

# PEDIATRIC ROADMAP

## Curricular Goals

Pediatrics is represented throughout all four years of the undergraduate medical school curriculum. In the first two Pre-Clerkship years, Pediatric knowledge is interspersed in the organ system teaching often with specific lectures that relay the Pediatric specific information.

Within the two-year Pre-clerkship curriculum is also a more hands on teaching where students do interact with Pediatric patients and their families. This is done in the Clinical Skills courses with a Pediatric Discipline Specific Performance Encounters (DSPE).

All third-year medical students during their clerkship year have a 6-week Pediatric Clinical Rotation.

In the fourth year there is elective rotations so students that are interested can further their knowledge if interested by pursuing Pediatric specific electives.

## Summary

Pediatric objectives in year 1 to 2 are specific to each organ system. This forms the backbone of Pediatric knowledge that students get in their Pre-clerkship years. Along with the backbone of knowledge is the chance to interact and examine patients within the Pediatric age group that occurs in the Clinical skills courses in year 1 and 2.

Year 3 is a chance to add complexity as students transition to their clerkship years with the goal of achieving exit competencies. The third year 6 week Clinical Rotation in Pediatrics is a culmination of the background knowledge that was formed in the first 2 years of the curriculum and a chance to apply it in actual patients. This is supplemented with a review of common medical topics as well as with clerkship seminars during their rotation.

Year 4 serves as a chance to pursue further knowledge in Pediatrics if it is desired through electives.

## YEAR ONE

Course Name	Pediatric Content
<b>MEDC 112.3 Medicine and Society I</b>	<ol style="list-style-type: none"> <li>1. Community Experience: how CanMEDs roles contribute to well-being and health of patients, families, communities, and populations</li> <li>2. Cultural Safety and Competence: cultural awareness, sensitivity, and safety as it relates to patient, family and community centered care. Scenario: Indigenous</li> </ol>

	<ol style="list-style-type: none"> <li>3. Human Life Course: how humans change physically and developmentally through childhood to aging</li> <li>4. Human Life Course: social-emotional/affective changes through life</li> <li>5. Human Life Course: how historical, social, economic, and cultural backgrounds affect families and health</li> <li>6. Indigenous people: Residential school experience</li> <li>7. Indigenous people: Indigenous child welfare</li> </ol>
<p><b>MEDC 136.21 Foundations of Clinical Medicine I:</b></p>	<ol style="list-style-type: none"> <li>1. Normal human development</li> <li>2. Human nutrition (Diet &amp; Health Micronutrients)</li> <li>3. Principles of genetics to the diagnosis and management of common genetic disorders and an approach to genetic counselling</li> <li>4. Immunology</li> <li>5. Embryology</li>   <li>6. Genetics</li>   <li>7. Infectious Disease prevention- Vaccine schedules</li>   <li>8. Health Promotion and Illness Prevention (Ages &amp; Stages, Maltreatment Awareness in Children and Adults, Nutritional Needs of Infants, Children and Adolescents, Anticipatory Health Care in Infant/Childhood/Adolescence Stages, Emotional Health and Cultural Connection, Healthy Sleep, Physical Activity, Dental Health)</li>   <li>9. Hematology <ul style="list-style-type: none"> <li>- Acquired and Inherited Bleeding Disorders</li> <li>- Approach to Acute Leukemias</li> <li>- Hemoglobinopathies</li> <li>- Hemolytic Anemias</li> <li>- Iron Deficiency Anemia</li> </ul> </li> </ol>
	<p>Endocrine</p> <ul style="list-style-type: none"> <li>- Clinical Obesity</li> <li>- Diabetes Specific Populations</li> <li>- Pediatric Growth and Puberty</li> <li>- Transgender Medicine and Male Hormone Replacement</li> </ul>

<b>MEDC 122.3 Medicine and Society II</b>	<ol style="list-style-type: none"> <li>1. Health Equity and Social Determinants of Health</li> <li>2. Environmental Health: Immunization</li> <li>3. Experiences in the Community: how CanMEDs roles contribute to well-being and health of patients, families, communities, and populations</li> <li>4. Health Promotion</li> <li>5. Orientation to Public Health, Prevention, and Screening</li> <li>6. Patient and Family Centered Care (PFCC)</li> </ol>
<b>MEDC 146.21 Foundations in Clinical Medicine II</b>	<p>Gastrointestinal</p> <ul style="list-style-type: none"> <li>- Embryology of the GI tract</li> <li>- Approach to Acute Diarrhea</li> <li>- Approach to Neonatal Jaundice</li> <li>- Approach to Pediatric Abdominal Pain/Constipation</li> <li>- Congenital GI Disorders</li> </ul> <p>Hereditary Liver Disease</p>
	<p>Respiratory</p> <ul style="list-style-type: none"> <li>- Asthma</li> <li>- Newborn Respiratory Illness</li> <li>- Pediatric Cough and Wheeze</li> <li>- Pediatric Head and Neck infections: Otitis Media/Externa, Pharyngitis, Sinusitis, Cleft Lip and Palate</li> <li>- Pediatric Upper Airway Problems: Croup, Tracheitis, RPA, Epiglottitis, Foreign Body, Anaphylaxis</li> <li>- Sleep Disordered Breathing (Children)</li> <li>- Embryology- Lung Development</li> <li>- Pediatric Respiratory Cases</li> <li>- Pediatric Stridor Cases</li> </ul>

	<p>Cardiovascular</p> <ul style="list-style-type: none"> <li>- Clinical Approach to Pediatric Congenital Heart Disease</li> <li>- Embryology</li> <li>- General Approach to Murmurs</li> <li>- Genetics/Epigenetics</li> <li>- Pediatric Heart Failure</li> </ul>
	<p>Dermatology</p> <ul style="list-style-type: none"> <li>- Pediatric Dermatology</li> <li>- Drug Reactions/Reaction Patterns</li> <li>- Skin Manifestations of Internal Disease</li> </ul>
<b>MEDC 123.8 Clinical Skills II</b>	<p>Discipline Specific Patient Encounters: Pediatrics</p> <ul style="list-style-type: none"> <li>- Pediatrics Interviewing and Physical Exam</li> <li>- Pediatrics Parent Interactive Session</li> <li>- DSPE Introduction to the Peds History and Physical Exam</li> <li>- DSPE GI/ENT</li> <li>- DSPE CV/Resp</li> </ul>
<b>YEAR TWO</b>	
<b>Foundations of Clinical Medicine III</b>	<p>MSK/Orthopedics</p> <ul style="list-style-type: none"> <li>- Diagnosis and Treatment of Infections of Bones and Joints</li> <li>- Pediatric Foot Disorders</li> <li>- Pediatric Hip Disorders</li> <li>- Pediatric Orthopedic Trauma</li> <li>- Lower Extremity Concerns in Children and Pediatric Normal Variants</li> <li>- Pediatric Rheumatology</li> <li>- Pediatric Spine Disorders</li> </ul>

	<p>Neurology</p> <ul style="list-style-type: none"> <li>- Introduction to Pediatric Neurology</li> <li>- Cerebral Palsy and Hypotonia</li> <li>- Neuroinfections and Cases</li> <li>- Pediatric Headache</li> <li>- Pediatric Neurocutaneous Disorders</li> <li>- Pediatric Epilepsy</li> <li>- Congenital Brain Anomalies</li> <li>- Hydrocephaly</li> <li>- Pediatric Neurology Cases</li> <li>- Ophthalmology <ul style="list-style-type: none"> <li>o Cataracts</li> <li>o Strabismus and Neuro-Ophthalmology</li> </ul> </li> </ul>
	<p>Mental Health</p> <ul style="list-style-type: none"> <li>- Eating Disorders</li> <li>- Neurodevelopmental Disorders I/II</li> <li>- Normal Psychosocial Development</li> </ul>
<b>MEDC 213.8 Clinical Skills III</b>	<p>DSPE Pediatrics</p> <ul style="list-style-type: none"> <li>- Review Pediatrics History and Physical Exam</li> <li>- Pediatrics Parent Interactive Session</li> <li>- DSPE Pediatric Development</li> <li>- DSPE Pediatric Neurology</li> </ul>
<b>Foundations in Clinical Medicine IV</b>	<p>Nephrology</p> <ul style="list-style-type: none"> <li>- Genitourinary and Renal Embryology</li> <li>- Pediatric Nephrology <ul style="list-style-type: none"> <li>o BP/Hypertension</li> <li>o Acute and chronic renal insufficiency</li> <li>o Proteinuria/Hematuria</li> </ul> </li> <li>- Pediatric Urology <ul style="list-style-type: none"> <li>o Antenatal hydronephrosis</li> <li>o Bladder and Bowel Control</li> <li>o Enuresis</li> <li>o UTI</li> <li>o Vesicoureteric Reflux</li> <li>o Circumcision</li> <li>o Testicular Descent</li> <li>o Cryptorchidism</li> </ul> </li> <li>- Pediatric Urology cases</li> </ul>

	Reproductive Health <ul style="list-style-type: none"> <li>- Fetal Growth Restriction</li> <li>- Perinatal Infection and Alloimmunization</li> <li>- Pediatric Gynecology (Normal and Abnormal)</li> <li>- Perinatal Loss and Palliative Care</li> </ul>
	<ul style="list-style-type: none"> <li>- Physiology of Pregnancy, Teratology</li> <li>- Breastfeeding</li> <li>- Prenatal Diagnosis and Antepartum Surveillance and Cases</li> <li>- Puberty (Normal and Abnormal)</li> <li>- Sexual Health and Diversity</li> </ul>
	Multisystem and Complex Care <ul style="list-style-type: none"> <li>- Failure to thrive</li> <li>- Complex care of children and youth</li> </ul>
MEDC 223.8 Clinical Skills IV	DSPE Pediatrics <ul style="list-style-type: none"> <li>- DSPE Pediatric Newborn Exam</li> </ul>
<b>YEAR THREE</b>	
<b>MEDC 307.50 Pediatric Clinical Rotation</b>	6 weeks 3 weeks inpatient 3 weeks outpatient Clerkship Seminars <ul style="list-style-type: none"> <li>- Neonatal Issues</li> <li>- Respiratory Distress</li> <li>- Pediatric Dermatology</li> <li>- Fever/Infection/Immunizations</li> <li>- Endocrine</li> <li>- Common Pediatric Issues</li> <li>- Pediatric Emergencies</li> <li>- Development</li> <li>- Genetics/Metabolics</li> </ul> Emergency Department Teaching Saskatoon: SIM/Case Based Teaching Regina NICU Teaching

<b>MEDC 308.16 Selected Topics in Medicine</b>	<ul style="list-style-type: none"> <li>- Abdominal Pain in Children</li> <li>- Abnormal Stature</li> <li>- Child Abuse</li> <li>- Developmental Delay</li> <li>- Eating Disorders</li> <li>- Hypotonic Infant</li> <li>- Immigrant/Refugee Health</li> <li>- Immunization</li> <li>- Intrauterine Growth Restriction (IUGR)</li> <li>- Measles</li> <li>- Neonatal Distress</li> <li>- Neonatal Jaundice</li> <li>- Newborn Assessment</li> <li>- Oral Conditions</li> <li>- Pediatric Constipation</li> <li>- Pediatric Urinary Incontinence/Enuresis</li> <li>- Periodic Health Exam</li> </ul>
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	<ul style="list-style-type: none"> <li>- Prematurity</li> <li>- Puberty (including Amenorrhea)</li> <li>- Red Eye</li> <li>- Scrotal Pain</li> <li>- SIDS</li> <li>- Strabismus/Amblyopia</li> <li>- Viral Exanthem skin rash</li> </ul>
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<b>YEAR FOUR</b>	
<b>MEDC 407.34 Electives</b>	Elective Clinical Rotations: Pediatrics





