

## Inter-Rater Reliability (IRR) Trigger Tool



### Automated Data Validation Greatly Enhances Data Reliability

- Computer programming streamlines the validation process
- Enables all cases to be logically reviewed with preset checks, supporting the IRR process
- Increases data accuracy

Data reliability is imperative in determining quality improvement opportunities. The ACS defines that for participating hospitals to have reliable data, each center, if audited, should have a disagreement rate of <5% over all variables evaluated.

To streamline the IRR process and be more comprehensive in our review, we developed an **automated tool that evaluates abstracted cases and flags potential errors for correction.**

#### Sample Program Output

	Flag	Concern	Data Reason	Case_ID
7	Potential Error	Date mismatch	Different Hospital_Admission_Date and Time_of_Presentation_Date	1000
8	Potential Error	Date mismatch	Different Hospital_Admission_Date and Time_of_Presentation_Date	1000
9	Error	Surgical method incorrect	CPT-24538 AND Laparoscopic_MIS_Procedure not LAPAROSCOPIC/MIS ONLY	1000
10	Potential Error	Case priority incorrect	CPT-44970 AND Case Status not Urgent	1000
11	Error	Wound Class discrepancy	CPT-44970 AND Wound Class=1	1000
12	Error	Surgical method incorrect	CPT-24538 AND Laparoscopic_MIS_Procedure not LAPAROSCOPIC/MIS ONLY	1000
13	Potential Error	Date mismatch	Different Hospital_Admission_Date and Time_of_Presentation_Date	1000
14	Potential Error	Date mismatch	Different Hospital_Admission_Date and Time_of_Presentation_Date	1000
15	Error	Wound Class discrepancy	CPT-44970 AND Wound Class=1	1000

#### Data Source/Population and Results

##### Data Sources

- Data Download Report (DDR)
- Excel input files developed by our team (examples below)
  - CPT code and Wound Class discrepancy, flag as error
  - Low WBC values by Age Group, with CPT code 44970, & wound class 4, but not SIRs, flag as potential error

##### Results/Methods

- SCR downloads the DDR from the ACS portal
- The program performs logical checks on the case data
- The output is a list of cases that are errors or potential errors and includes the reason each case is flagged
- The SCR updates the case data on the ACS portal

#### Lessons Learned

- Despite putting great care towards abstracting cases, errors are inevitable
- The trigger tool helps us validate our cases efficiently and identifies common types of errors
- We will add more logical checks as we enhance the tool
- The tool cannot catch all errors so we must remain vigilant in preventing errors and looking for them as we review cases

Sheena Keding MSN, RN, CNS, ACCNS-P, CPHQ • Ryan Matsunaga MS