

DIPLOMA
IN
PAEDIATRICS MEDICINE
PROGRAM

Ziauddin University

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INTRODUCTION

Diploma in Child Health is an established training program aimed at preparing mid level general paediatricians for public and private sectors. The Paediatric population of Pakistan comprises over 45% of total population. In order to address the need for training in child care, Ziauddin University has included paediatric training as one of the specialties.

Ziauddin University aims at providing quality training to candidates with an interest in practicing general paediatrics in the community and at first level care facilities in rural and urban setting. By doing so it will address the void which exists presently in the health care system pertaining to provision of health care to children.

Eligibility and duration of training of DPM

1. Medical graduate from a recognized university.
2. Valid registration with PMDC as a Medical Practitioner.
3. One year resident House Job recognized by Ziauddin University out of which six months should be in Paediatrics. Deficiency in the house job period could be compensated if the candidate had done six months residency in Paediatrics in a recognized institution.
4. Three years working experience in child health institution / paediatrics unit in a district hospital or hospital recognized by Ziauddin University may be counted in lieu of six months house job in paediatrics.
5. After meeting the above requirements and selection for the course. Candidate will be required to do two years training in a Paediatric Unit recognized for PG training in Ziauddin campuses.

Eligibility requirements for DPM examination

- Two years residency training at campuses of Ziauddin University.
- Satisfactory results at Periodic evaluations
- Log Book

Examination schedule:

- The DPM theory examination in Paediatrics will be held once a year
- Theory examinations will be held at Ziauddin University
- English shall be the medium of examination for the theory / practical / clinical and OCSE examinations.
- Any change in the dates and format of the examinations will be notified by the university before the examinations.
- Each successful candidate in DPM examination shall be granted a Diploma after being elected by the Academic Council / syndicate and payment of registration fee and other dues as per

rules of the Ziauddin University.

- A competent authority appointed by the University has the power to debar any candidate from any examination if it is satisfied that such a candidate is not a fit person to take the College examination because of using unfair means / misconduct or other disciplinary reasons.

Periodic Evaluations:

- Six monthly evaluation in first and second year.
- Evaluation comprising of continuous evaluation, written examination (MCQ's + SEQ's) Clinical examination (1 Long case + 2 short cases), OSCE
- Only successful candidate in six monthly evaluation will be eligible to sit in the final examination.
- Pass percentage – 60%
- Candidates with unsatisfactory performance in 2 consecutive 6 monthly evaluations will be dropped from the program.

Examination fees:

Fees deposited for a particular examination, shall not be carried over to the next examination in case of withdrawal / absence / exclusion.

Application alongwith the prescribed examination fee and required documents should be submitted latest by the last date notified for this purpose before each examination.

The details of examination fee shall be notified before each examination.

Training program

Objectives of the training program

At the end of the training for Diploma in Paediatrics Medicine the candidate shall be able to

Initially assess the patients with paediatric problems by :

- Obtaining pertinent history
- Performing physical examinations correctly
- Formulating a working diagnosis
- Deciding whether the patient requires:
 - Ambulatory care or hospitalization.
 - Referral to other health professionals.

Manage patients requiring treatment by a paediatrician :

- Plan an enquiry strategy i.e. order appropriate investigations and interpret the results.
- Decide and implement suitable treatment
- Maintain follow up of patients at required intervals.
- Maintain records of patients.

Apply the principles and practice of primary health care and community paediatrics.

Duration of training: Two years

REVISED DURATION OF ROTATIONAL TRAINING (APPROVED IN BASR MEETING SEPT 2014).

Duration of training: two years

The training will consist of rotation as per following :

Rotation	Duration
a. General Paediatrics	14 months
b. Neonatal Pediatrics	4 months
c. Paediatric Emergency	4 months
d. Paediatric ICU	2 months

At least one week :

- OPD / Ward / Emergency
- Breast feeding promotion and lactation management
- Immunization
- Diarrhoeal disease management
- ARI management
- Growth monitoring and evaluation
- Nutrition assessment and management
- Disability management and exposure to special educational institutions.
- Well child clinic

The objectives of training may be achieved through different modes, some of the which are listed below :

- Graded responsibility in patient care
- Ward duties
- Emergency duties
- OPD duties
- Morbidity / Mortality review meetings
- Journal Club
- Seminars, Conferences and lectures
- Research projects

Monthly training program

Activity	Frequency
Lectures and tutorials	1 hour x 4
Case discussions	1 hour x 4
Imaging – Studies	1 hour x 2
Clinico – Pathological conference	1 hour
Mortality Review	1 hour
Ward Rounds	1 hour x 8

Key to competency levels in clinical skills :

1. Observer status
2. Assistant status
3. Performed under supervision
4. Performed independently

SYLLABUS

The outline of various topics given in this syllabus is a guide to what at the moment are considered to be important which the candidate is expected to know. This is to help both the candidate and the examiner the minimum boundaries of DCH examination.

- Diseases of children including principles of clinical paediatrics. Heredity, neonatology, growth and development, diarrheal disorders. Infant feeding, tropical Paediatrics etc.

- Applied Pathology, applied physiology including embryology, applied biochemistry, Applied parasitology.
- Diagnosis and investigation of paediatric surgical conditions.
- Principles of community and preventive paediatric.
- Epidemiology and vital statistics. Paediatrics nursing.
- Maternity and child health, health education, training in mother craft. Parental problems, infant hygiene.
- Prevention of the infections disease, including immunization.
- Growth and development.
- Handicapped children; the mentally defective, blind, deaf, and crippled. Physiotherapy units, vocational centers, chronic invalidism.
- Child welfare centers; principles of nutrition
- Child guidance: child psychology, problems of social adjustment, functional disorders infancy and childhood.
- Visit special schools, nurseries & homes, crèches, orphanages and the children's institutions.
- School medical service: nursery schools and classes. Child and the law concerning children and child welfare (in Pakistan).
- Principles of perinatal care.

LOG BOOK

The trainee is required to maintain a log book (obtainable from the Ziauddin University) during the training period.

Mandatory workshops

All candidates will be attend Mandatory workshops at least 2 related to paediatrics as specified by the Ziauddin University and present certificate of attendance before they can be allowed to take the DCH examination.

ARI / CDD/ IMCI / lactation Management / Nutrition Workshop / NR. Any other arranged by recognized faculty of Paediatrics.

Format of Examination :

Since the College is continually seeking to improve and standardize its examinations, changes are likely from time to time and candidates will be notified well in advance of such changes.

The DCH examination comprises.

1. Theory

- Theory Paper I and II (3 hrs duration each)
- 100 MCQ's with negative marking
- 3 SEQ's

2. Clinical and OSCE

- The Clinical examination will comprise one long case and four short cases and an OSCE.
- Only those candidates who qualify in theory will be called for clinical and OSCE examination.
- Minimum criteria = 60%

The Ziauddin University reserves the right to alter / amend any rules / regulations.

Any decision taken by the College on the interpretation of these regulations will be binding on the applicant.

Number of attempts for diploma examination by Ziauddin University :

Candidates are allowed to give five consecutive exam attempts within five years of completion of training. Any missed attempt will be considered a lapsed attempt. Additionally, there should be re-evaluation of the candidates by the respected supervisors after three years of consecutive failure in the exam.

Resources / Requirements – 6 candidates

- Faculty (Prof., Assoc. Prof. / Assistant Prof., Senior Registrar)
- Beds (General Ward - 20, NICU - 10, PICU - 04)
- Workshops (ARI, IMCI, CDD, Neonatal Resuscitation)
- Space (Lecture Hall -1, Seminar Room 1, On Call Room 1, Skills Lab 1)
- Office and Clerical staff

Diploma in Paediatrics Medicine

STATUTES

REGULATION

Training :

The examination shall be open to a Medical graduate of a recognized University who :

1. Has done one year job as House Physician in the Children Department of a teaching hospital or a recognized department of Paediatrics +

OR

Has worked as RMO for one year in Paediatric Department of a recognized hospital one of the above

AND

Worked as postgraduate student in a recognized paediatric Department for 12 months.

2. Has completed 2 years after graduation

Common Paediatric Diseases

Note : This is not an exhaustive list but is meant to be a guideline.

Level of competence

Disease	1st Year	2nd Year	Minimum number
Malnutrition and macro & micro-nutrition deficiency disorders	3	4	06
Malaria	3	4	10
ARI	3	4	10
Diarrhoeal Diseases	3	4	24
Bronchial Asthma	3	$\frac{3}{4}$	08
Meningitis / Encephalitis	2	4	10
Enteric fever		$\frac{3}{4}$	10
Measles and other exanthemata	2	$\frac{3}{4}$	06
Worm infestations	2	$\frac{3}{4}$	10
ARI and Ch, Lung diseases	2	3	10

Common Surgical problems	2	3	4
Dysentery	2	3	4
Hepatitis and cirrhosis	2	$\frac{3}{4}$	04
Malabsorption syndromes	2	$\frac{3}{4}$	02
Congenital heart disease	2	$\frac{3}{4}$	06
Anaemias including haemolytic anaemias	2	$\frac{3}{4}$	06
Leukaemias / aplastic	2	$\frac{3}{4}$	02
Hodgkin's disease	2	$\frac{3}{4}$	02
UTI	3	4	06
AGN and nephritic syndrome	3	4	06
ARF and CRF / Tumors	2	$\frac{3}{4}$	4
Cretinism and other endocrine disorders	2	$\frac{3}{4}$	4
Congenital adrenal hyperplasia	2	$\frac{3}{4}$	2
Diabetes mellitus and diabetic ketoacidosis	2	$\frac{3}{4}$	2
Seizure disorders	2	$\frac{3}{4}$	6
Osteomyelitis and septic arthritis	2	3	2
Common skin problems	2	3	10
Congenital malformations	2	3	4
Metabolic and storage disorders	2	3	2
Genetic disorders	2	3	2
Autoimmune disorders	2	3	2
Cerebral palsy	2	3	4
EPI related diseases	2	3	6
Ambiguous genitalia	2	3	2

Preventive Paediatrics

Level of competence

Description	1 st year	2 nd year	Minimum number
Nutrition, evaluation and management	2	%	08
Assessment, monitoring and promotion of growth and development	2	%	12
Vaccination	3	4	24
Special education programme for handicapped and deprived children	2	%	02
School Health Service	2	%	08
Genetic counseling	1	2/3	04

Paediatric Surgery

Level of competence

Description	1 st year	2 nd year	Minimum number
Inguino-scrotal swelling	1	2	4
Undescended testis	2	2	4

Hypo / epispadiasis	1	2	2
Circumcision / meatal stenosis	1	2	6
Ambiguous genitalia	1	2	2
Tongue tie	1	2	2
Umbilical hernia	1	2	2
Abd. Wall defects	1	2	1
Acute surgical abdomen	1	2	4
Acute neonatal emergencies	1	2	6
Intestinal obstruction	1	2	4
Pneumo / pyothorax	1	2	2
Oro facial defects	1	2	2
Swelling in neck (lateral and midline swellings)	1	2	2
Haemangioma	1	2	2
CDH TEV	1	2	2
Spinal Defects	1	2	2
Vesical & renal calculi	1	2	2

Liver Abscess	1	2	2
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Patient Management

Level of competence

Description	1 st Year	2 nd year	Minimum number
History taking	3	4	24
Physical examination / PR	3	4	24
Ordering investigations and interpreting the results	2	$\frac{3}{4}$	24
Deciding and implementing treatment	1	$\frac{2}{3}$	24
Maintaining follow up, records	3	4	24

Rehabilitation special education programs	1	2	02
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Procedures

Level of competence

Description	1 st Year	2 nd year	Minimum number
Venous Cannulation	3	4	24
Venesection	2	$\frac{3}{4}$	03
Lumber puncture	3	4	06
Subdural tap	1	$\frac{2}{3}$	02
Pleural tap	2	$\frac{3}{4}$	02
Peritoneal tap	2	$\frac{3}{4}$	02
Suprapubic tap	3	4	04
Bone marrow aspirate	3	4	02
Direct laryngoscope and ET intubation	2	$\frac{3}{4}$	06
CPR	$\frac{2}{3}$	4	08

Exchange transfusion	2	$\frac{3}{4}$	04
Proctoscopy	1	2	02
Emergency pneumothorax drainage (needle insertion)	2	$\frac{3}{4}$	02
Neonatal resuscitation	2	$\frac{3}{4}$	12
Nasogastric intubation	3	4	10
Bladder catheterization	2	$\frac{3}{4}$	10
Liver biopsy	2	3	02

Neonatology

Level of competence

Description	1 st Year	2 nd year	Minimum number
Pre-maturity / NICU care	2	$\frac{3}{4}$	4
IUGR	2	$\frac{3}{4}$	2
Jaundice	2	$\frac{3}{4}$	4
Sepsis	2	4	4
Birth trauma / asphyxia	2	$\frac{3}{4}$	2

Congenital malformations	2	3	2
Cyanosis	2	3	2
Respiratory distress	2	3	4
Seizures (including tetanus)	2	$\frac{3}{4}$	4
Bleeding disorders / anaemia	2	3	4
Metabolic disorders	2	3	4
Perinatal problems	2	3	2

Emergency procedures / ICU

Level of competence

Description	1 st Year	2 nd year	Minimum number
Shock	2	$\frac{3}{4}$	04
Hyperpyrexia / Hypothermia	3	4	04
Convulsions	2	$\frac{3}{4}$	08
Poisoning	2	3	06

Dehydration + electrolyte imbalance	3	4	24
Coma	3	4	10
Status asthmaticus	3	4	06
Renal failure	2	3	02
Hepatic failure	2	3	01
Cardiac failure	3	4	04
Croup	2	3	02
Respiratory failure	2	3	04
Hypertensive crisis	2	3	02
Intest. Obstruction	2	3	02
GI bleed	2	3	02
Aspiration	2	3	02