

COLLEGE OF MEDICINE

University of Saskatchewan

**EDUCATIONAL OBJECTIVES POSTGRADUATE YEAR- I
MEDICAL IMAGING**

Revised Feb 2009

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In the PGY-1 year

- Anatomic Pathology
- Elective
- Emergency
- Medical Imaging
- Medicine & Neurology
- Medicine Elective
- Obstetrics
- Pediatric & NICU
- Surgery
 - General/Neurosurgery
 - Elective

Part I

Rotation Schedule

Anatomic Pathology	4 weeks
General Elective	4 weeks
Emergency	4 weeks
Medical Imaging	4 weeks (generally 1st rotation)
Medicine	12 weeks
General – 4 weeks	
Elective – 4 weeks	
Neurology – 4 weeks	
Obstetrics/Gynecology	4 weeks
Pediatrics	8 weeks
Surgery	12 weeks
General - 4 weeks	
Surgery Elective or Anatomy - 4 weeks	
Neurosurgery – 4 weeks	

Four weeks of holidays are taken during the year with the assistance of the PGY-1 coordinators in Regina and Saskatoon.

Preamble

This clinical, postgraduate year has two overriding broad objectives that should be kept in mind. First, to provide the opportunity to experience clinical medicine and broaden your medical background.

Second, to gain a better understanding of the relevance of diagnostic imaging for a variety of medical disciplines and therefore, provide appropriate imaging during your career as a radiologist. This must be integrated in a graded fashion with the Royal College of Physicians and Surgeons Objectives of Training and Specialty Training Requirements in Diagnostic Radiology.

You are encouraged to remember that you will be a future radiologist. Therefore, seek knowledge and information from each rotation that is relevant to your future. You should strive to review all diagnostic imaging for your patients and understand the rationale behind acquiring imaging for your patients. You are encouraged to make use of the personnel and facilities of the Medical Imaging Departments during your clinical year. Inform the Radiologists of your presence, your interest in Radiology rounds and your interest in Radiology procedures. However, please remember that the duties and responsibilities of your other PGY-1 rotations take precedence over the activities in the Medical Imaging Department.

OBJECTIVES OF TRAINING AND SPECIALTY TRAINING REQUIREMENTS IN DIAGNOSTIC RADIOLOGY

GENERAL OBJECTIVES

On completion of the 5-year educational program, the graduate physician will be competent to function as a consultant in Diagnostic Radiology. This requires the physician to have the ability to supervise, advise on, and perform imaging procedures to such a level of competence, and across a broad range of medical practice, as to function as a consultant to referring family physicians and specialists.

Communication skills, knowledge, and technical skills are the three pillars on which a radiological career is built, and all are dependent on the acquisition of an attitude to the practice of medicine which recognizes both the need to establish a habit of continuous learning and a recognition of the importance of promoting a team approach to the provision of imaging services.

Residents must demonstrate the knowledge, skills and attitudes relating to gender, culture and ethnicity pertinent to Diagnostic Radiology. In addition, all residents must demonstrate an ability to incorporate gender, cultural and ethnic perspectives in research methodology, data presentation and analysis.

These general and specific objectives are required at the end of the five-year program for the resident to function as a Consultant Radiologist. The Specific Educational Guidelines for Rotations in the PGY-1 year are listed in Part 2.

SPECIFIC OBJECTIVES

At the completion of training, the resident will have acquired the following competencies and will function effectively as:

Medical Expert/Clinical Decision-maker

General Requirements:

- Demonstrate diagnostic and therapeutic skills for ethical and effective patient care.
- Access and apply relevant information to clinical practice so as to have competence in clinical radiological skills.
- Demonstrate effective consultation services with respect to patient care, education and legal opinions.

Specific Requirements:

- Understand the nature of formation of all types of radiological images, including physical and technical aspects, patient positioning, contrast media.
- Knowledge of the theoretical, practical and legal aspects of radiation protection, including other imaging techniques and their possible harmful effects.
- Knowledge of human anatomy at all ages, both conventional and multiplanar, with emphasis on radiological applications.
- Knowledge of all aspects of clinical radiology, including understanding of disease, appropriate application of imaging to patients, importance of informed consent, complications such as contrast media reactions, and factors affecting interpretation and differential diagnosis.
- Understand the fundamentals of quality assurance in radiology.
- Understand the fundamentals of epidemiology, biostatistics and decision analysis.
- Show competence in manual and procedural skills and in diagnostic and interpretive skills.
- Demonstrate the ability to manage the patient independently during a procedure, in close association with a specialist or other physician who has referred the patient. The radiologist should know when the patient's best interests are served by discontinuing a procedure, or referring the patient to another physician.
- Understand the acceptable and expected results of investigations and/or interventional therapy as well as unacceptable and unexpected results. This must include knowledge of and ability to manage radiological complications effectively.
- Understand the appropriate follow-up care of patients who have received investigations and/or interventional therapy.
- Show understanding of a sound and systematic style of reporting.
- Competence in effective consultation, conduct of clinico-radiological conferences, and the ability to present scholarly material and lead case discussions.

Communicator

General Requirements:

- Establish appropriate therapeutic relationships with patients/families.
- Listen effectively.
- Obtain the appropriate information during consultation with referring physicians in order to be able to make recommendations regarding the most appropriate testing and/or management of patients.
- Discuss appropriate information with patients/families and the health care team, and be able to obtain informed consent for tests and procedures when this is needed.

Specific Requirements:

- Have the ability to produce a radiologic report which will describe the imaging findings, most likely differential diagnoses, and, when indicated, recommend further testing and/or management.
- Understand the importance of communication with referring physicians, including an understanding of when the results of an investigation or procedure should be urgently communicated.
- Communicate effectively with patients and their families and have a compassionate interest in them.
- Recognize the physical and psychological needs of the patient and their families undergoing radiological investigations and/or treatment, including the needs of culture, race and gender.

Collaborator**General Requirements:**

- Consult effectively with other physicians and health care professionals.
- Consult effectively to other interdisciplinary team activities.

Specific Requirements:

- Have the ability to function as a member of a multi-disciplinary health care team in the optimal practice of radiology.

Manager**General Requirements:**

- Utilize resources effectively to balance patient care, learning needs, and other activities.
- Allocate finite health care resources wisely.
- Work effectively and efficiently in a health care organization.
- Utilize information technology to optimize patient care, life-long learning and other activities.

Specific Requirements:

- Be competent in conducting or supervising quality assurance including an understanding of safety issues and economic considerations.
- Be competent in computer science as it pertains to the practice of radiology.

Health Advocate

General Requirements:

- Identify the important determinants of health affecting patients.
- Contribute effectively to improve the health of patients and communities.
- Recognize and respond to those issues where advocacy is appropriate.

Specific Requirements:

- Understand and communicate the benefits and risks of radiological investigation and treatment including population screening.
- Recognize when radiological investigations or treatment would be detrimental to the health of a patient.
- Educate and advise on the use and misuse of radiological imaging.

Scholar

General Requirements:

- Develop, implement and monitor a personal continuing education strategy.
- Critically appraise sources of medical information.
- Facilitate learning of patients, house staff/students and other health professionals.
- Contribute to development of new knowledge.

Specific Requirements:

- Competence in evaluation of the medical literature.
- The ability to be an effective teacher of radiology to medical students, residents, technologists, and clinical colleagues.
- The ability to conduct a radiology research project, which may include quality assurance.
- Appreciation of the important role that basic and clinical research plays in the critical analysis of current scientific developments related to radiology.

Professional

General Requirements:

- Deliver highest quality care with integrity, honesty and compassion.
- Exhibit appropriate personal and interpersonal behaviours.
- Practice medicine ethically consistent with the obligations of a physician respecting the needs of culture, race and gender.

Specific Requirements:

- Be able to accurately assess one's own performance, strengths and weaknesses.
- Understand the ethical and medical-legal requirements of radiologists.

Development of Clinical Skills

The PGY-1 year should provide the opportunity to develop your patient interviewing and assessment skills. Further enhancement of your communication skills will be beneficial for your future in Medical Imaging. You should strive to order the most appropriate laboratory and imaging studies and learn to interpret the results of these investigations in order to facilitate patient treatment. While on any clinical rotation keep the following in mind.

1. Physician-Patient Relationship

- Demonstrate an ability to communicate effectively with patients and their families and show a compassionate interest in the patient as a person.
- Demonstrate a capacity to work quickly, efficiently and have the ability to vary the pattern of their clinical assessment according to the significance and urgency of the patient's problem.

2. Team Relationships

- Demonstrate an ability to establish and maintain effective working relationships with colleagues and other health professionals.

3. Self-Assessment

- Demonstrate an awareness of the limitation of their capabilities and an ability to function adequately within the limits of their competence.
- Demonstrate a sense of reliability and responsibility as defined by their professional responsibilities.

4. Biomedical Ethics

- Demonstrate an understanding of the principles of:
 - informed consent:
 - right of competent patients to refuse treatment
 - implied consent

Preparation for Part II of the MCCQE

You must familiarize yourself with the goals and objectives distributed by the Medical Council of Canada in preparation for the second part of MCCQE.

Part II

SPECIFIC EDUCATIONAL GUIDELINES FOR ROTATIONS IN THE PGY-1 YEAR.

ANATOMIC PATHOLOGY

This four-week rotation is structured to allow attendance in the Pathology Department.

Duties in the Pathology Department should be restricted to Anatomic Pathology. Activities should maximize experience in postmortems, brain cutting, cytology, and surgical pathology (frozen sections, gross specimens, surgical histopathology). Attempts should be made to obtain clinical-radiologic-pathologic correlation.

Goals and Objectives: Pathology Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Pathology for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
2. Accurately convey relevant information and explanations.
3. Develop a common understanding on issues, problems and plans with other professionals to develop a shared plan of care.
4. Convey effective oral and written information.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

ELECTIVE

This 4-week rotation will allow you to gain experience in a field of medicine you are interested in.

Goals and Objectives will be as per the general outline unless more specific goals and objectives apply.

EMERGENCY MEDICINE

1. Assessment Skills

- The resident should be able to obtain a medical history and complete a physical examination being both thorough and efficient.
- The resident should be able to demonstrate efficient and rational use of health care resources in the investigation of complaints
- The resident should be able to accurately determine conditions of a life-threatening nature requiring rapid and intensive investigation and treatment

2. Core Problems

For the following core problems the resident shall demonstrate the ability to make a differential diagnosis, initiate investigations and commence treatment.

- Abdominal pain
- Back pain
- Chest pain
- Confusion
- Dizziness
- Fever
- GI bleeding
- Hemoptysis
- Nausea and Vomiting
- Shortness of breath
- Sore throat
- Weakness

3. Core Procedures

The resident should have knowledge of/be able to perform the following:

- CPR
- Code situation management

- Multisystem and specific anatomic trauma management
- Poisoning and ingestion
- Suturing/lacerations/abrasions

Goals and Objectives: Emergency Medicine Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in structure with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Emergency Medicine for any junior resident on this rotation.

Medical Expert:

1. Function effectively as a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of clinical procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

MEDICAL IMAGING

This one-month rotation will be early in the year to provide an introduction to Medical Imaging. The experience will be organized at the appropriate institution, and will include a broad exposure to plain films, general procedures, CT, U/S, Interventional procedures, and MRI. The following institutions are utilized:

Regina	Saskatoon
General or Pasqua Hospital	Royal University Hospital
Radiology Associates	University Medical Imaging Consultants
Contact: Dr. C. Lim	Contact: Dr. D. Fladeland
	St. Paul's Hospital

	Associated Radiologists
	Contact: Dr. C. Flegg
	Saskatoon City Hospital
	Associated Radiologists
	Contact: Dr. T. Waslen

It is hoped that you will take this opportunity to familiarize yourself with the Medical Imaging resources at your disposal during the PGY-1 year. Also, this will be a good introduction to imaging upon which you can expand your knowledge during the remainder of your clinical year.

Goals and Objectives: Radiology Rotation for PGY1 in Diagnostic Imaging

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical relationships.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.

2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

MEDICINE & NEUROLOGY

1. Assessment Skills

- The resident shall be able to compile in an organized fashion a medical record that includes a patient's medical and surgical history, allergy history, medication history, family history, social history, functional inquiry, and a detailed physical examination of all body systems.
- The resident shall demonstrate appropriate interviewing skills in terms of open and closed questioning, setting priorities, controlling tempo, being empathetic, and terminating the interview.
- The resident shall be able to demonstrate rational health care resource utilization in terms of laboratory investigations and medication orders.

2. Core Problems

For the following Core Problems the resident shall demonstrate the ability to make a differential diagnosis, initiate investigations, and commence treatment:

- headache
- delirium/confusion
- coma
- motor paralysis
- sensory impairment
- seizure
- dyspnea
- cough
- chest pain
- dysphagia
- abdominal pain
- jaundice
- nausea/vomiting
- dysuria
- hematuria
- weight loss
- edema
- anemia
- fatigue
- fever
- hypothermia
- tremor
- pruritus
- joint pain
- irregular pulse
- bruising
- thirst
- ascites

3. Core Procedures

The resident shall be able to perform the following:

- lumbar puncture
- diagnostic paracentesis/thoracocentesis
- arterial puncture for blood gas sampling
- insert a central venous access line
- microscopic analysis of urine
- cardiopulmonary resuscitation
- interpret a complete blood count
- interpret serum electrolyte estimations
- interpret arterial blood gas estimations

- manage transfusion
- manage anticoagulation

Goals and Objectives: General Medicine Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in structure with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Medicine for any junior resident on this rotation.

Medical Expert:

1. Function effectively as a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a medical patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of clinical procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

Goals and Objectives: Neurology Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in structure with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Neurology for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a neurology patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of neurological procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

MEDICINE ELECTIVE

This 4-week rotation is provided to allow the PGY-1 residents to obtain additional experience in a chosen branch of Medicine. This rotation will be arranged with the assistance of PGY-1 coordinator in Regina or Saskatoon.

Goals and Objectives: Elective Medicine Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in structure with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Medicine for any junior resident on this rotation.

Medical Expert:

1. Function effectively as a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a medical patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of clinical procedural skills, both diagnostic and therapeutic.

6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

OBSTETRICS/GYNECOLOGY

1. Cognitive Skills

- The Resident shall be able to compile in an organized fashion a medical record that indicates a patient's obstetrical history, the history of the present pregnancy, and the finding of an obstetrical examination.
- The resident shall be able to identify antepartum and intrapartum fetal risk.
- The resident shall be able to:
 - o diagnose pregnancy on the basis of history;
 - o determine gestational age through dates, and interpretation of ultrasound measurements.
- In delivering prenatal care the resident shall be able to:
justify the decision to order, or not to order, the following prenatal screening tests:
 - o urine culture for bacteriuria;
 - o urinalysis (intermittently or at each prenatal visit);
 - o hemoglobin (intermittently or at each prenatal visit);
 - o determination of maternal serum alpha-fetoprotein;
 - o dating ultrasound;
 - o glucose tolerance testing;
 - o diagnostic test for chlamydia;
 - o diagnostic test for HIV;
 - o diagnostic test for gonorrhea;
 - o diagnostic test for group B beta-hemolytic streptococcus;
 - o fetal movement counting by the mother;
 - o genetic amniocentesis.
- Prescribe the optimal diet for a pregnant woman.
- Justify the decision to prescribe, or not to prescribe, supplemental iron, minerals, or vitamins.
- Justify the decision to medically induce or augment labor.
- Justify the decision to employ, or not employ, electronic fetal monitoring during labor.
- Identify abnormalities of placentation.
- Discuss the clinical importance of abnormalities of placentation.
- Identify abnormalities of the umbilical cord.

- Discuss the clinical importance of abnormalities of the umbilical cord.
- The resident shall demonstrate the ability to make a differential diagnosis, initiate investigations, and commence treatment of the following complications of pregnancy:
 - ectopic pregnancy;
 - hydatidiform mole;
 - hydramnios;
 - oligohydramnios;
 - multifetal pregnancy;
 - pregnancy-aggravated hypertension;
 - preeclampsia;
 - eclampsia;
 - placental abruption;
 - placental previa;
 - abortion (threatened and inevitable);
 - fetal death;
 - anemia (iron deficiency, megaloblastic, hemolytic);
 - premature rupture of the membranes;
 - pre-term labor;
 - post-term labor;
 - intrauterine growth retardation (symmetrical and asymmetrical);
 - gestational diabetes;
 - postpartum hemorrhage.

2. Psychomotor Skills

The resident shall be able to perform the following:

- diagnose pregnancy using a slide test;
- diagnose pregnancy using Chadwick's and Hegar's signs;
- determine the lie, presentation, position and attitude of the fetus;
- determine the gestational age through clinical examinations;
- assess the cervix using a Bishop's score;
- demonstrate fetal heart tones using electronic and non-electronic instruments.

Assess fetal well-being with:

- serial fundal/symphysis height measurement;
- interpretation of the non stress test (NST);
- interpretation of the biophysical profile;
- determination of a Kubli Score in an intrapartum electronic monitor strip.

Diagnose ruptured membranes with ferning test and nitrazine test.

Assess the progress of labor in terms of cervical effacement and dilation.

- Assess the progress of labor in terms of the station of the presenting part relative to the ischial spines.
- Plot the progress of labor on the Friedman curve.
- Demonstrate the ability to differentiate a normal from an abnormal Friedman curve.
- Conduct a cephalic vaginal delivery (with or without episiotomy) in the lithotomy, squatting, and lateral positions.
- Episiotomy, both midline and mediolateral.
- Repair a midline or medial lateral episiotomy.
- Repair a 4th degree tear (i.e. external sphincter and rectum).
- Place a monitoring electrode on the presenting measurement.
- Intrapartum catheterization of the bladder.
- Application and delivery of the head with a vacuum extraction.
- Application and delivery of the head with forceps (low).
- McRobert's maneuver and/or Wood's corkscrew maneuver for management of shoulder dystocia.
- Act as first assistant at Cesarean section.
- Antenatal US – through attendance at prenatal US Clinic.

Goals and Objectives: Obstetrics and Gynecology Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Obstetrics and Gynecology for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain surgical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of obstetrics/gynecology patients.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with women and families.
2. Accurately elicit and synthesize relevant information and perspectives of women and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with women and professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of women, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.

2. Demonstrate a commitment to physician health and sustainable practice.

PEDIATRICS & NICU

1. Assessment Skills

The resident shall be able to compile in an organized fashion a medical record that includes:

- prenatal and neonatal history
- genetic history
- nutritional history
- immunization status
- growth and development history
- results of detailed physical examination of all body systems
- The resident shall be able to perform a detailed physical examination of a newborn infant.

The resident shall be able to describe the scheduling and appropriate content of pediatric health maintenance examinations.

The resident shall be able to assess the physical development of an infant or child by using:

- Dubowitz scoring
 - external signs
 - neurological signs
- growth charts

The resident shall be able to describe common responses of children to stress.

The resident shall be able to demonstrate the use of the following strategies in assisting families of hospitalized children:

- supportive counseling
- comprehensive case supervision
- institutional advocacy

The resident shall be able to describe important psychosocial issues concerning the following as they effect the child:

- adoption
- foster care
- separation form parent(s)

- divorce of parents
- hospitalization
- school phobia
- compliance with medical advise

The resident shall be able to counsel parents with regards:

- home safety
- bicycle safety
- automobile safety
- emergency treatment of ingestion of toxins
- burn prevention
- water safety

The resident shall be able to diagnose problems of learning with regards:

- retardation in infants
 - Denver Development Screening Test
 - hearing assessment
- retardation in preschool-aged children
 - assessment of behavioral development
 - assessment of psychomotor development
 - assessment of speech and language development

The resident shall be able to counsel a nursing mother with regards:

- breast care
- infant positioning during feeding
- frequency of feeds
- management of a blocked milk duct
- timing of the introduction of solids

The resident shall be able to prescribe specific infant formulas.

The resident shall be able to describe the common signs and symptoms of child abuse with regards:

- physical abuse
- emotional abuse
- sexual abuse
- neglect

The resident shall be able to describe the responsibility of the physician in cases of suspected child abuse with regards:

- statutes of the Province of Saskatchewan
- removal of the child from harm's way

- other siblings

The resident shall be able to describe the influences on a child that determine:

- gender identity
- gender role

The resident shall be able to describe adolescent development with regards:

- degree of dehydration
- calculation of replacement and maintenance of fluid requirements
- electrolyte requirements

2. Management Skills

The resident shall demonstrate the ability to make a differential diagnosis, initiate investigations, and initiate treatment of the following conditions:

Dysmorphic disorders

- fetal alcohol syndrome
- cleft lip/palate
- congenital hip dislocation
- talipes equinovarus
- neural tube closure defects

Congenital infections

- rubella
- cytomegalovirus
- toxoplasmosis
- herpes zoster
- coxsackie virus

Respiratory tract disorders

- epistaxis
- upper respiratory tract obstruction
- pharyngitis
- epiglottitis
- otitis media
- otitis externa
- pertussis
- bronchiolitis
- cystic fibrosis
- foreign body aspiration
- croup

- pneumonia

Cardiovascular disorders

- innocent murmurs
- congenital heart disease with cyanosis
- congenital heart disease with little or no cyanosis
- congestive heart failure
- hypertension

Gastrointestinal disorders

- esophageal foreign body
- pyloric stenosis
- intussusception
- appendicitis
- disaccharide intolerance
- dietary protein intolerance
- bacterial diarrhea
- viral diarrhea
- constipation
- anal fissure
- infantile colic

Genitourinary disorders

- hematuria
- proteinuria
- nephrotic syndrome
- vesicoureteral reflux
- urinary tract infection
- undescended testes
- varicocele
- hydrocele

Hematological disorders

- anemia due to inadequate red cell production
- hemolytic anemia
- thrombocytopenic purpura

Endocrine and metabolic disorders

- diabetes mellitus
- congenital hypothyroidism
- polycystic ovaries

- irregularities of menstruation

Nervous system disorders

- partial seizures
- generalized seizures
- febrile convulsions
- cerebral palsy
- head trauma

Allergic disorders

- allergic rhinitis
- asthma
 - status asthmaticus
 - reactive airways disorder
- urticaria

Dermatological disorders

- viral exanthemas
- transient lesions of the neonate
- eczema
- seborrheic dermatitis
- diaper dermatitis
- warts
- acne
- impetigo

Ophthalmologic disorders

- conjunctival inflammation
- strabismus
- decreased visual acuity
- foreign body

Neoplastic disorders

- acute leukemias
- Hodgkin's disease
- Non-Hodgkin's lymphoma
- Wilms tumour
- osteosarcoma

Common neonatal disorders

- neonatal sepsis
- respiratory distress
- hyperbilirubinemia
- hypoglycemia
- hypermagnesemia
- narcotic addition and withdrawal
- seizures

3. Psychomotor Skills

The resident shall be able to perform the following:

- Establishment of an intravenous line
- Lumbar puncture
- **Infant circumcision under penile block
- ** Neonatal resuscitation and advanced live support
- **Gastric lavage

(**) The resident shall have the opportunity to perform these skills (desirable but not mandatory).

4. Interpretive Skills in NICU

The resident shall be able to:

- Recognize/discuss the common thoracic neonatal conditions in their radiographic and clinical context i.e.: HMD, BPD, meconium aspiration, PDA.
- Recognize/discuss the common abdominal neonatal conditions in their radiographic context i.e.: NEC, obstruction, atresia, meconium ileus.
- Identify/describe commonly placed lines/tubes and their expected positions.

Goals and Objectives: Pediatric Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Pediatrics for any junior resident on this rotation.

Medical Expert:

1. Function effectively as a consultant providing ethical and patient-centered medical care.
2. Establish and maintain clinical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a pediatric patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of clinical procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with pediatric patients, parents and families.
2. Accurately elicit and synthesize relevant information and perspectives of pediatric patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual pediatric patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of pediatric patients, parents, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

SURGERY

General/Neurosurgery

1. Clinical Skills

Pre-operative Management Skills

The resident must be able to:

- do a general health assessment
- interpret applicable laboratory and radiological investigations
- assess a patient in the presence of operative risk factors, such as:
 - the compromised or altered host
 - chronic disease
 - drug effects
 - age
 - obesity

Surgical Assist Skills

The resident must:

- be able to function efficiently in the operating room setting and demonstrate a knowledge of sterile technique;

- be able to demonstrate the proper use and handling of commonly used surgical instruments.

Post-operative Management Skills

The resident must be able to demonstrate an ability to manage the post-operative patient with regards to:

- fluid and electrolyte management
- wound care
- drainage tubes
- pain control
- respiratory care
- bowel care
- the use of antibiotics

2. Cognitive Skills

The resident must be able to demonstrate the ability to make a differential diagnosis, initiate investigations, and commence treatments for patients presenting with any of the following problems:

- acute abdominal pain
- gastrointestinal hemorrhage
- shock
- thyroid mass
- neck masses
- breast abnormalities
- gastroesophageal reflux
- gastric and esophageal cancer
- peptic ulcer disease
- inflammatory bowel disease
- small bowel obstruction
- biliary tract obstruction
- pancreatic masses
- appendicitis
- large bowel obstruction
- large bowel cancer
- large bowel diverticular disease
- anorectal disease
- hernias
- lesions of the skin
- disorders of the lymph nodes
- disorders of the arteries and veins

3. Bedside and Operative Skills

Each resident shall have the opportunity to enhance their skills in the performance of any of the following procedures that would help in the achievement of career goals.

- incision and drainage
- excision of skin and subcutaneous lesions
- rigid and fiberoptic sigmoidoscopy
- injection of bursae
- aspiration and injection of joints
- intubation techniques (nasogastric, endotracheal, nasotracheal)
- nasal packing (anterior and posterior)
- bladder catheterization (urethral and suprapubic)
- foreign body removal (eye, ear, nose).
- venous cutdown
- chest tube insertion
- thoracocentesis
- paracentesis
- application of plaster and fiberglass casts to limbs
- suture skin lacerations and do minor flaps and grafts
- reduction of joint dislocations
- reduction of common extremity fractures
- wound and burn dressings
- simple regional nerve block
- venipuncture and venoclysis
- arterial puncture
- use of implanted right atrial catheters

Goals and Objectives: General Surgery Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Surgery for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.

2. Establish and maintain surgical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a surgical patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of surgical procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.
4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.

2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new medical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

Goals and Objectives: Neurosurgery Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Neurosurgery for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain surgical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a neurosurgical patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of neurosurgical procedural skills, both diagnostic and therapeutic.
6. Seek appropriate consultation from other health professionals, recognizing the limits of their expertise.

Communicator

1. Develop rapport, trust and ethical therapeutic relationships with patients and families.
2. Accurately elicit and synthesize relevant information and perspectives of patients and families, colleagues and other professionals.
3. Accurately convey relevant information and explanations.

4. Develop a common understanding on issues, problems and plans with patients and other professionals to develop a shared plan of care.
5. Convey effective oral and written information about a medical encounter.

Collaborator

1. Participate effectively and appropriately in a healthcare team.
2. Effectively work with other health professionals to prevent, negotiate, and resolve conflict.

Manager

1. Participate in activities that contribute to the effectiveness of the healthcare organization.
2. Manage clinical duties effectively.
3. Allocate finite healthcare resources appropriately.

Health Advocate

1. Respond to individual patient health needs and issues as part of patient care.
2. Respond to the health needs of the communities that they serve.
3. Identify the determinants of health of the populations that they serve.
4. Promote the health of individual patients, communities and populations.

Scholar

1. Maintain and enhance activities through ongoing learning.
2. Critically evaluate information and its sources, and apply this appropriately to practice decisions.
3. Facilitate the learning of patients, families, students, residents, other health professionals, as appropriate.
4. Contribute to the creation, dissemination and application of new neurosurgical knowledge and practices.

Professional

1. Demonstrate a commitment to patients, profession, and society through ethical practice.
2. Demonstrate a commitment to physician health and sustainable practice.

SURGERY ELECTIVE

Selection of a Surgery elective or Anatomy experience is at the discretion of the resident. We will initially arrange an Anatomy experience for the resident unless directed otherwise.

The elective rotation in Surgery should consist of a one-month rotation in any of the surgical subspecialties. This rotation will be arranged with the assistance of PGY-1 coordinator in Regina or Saskatoon.

Goals and Objectives: Elective Surgery Rotation for PGY1 in Diagnostic Imaging

Overview:

The rotation is primarily clinical in stricture with the goals and objectives of any clinical resident on the rotation. As such, the following goals should be considered in conjunction with any specific goals, objectives and expectations of the Department of Surgery for any junior resident on this rotation.

Medical Expert:

1. Function effectively a consultant providing ethical and patient-centered medical care.
2. Establish and maintain surgical knowledge, skills and attitudes appropriate to their level of training.
3. Perform a complete and appropriate assessment of a surgical patient.
4. Use preventive and therapeutic interventions effectively.
5. Demonstrate proficient and appropriate use of surgical procedural skills, both diagnostic and therapeutic.
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Professional

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2. Demonstrate a commitment to physician health and sustainable practice.