

CURTIN MEDICAL SCHOOL

PAEDIATRICS

SPECIFIC LEARNING OBJECTIVES

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with substantive revisions and input from the academic staff and adjunct staff of Curtin Medical School

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	4

CLINICAL PROBLEM SOLVING IN PAEDIATRICS

Previous significant illnesses/hospitalisations/surgeries:

Theme 2: Patient &

Doctor: Clinical Practice

KNOWLEDGE: None specified for this topic. A.

Interviewing Skills

Past History

i.

1

В. **SKILLS:** Students should demonstrate specific skills, including:

Obtain the following information in an age-appropriate and sensitive manner from a child and the accompanying adult:

ii.	Chronic medical conditions;	
Birth Histo	•	
i.	Gestational age, type of delivery, resuscitation, birth weight, head circumference, administration of Vitamin K and Hepatitis B vaccine	
Antenatal I	•	
ii.	Maternal complications (e.g. extent of prenatal care, infections, exposure to drugs, alcohol or medications, pre-eclampsia, gestational diabetes, diagnostic procedures or investigations);	
iii.	Problems in the newborn period (e.g. prematurity and related complications, respiratory distress, jaundice, hypoglycaemia and infections);	
Immunisat	,	
	s and medication allergies	
	d development	
Nutrition		
Family His	tory	
i.	Age and health of family members to include acute and chronic medical conditions;	
ii.	Drug and alcohol abuse; and	
iii.	Including a family pedigree, if relevant.	
Social Hist	ory	
i.	Household composition and socioeconomic status;	
ii.	School, caregiver, and peer relationships;	
iii.	HEADSS assessment; and	
iv.	Environmental and Personal Safety Assessment:	
	 a. Seat belts and car seats 	
	b. Bicycle helmets	
	c. Firearms in the home	
	d. Smoking	
	e. Lead exposure	
	f. Home safety for infants and toddlers	
Physical E	Examination Skills	Theme 2: Patient & Doctor: Clinical Practice
Students s	hould be able to perform the following examination	Bootor: Offinoar Fraction
skills:		
	e	
Appearance		
Appearand i.	Interpret the general appearance of the child,	2.3
	Interpret the general appearance of the child, including dysmorphic features, neurocutaneous	2.3
	including dysmorphic features, neurocutaneous	2.3
	including dysmorphic features, neurocutaneous lesions, behaviours and interaction of the child with	
	including dysmorphic features, neurocutaneous	2.3
i.	including dysmorphic features, neurocutaneous lesions, behaviours and interaction of the child with the parent and examiner; and	
i. ii.	including dysmorphic features, neurocutaneous lesions, behaviours and interaction of the child with the parent and examiner; and	
i. ii. Vital signs	including dysmorphic features, neurocutaneous lesions, behaviours and interaction of the child with the parent and examiner; and Identify signs of acute and chronic illness.	
i. ii. Vital signs	including dysmorphic features, neurocutaneous lesions, behaviours and interaction of the child with the parent and examiner; and Identify signs of acute and chronic illness. Measure vital signs, demonstrating knowledge of the	

	measurement (e.g. oral, rectal, axillary or tympanic); and	2.6
ii.	Identify variations in vital signs based on age of the	
	patient and recognising the patterns that suggest	
	early warning signs by use of charrs such as	
	Paediatric Acute Recognitic and Response Chart	2.4
	(PaRROT) and Children's Early Waning Tool.	
Growth (S	See section on Growth)	
i.	Accurately plot and interpret height (length up to 2	2.0
	years of age), weight, and head circumference. For	2.6
	children born before 37 weeks gestation, plot the	0.0
	parameters for their corrected age until 2 years of	2.6
	age;	2.6
ii.	Calculate, plot, and interpret BMI and Z score; and	2.4
iii.	Use longitudinal data in assessing growth.	
	nent (See section on Development) Accurately identify and interpret major developmental	
i.	milestones of the neonate, infant, toddler, school-	
	aged child, and adolescent.	2.6
HEENT	aged crilid, and adolescent.	2.0
i.	Observe, measure, and describe head size and	
	shape, symmetry, facial features, and ear position as	2.5
	part of the examination for dysmorphic features;	
ii.	Palpate sutures and fontanels in neonates and	2.6
	interpret the findings;	
iii.	Identify the red reflex and discuss how it is used to	2.6
	detect cataract, retinsoblastoma (particularly in	
	neornates) and corneal opacities and intraocular	2.3
	masses;	2.3
iv.	Detect the corneal light reflection and discuss how it	2.6
	is used to identify strabismus;	
V.	Assess hydration of the mucous membranes;	2.3
vi. 	Assess dentition;	
vii.	Observe the tympanic membrane using an otoscope	
viii.	and an insufflator; and	2.3
VIII.	Identify the structures of the oropharynx (e.g. uvula, tonsils, palate, tongue) and recognise signs of	
	pathology.	2.6
Neck	patriology.	
i.	Palpate lymph nodes and describe anatomical	2.3
	location, size, mobility, tenderness, consistency,	
	discolouration and what anatomic areas they drain;	2.3
ii.	Demonstrate manoeuvers that test for nuchal rigidity;	
	and	2.3
iii.	Palpate the thyroid and any other neck masses.	
Chest		0.0
i.	Observe, measure and interpret the rate, pattern and	2.3
	effort of breathing;	
ii.	Identify normal variations of respiration and signs of	2.3
	respiratory distress (e.g. grunting, flaring, and	2.3
,	retraction);	
iii.	Identify normal breath sounds and findings	
	consistent with respiratory pathology (e.g. stridor,	
	wheezing, crackles and asymmetric breath sounds):	2.3
iv.	dull/resonant/hyperresonant percussion;	-
	Identify transmitted upper airway sounds; and Observe and describe breast tissue according to	2.3
V.	developmental stage (e.g. Tanner scale) and palpate	
	developmental stage (e.g. Talillel scale) allu palpate	2.3

	breast tissue in age appropriate sensitive manner	
	with permission and presence of a chaperone if	
	required.	
Cardiovascı		2.6
i.	Identify the pulses in the upper and lower extremities	2.0
	through palpation;	2.3
ii.	Observe and palpate precordial activity;	
iii.	Identify cardiac rhythm, rate, and quality (e.g.	2.3
	intensity, pitch, and location) of the heart sounds and	
	murmurs and variation with manoeuvers through	2.3
	auscultation;	
iv.	Assess peripheral perfusion, using a test for capillary	
	refill; and	2.5
٧.	Identify central versus peripheral cyanosis.	
Abdomen		
i.	Inspect for distension, umbilicus	2.3
ii.	Palpation: Describe tenderness/guarding/rigidity if	
	any; If liver is palpable, describe size in centimetres	
	below the costal margin, edge, surface, tenderness; if	2.3
	spleen is palpable, describe size in centimetres below	
	the costal margin, identify the notch; If kidneys are	
	palpable, check if they are ballotable;	2.5
iii.	Ellicit signs for presence of ascitic fluid by percussion	
	if suspected;	
iv.	Describe if any other masses including faecal matter	
	can be palpated;	2.3
٧.	Ausculatate to check presence of bowel sounds;	
vi.	Determine the need for a rectal examination, and	
	demonstrate the age- appropriate technique.	2.3
Genitalia an	nd inguinal region	
i.	Describe the difference in appearance of male and	2.3
	female genitalia at different ages (e.g. Tanner) and	
	pubertal stages;	
ii.	Recognise and describe ambiguity of external	2.3
	genitalia if not normal for the sex;	2.0
iii.	Palpate the testes and identify genital abnormalities	
	in males, including cryptorchidism, hypospadias,	
	phimosis, hernia, hydrocele and testicular mass; and	
iv.	Recognise genital abnormalities in females	2.5/
	including signs of virilisation, imperforate hymen,	2.6 2.3
	labial adhesions and signs of injury.	
Extremities		
i.	Examine the hips of a newborn for developmental	2.6
	dysplasia of the hip using the Ortolani and Barlow	
	manoeuvers;	
ii.	Observe and describe the gait of children at different	2.6
	ages;	
iii.	Identify age-related variations in the examination of	
	the extremities (e.g. tibial torsion, genu valgus, flat	2.6
	feet, etc.); and	
iv.	Recognise pathology, such as joint effusions, signs	
IV.	of trauma, and inflammation and restricted or	
	excessive joint mobility.	0.5
Back	CACCOSIVE JOHN MODILLY.	2.6
	Perform and interpret a screening test for scalingis:	
l.	Perform and interpret a screening test for scoliosis;	
ii	and Evamine the back for midline tufts of bair, nits	2.6
ii.	Examine the back for midline tufts of hair, pits,	
	sacral dimples, or masses.	

	Neurologic examination	
	 Elicit the primitive reflexes that are present at birth 	
	and describe how they change as the child	
	develops;	
	ii. Assess the quality and symmetry of tone, strength	
	and reflexes, using age- appropriate techniques;	
	and	
	iii. Assess the major developmental milestones of	
	newborns, infants, toddlers, school aged, children,	
	and adolescents.	
	Skin	
	i. Describe and assess turgor, perfusion, colour, hypo	
	and hyperpigmented lesions, and rashes through	
	observation and palpation; and	
	ii. Identify jaundice, petechiae, purpura, bruising,	
	vesicles, and urticaria.	
3	Patient Communication Skills	Theme 2: Patient &
	Conduct an effective interview by adenting the interview to the	Doctor: Clinical Practice 2.1
а	Conduct an effective interview by adapting the interview to the	۷.۱
	visit (e.g. first visit, acute care, health supervision), or chief	
	complaint. Demonstrate effective verbal and non-verbal communications	2.1
b		2.1
	skills with children and their parents or families or carers that	
	include:	2.1
	i. Establishment of rapport by taking into account the	2.1
	patient's age and development stage;	0.0
	ii. Use of communication techniques that enable	3.2
	development of a therapeutic alliance and being	
	sensitive to the unique social condition and cultural	
	background of the family;	2.8
	iii. Identification of the primary concerns of the patient	
	and/or family; and	2.9
	iv. Avoidance of medical jargon during discussions of	2.5
	medical information that is understandable to patients	
	and families.	0.4
С	Correctly identify the need for an interpreter in specific interactions	2.1
	with patients.	
d	Effectively communicate information about the diagnosis,	2.9
	diagnostic plan, and treatment to the patient and family and	
	assess the patient's and family's understanding.	0.40
е	Describe the important role of patient education in treatment of	2.10
	acute and chronic illness, and prevention of disease.	
f	Observe and reflect on the communication of sensitive	2.1
	information/test results/diagnosis to parents, children and	
	adolescents.	
4	Peer Communication Skills	Theme 2: Patient &
4	reel Communication Skins	Doctor: Clinical Practice
а	Demonstrate effective oral and written communication with the	2.1
	health care team by avoiding jargon and vague terms (e.g. clear	
	and normal chest).	
b	Present a complete, well-organized verbal summary of the	2.1
	patient's history and physical examination findings, including an	
	assessment and plan modifying the presentation to fit the	
	constraints and educational goals of the situation.	
С	Document the history, physical examination, assessment and	2.15
	plan using a format appropriate to the clinical situation (e.g.	
	inpatient admission, progress note, office or clinic visit, acute	
	illness, health supervision visit, and interval care visits).	
	, , , , , , , , , , , , , , , , , , , ,	

d	Write admission and daily orders for a hospitalised patient in consultation with treating team.		2.15
е	Write a sample prescription (see Therapeutics section) (U) specific for a child's weight.		2.11
5	Problem-solving Skills	Theme 2: Patient of Doctor: Clinical Pr	
а	Generate an age-appropriate differential diagnosis and problem list based on the interview and physical examination.		2.4
b	Outline a diagnostic plan based on the differential diagnosis, and justify the diagnostic tests and procedures (taking into account the test's sensitivity, specificity, and predictive value, as well as its invasiveness, risks, benefits, limitations, and costs).		2.7
С	Interpret the results of diagnostic tests or procedures, recognising the age-appropriate values for commonly used laboratory tests, such as the Complete Blood Count, urinalysis serum electrolytes, chest X-ray etc.		2.5
d	Formulate a management plan appropriate to the working diagnosis.		2.7
е	Formulate an educational plan to inform the health care team and family of your thought process and decisions.		2.9
g	Search for relevant information using electronic (or other) databases and critically appraise the information obtained to make evidence-based decisions.	Theme 1: Scientific Foundations of Medicine	1.4

HEALTH SUPERVISION

A. KNOWLEDGE: Students should be able to:

examination.

Demonstrate sensitivity to confidentiality, privacy, and modesty, during the medical interview and physical

1	List the most common preventable morbidities in childhood and describe strategies for prevention.	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe the components of a health supervision visit including health promotion and disease and injury prevention, the appropriate use of screening tools, and immunisations.	Theme 3: Health & Illness in Society	3.5
3	Describe the rationale for childhood immunizations. (See Prevention.)	Theme 3: Health & Illness in Society	3.5
4	Describe the indications, appropriate use, interpretation, and limitations of the following screening tests:	Theme 3: Health & Illness in Society	3.5
	 Neonatal screening; 		
	ii. Developmental screening;		
	iii. Hearing and vision screening; and		
	iv. Anaemia screening.		
5	Define anticipatory guidance and describe how it changes based on the age of the child.	Theme 1: Scientific Foundations of Medicine	1.2

B. SKILLS: Students should be able to:

Theme 4: Professional & Personal Development

1	Provide a	age-appropriate anticipatory e about:	Theme 2: Patient & Doctor: Clinical Practice	2.8
	i.	nutrition;		
	ii.	behaviour;		
	iii.	immunisations;		
	iv.	injury prevention;		
	٧.	pubertal development;		
	vi.	sexuality; and		
	vii.	substance use and abuse.		

GROWTH

A. KNOWLEDGE: Students should be able to:

1	Describe variants of normal growth in healthy children (e.g. familial macrocephaly, familial short stature and constitutional delay usually applicable to pubertal assessment).	Theme 1: Scientific Foundations of Medicine	1.3
2	Identify and describe abnormal growth patterns based on preferably longitudinal growth patterns (e.g. microcephaly, macrocephaly, short stature, growth abnormalities related to specific physical findings).	Theme 1: Scientific Foundations of Medicine	1.3
3	Identify failure to thrive using commonly used definitions in young children and overweight/obesity in children and adolescents using BMI/Z score.	Theme 1: Scientific Foundations of Medicine	1.3

B. SKILLS: Students should be able to:

1	Measure and assess growth including height/length, weight, and head circumference and body mass index in patient encounters using standard growth charts.	Theme 2: Patient & Doctor: Clinical Practice	2.6
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C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

DEVELOPMENT

1	Describe the four developmental domains of childhood as defined by the <u>Denver</u> Developmental exam (e.g. gross motor, fine motor, language, and social development). Develop familiarity with other screening tools used such as the Ages and Stages Questionnaire (ASQ).	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe how deviations from the norm would suggest a diagnosis of developmental delay, autism, pervasive developmental delay, and intellectual disability.	Theme 1: Scientific Foundations of Medicine	1.3
3	Describe the initial evaluation and need to refer a patient with evidence of developmental delay or abnormality.	Theme 1: Scientific Foundations of Medicine	1.3

B. SKILLS: Students should be able to:

Theme 2: Patient & 1 2.3 Assess psychosocial, language, physical maturation, and **Doctor: Clinical Practice** motor development in paediatric patients using appropriate resources (e.g. Bright Futures, the Denver Developmental Standard Test 2, and HEADSS (CP).) Key features might include the following: Newborn/Infant: Disappearance i. primitive reflexes; changes in tone and posture; cephalocaudal progression of motor milestones during the first year; stranger anxiety; Toddler/child: Separation and ii. autonomy in two to three-year olds; sequence of language development; concept of school readiness; and iii. Adolescent: Sequence of physical maturation (e.g. Tanner scales), cognitive development, and assessment of psychosocial and emotional development (e.g.

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

BEHAVIOUR

A. **KNOWLEDGE:** Students should be able to:

HEADSS).

1	Identify normal pattern of behaviours in the developing child such as:	Theme 1: Scientific Foundations of Medicine	1.3
	 i. newborn infants: development and 		
	evolution of social skills;		
	ii. toddler: autonomy;		
	iii. school age: independence; and		
	iv. adolescence: abstract thinking.		
2	Describe the typical presentation of common behavioural	Theme 1: Scientific Foundations of Medicine	1.3
	problems and issues in different age groups such as:	r dandations of Modionio	
	 i. newborn/infants: sleep problems, colic; 		
	ii. toddler: temper tantrums, toilet training,		
	feeding problems;		
	iii. school age: enuresis, attention		
	deficit, encopresis, autism; and		
	iv. adolescence: eating disorders, risk-		
-	taking behaviour, conduct disorders.		
3	Describe the emotional disturbances or medical conditions	Theme 1: Scientific Foundations of Medicine	1.3
	that may manifest as alterations in school performance and	r dandations of Medicine	,
	peer or family relationships.	Th 4. O	
4	Distinguish between age-appropriate behaviour,	Theme 1: Scientific Foundations of Medicine	1.3
	inappropriate or abnormal behaviour, and those that		
	suggest severe psychiatric or development illness in		
	children of different ages (e.g. head banging, threatening		
	gestures, suicidal).		
5	Describe how somatic complaints may represent	Theme 1: Scientific	1.3
	psychosocial problems (e.g. recurrent abdominal pain,	Foundations of Medicine	
			-

	headache, fatigue, and neurologic complaints).		
6	Describe the adverse family situations (e.g. alcoholism, domestic violence, depression) which may contribute to childhood behaviour problems.	Theme 1: Scientific Foundations of Medicine	1.3
В.	SKILLS: Students should be able to:		
1	Identify behavioural and psychosocial problems of childhood using the medical history, interview including use of HEADSS screen in adolescents and physical examination.	Theme 2: Patient & Doctor: Clinical Practice	2.4
2	Counsel parents and children about the management of common behavioural concerns (e.g. discipline, toilet training, and eating disorders).	Theme 2: Patient & Doctor: Clinical Practice	2.9

NUTRITION

1	Describe the advantages of breastfeeding and describe common difficulties experienced by breastfeeding mothers.	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe the signs and symptoms of common nutritional deficiencies in infants and children (e.g. protein, energy, iron, vitamin D, other, micronutrient deficiencies, fluoride, and and how to prevent them.	Theme 1: Scientific Foundations of Medicine	1.3
3	Identify children with specific or special nutritional needs (e.g. patients with chronic illnesses, prematurity, abnormal growth patterns, failure to thrive, obesity, or when family risk factors suggest the possibility that nutritional modification will be needed).	Theme 1: Scientific Foundations of Medicine	1.3
4	Describe nutritional factors that contribute to the development of childhood obesity and to failure to thrive.	Theme 1: Scientific Foundations of Medicine	1.3
5	Discuss risk factors for the development of cardiac disease and diabetes with families.	Theme 1: Scientific Foundations of Medicine	1.3
6	Describe the endocrine, cardiovascular, and orthopaedic consequences of childhood obesity.	Theme 1: Scientific Foundations of Medicine	1.3

В.	SKILLS: Students should be able to demonstrate specific s	skills, including:	
1	Obtain a dietary history in children of different ages that includes the following: i. Infants: frequency of breast feeds; volume, type and frequency of formula feeds, solid foods, and dietary supplements (vitamins, iron, fluoride); ii. Toddler/school age child: amount of milk, juice, soda, fast foods, and meal patterns; and iii. Adolescents: meal patterns, nutritional supplements, milk, juice, soda, alcohol, snacking, and fad diets.	Theme 2: Patient & Doctor: Clinical Practice	2.2
2	Determine the caloric adequacy of an infant's diet.	Theme 2: Patient & Doctor: Clinical Practice	2.6

3	Provide nutritional following:	advice to families regarding the	Theme 2: Patient & Doctor: Clinical Practice	2.9
	i.	Breastfeeding vs. formula feeding;		
	ii.	Addition of solids to an infant's diet;		
	iii.	Introduction of cow's milk to an infant's diet;		
	iv.	Healthy food choices for children and adolescents; and		
	V.	Exercise and TV or video viewing and their effect on obesity.		

PREVENTION

A. KNOWLEDGE: Students should be able to define, describe, and discuss:

1	Describe how risk of illness and injury change during growth and development and give examples of age-and development-related illnesses and injuries.	Theme 1: Scientific Foundations of Medicine	1.3
2	List the immunisations currently recommended from birth through adolescence and identify patients whose immunisations are delayed.	Theme 1: Scientific Foundations of Medicine	1.3
3	Describe the rationale and contraindications of immunisations.	Theme 1: Scientific Foundations of Medicine	1.3
4	Explain how screening for family/domestic violence may serve as an important preventive health practice.	Theme 1: Scientific Foundations of Medicine	1.3
5	Describe the key components of a pre-participation sports physical.	Theme 1: Scientific Foundations of Medicine	1.3
6	Describe infection control precautions that help limit the spread of infectious diseases in patients and health care providers (e.g. handwashing, gloves, masks, and situation specific personal protective eqipement such as in patients confirmed to havetuberculosis or COVID-19).	Theme 1: Scientific Foundations of Medicine	1.3

B. SKILLS: Students should be able to demonstrate specific skills, including:

1	Provide ag following:	e-appropriate anticipatory guidance for the	Theme 2: Patient & Doctor: Clinical Practice	2.9
	ioliowing.	motor vehicle safety;		
	ı. İİ.	infant sleeping position;		
	iii.	falls;		
	iv.	burns;		
	V.	poisoning;		
	vi.	fire safety;		
	vii.	choking;		
	viii.	water safety;		
	ix.	bike safety;		
	Х.	sexually transmitted diseases; and		
	xi.	firearms and weapons.		

C. PROFESSIONAL BEHAVIOURS: None specified for this topic

ISSUES UNIQUE TO ADOLESCENCE

A. KNOWLEDGE: Students should be able to:

1	Describe the unique features of the physician-patient relationship during adolescence including confidentiality	Theme 4: Professional & Personal Development	4.6
2	and consent. Identify and describe the sequence of the physical changes of puberty (e.g. Tanner scale) from physical examination if appropriate and use of cartoons.	Theme 1: Scientific Foundations of Medicine	1.3
3	List the components of health supervision for an adolescent, such as personal habits, pubertal development, immunizations, acne, scoliosis, sports participation, and indications for pelvic exam.	Theme 1: Scientific Foundations of Medicine	1.3
4	Describe the common risk-taking behaviours of adolescents, such as alcohol and other drug use, sexual activity and violence.	Theme 1: Scientific Foundations of Medicine	1.3
5	Describe the contributions of unintentional injuries, homicide, suicide and HIV/AIDS to the morbidity and mortality of adolescents.	Theme 1: Scientific Foundations of Medicine	1.3
6	Describe the features of common mental health problems in adolescence, including school failure, attention deficit, body image, eating disorders, depression and suicide.	Theme 1: Scientific Foundations of Medicine	1.3
7	Describe an approach to counselling an adolescent regarding sexual activity, substance abuse, and personal safety.	Theme 1: Scientific Foundations of Medicine	1.3
8	Describe the unique difficulties encountered by adolescents with chronic diseases, including adherence and issues of autonomy vs. dependence.	Theme 1: Scientific Foundations of Medicine	1.3
9	Discuss the characteristics of early, mid and late adolescence in the terms of cognitive and psychosocial development.	Theme 1: Scientific Foundations of Medicine	1.3
В.	SKILLS: Students should be able to demonstrate specific	skills, including:	
1	Interview an adolescent patient, using the HEADSS (or HEEADSS) method, to ask sensitive questions about lifestyle choices that affect health and safety (e.g. sexuality, drug, tobacco and alcohol use) (CP) and give appropriate counselling.	Theme 2: Patient & Doctor: Clinical Practice	2.1
2	Conduct a physical examination of an adolescent that demonstrates respect for privacy and modesty, employing a chaperone when appropriate.	Theme 2: Patient & Doctor: Clinical Practice	2.3
3	Conduct a pre-participation sports examination and demonstrate the key components of that examination necessary to clear an individual for participation in strenuous exercise (e.g. special senses, cardiac, pulmonary, neurological, and musculo-skeletal).	Theme 2: Patient & Doctor: Clinical Practice	2.3
4	Conduct a health supervision visit for a healthy adolescent, incorporating a psychosocial interview, developmental assessment and appropriate screening and preventive measures.	Theme 2: Patient & Doctor: Clinical Practice	2.3

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

ISSUES UNIQUE TO THE NEWBORN

4			
1	Describe the transition from the intrauterine to the extrauterine environment, including temperature regulation,	Theme 1: Scientific Foundations of Medicine	1.3
	cardiovascular/respiratory adjustment, glucose regulation,		
	and initiation of feeding.		
2	List the information from the history of pregnancy, labour,	Theme 1: Scientific Foundations of Medicine	1.3
	and delivery obtained from the parents or medical record	Foundations of Medicine	
	that has implications for the health of the newborn.		
3	Describe how gestational age can be assessed with an	Theme 1: Scientific Foundations of Medicine	1.3
	instrument such as the Ballard scale and identify key	r outloations of Medicine	
	indications of gestational maturity.		4.0
4	Describe the challenges for parents adjusting to a new	Theme 1: Scientific Foundations of Medicine	1.3
	infant in the home.		1.2
5	List the differential diagnosis and complications for the	Theme 1: Scientific Foundations of Medicine	1.3
	following common problems that are seen in the newborn:		
	i. jaundice;		
	ii. respiratory distress; iii. poor feeding;		
	iv. large and small for gestation infants		
	v. congenital infection;		
	vi. "state" abnormalities which includes		
	tremulousness, irritability, lethargy from		
	causes such as drug withdrawal,		
	hypoglycaemia, sepsis; and		
	• • • • • • • • • • • • • • • • • • • •		
	vii. prematurity.		
6	vii. prematurity. Describe how gestational age affects risks of morbidity or	Theme 1: Scientific	1.3
6	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease,	Theme 1: Scientific Foundations of Medicine	1.3
6	Describe how gestational age affects risks of morbidity or		1.3
6	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease,		1.3
6 B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease,		1.3
	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the	Foundations of Medicine Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant.	Foundations of Medicine Theme 2: Patient & Doctor: Clinical Practice	2.3
В.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant.	Foundations of Medicine Theme 2: Patient & Doctor: Clinical Practice	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues:	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
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B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iii. normal neonatal sleep patterns;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iii. normal neonatal sleep patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iii. normal neonatal sleep patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iii. normal neonatal sleep patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use;	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use; vi. prevention of Sudden Infant Death	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use; vi. prevention of Sudden Infant Death Syndrome ("back to sleep");	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use; vi. prevention of Sudden Infant Death Syndrome ("back to sleep"); vii. immunisations (e.g. HBV);	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iii. normal neonatal sleep patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use; vi. prevention of Sudden Infant Death Syndrome ("back to sleep"); vii. immunisations (e.g. HBV); viii. medications (e.g. eye prophylaxis and	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3
B.	Describe how gestational age affects risks of morbidity or mortality in the newborn period (e.g. lung disease, hypothermia, and glucose homeostasis). SKILLS: Students should be able to: Perform a complete physical examination of the newborn infant. Give parents of a newborn anticipatory guidance for the following issues: i. the benefits of breast-feeding vs. formula for the newborn and mother; ii. normal bowel and urinary elimination patterns; iv. newborn screening tests to include screens for cystic fibrosis, hypothyroidism, galactosemia, phenylketonuria, other metabolic and infectious conditions and hearing loss; v. appropriate car seat use; vi. prevention of Sudden Infant Death Syndrome ("back to sleep"); vii. immunisations (e.g. HBV);	Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient &	2.3

MEDICAL GENETICS AND DYSMORPHOLOGY

A. KNOWLEDGE: Students should be able to:

1	Describe the genetic basis and clinical manifestations of the following syndromes, malformations, and associations:	Theme 1: Scientific Foundations of Medicine	1.3
	 i. Common chromosomal abnormalities, (e.g. Trisomy 21, Turner syndrome, Klinefelter syndrome); 		
	ii. Syndromes due to teratogens (e.g. foetal alcohol syndrome);		
	iii. Other common genetic disorders (e.g. cystic fibrosis, sickle cell disease, haemophilia); and		
	 iv. Single malformations with multifactorial aetiology (e.g. spina bifida, congenital heart disease, cleft lip and palate). 		
2	List common medical and metabolic disorders (e.g. hearing loss, hypothyroidism, PKU, hemoglobinopathies) detected through newborn screening programs and other specific tests.	Theme 1: Scientific Foundations of Medicine	1.3
3	Discuss the effects of maternal health and potentially teratogenic agents on the foetus and child, including maternal diabetes and age, alcohol use, illicit drug use, and prescribed medications (e.g. phenytoin, valproate, and retinoic acid).	Theme 1: Scientific Foundations of Medicine	1.3
4	List common prenatal diagnostic assessments (e.g. maternal serum screening, amniocentesis, and ultrasonography) and understand their use.	Theme 1: Scientific Foundations of Medicine	1.3
5	Describe the use of chromosome studies in the diagnosis of genetic disorders.	Theme 1: Scientific Foundations of Medicine	1.3
6	Discuss the role of genetics in common multifactorial conditions (e.g. inflammatory bowel disease, pyloric stenosis, congenital heart disease, cleft lip, diabetes and cancer).	Theme 1: Scientific Foundations of Medicine	1.3
В.	SKILLS : Students should be able to:		
1	Use a family history to construct a pedigree (e.g. for the evaluation of a possible genetic disorder).	Theme 2: Patient & Doctor: Clinical Practice	2.4

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

COMMON ACUTE PAEDIATRIC ILLNESSES

1	List the age appropriate differential diagnosis for paediatric patients presenting with each of the following symptoms. (See Appendix A for differential	Theme 1: Scientific Foundations of Medicine	1.3
	diagnoses.):		
	i. Abdominal pain;		
	ii. Cough and/or wheeze;		
	iii. Diarrhoea;		

	iv. Fever and rash;		
	v. Fever without a source;		
	vi. Headache;		
	vii. Lethargy or irritability;		
	viii. Limp or extremity pain;		
	ix. Otalgia;		
	x. Rash;		
	xi. Rhinorrhoea;		
	xii. Seizures;		
	xiii. Sore throat; and		
	xiv. Vomiting.		
2	List the age appropriate differential diagnosis for	Theme 1: Scientific Foundations of Medicine	1.3
	paediatric patients presenting with each of the		
	following physical findings. (See A ppendix A for		
	differential diagnoses.)		
	i. Abdominal mass;		
	ii. Bruising;		
	iii. Heart murmur;		
	iv. Hepatomegaly;		
	v. Lymphadenopathy;		
	vi. Splenomegaly;		
	vii. Petechiae and/or purpura;		
	viii. Red or wandering eye; and		
	ix. White pupillary reflex.		
3	List the age appropriate differential diagnosis for	Theme 1: Scientific	1.3
	paediatric patients presenting with each of the	Foundations of Medicine	
	following laboratory findings. (See appendix A for		
	differential diagnoses.)		
	i. Anaemia;		
	ii. Haematuria;		
	iii. Proteinuria; and		
	iv. Positive Mantoux skin test (PPD)		
	(especially Aboriginal and Torres Strait		
	Islander peoples and refugees).		
4	Describe the epidemiology, clinical, laboratory, and	Theme 1: Scientific	1.3
	radiographic findings, of each of the core paediatric	Foundations of Medicine	
	level conditions listed for each presenting complaint.		
5	Explain with specific examples how the physical	Theme 1: Scientific	1.3
	manifestations of disease and the evaluation and	Foundations of Medicine	
	management may vary with the age of the patient.		
6	Discuss the characteristics of the patient and the	Theme 1: Scientific	1.3
	illness that must be considered when making the	Foundations of Medicine	
	decision to manage the patient in the hospital or in the		
	outpatient setting.		
7	Describe the epidemiology, clinical, laboratory, and	Theme 1: Scientific	1.3
	radiographic finding for each of the mastery level	Foundations of Medicine	
	conditions listed for each presenting complaint.		
В.	SKILLS: Students should be able to:		
_			
1	Perform an age-appropriate history and physical	Theme 2: Patient & Doctor: Clinical Practice	2.2/ 2.3
	examination pertinent to the presenting complaint of the	Doctor, Chillical Plactice	2.3
	child (see also Clinical Skills).		
2	Generate an age appropriate differential diagnosis	Theme 2: Patient &	2.4/
	and initial diagnostic and therapeutic plan for each	Doctor: Clinical Practice	2.7
	patient presenting with one of the following		
	symptoms, physical examination findings, or		
	laboratory findings (see also Clinical Reasoning).		

Symptoms

- i. Abdominal pain;
- ii. Cough and/or wheeze;
- iii. Diarrhoea;
- iv. Fever and rash;
- v. Fever without a source;
- vi. Headache:
- vii. Lethargy or irritability;
- viii. Limp or extremity pain;
- ix. Otalgia;
- x. Rash;
- xi. Rhinorrhoea;
- xii. Seizures;
- xiii. Sore throat; and
- xiv. Vomiting.

Physical examination findings

- i. Abdominal mass;
- ii. Bruising;
- iii. Heart murmur;
- iv. Hepatomegaly;
- v. Lymphadenopathy;
- vi. Splenomegaly;
- vii. Petechiae and/or purpura;
- viii. Red or wandering eye; and
- ix. White pupillary reflex.

Laboratory tests

- i. Anaemia;
- ii. Haematuria;
- iii. Proteinuria; and
- iv. Positive Mantoux skin test (PPD).

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

COMMON CHRONIC ILLNESS AND DISABILITY

			TI 4.0 : 0:5	4.0
1		e the clinical features of chronic medical	Theme 1: Scientific Foundations of Medicine	1.3
	condition	ons seen in children such as:	r ouridations of Medicine	
	i.	asthma;		
	ii.	atopic dermatitis;		
	iii.	cerebral palsy;		
	iv.	cystic fibrosis;		
	٧.	diabetes mellitus;		
	vi.	epilepsy;		
	vii.	malignancy (e.g. acute lymphocytic leukaemia and		
		Wilms tumour);		
	viii.	obesity;		
	ix.	seasonal allergies;		
	Χ.	sickle cell disease;		
	xi.	HIV/AIDS; and		
	xii.	sensory impairment.		
2	Describ	e how chronic illness can influence a child's growth	Theme 1: Scientific	1.3
	and dev	velopment, educational achievement, and	Foundations of Medicine	
	psycho	social functioning.		
3		be the impact that chronic illness has on the family's	Theme 1: Scientific	1.3
	emotior	nal, economic and psychosocial functioning.	Foundations of Medicine	

4	Describe the impact of a patient's culture on the understanding, reaction to, and management of a chronic illness.	Theme 3: Health & Illness in Society	3.2
5	Describe the contributions of each member of a multidisciplinary health care team in caring for children with a chronic illness.	Theme 4: Professional & Personal Development	4.8
6	Identify the key components of delivering "Bad News" in relation to chronic illness.	Theme 1: Scientific Foundations of Medicine	3.1
7	Explain the management strategies for common chronic illnesses seen in children (e.g. asthma, seasonal allergies, diabetes, and atopic dermatitis).	Theme 1: Scientific Foundations of Medicine	1.2
	diabetes, and atopic dermatitis).		
В.	SKILLS: Students should be able to:		

THERAPEUTICS

1	Describe how to assess whether a drug is excreted in the breastmilk and safe to use by a breast-feeding mother.	Theme 1: Scientific Foundations of Medicine	1.3
2	List medications (e.g. aspirin, tetracycline, and oral retinoic	Theme 1: Scientific	1.3
	acid) that are contraindicated or must be used with	Foundations of Medicine	
	extreme caution in specific paediatric populations.		
3	Describe the appropriate use of the following common	Theme 1: Scientific	1.3
	medications in the outpatient setting, including when it is	Foundations of Medicine	
	NOT appropriate to treat with a medication:		
	i. Analgesics / antipyretics;		
	ii. Antibiotics;		
	iii. Bronchodilators;		
	iv. Corticosteroids;		
	v. Cough and cold preparations;		
	vi. Ophthalmic preparations;		
	vii. Otic preparations; and		
	viii. Vitamin / mineral supplements.		
4	Select generally accepted pharmacologic therapy for	Theme 1: Scientific	1.3
	common or life-threatening conditions in paediatric	Foundations of Medicine	
	patients. These conditions could include:		
	Common conditions seen in ambulatory settings:		
	i. Acne;		
	ii. Acute otitis media;		
	iii. Allergic rhinitis;		
	iv. Asthma;		
	v. Atopic dermatitis;		
	vi. Candida dermatitis;		

- vii. Fever;
- viii. Impetigo; and
- ix. Streptococcal pharyngitis.

Common conditions seen in hospitalised patients

i. Bronchiolitis.

Life threatening conditions

- i. Sepsis/meningitis; and
- ii. Status epilepticus.

5	Describe the ways medication errors are systemically	Theme 1: Scientific	1.6
	prevented.	Foundations of Medicine	

B. SKILLS: Student should be able to demonstrate specific skills, including:

1	Use of databases such as AMH, MIMS.	Theme 2: Patient & Doctor: Clinical Practice	
2	Calculate a drug dose for a child based on body weight.	Theme 2: Patient & Doctor: Clinical Practice	2.6
3	Write a prescription (e.g. for a common medication such as an antibiotic).	Theme 2: Patient & Doctor: Clinical Practice	2.11
4	Negotiate a therapeutic plan with the patient and family to maximise adherence with the agreed upon treatment regimens and assess the family's understanding of the plan.	Theme 2: Patient & Doctor: Clinical Practice	2.9

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

FLUID AND ELECTROLYTE MANAGEMENT

A. **KNOWLEDGE:** Students should be able to:

1	Describe the conditions in which fluid administration may need to be restricted (e.g. the syndrome of inappropriate ADH secretion, congestive heart failure, or renal failure) or increased (e.g. fever).	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe the physical findings in hypovolemic shock, interpretation of vital signs and the approach to restoration of circulating fluid volume (i.e. "rescue" fluid infusion).	Theme 1: Scientific Foundations of Medicine	1.3
3	Describe the causes and consequences of fluid imbalances and electrolyte disturbances leading to dehydration and other conditions (e.g. hypernatremia, hyponatremia, hyporatremia, hyporatremia, and severe acidosis).	Theme 1: Scientific Foundations of Medicine	1.3

B. SKILLS: Students should be able to:

1	Obtain historical and physical finding information	Theme 2: Patient &	2.2/
-	necessary to assess the hydration status of a child.	Doctor: Clinical Practice	2.3
2	Calculate and write orders for intravenous maintenance	Theme 2: Patient &	2.11
	fluids for a child considering daily water and electrolyte	Doctor: Clinical Practice	
	requirements.		
3	Calculate and write orders for the fluid therapy for a child	Theme 2: Patient &	2.11
	with severe dehydration caused by gastroenteritis to	Doctor: Clinical Practice	
	include "rescue" fluid to replenish circulating volume,		
	deficit fluid, and ongoing maintenance.		
4	Explain to parents how to use oral rehydration therapy	Theme 2: Patient &	2.9
	for mild to moderate dehydration.	Doctor: Clinical Practice	

POISIONING

A. KNOWLEDGE: Students should be able to:

intentional chemical (e.g. cholinergic) or biologic agents. Foundations of Medicine SKILLS: Students should be able to: Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). Theme 2: Patient & Doctor: Clinical Practice				
intentional poisonings is highest, and the passive and active interventions that decrease the incidence of childhood ingestions (e.g. locks or safety caps). 3 Describe the emotions of guilt and anxiety that may be present in the parent, caregiver or child at the time of ingestion. 4 Describe the acute signs and symptoms of accidental or intentional ingestion of acetaminophen, iron, alcohol, narcotics PCP, tricyclic antidepressants, volatile hydrocarbons, and caustics. 5 Describe the immediate emergency management of children with toxic ingestions (e.g. acetaminophen, iron, hydrocarbons, and strong alkali). 6 Describe the role of the Poisons Information Centre and other information resources in the management of the patient with an accidental or intentional ingestion. 7 Describe the agents and acute signs and symptoms of intentional chemical (e.g. cholinergic) or biologic agents. B. SKILLS: Students should be able to: 1 Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). 2 Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	1	accidental ingestions in infants, toddlers, children, and		1.3
present in the parent, caregiver or child at the time of ingestion. Describe the acute signs and symptoms of accidental or intentional ingestion of acetaminophen, iron, alcohol, narcotics PCP, tricyclic antidepressants, volatile hydrocarbons, and caustics. Describe the immediate emergency management of children with toxic ingestions (e.g. acetaminophen, iron, hydrocarbons, and strong alkali). Describe the role of the Poisons Information Centre and other information resources in the management of the patient with an accidental or intentional ingestion. Describe the agents and acute signs and symptoms of intentional chemical (e.g. cholinergic) or biologic agents. B. SKILLS: Students should be able to: Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	2	intentional poisonings is highest, and the passive and active interventions that decrease the incidence of		1.3
intentional ingestion of acetaminophen, iron, alcohol, narcotics PCP, tricyclic antidepressants, volatile hydrocarbons, and caustics. Describe the immediate emergency management of children with toxic ingestions (e.g. acetaminophen, iron, hydrocarbons, and strong alkali). Describe the role of the Poisons Information Centre and other information resources in the management of the patient with an accidental or intentional ingestion. Describe the agents and acute signs and symptoms of intentional chemical (e.g. cholinergic) or biologic agents. B. SKILLS: Students should be able to: Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and Foundations of Medicine Theme 1: Scientific Foundations of Medicine 1.3 Theme 1: Scientific Foundations of Medicine Theme 1: Scientific Foundations of Medicine 1.3 Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient & Doctor: Clinical Practice Theme 2: Patient & Doctor: Clinical Practice	3	present in the parent, caregiver or child at the time of ingestion.	Foundations of Medicine	1.3
children with toxic ingestions (e.g. acetaminophen, iron, hydrocarbons, and strong alkali). Describe the role of the Poisons Information Centre and other information resources in the management of the patient with an accidental or intentional ingestion. Describe the agents and acute signs and symptoms of intentional chemical (e.g. cholinergic) or biologic agents. B. SKILLS: Students should be able to: Theme 1: Scientific Foundations of Medicine Theme 2: Patient & Doctor: Clinical Practice Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and general preventive measures in the household). Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	4	intentional ingestion of acetaminophen, iron, alcohol, narcotics PCP, tricyclic antidepressants, volatile		
Describe the role of the Poisons Information Centre and other information resources in the management of the patient with an accidental or intentional ingestion. Describe the agents and acute signs and symptoms of intentional chemical (e.g. cholinergic) or biologic agents. Theme 1: Scientific Foundations of Medicine 1.3 SKILLS: Students should be able to: Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and general preventive measures in the household). Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	5	children with toxic ingestions (e.g. acetaminophen, iron,		1.3
intentional chemical (e.g. cholinergic) or biologic agents. B. SKILLS: Students should be able to: 1 Provide anticipatory guidance regarding home safety and appropriate techniques to prevent accidental ingestions (see also Prevention). 2 Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and general preventive measures in the household). 3 Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	6	Describe the role of the Poisons Information Centre and other information resources in the management of the		1.3
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appropriate techniques to prevent accidental ingestions (see also Prevention). 2 Elicit a complete history when evaluating an unintentional ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and general preventive measures in the household). 3 Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	B.	SKILLS: Students should be able to:		
ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and general preventive measures in the household). 3 Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	1	appropriate techniques to prevent accidental ingestions		2.9
ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and	2	ingestion or exposure to a toxic substance (including the substance, the route of exposure, the quantity, timing, and	Doctor: Clinical Practice	2.2
	3	Elicit a complete history surrounding the intentional ingestion of a toxic substance (including the substance, route of exposure, amount, timing, antecedent events, and		2.2

C. PROFESSIONAL BEHAVIOURS: None specified for this topic.

PAEDIATRIC EMERGENCIES

1	List the symptoms of and describe the initial emergency management of shock, respiratory distress, lethargy, apnoea, and status epilepticus in paediatric patients.	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe the age-appropriate differential diagnosis and the key clinical findings that would suggest a diagnosis for each of the emergent clinical problems in the table below.	Theme 1: Scientific Foundations of Medicine	1.3

3 Describe the clinical findings for each of the diagnosis to consider in the table below:

Table 1 – Paediatric Emergencies Table

Emergent Clinical Problem	Diagnoses to Consider (Core paediatric level)	Diagnoses to Consider (Advanced paediatric level)
Airway Obstruction / Respiratory distress	Croup, bronchiolitis, asthma, pneumonia, foreign body aspiration, anaphylaxis.	Peritonsillar or retropharyngeal abscesses.
Altered mental status (Delirium/lethargy)	Head injury, increased ICP, substance abuse, infection (encephalitis, meningitis), diabetic ketoacidosis, hypoglycaemia, abuse, shock, hypoxemia.	Intussusception.
Apnea	Acute life-threatening event (ALTE), Brief Resolved Unexplained Episode (BRUE), seizures, and respiratory infections (RSV and pertussis), GERD, sepsis.	Cardiac dysrhythmias, breath holding spells.
Ataxia		Ingestion, infection, and tumour.
Gastrointestinal bleeding	Meckel's diverticulum, fissure, intussusception.	Inflammatory bowel disease, allergic colitis, peptic ulcer disease.
Injuries and accidents	Animal bites, minor head injury, pulled elbow.	Sprains and fractures, burns, near drowning, lacerations.
Proptosis		Tumour and orbital cellulitis.
Seizures	Infection (i.e. meningitis or encephalitis), status epilepticus, febrile, ingestion, hypoxemia, shock, electrolyte disturbances.	Tumour.
Shock	Sepsis, severe dehydration, diabetic ketoacidoses, anaphylaxis, congestive heart failure and ingestion.	Burns, neurogenic shock, ductal dependent heart lesions, and adrenal insufficiency.
Suicidal Ideation	Depression.	

B. SKILLS: Students should be able to:

1 Demonstrate the appropriate anticipatory guidance to prevent life-threatening conditions (e.g. infant positioning for sudden infant death syndrome (SIDS), locks to prevent poisoning, and the use of car seats and bicycle helmets)

Theme 3: Health & Illness in Society

3.5

	(see also Prevention).		
2	Demonstrate the "ABC" assessment as a means for identifying who requires immediate medical attention and intervention.	Theme 2: Patient & Doctor: Clinical Practice	2.12

CHILD ABUSE

A. KNOWLEDGE: Students should be able to:

1	List characteristics of the history and physical examination that should trigger concern for possible physical, sexual, and psychological abuse and neglect (e.g. inconsistency in the history, unexplained delays in seeking care, injuries with specific patterns or distributions on the body, or injuries incompatible with the child's development).	Theme 1: Scientific Foundations of Medicine	1.3
2	Describe the medical-legal importance of a full, detailed, carefully documented history and physical examination in the evaluation of child abuse.	Theme 4: Professional & Personal Development	4.10
3	Discuss the concurrence of domestic violence and child abuse and describe markers that suggest the occurrence of family violence.	Theme 1: Scientific Foundations of Medicine	1.3
4	Describe the unique communication skills required to work with families around issues of maltreatment.	Theme 1: Scientific Foundations of Medicine	1.3
5	Summarise the responsibilities of the "mandatory reporter" to identify and report suspected child abuse. Know to whom such a report should be made.	Theme 4: Professional & Personal Development	4.10

- **B. SKILLS:** None specified for this topic.
- C. PROFESSIONAL BEHAVIOUR: None specified for this topic.

CHILD ADVOCACY

1	Describe barriers that prevent children from gaining access to health care, including financial, cultural and geographic barriers.	Theme 1: Scientific Foundations of Medicine	1.3
2	Identify opportunities for advocacy during a health supervision visit.	Theme 3: Health & Illness in Society	3.3
3	Describe critical components of partnering with the community members to promote child health.	Theme 3: Health & Illness in Society	3.5
4	Describe the types of problems that benefit more from a community approach rather than an individual approach.	Theme 3: Health & Illness in Society	3.5
5	Identify a specific paediatric healthcare issue and outline a potential approach to advocacy.	Theme 3: Health & Illness in Society	3.5

- **B. SKILLS:** None specified for this topic.
- C. PROFESSIONAL BEHAVIOUR: None specified for this topic.

RANGE OF PAEDIATRIC PATIENTS TO BE SEEN BY STUDENTS

All students should see a range of paediatric patients including:

- An infant, toddler, school aged, and adolescent child for a health care supervision visit.
- Patient/s with real or possible (e.g. parental concern) issues related to growth. patient/s with real or possible (e.g. parental concerns) issues related to development.
- Patient/s with an individual or parental concern over a specified behaviour or group of behaviours.
- Patient/s with self or parental concerns or questions about appropriate nutrition.
- · Adolescent patient/s.
- One or more newborns and a newborn with jaundice.
- Patient/s with the following system/symptom based complaints:
 - i. Upper respiratory tract complaint;
 - ii. Lower respiratory tract complaint;
 - iii. Gastrointestinal tract complaint;
 - iv. Skin or mucous membrane complaint;
 - v. Central nervous system complaint; and
 - vi. Fever without localising findings.
- Patient/s with respiratory distress (real/simulated).
- Patient/s with a chronic condition

APPENDIX A: COMMON PAEDIATRIC ILLNESS TABLE

The table lists the suggested differential diagnosis for each presenting symptom, finding, or laboratory value.

Presenting symptom, finding, or laboratory value	Differential diagnoses students are required to know
Cough and/or wheeze	Asthma
	Bronchiolitis
	Community acquired pneumonia
	Croup
	Viral upper respiratory tract infection
Fever without a	Bacteremia/sepsis
focus	Meningitis
	Occult bacteremia
	Urinary tract infection
	Viral illnesses
Sore Throat	Group a streptococcal pharyngitis
	Mononucleosis
	Postnasal drip
	Viral upper respiratory tract infection
Otalgia	Otitis media, Acute and Recurrent
	Otitis media with effusion
	Otitis externa
Rhinorrhoea	Allergic rhinitis
	Sinusitis
	Viral URI
Fever and rash	Group A streptococcal infection
	Kawasaki disease
	Meningococcemia
	Viral exanthem
Abdominal pain	Appendicitis
	Constipation/encopresis
	Gastroenteritis
	HSP
	Intussusception
	Pelvic inflammatory disease
	Urinary tract infection/pyelonephritis
Diarrhoea	Gastroenteritis
Vomiting	Gastroenteritis
	Gastroesophageal reflux
	Pyloric stenosis
	UTI/pyelonephritis
Rash	Atopic dermatitis
	Contact dermatitis

Presenting symptom, finding, or laboratory value	Differential diagnoses students are required to know
	Cellulitis
	Impetigo
	lice
	Monilial infections
	Scabies
	Seborrhea
	Urticaria
	Viral enanthem
	Viral exanthem
	Meningococcal infections
	Side effects of drugs
Limp or extremity	Developmental dysplasia of the hip
pain	Fracture
	Legg-Calve-Perthes disease
	Pulled elbow
	Osgood Schlatter disease
	Osteomyelitis
	Septic arthritis
	Slipped capital femoral epiphysis
	Transient synovitis
Headache	Meningitis
	Tension headache
Seizures	Febrile and afebrile seizures
00.20100	Epilepsy
Bruising	Trauma
Petechiae/purpura	ITP
r otoomao, par para	Sepsis
	Trauma
	Vasculitis
	Viral infections
Heart murmur	Innocent murmur vs. pathological
Lymphadenopathy	Bacterial adenitis
Lymphadonopathy	Streptococcal pharyngitis
	Viral illnesses (general or specific such as EBV)
Splenomegaly	Malignancy (e.g. leukemia), heamatological conditions
Hepatomegaly	Hepatitis, congestive heart failure, haematological and
	storage conditions, chronic liver diseases
Abdominal mass	Hydronephrosis
	Malignancy
	Pregnancy
	Stool
White pupillary	Cataracts
reflex	Retinoblastoma

Presenting symptom, finding, or laboratory value	Differential diagnoses students are required to know
Red eye	Conjunctivitis
Wandering eye	Ambylopia
Anemia	Iron deficiency anemia, Vitamin B12 deficiency
	Sickle cell anemia
	Thalassemia
Hematuria	Glomerulonephritis
	Trauma
	UTI
Proteinuria	Nephrotic syndrome
	Orthostatic proteinuria
Positive Mantoux	Latent tuberculosis
skin test	Active tuberculosis

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