# Clinical Audit Template:
# "Minimizing CT Double-Coverage to Reduce Radiation Dose"
### University of Saskatchewan

1) Pre-intervention
   - Using PACs software, collect data on CT chest, abdomen, pelvis (CHAP); and neck, chest, abdomen, pelvis (NCHAP) scans regarding:
       o Number of scan segments
       o Cranio-caudal length of each segment
       o Length of CC anatomic overlap between segments
       o Dose length product (mSv) for each segment
   - Calculate radiation dose due to double-coverage
2) Intervention
   - Modify CT protocols to minimize anatomic overlap
       o For example, at our centre:
           ▪ For non-trauma patients, CHAP studies changed to a single portal venous phase requiring only one scan with no overlap. For NCHAP studies, two scans were utilized. Technologists were asked to keep the neck-chest overlap to a minimum.
3) Post-intervention
   - Repeat pre-intervention methods and compare results