Phase-III). After completion of initial clinical posting in Medicine, Surgery, Obstetrics and Gynecology.
- 2. Eight Weeks (Part-II, Phase-III (8th and 9th Semester).
- (i) Clinical teaching 3 h per day during morning hours.
- (ii) Didactic lectures— 40 hours.
- (iii) Tutorials/Demonstration/Seminar/ Group Discussions/Time for self learning.
- (iv) Continuation of integrated teaching with Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Community-Medicine and Obstetrics and Gynecology.

F. INTERNSHIP

The details of the skills that an intern should acquire during his/her tenure in the Department of Pediatrics are as follows:

The interns should develop a reasonable competence for the following:

- 1. Diagnose and manage common childhood disorders including neonatal disorders and acute emergencies (enquiry from parents of sick children) examining a sick child and making appropriate documentation.
- 2. Carry out activities related to patient care such as laboratory work, investigative procedures and use of special equipments.
- 2(a). Diagnostic techniques (obtain and process samples): blood (including

- from femoral vein and umbilical cord), abscess, cerebrospinal fluid, urine, pleura, and peritoneum and common tissues biopsy techniques.
- 2(b). Techniques related to patients care: Immunization, perfusion techniques, feeding procedures, tuberculin testing, breast feeding, counselling.
- 2(c). Use of equipments: Vital monitoring, temperature monitoring, resuscitation at birth, care of children receiving intensive care.
 - 3. Screening of newborn babies and those with risk factors for anomalies and steps for prevention in future.
- 4. Plan in collaboration with parents and individual, collective surveillance and growth and development of newborn babies, so that he is able to: (a) recognize growth abnormalities, (b) recognize anomalies of psychomotor development, and (c) detect congenital anomalies.
 - 5. Assess nutritional and dietary status of infants and children and organize prevention, detection and follow-up of deficiency disorders both at individual and community level such as:

 (a) Malnutrition, (b) Deficiencies of vitamins specially A, B, C and D, and (c) Iron deficiency.
 - 6. Institute early management of common childhood disorders with special reference to pediatric dosage and oral rehydration therapy.
 - 7. Participate actively in National Health Programmes oriented towards children in the community.

II. BOOKS/READING MATERIAL

- A. Books Recommended
 - 1. Essential Pediatrics O.P. Ghai

- 2. Essentials in Pediatrics S.T. Achar
- 3. Care of the Newborn Meharban Singh
- 4. Manual of Practical Neonatal Care D.K. Guha

B. Reference Books

- 1. Text Book of Pediatrics published by IAP
- 2. Nelson's Text Book of Pediatrics.
- 3. Illingworth's (Normal and Abnormal Child)
- 4. Pediatric and Neonatal Emergencies R.N. Srivastava, Man Mohan, H.P.S. Sachdev, R.K. Puri
- 5. Tuberculosis in Children V. Seth, R.K. Puri, H.P.S. Sachdev.
- 6. Pediatric Diagnosis Richmond and Green
- 7. Diseases of Children in Tropics and Sub-Tropics. Standfield, Jelliffe.

A Textbook of Pediatrics for undergraduates is being shortly developed by the Indian Academy of Pediatrics.

III. TEACHING METHODOLOGY/ EVALUATION

(i) Teaching Methodology

The committee felt that emphasis should be on active learning. A judicious mix of various methods like didactic lecturers, employing audio-visual aids, demonstrations, tutorials and small group learnings should be employed. Enough flexibility should be provided to employ newer techniques and innovation in teaching.

(ii) Evaluation

The general princi;es of evaluation including weightage for internal assessment should be on lines similar to other clinical disciplines. In brief, the scheme of evaluation shall be as follows:

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- (a) Theory: One paper of 80 marks, consisting of 2 parts.
- Part A. Social Pediatrics, Growth and Development, Nutrition, Immunization, Neonatology.
- Part B. Common diseases of infancy and childhood including critical care.

The paper will have MCQs carrying a weightage of at least 40% and the remaining as structured essay type questions.

- (b) *Practical:* This will carry 80 marks, which will be distributed as follows:
- (i) Two clinical cases including newborn 60 marks
- (ii) Interpretive and didactive exercises involving tests of clinical skill application and use of equipment and principles of critical care and emergencies handling.

Efforts should be made to evaluate by newer objective techniques like OSPE and OSCE.

Note

- 1. Internal evaluation must be conducted after each training session by the faculty involved in the teaching programme. It should include both written and clinical assessment.
- 2. Due weightage should also be given to day to day assessment, evaluation of student assignment, preparation for seminar and clinical case presentation. It should also incorporate the log book where at least 20 cases should be recorded of which 5 each should relate to neonatology and infectious diseases.

Evaluation of Internship: The skills expected to be acquired by an intern should be evaluated at the end of posting. A

format for evaluating the same, which can be modified according to local needs, is given in *Annexure IV*.

IV. OTHER RECOMMENDATIONS

(i) Physical Facilities in the Department:

The Department of Pediatrics in each Medical College must be properly set for comprehensive teaching of child health and disease. It must cover all the aspects – preventive, curative, promotive, and rehabilitative components and not just provide for curative services. Each Department; therefore, must have:

- (1) 1.1 Pediatric Beds-In a ratio of 6 beds for each 10 undergraduate admissions of which 10-15% should be reserved for intensive care.
 - 1.2 Intermediate Care New Born Nursery (Level-2): In a ratio of 5 beds for every 1000 deliveries.
 - 1.3 Pediatric Surgery Beds: In a ratio of 3 beds for 10 undergraduate admissions.
- (2) Facilities for Preventive and Promotive Pediatrics having following Services
- 1. Neonatal follow-up clinic
- 2. Under five clinic with facilities for growth monitoring and immunization
- 3. Nutrition Rehabilitation Clinic
- 4. Diarrheal Treatment and Management Unit
- 5. Child Guidance Clinic
- 6. Rehabilitation Clinic in collaboration with physiotherapy
- (3) Social Pediatrics
- 1. Play room for children
- 2. Mother craft and functional literacy in

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- 3. Creche for the institutional staff children and siblings of hospitalized children and children of hospitalized women
- (4) Outpatient Clinics
 - (i) Routine
 - (ii) Subspeciality clinics
- (5) Field Practice Areas

There should be an active liaison and involvement (undergraduates and interns) with the Community Pediatrics practice areas both in the urban and rural setting.

- 1. Urban-Urban Health Centres/Dispensaries, ICDS Beneficiary Areas (Anganwadi), etc.
- 2. Rural—District Health System, (District Hospital, Taluka Hospital, Community Health Centre, Primary Health Centre, Subcentre, Village—e.g., ICDS Beneficiary area).
- (ii) Other Aspects
- 1. Change of attitude of teachers through suitable teaching material and training in educational technology must be attempted. Establishment of Central Resourc Centre at MCI on the highest priority followed by similar centres in different regions would be a welcome step in this direction.
- 2. The recommendations on Pediatrics deserve a specific attention to Minimum Perinatal Care, which is one of the most important need for child health and child survival. The curriculum for the same may be selected from the detailed report of the Task Force on Maternal Mortality of Government of India (1987).
- 3. In order to acquaint the medical student with various National Progra-

mmes on Child Health, it is desirable that a small book of about 100 pages is produced. This book should aim at imparting knowledge about these National Programmes beyond the stereotype narratives of the Government and show avenues to students for involvement in operation and monitoring of programmes. The contents would contain MCH, ORT, Immunization, Minimum Perinatal Care, Tuberculosis, Vitamin A, Leprosy and other Vector borne diseases (Kala Azar, Filariasis, Guinea Worm infestation).

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Annexure II-Prototype of Neonatal Case Record

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Father's Name

Age
Occupation

Education

Mother' Name

Age
Occupation

Education

Mother's History (See Mart to manufactal)

Family Income

Booked/Unbooked

ANC visits outside ANC visits

Address

Tetanus toxoid 1st 2nd 3rd Booster

LMP EDD

Gestation Presentation

Height Weight

Blood Group ICT

Pallor Hb Urine Examination

Previous Medical History

Family History

Past Obstetrical History

Illness, Drugs, X-ray in pregnancy

Antenatal complications

2.46

Låbour: Spontaneous/Induced/Augmented

No. of internal examinations done outside

No. of internal examinations done in hospital

Duration of ruptured membranes

Fetal heart irregularity

Yes/No

Duration

Rate

Meconium stained liquor

Yes/No

Thin/Thick

Duration

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Poephington reflectes

Titule hair

Duration of Stage

1st

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2nd

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3rd

Drugs during labor:

Pethidine

Syntocinon

I/V fluids

Others

Type of Delivery

If aided, indication

Liquor: Clear/Foul smelling/Meconium stained

Placenta:

Weight

12211

Description

Placental swab: Sent/Not sent

Report

Infant's Record

Date of birth

Sex

Unit No.

Age at examination

1st gasp

1st cry

Respiration established at

Ear carrilage

Apgar score at

Birth weight

1 min

5 min

Head circumference

Length

General Observation

Fontanelle

Color

Pallor

Jaundice

Scalp

Oral cavity

Palate

MEDICAL I	EDUCATION					The Market
Eyes]	Ears	Nose	en Navo	Small(ingl) conde.1
Limbs •	•	.]	Digits	Hips	្នា ១ ខេត្ត វា គឺស្ត្រី •	Spine
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Heart		Lungs				Charles minerales
Abdomen	•	•				The state of the s
Umbi	lical stump			Umbilical	ressels	p sint()
Liver		Spleen			Any other m	iass
CNS:						A Control of the Cont
Activi	ity				Neonatal re	
	•				3.6	Property of the second
Musc	le tone			ohie ii	Moro's	Type of Delivery
Move	ments			٠.	Rooting	
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Gestation	al Assessment					
Scalp hair		Ear cartila	Ear cartilage		Genitalia	cane similari ali 19
Skin		Breast no	Breast nodule			· · · · · · · · · · · · · · · · · · ·
Urine nas	ssed first at					inimis dimini
-			* .			Date of the co
Meconiur	n passed first at				•	
Diagnosis	3					
Date	Age	Feeding	Stool	Color	Jaundice	Umbilical stump
				1.		s and the second

	Annex	sure III <i>_Patient</i>	's Case Record	\$ F	ioisii omsisi
	San		Informant:		
Name	•		Unit No.	•	,
Date of birth	Age		Sex		
Date of admission		× .	Date of discharge	3	
Chief complaints					en de la filipie de la filipi
History of present illne	ess.	•	education		принция в в в в в в в в в в в в в в в в в в в
Development history			a. Sene silen	Din 1867. SH	nabe s'rositoty
Age at which milestone	es achieved		Other milestone		Family Baoms
Recognition of mo	ther				Baic yligas i
Social smile				anci)	denne ganerali.
Head holding			•		en e
Sitting Crawling Standing					の連携業 2012年
Walking				14 14 A	Constitution of the Consti
Immunization history	68.76 %				1788 6 P 1888
Age and place of vacci	nation:		Boosters		Miltilim
BCG	الم يمانية المانية الم	(Scar)	· .		Pallocation
DPI	Ī	II	III		137 7 8
OPV	I	II	III	IV	V SA
Measles			MMR		
TA	1	II			

Housing conditions . •

Sanitary environment

The order of presentation depends on the individual case. A guideline for examination is given be-

sufficial beaut

low:

Sensorium Facies

Nutrition Signs of Vit. deficiencies

Pallor/Jaundice/Cyanosis Edema

General Examination

Anterior fontanel Eyes

Ear Nose

Teeth (No.) Mouth

422

Physical Examination

General Observation

Throat	Lympth nodes with tunnicitors?
Hair	Skin
Nails	Bones and joints
Anthropometry	rance was a construction of the same of
Weight	Height/Length
Wt for age Note the menus. Ht for age	Wt for height
Head circumference	Percentile .
Mid arm circumference	
US: LS ratio	
Vital Signs	
TAD	
	Annessay .
RR 2002 A Section 1985	and the second of the second o
BP	
Temperature	Panatasing
Systemic Examination	Ward work
Chest	· Area USO
CVS	ं संस्थिति
	in the second of
Abdomen	Managa Managa Managa Managa Managa Managa Managa Ma
CNS	

MEDICAL EDUCATION		
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Investigations •		eught.
Final diagnosis (Given	-	reducerungeraliters.
	Treatment	
Date	Clinical Notes	Treatment advised

Annexure IV-Assessment Form of Interns

Name	Peri	Period of Posting				
Weekly Performance (Code from 5 to 1)	to the second second					
Punctuality						
Ward work					V 18	
OPD work					and the second s	
Statistics						
Diligence						
Responsibility					a ye ke ka	
Interest					•	
Compassion					•	
Registrar's signature						

General Remarks by Senior Doctors

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Prof. Mcharlan Snigh

Dy Uday O Bodnankas

. Dr. K.P. Sinha (Pauna)

Dr. M.R. Lokeshwar (Bombay)

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Case Management by the Intern

Case (Type)	Emerg Mgt (Note proc- edure done)	Hx & Exam write up (Comment)	Diagnostic procedure (which done)	Differential diagnosis (List)	Case Mgt (Essential done)	Social factor mgt.	Other	Overall Speak- ers
			÷					

Score 5 = Superior; 4 = Good; 3 = Acceptable; 2 = Lacking; 1 = Poor.

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