**Supplementary Tables/Figures**

**Suppl 1. Study Flow Diagram**

All subjects available across international multi-source data repository

(N=13,354)

Registry-balanced subjects with representative data points

(N=3,210)

Excluded in QA automation due to data corruption and/or incorrect CT type (N=3,047)

QA-approved subjects

(N=10,307)

Excluded subjects without representative data points required for analysis (N=7,097)

Excluded subjects with:

duplicate MRNs and/or overlap with training set (N=111);

missing/erroneous diagnostic labels (N=71);

age < 22 (N=10)

Final analysis cohort

(N=3018)

Key: QA = automated testing, CT = computed tomography, MRN = medical record number