



HEAL-SL
Verbal Autopsy
(n=11,920, 100%)

Missing/Inadequate
Information for Physician
(n=100, <1%)

Non-physician Agreed
Records
(n=4878, 41%)

Physician Assigned
Records
(n=11,820, 99%)

ICD-10 Physician
Agreed Records
(n=6942, 59%)

ICD-10 Not Captured
by CGHR-10
(n=3, <1%)

CGHR-10 Physician Agreed Records (n=6939, >99%)

Adult (12 to 69 Years)
Physician Agreed Records
(n=3826, 55%)

Child (28 days to 11 Years)
Physician Agreed Records
(n=2636, 38%)

Neonatal (0 to 28 Days)
Physician Agreed Records
(n=477, 7%)

Input Data and Preprocessing (n=6939, 100%)

Age, Sex
(Questionnaire)
+
Narrative

Text Prompts from
Open Narratives
(n=6939, 100%)

WHO VA 2016 v1.5.1
526 Variables
(n=6939, 100%)

OpenVA (pyCrossVA)
353 Variables
(n=6939, 100%)

Models and Parameters

GPT-3.5
OpenAI API using Python
(gpt-3.5-turbo, temperature=0,
seed=1234)

GPT-4
OpenAI API using Python
(gpt-4-0613, temperature=0,
seed=1234)

GPT-5
OpenAI API using Python
(gpt-5-2025-08-07, store=false,
reasoning=minimal, verbosity=low)

InterVA-5
openVA R Package
(Malaria=h, HIV=h)

InSilicoVA
openVA R Package
(Nsim=9500)

Output Data and Code Conversions (n=6939, 100%)

GPT-3.5
ICD-10
(n=6939, 100%)

GPT-3.5
CGHR-10
(n=6930, >99%)

ICD-10 Not Captured
by CGHR-10
(n=9, <1%)

GPT-4
ICD-10
(n=6935, >99%)

GPT-4
CGHR-10
(n=6931, >99%)

ICD-10 Not Captured
by CGHR-10
(n=8, <1%)

GPT-5
ICD-10
(n=6914, >99%)

GPT-5
CGHR-10
(n=6914, 100%)

InterVA-5
WHO VA 2016 v1.5.1
(n=6830, 98%)

InterVA-5
ICD-10
(n=6830, 100%)

InterVA-5
CGHR-10
(n=6802, >99%)

ICD-10 Not Captured
by CGHR-10
(n=28, <1%)

InSilicoVA
WHO VA 2016 v1.5.1
(n=6830, 98%)

InSilicoVA
ICD-10
(n=6830, 100%)

InSilicoVA
CGHR-10
(n=6726, 98%)

ICD-10 Not Captured
by CGHR-10
(n=104, 1%)

Performance Evaluation (n=6939, 100%)

GPT-3.5
CGHR-10
(n=6930, >99%)

GPT-4
CGHR-10
(n=6931, >99%)

GPT-5
CGHR-10
(n=6914, >99%)

InterVA-5
CGHR-10
(n=6802, 98%)

InSilicoVA
CGHR-10
(n=6726, 96%)

Cause Specific
Mortality Accuracy
(CSMF Accuracy)

Partial Chance
Corrected Concordance
(PCCC)

Overall
(All Records)

By Age Group
(Adult, Child, Neonatal)

By Cause of Death (COD)
(19 Adult, 10 Child, 7 Neonatal)

By 5-Year Age Ranges Per Age Group
(0 Days to 69 Years)