Radiographic Assessments to Identify Risk of Hip Dislocation Following Total Hip Arthroplasty

Strongest predictors of hip instability

- Spinopelvic imbalance (PI – LL) >10°
  - 70% Sensitivity
  - 65% Specificity
- CSI (PFA + cup AI) parameters
  - <216°: For posterior instability
  - >244°: For anterior instability

Factors associated with increased dislocation risk

- CSI not between 205° and 245°
  - OR: 4.2; 95% CI: 2.2-8.2
  - p < 0.001
- CSI not between 215° and 235°
  - OR: 5.1; 95% CI: 1.8-14.9
  - p = 0.001

Spinopelvic imbalance is a useful screening tool to identify patients at increased risk of dislocation following THA.