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Competency Based LOGBOOK in **PEDIATRICS**

*As per the Competency Based
Medical Education Curriculum (NMC)*

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1. PHASE-I

COMPETENCIES FOR 2ND YEAR

3rd Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 1.1.1	Define growth and development						
PE 1.1.2	Enumerate the factors affecting normal growth and development						
PE 1.2	Discuss and describe the patterns of growth in infants, children and adolescents						
PE 1.3	Discuss methods of assessments of growth including WHO and Indian standards, enumerating the parameters used for assessment of physical growth in infants, children and adolescents						
PE 1.6	Discuss methods of growth assessment						
PE 1.7	Perform developmental assessment and interpret						

4th Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 19.12	Observe the administration of UIP vaccines						
PE 19.13	Demonstrate administration of different vaccines in a mannequin						
PE 19.14	Practice infection control measures and appropriate handling of sharps						
PE 27.33	Obtain informed consent						
PE 34.6	Identify a BCG scar						
PE 34.7	Interpret a montoux test						

5th Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 2.1	Discuss the etiopathogenesis, clinical features and management of a child with failure to thrive						
PE 3.4	Counsel a parent of a child with developmental delay						
PE 12.3	Identify the clinical features of dietary deficiency/excess of vitamin A						
PE 12.4	Diagnose patients with vitamin A deficiency, classify and plan management						
PE 27.34	Willing to be a part of ER team						

■ VERTICAL INTEGRATION

Pathology

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 21.2	Etiopathogenesis of kidney with PSGN						
PE 29.1	Etiopathogenesis of anemia						
PE 29.2	Etiopathogenesis of iron deficiency anemia						
PE 29.3	Etiopathogenesis of B12 and folate deficiency						
PE 29.4	Etiopathogenesis of hemolytic anemia						
PE 23.4	Etiopathogenesis of acute rheumatic fever						
PE 23.6	Etiopathogenesis of infective endocarditis						

Microbiology

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 24.6	Identify organisms causing diarrhea						
PE 24.8	Identify and know the organisms causing dysentery						
PE 24.12	Perform and interpret stool examination including hanging drop						
PE 30.20	Interpret and explain the findings in a CSF analysis						
PE 34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis						
PE 34.10	Discuss the various samples for demonstrating the organism, e.g., gastric aspirate, sputum, CSF, FNAC						
PE 34.12	Enumerate the indications and discuss the limitations of methods of culturing <i>M. tuberculosis</i>						
PE 34.14	Discuss the antibiotic sensitivity and understand its role in treatment						
PE 34.16	Identify organism responsible for Diphtheria, Pertussis, tetanus						
PE 34.17	Identify organism responsible for typhoid						
PE 34.19	Identify parasites causing malaria, leishmaniasis, filariasis, amebiasis, giardiasis and helminthic infestation						
PE 34.20	Identify the agent causing rickettsial diseases						

Forensic Medicine and Toxicology

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 27.29	Discuss the common causes, clinical presentation, medicolegal implications of abuse						
PE 27.31	Assess child for signs of abuse and battered baby syndrome						

2. PHASE-II

COMPETENCIES FOR 3RD YEAR

6th Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 4.6 + 5.11	Visit to the Child Guidance Clinic and observe its functioning						
PE 8.2	Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to complementary feeding including IYCF						
PE 8.5	Counsel and educate mothers on the best practices in complimentary feeding						
PE 9.7	Plan an appropriate diet in health and disease						
PE 11.1	Describe the common etiology, clinical features and management of obesity in children						
PE 16.1	Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of risk stratification						
PE 16.2	Assess children <2 months using IMNCI guidelines						
PE 19.1	Explain the components of the Universal Immunization Programme and the National Immunization Programme						
PE 19.2	Explain the epidemiology of vaccine preventable diseases						

(Contd...)

(Contd...)

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 19.3	Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications						
PE 19.4	Define cold chain and discuss the methods of safe storage and handling of vaccines						
PE 19.7	Educate and counsel a patient for immunization						
PE 19.8	Demonstrate willingness to participate in the national and subnational immunization days						
PE 19.9	Describe the components of safe vaccine practice: Patient education/ counseling; adverse events following immunization, safe injection practices, documentation and medicolegal implications						

7th Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 12.8	Identify the clinical features of dietary deficiency of vitamin D						
PE 12.9	Assess patients with vitamin D deficiency, diagnose, classify and plan management						

(Contd...)

(Contd...)

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 12.12	Describe the causes, clinical features, diagnosis and management of deficiency of vitamin E						
PE 12.14	Describe the causes, clinical features, diagnosis management and prevention of deficiency of vitamin K						
PE 12.16	Describe the causes, clinical features, diagnosis and management of deficiency of B complex vitamins						
PE 12.17	Identify the clinical features of vitamin B complex deficiency						
PE 12.18	Diagnose patients with vitamin B complex deficiency and plan management						
PE 12.19	Discuss the RDA, dietary sources of vitamin C and their role in health and disease						
PE 12.20	Describe the causes, clinical features, diagnosis and management of deficiency of vitamin C (scurvy)						
PE 12.21	Identify the clinical features of vitamin C deficiency						
PE 13.3	Identify the clinical features of dietary deficiency of iron and make a diagnosis						
PE 18.2	Explain preventive interventions for child survival and safe motherhood						

(Contd...)

(Contd...)

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 19.5	Discuss immunization in special situations: HIV positive children, immuno-deficiency, preterm, organ transplants, those who received blood and blood products, splenectomized children, adolescents, travelers						
PE 24.3	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS						
PE 28.15	Stratify risk in children with stridor using IMNCI guidelines						
PE 28.16	Interpret blood tests relevant to upper respiratory problems						
PE 31.3	Describe the etiopathogenesis, clinical features and management of atopic dermatitis in children						

VERTICAL INTEGRATION

Community Medicine

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 3.7	Visit a child developmental unit and observe its functioning						
PE 7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and human milk						
PE 7.6	Enumerate the baby friendly hospital initiatives						
PE 9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents						
PE 10.4	Identify children with under nutrition as per IMNCI criteria and plan referral						
PE 11.2	Discuss the risk approach for obesity and discuss the prevention strategies						
PE 11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall						
PE 13.10	Discuss the National Goitre Control Programme and their recommendation						
PE 17.1	State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS						

(Contd...)

(Contd...)

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 17.2	Analyze the outcomes and appraise the monitoring and evaluation of NHM						
PE 18.1	List and explain the components, plan, outcome of Reproductive Child Health (RCH) programme and appraise its monitoring and evaluation						
PE 18.8	Observe the implementation of the program by visiting the rural health centre						
PE 29.5	Discuss the National Anaemia Control Programme						
PE 34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Programme						
PE 35.1	Identify, discuss and defend medicolegal, sociocultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)						

Otorhinolaryngology

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 14.2	Features of kerosene poisoning on upper respiratory tract						
PE 28.1	Discuss the etiopathogenesis, clinical features and management of nasopharyngitis						
PE 28.2+ PE 28.3	Discuss the etiopathogenesis, clinical features and management of pharyngotonsillitis						
PE 28.4	Discuss the etiopathogenesis, clinical features and management of acute otitis media (AOM)						
PE 28.5	Discuss the etiopathogenesis, clinical features and management of epiglottitis						
PE 28.6	Discuss the etiopathogenesis, clinical features and management of acute laryngotracheobronchitis						
PE 28.7	Discuss the etiology, clinical features and management of stridor in children						
PE 28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children						
PE 31.1	Describe the etiopathogenesis, management and prevention of allergic rhinitis in children						

3. PHASE-III

COMPETENCIES FOR 4TH YEAR

8th Semester

<i>Competency addressed</i>	<i>Name of activity</i>	<i>Date of completion</i>	<i>Attempt at activity first-F repeat-R remedial-RE</i>	<i>Rating below exp-B meets exp-M exceeds exp-E</i>	<i>Decision of faculty completed-C repeat-R remedial-RE</i>	<i>Initial of faculty</i>	<i>Feedback</i>
PE 1.5	Define development and discuss the normal developmental milestones with respect to motor, behavior, social, adaptive and language						
PE 2.4	Discuss the etiopathogenesis, clinical features and management of a child with short stature						
PE 2.5	Assessment of a child with short stature: Elicit history, perform examination, document and present						
PE 3.8	Discuss the etiopathogenesis, clinical presentation and multidisciplinary approach in the management of cerebral palsy						
PE 6.2	Describe the physical, physiological and psychological changes during adolescence (puberty)						
PE 6.3	Discuss the general health problems during adolescence						
PE 6.4	Describe adolescent sexuality and common problems related to it						
PE 6.5	Explain the adolescent nutrition and common nutritional problems						
PE 6.6	Discuss the common adolescent eating disorders (anorexia nervosa, bulimia)						
PE 6.7	Describe the common mental health problems during adolescence						
PE 7.2	Explain the physiology of lactation						
PE 7.4	Discuss the advantages of breast milk						

(Contd...)

Competency Based LOGBOOK in Pediatrics

Salient Features

- Covers the topics of all years in a structured way with vertical (covering subject year-wise for all 4 years) and horizontal integration (different subjects in same year).
- Competencies are divided in a way that student inculcates all the possible aspects of the subject in relation to the year of education.
- Appendix to help understand the competencies better.

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