## Data Validation Procedure and Standards

Clinical Department

Raw data preparation

Initial validation

Submission of raw data after initial validation

Department of Quality Improvement & Patient Safety

Random sampling for validated data[1]

Secondary validation ↔ Check EMR correspondence

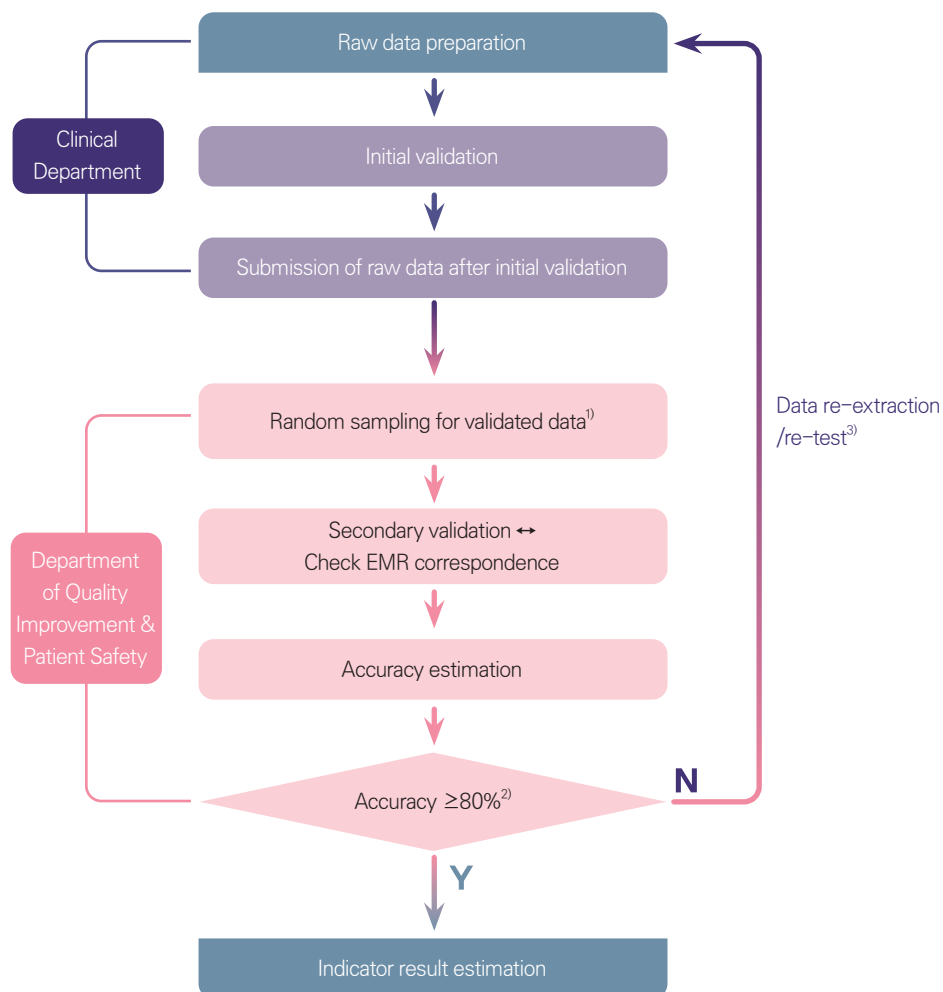Accuracy estimation

Accuracy ≥80%[2]

Data re-extraction /re-test[3]

**N**

**Y**

Indicator result estimation

* Random sampling: Data extraction at random
* Raw data: The source data prior to any processing
* EMR: Electronic Medical Record

1) Sample Size Requirements: JCI LOM version 2.0

| Initial Patient Population "N" | Minimum Required Sample Size |
|---|---|
| 1 – 16 | No sampling; 100% of the Initial Patient Population is required |
| 17 – 160 | 16 |
| 161 – 480 | 10% of the Initial Patient Population (max. 48cases) |
| 481≤ | 48 |

2) Only the measures exhibiting data accuracy ≥80% are compiled into the list

3) If the result of secondary validation shows accuracy <80%, data re-extraction re-test may be performed to the entire raw data