

Logbook

(Undergraduate Competency
Based Curriculum)



Paediatrics

Logbook

Department of Paediatrics

Name of student:

Admission Batch:

Name of the College.

.....

College Roll No.....

University Registration number.....

Glossary & General Instructions

Logbook:

Logbook is defined as a verified record of the progression of the learner documenting the acquisition of the requisite knowledge, skills, attitude and or competencies. Logbook is the most important tool that will help us to achieve successful implementation of the key aspects of New Undergraduate Competency based curriculum. It forms an integral part of internal assessment/formative assessment and the eligibility to appear in the summative assessment conducted by the concerned University. Successful documentation and submission of logbook is a pre requisite for being allowed to appear in the final summative examination.

Points to be noted by the student:

1. The logbook is a record of the academic/ co curricular activities of the designated student, who is responsible for maintaining his/her logbook.
2. The student is responsible for getting the entries in the logbook and verified by designated faculty on regular basis.
3. Entries in the logbook will reflect the activities undertaken in the department and have to be scrutinized by the concerned Head of the department.
4. The logbook should be verified from the college before submitting the application to the student for University examination.

Activity: Predefined task performed by the learners that contribute to the achievement of objectives and competencies.

Remedial: A planned activity aimed at correcting deficits that prevent a learner from achieving an intended outcome.

Feedback: A formal active interaction performed at the completion of an observed activity intended to facilitate positive change, growth and improvement of the learner through guided reflection of the activities performed.

Understanding the logbook activity table:

S No.	Competency # addressed	Name of Activity	Date completed: dd-mm-yyyy	Attempt at activity: First (F) Repeat (R) Remedial (Re)	Rating: Below (B) expectations Meets (M) expectations Exceeds (E) expectations OR Numerical Score	Decision of faculty: Completed (C) Repeat (R) Remedial (Re)	Initial of faculty and date	Feedback Received: Initial of Learner and date
1.								
2.								
3.								
4.								
5.								
6.								
7.								

1. The number of the competency addressed, includes the subject initial and number (from Volume III of the UG Curriculum) e.g. OG 2.1

2. Name of activity: Seminar / Small Group Discussion/ Skills Lab / Drill / Role Play

3. Date the activity gets completed

4. Attempt at activity by learner, indicate if:

- First attempt (or) only attempt
- Repeat (R) of a previously done activity
- Remedial activity (Re) based on the determination by the faculty

5. Rating, use one of the following three grades:

- Below expectations (B)
- Meets expectations (M)
- Exceeds expectations (E)

6. Decision of faculty

- C: activity is completed, therefore closed and can be certified, if needed
- R: activity needs to be repeated without any further intervention
- Re: activity needs remedial action (usually done after repetition did not lead to satisfactory completion)

8. Initial (Signature) of faculty indicating the completion or other determination

9. Initial (Signature) of the learner if feedback has been received.

CERTIFICATE OF COMPLETION

This is to certify that the candidate Mr/
Ms....., Regn. No.....,

Admitted in the year in

.....

has satisfactorily completed/not completed all

the assignments /requirements mentioned in this logbook in

the subject of Paediatrics during the period

from.....toShe/ He is/is not eligible to appear

for 3rd Prof Part II examination(Summative) conducted by the

WBUHS.

Signature of Unit head:

Signature of Head of the Institute
With seal and date

Countersigned by

Head of the department:

ATTENDANCE RECORD- CLINICAL POSTING

		Classes held	Classes attended	Percentage	Faculty signature
Clinical Posting	Phase I				
	Phase II				
	Phase III				
Theory Attendance	PY3P1				
	PY3P2				
Small group discussions	PY3P1				
	PY3P2				

PHASE II

1st CLINICAL POSTING (2 WEEKS)

Competencies addressed	Date of activity completed (DD/MM/YY)	Attempt at Activity (F, R, Re)	Rating (B,M,E)	Decision of Faculty (C, R, Re)	Initial of faculty	Feedback Initial of learner and date
1. Perform anthropometric measurements, document in growth charts and Interpret						
2. Identify deviations in growth and plan appropriate referral.						
3. Perform developmental assessment and interpret						
4. Calculate BMI, document in BMI chart and interpret						
5. Assess the patient for fitness for immunization and prescribe an age appropriate immunization schedule						

Competency 1: Perform anthropometric measurements, document in growth charts and Interpret

Minimum number required to certify-3

Growth assessment

No	Name	Age	Sex	Weight			Height/Length			MAC			HC			Wt for Ht		
				A	E	I	A	E	I	A	E	I	A	E	I	A	E	I
1																		
2																		
3																		

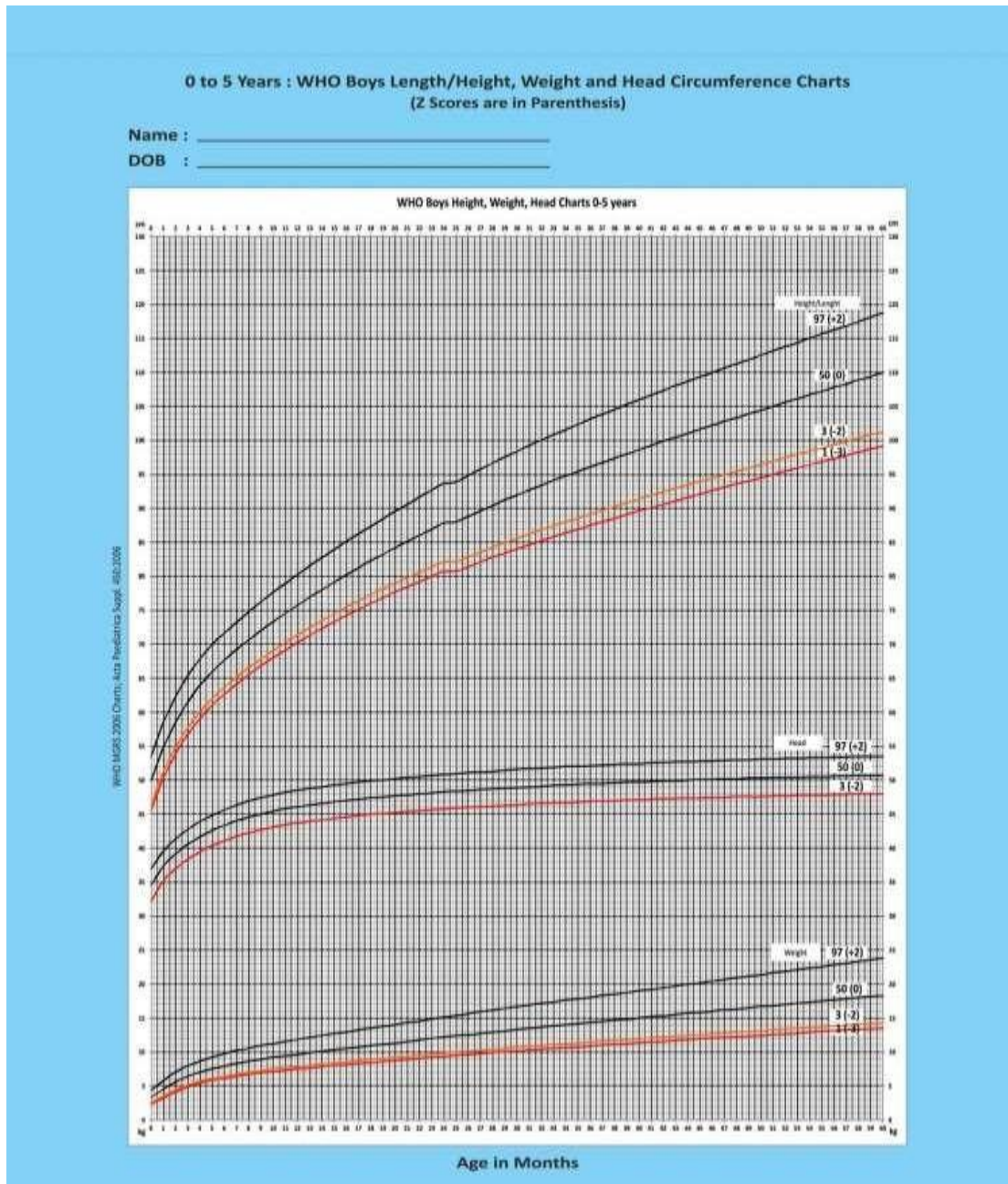
A – Actual

E – Expected

I – Inference

Use of growth charts

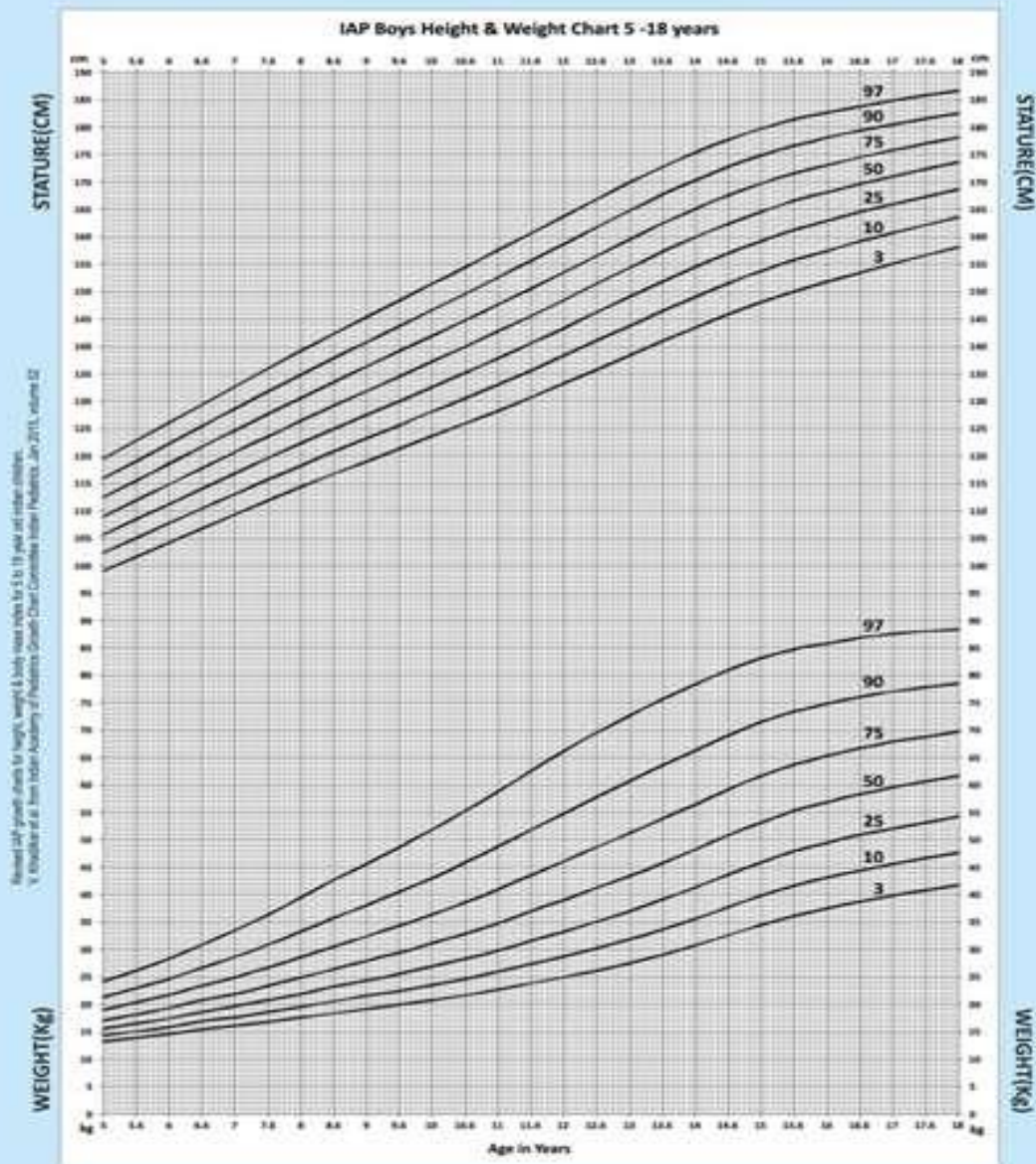
- Anthropometric values to be given here for each batch.
- They have to mark the values in the growth chart and interpret.



Interpretation:

5 to 18 Years : IAP Boys Height and Weight Charts

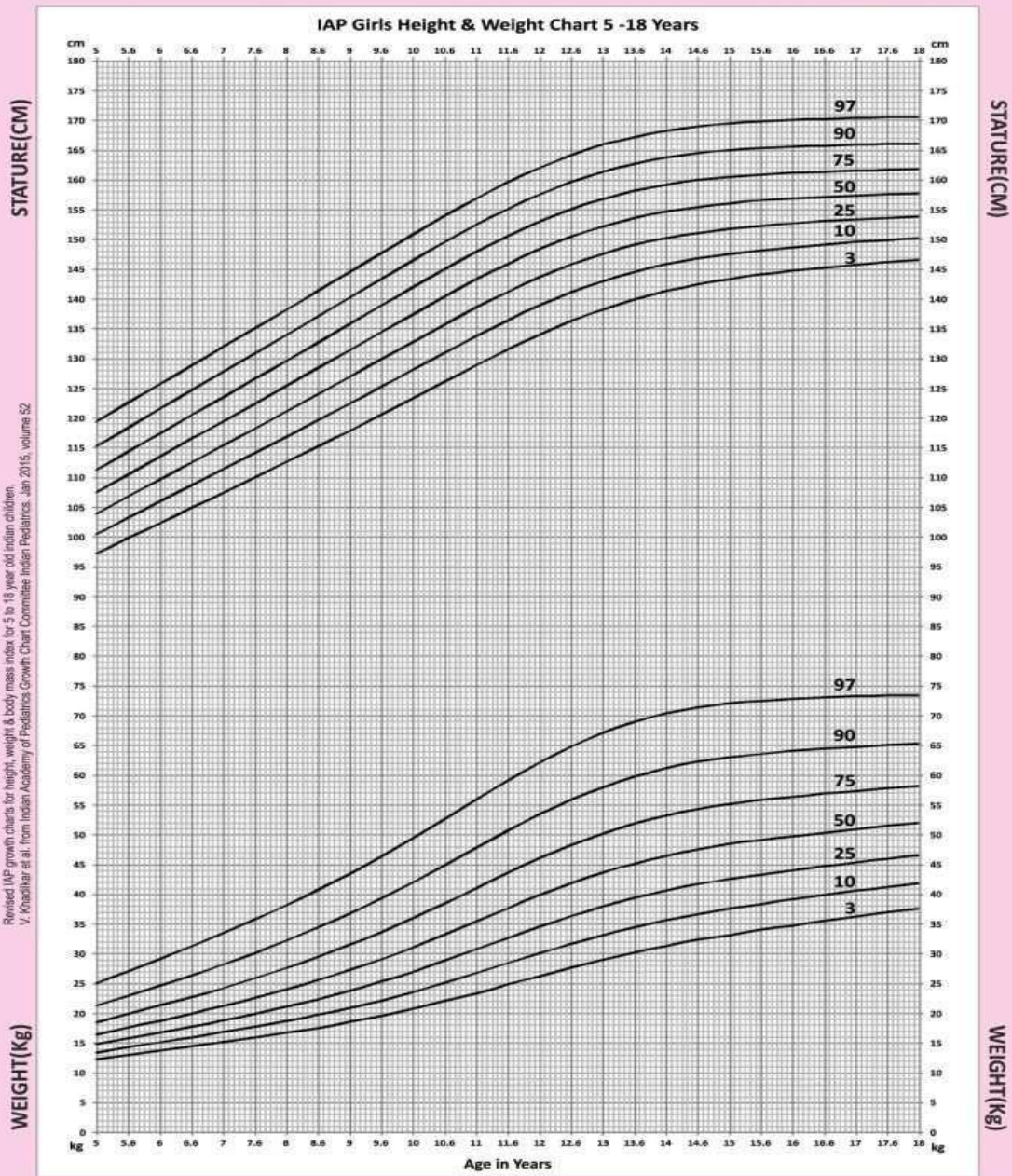
Father's Height _____, Mother's Height _____, Target Height _____



Interpretation:

5 to 18 Years : IAP Girls Height and Weight Charts

Father's Height _____, Mother's Height _____, Target Height _____



Interpretation:

Competency 2: Identify deviations in growth (Using the above growth charts)and plan appropriate referral.

Minimum number required to certify-2

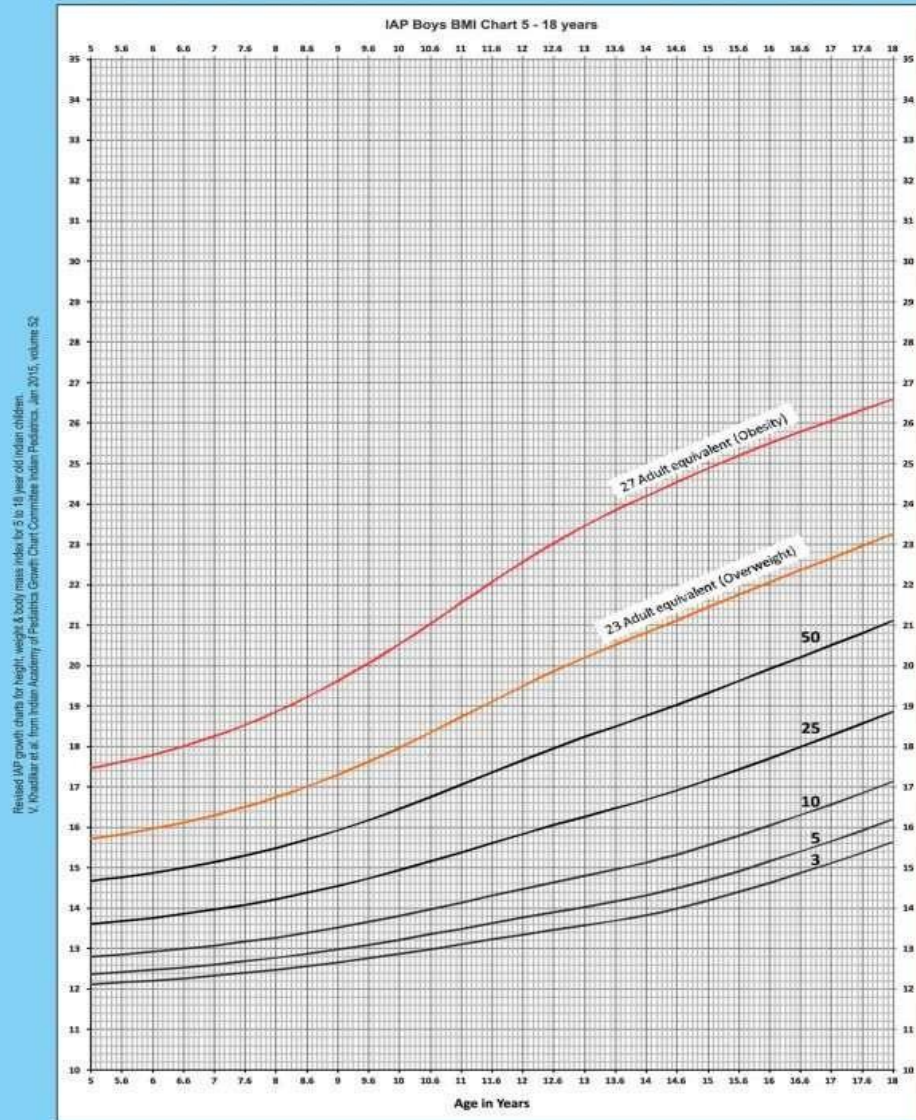
If requiring referral, mention the reasons for referral:

CASE 1	CASE 2
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

5 to 18 Years : IAP Boys Body Mass Index Charts

Name _____

DOB _____

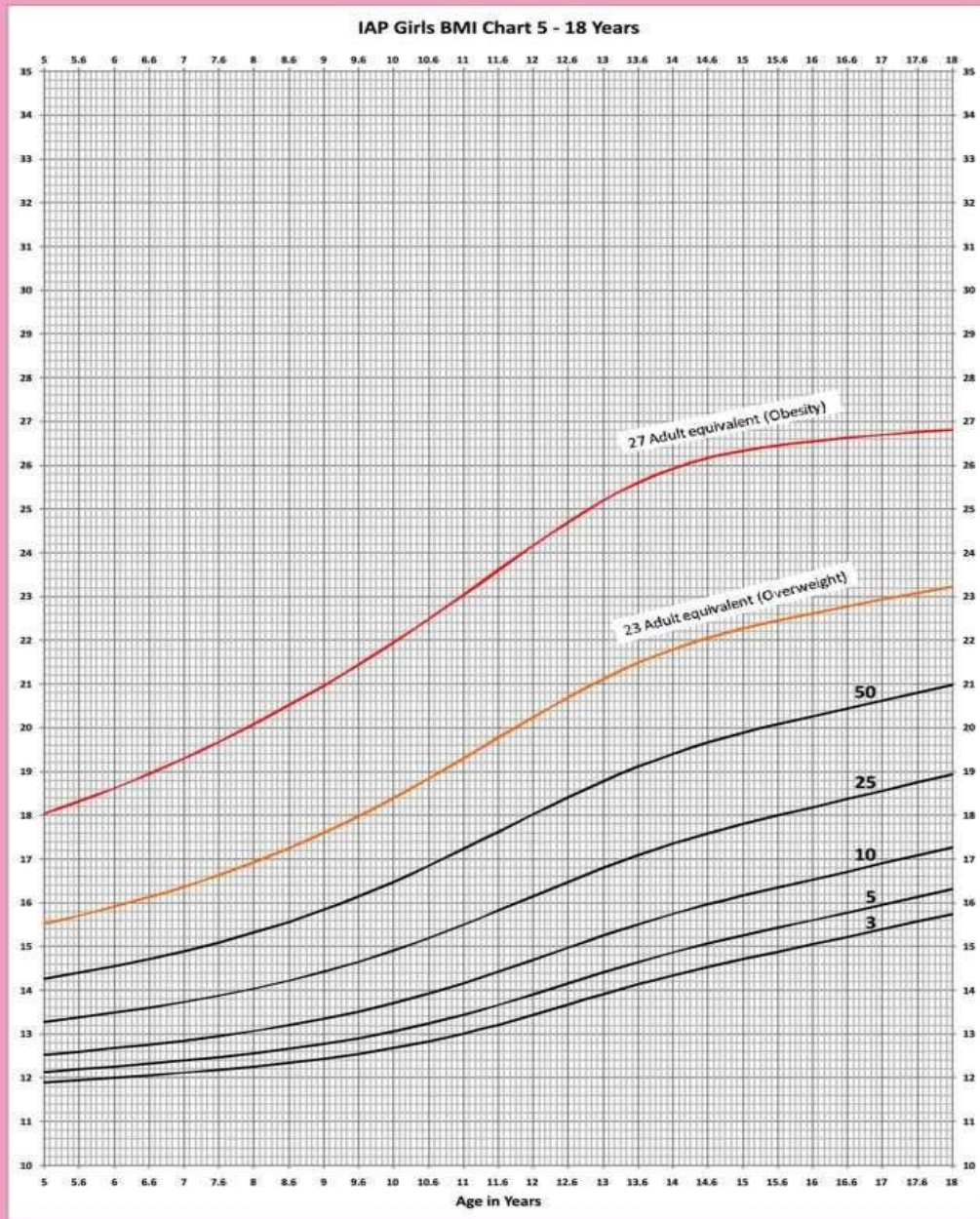


Interpretation:

5 to 18 Years : IAP Girls Body Mass Index Charts

Name _____
DOB _____

Revised IAP growth charts for height, weight & body mass index for 5 to 18 year old Indian children.
V. Khadilkar et al. from Indian Academy of Pediatrics Growth Chart Committee Indian Pediatrics, Jan 2015, volume 52.



Interpretation:

Competency 5. Assess the patient for fitness for immunization and prescribe an age-appropriate immunization schedule

Minimum number required to certify-5

Assessment of immunization status:

S. No	Name	Age	Sex	Vaccines received till date	Plan for further Immunization

PROFESSIONAL YEAR III
PHASE I

Competencies addressed	Date of activity completed (DD/MM/YY)	Attempt at Activity (F, R, Re)	Rating (B,M,E)	Decision of Faculty (C, R, Re)	Initial of faculty	Feedback Initial of learner and date
1. Observe the correct technique of breast feeding and distinguish right from wrong techniques						
2. Perform NG tube insertion in a manikin						
3. Perform and interpret urine dip stick for sugar						
4. Identify a BCG scar and interpret finding						
5. Interpret a Mantoux test						
6. Perform AFB Staining and interpret finding						

Competency 1. Observe the correct technique of breast feeding and distinguish right from wrong techniques

Minimum number required to certify-3

- Observe the process of breast feeding (under supervision) and note the following points:

i. Position of mother.

ii. Position of the baby.

S. No	Position of mother	Position of child	Attachment (latching)	Comments

Competency 2: Perform NG tube insertion in a manikin

Minimum number required to certify-3

- Demonstrate the following steps in inserting a NG tube in a manikin

S. No	Identify size of nasogastric tube as per age of child	Demonstrate landmarks for measurement of length of NG tube to be inserted on a manikin	Correctly measure the length of NG tube to be inserted	Insert the tube and check its position

Competency 3: Perform and interpret urine dip stick for sugar

Minimum number required to certify- 3

- Demonstrate the steps to perform
- Interpret the urine dip stick for sugar

S. no	Urine sugar by dipstick	Interpretation

Competency 4: Identify a BCG scar and interpret finding

Minimum number required to certify- 3

- Demonstrate the steps to identify a BCG scar
- Interpret the findings

S.No	Age of the child	Size of BCG scar	Quality of the scar
1			
2			
3			

Competency 5: Interpret a Mantoux test

Minimum number required to certify- 3

- Demonstrate the following steps to interpret a Mantoux test

S. No	Age	Measure induration (horizontal/transverse)	Interpretation
1			
2			
3			

COMPETENCIES REQUIRING DOCUMENTATION

(To be observed in ward/PICU/NICU/LT)

S. no	Competency addressed	Minimum No. to be done	Date completed	Faculty signature
1	Provide intra-natal care and observe the conduct of a normal delivery	3		
2	Observe different methods of administering Oxygen	3		
3	Observe administration of nebulization	3		

COMPETENCIES REQUIRING DOCUMENTATION
(As part of seminar, demonstration, case presentation)

S. no	Competencyaddressed	Minimum No. to be done	T/L Method	Date compl eted	Faculty signature
1	Plan an appropriate diet in health and disease	3			
2	Assessment of a child with obesity with regard to eliciting history	3			
3	Identify theclinical features of dietary deficiency /excess of Vitamin A	3			
4	Diagnose patients withVitamin A deficiency (VAD), classify and plan the management	3			
5	Identify the clinical features of dietary deficiency of vitamin D	3			
6	Assess patientswith Vitamin D deficiency, diagnose, classify and plan management	3			
7	Identify theclinical features of Vitamin B complex deficiency	3			
8	Diagnose patients with vitamin B complex deficiency andplan management	3			
9	Identify theclinical features of Vitamin C deficiency	3			
10	Identify the clinical features of dietary deficiency of Iron and make a diagnosis	3			

S. no	Competency addressed	Minimum No. to be done	T/L Method	Date completed	Faculty signature
11	Assess child for signs of abuse	3			
12	Identify the clinical features of Down Syndrome	3			
13	Identify the clinical features of Turner Syndrome	3			
14	Identify the clinical features of Klinefelter Syndrome	2			
15	Recognize precocious and delayed Puberty and refer	2			
16	Explain the follow-up care for neonates including breastfeeding, temperature maintenance, immunization, importance of growth monitoring and red flags.	3			

COMPETENCIES REQUIRING DOCUMENTATION

**(To be done by giving actual blood reports/case scenarios/x-rays/CT/MRI
/EEG/ECG reports)**

S . no	Competency Addressed	Minimum No. to be done	T/L method	Date completed	Faculty signature
1	Interpret blood tests relevant to upper respiratory problems	3			
2	Perform and Interpret peripheral smear	3			
3	Interpret normal Karyotype and recognize Trisomy 21	2			
4	Interpret normal Karyotype and recognize Turner Karyotype	2			
5	Interpret normal karyotype and recognize the Klinefelter karyotype	2			
6	Interpret bloodtests in the context of laboratory evidence for tuberculosis	2			

COMPETENCIES REQUIRING DOCUMENTATION
(To be done as part of AETCOM)

S. No	Competency addressed	Minimum No. to be done	Date completed	Faculty signature
1	Counseling a parent with failing to thrive child	3		
2	Counsel a parent of a child with developmental delay	3		
3	Respecting patient privacy and maintaining confidentiality while dealing with adolescence	3		
4	Educate mothers on antenatal breast care and prepare mothers for lactation	3		
5	Educate and counsel mothers for best practices in Breastfeeding	3		
6	Respect patient privacy	3		
7	Counsel and educate mothers on the best practices in complementary feeding	3		
8	Counsel parents of children with SAM and MAM	3		

S. No	Competency Addressed	Minimum No. to be done	Date completed	Faculty signature
9	Educate and counsela patient for immunization	3		
10	Demonstrate willingness to participate in the national and subnational immunization days	3		
11	Counsel/educate mothers on the care of neonates	3		
12	Counsel / educate apatient for referral appropriately	3		
13	Counsel a patient with chronic illness	3		
14	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	3		
15	Counsel and educatepatients about prevention and treatment of anemia	3		
16	Counsel parents regarding 1. Present child, 2. Risk in the next pregnancy (Down syndrome)	2		
17	Counsel parents regarding 1. Present Child, 2. Risk in the next pregnancy (Turner syndrome)	2		

ELECTIVE POSTING (If in Pediatrics)

Name of block	Name of elective	Location of elective	Attendance	Daily rounds	Assignments	Case presentation	Signature & Remarks of the faculty

PROFESSIONAL YEAR III
PHASE II

Competencies addressed	Date of activity completed (DD/MM/YY)	Attempt at Activity (F, R, Re)	Rating (B,M,E)	Decision of Faculty (C, R, Re)	Initial of faculty	Feedback Initial of learner and date
1. Assess airway and breathing: recognize signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting						
2. Assess airway and breathing: Demonstrate the method of positioning of an infant & child to open airway in a simulated environment						
3. Assess airway and breathing: Administer oxygen using correct technique and appropriate flow rate						
4. Assess airway and breathing: Perform assisted ventilation by Bag and mask in a simulated environment						
5. Check for signs of shock						
6. Choose the type of fluid and calculate the fluid requirement in shock						
7. Assess the level of consciousness & provide emergency treatment to a child with convulsion/coma						
8. Assess signs for severe dehydration						
9. Provide BLS in a children with manikin						

Competency 1: Assess airway and breathing: recognize signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting

Minimum number required to certify- 3

- Check for the following signs in a child with respiratory distress

S.no	Respiratory rate	Intercostal retractions	Alae nasi flaring	Drowsiness	Grunt or stridor	Cyanosis
1						
2						
3						

Competency 2: Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment

Minimum number required to certify- 3

- Assess whether the student performs the steps in a correct manner

S.no	Head tilt manoeuvre performed	Chin lift manoeuvre performed	Jaw thrust manoeuvre performed	Remarks of the facilitator
1				
2				
3				

Competency 3: Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate

Minimum number required to certify- 3

- Demonstrate the various methods of administering oxygen and at specific rates

S. no	Head box	Nasal cannula	High flow nasal cannula	Face mask	Non re-breathing mask	Rate of delivery of oxygen
1						
2						
3						

Competency 4: Assess airway and breathing: Perform assisted ventilation by Bag and mask in a simulated environment

Minimum number required to certify- 3

- Demonstrate assisted ventilation using bag and mask in a simulated environment

S. no	Chosen the correct size mask	Chosen the correct bag	Head and neck in proper position	Used the correct pressure to inflate	Looked for chest rise	Used the correct rate of ventilation
1						
2						

Competency 5: Check for signs of shock i.e., Pulse, Blood Pressure, Capillary Refilltime

Minimum number required to certify- 3

- Check for the signs of shock

S. no	Check for volume of pulse	Check BP	Check for saturation	Check for CRT	Check for skin colour and temperature	Check for sensorium
1						
2						
3						

Competency 6: Choose the type of fluid and calculate the fluid requirement in shock

Minimum number required to certify- 3

- Choose appropriate fluid according to different types of shock.
- Calculate the fluid for managing different types of shock at different age/size of the child.

S.no	Type of shock	Assess weight of child	Choose the appropriate fluid for bolus administration	Calculate the amount of fluid to be administered for bolus and continuation	Remarks
1	Hypovolemic				
2	Septic				
3	Cardiogenic				
4	Obstructive				
5	Burns				

Competency 9: Provide BLS for children in manikin

Minimum number required to certify- 3

- **Demonstrate the steps of providing BLS for children**

S.No	Check for response	Call for help	Check pulse and breathing simultaneously	Start chest compression	Make airway patent and give to rescue breaths	Repeat above CPR
1						
2						
3						

COMPETENCIES REQUIRING DOCUMENTATION
(To be done as part of seminar, demonstration, case presentation)

Competencies Addressed	Minimum No. to be done	T/L method	Date completed	Faculty signature
1. Analyze symptom and interpret the physical findings and arrive at an appropriate provisional differential diagnosis	3			
2. Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral	3			
3. Counsel / educate a patient for referral appropriately	3			

COMPETENCIES REQUIRING DOCUMENTATION
(To be done as part of IMNCI assessment)

S. no	Competency Addressed	Minimum No. to be done	Date completed	Faculty signature
1	Identify children with under nutrition as per IMNCI criteria and plan referral	3		
2	Assess children <2 months using IMNCI guidelines	3		
3	Assess children >2 months to 5 years using IMNCI guidelines and stratify risk	3		
4	Identify and stratify risk in a sick neonate using IMNCI guidelines	3		
5	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer	3		
6	Stratify risk in children with stridor using IMNCI guidelines	3		

COMPETENCIES REQUIRING DOCUMENTATION

(To be done in a simulated environment)

S. no	Competency Addressed	Minimum No. to be done	Date completed	Faculty signature
1	Provide intra-natal care and conduct a normal delivery in a simulated environment	3		
2	Demonstrate the correct administration of different vaccines in a mannequin	3		
3	Perform Neonatal resuscitation in a manikin	3		
4	Demonstrate the technique of liver biopsy in a manikin Perform Liver Biopsy in a simulated environment	2		
5	Demonstrate performance of bone marrow aspiration in a mannequin.	2		

COMPETENCIES REQUIRING DOCUMENTATION

(To be done by giving actual blood reports/case scenarios/x-rays/CT/MRI/EEG/ECG reports)

S.No	Competency Addressed	MinimumNo. to be done	T/L method	Date completed	Faculty signature
1	Interpret report of Plain X Ray (KUB)	3			
2	Enumerate the indications for and Interpret the written report of USG (KUB)	3			
3	Interpret a chest X ray and recognize Cardiomegaly	3			
4	Choose and Interpret bloodreports in Cardiac illness	3			
5	Interpret Pediatric ECG	3			
6	Interpret RFT and electrolytereport	3			
7	Interpret and explain the findings in a CSF analysis	3			
8	Enumerate the indication and discuss the limitations of EEG, CT, MRI	3			
9	Interpret the reports of EEG, CT, MRI	3			
10	Interpret blood tests in the context of laboratory evidence for tuberculosis	3			

COMPETENCIES REQUIRING DOCUMENTATION
(To be done as part of AETCOM)

S. no	Competency Addressed	Minimum No. to be done	Date completed	Faculty signature
1	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	3		
2	Counsel and educate patients and their family appropriately on liver diseases	3		
3	Counsel parents of dangerously ill/ terminally ill child to break a bad news	2		
4	Obtain Informed consent	2		
5	Willing to be a part of the ER team	3		
6	Attends to emergency calls promptly	3		

SELF-DIRECTED LEARNING

Sl. No.	Topics	Objectives	Tasks	Impressions
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

CLINIC/FIELD VISITS

S. no	Visit to	Competency	Year /Phase	Date completed	Report submitted	Faculty signature
1	Child development unit	Visit a Child Development Unit and Observe its functioning				
3	Adolescent clinic	Visit to the Adolescent clinic				
4	Rural health centre	Observe the implementation of the program by visiting the Rural Health Center				
5	Immunization clinic	i. Observe the handling and storing of vaccines				
		ii. Document Immunization in an immunization record				
		iii. Observe the administration of UIP vaccines				
		iv. Practice Infection control measures and appropriate handling of the sharps				

