

## **Program Streams and Suggested Topics**

Program proposals will be accepted for the education streams listed below, as well as for multidisciplinary subject matter. Priority will be given to innovative proposals that most closely address the conference mission, objectives and theme. We welcome submissions on the most current and topical issues including but not limited to the suggested topics listed below. The conference committee may also issue invitations to selected experts to ensure a well rounded program meeting the needs of all disciplines is offered.

### ***Computed Tomography***

Cardiac CT ~ CT angio ~ CT dose standard setting ~ Dual energy CT ~ Low dose CT ~ Patient management ~ Virtual colonoscopy

### ***Interventional Radiology***

Abdominal and thoracic stent grafting ~ C02 angiography ~ Dose reduction ~ Intraoperative/fluoro ~ Kyphoplasty/Vertebro plasty ~ New advances in stroke management: interventional and drug therapies ~ Patient management ~ Subintimal angioplasty ~ Transsternal mediastinal biopsy ~ Tumour ablation

### ***Magnetic Resonance Imaging***

3T imaging ~ Advanced techniques (fMRI, spectroscopy, diffusion) ~ Body imaging ~ Cardiac MR ~ Current research ~ MR angiography ~ MR safety ~ Musculoskeletal imaging ~ Patient management ~ Pediatric imaging

### ***Mammography***

Breast screening ~ Breast tomosynthesis ~ Digital mammography ~ Interventional procedures ~ Patient management ~ Prone table biopsy ~ Ultra sound

### ***Nuclear Medicine***

Bone Mineral Densitometry ~ Cyclotron produced Technetium ~ General nuclear medicine ~ Isotopes supply ~ Molecular imaging ~ New radiopharmaceuticals ~ Nuclear cardiology ~ Patient management ~ Pediatrics ~ PET/CT ~ Setting up a cyclotron ~ SPECT/CT

### ***Radiation Therapy***

Brachytherapy ~ Dosimetry / Treatment planning ~ Immobilization / Patient positioning ~ Error avoidance / Incident reporting ~ Image-guidance / Adaptive / 4D radiotherapy delivery ~ Motion management ~ Multimodality imaging / Image fusion ~ Organ/Target delineation ~ Particle therapy ~ Toxicity quantification / Patient care / Patient outcomes / patient response

### ***Radiography***

Barium studies ~ Chest pathologies ~ Dose considerations with CR and DR ~ Forensics ~ GI imaging ~ Military radiography ~ Patient management ~ paediatrics ~ Radiography of the spine/scoliosis ~ Shoulder or knee arthroplasty ~ Sport related injuries ~ Trauma radiography ~ Veterinary radiography/fluoro

## ***Management***

LEAN (6 sigma) ~ Management by Objectives (MBO) ~ Scientific Management ~ Knowledge Management ~ Empowerment/Teamwork/Leadership/Vision ~ Organizational Behaviour ~ Budget/productivity/Staffing Models ~ Innovation/Change Management ~ Performance Management

## ***Education***

Learning theories and approaches ~ Baccalaureate, Masters Level, PhD ~ Curriculum/mapping/development ~ assessment methods ~ mentorship/Preceptorship

## ***Advanced Practice***

Models of Care ~ needs assessment/business case development ~ role development/validation ~ Measurement of Outcomes/evidence based care ~ Consultant Roles, Scope of Practice/delegated acts/medical directives

## ***Quality and Safety***

Quality Assurance/control ~ FMEA/Risk/Error Analysis ~ Ethical/Legal Issues ~ Standards/Regulations/Procedures ~ CQI/program development ~ Reporting Obligations/incidents/audits/documentation ~ Dose Monitoring/Radiation safety and Protection

## ***Research***

Qualitative ~ Quantitative ~ Evidence-Based medicine ~ Data Collection/Analysis/stats ~ Randomized Controlled Trials ~ Design/Methodology ~ survey design ~ Participatory Action Research ~ REB (research ethics boards)/Ethics of Research ~ Writing/Publishing