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