# Additional file 1

List of causes of death from the Population Health Metric Research Consortium database and mapping to causes used by InsilicoVA.

## Adult causes

The more detailed list of 46 causes was used to map PHMRC causes to the InSilicoVA causes. This provides better matching of some causes, especially for maternal causes. Analyses using PHMRC causes used the more aggregated list of 34 causes.

|  |  |  |
| --- | --- | --- |
| PHMRC Cause 46 | PHMRC Cause 34 | InSilicoVA Cause |
| AIDS | AIDS | HIV/AIDS related death |
| AIDS with TB | AIDS | HIV/AIDS related death |
| Acute Myocardial Infarction | Acute Myocardial Infarction | Acute cardiac disease |
| Anemia | Maternal | Anaemia of pregnancy |
| Asthma | Asthma | Asthma |
| Bite of Venomous Animal | Bite of Venomous Animal | Contact with venomous plant/animal |
| Breast Cancer | Breast Cancer | Breast neoplasms |
| COPD | COPD | Chronic obstructive pulmonary dis |
| Cervical Cancer | Cervical Cancer | Reproductive neoplasms MF |
| Cirrhosis | Cirrhosis | Liver cirrhosis |
| Colorectal Cancer | Colorectal Cancer | Other and unspecified neoplasms |
| Congestive Heart Failure | Other Cardiovascular Diseases | Other and unspecified cardiac dis |
| Diabetes with Coma | Diabetes | Diabetes mellitus |
| Diabetes with Renal Failure | Diabetes | Diabetes mellitus |
| Diabetes with Skin Infection/Sepsis | Diabetes | Diabetes mellitus |
| Diarrhea/Dysentery | Diarrhea/Dysentery | Diarrhoeal diseases |
| Drowning | Drowning | Accid drowning and submersion |
| Epilepsy | Epilepsy | Epilepsy |
| Esophageal Cancer | Esophageal Cancer | Digestive neoplasms |
| Falls | Falls | Accid fall |
| Fires | Fires | Accid expos to smoke fire & flame |
| Hemorrhage | Maternal | Obstetric haemorrhage |
| Homicide | Homicide | Assault |
| Hypertensive Disorder | Maternal | Pregnancy-induced hypertension |
| Inflammatory Heart Disease | Other Cardiovascular Diseases | Acute cardiac disease |
| Leukemia | Leukemia/Lymphomas | Other and unspecified neoplasms |
| Lung Cancer | Lung Cancer | Respiratory neoplasms |
| Lymphomas | Leukemia/Lymphomas | Other and unspecified neoplasms |
| Malaria | Malaria | Malaria |
| Other Cancers | Other Non-communicable Diseases | Other and unspecified neoplasms |
| Other Cardiovascular Diseases | Other Cardiovascular Diseases | Other and unspecified cardiac dis |
| Other Digestive Diseases | Other Non-communicable Diseases | Acute abdomen |
| Other Infectious Diseases | Other Infectious Diseases | Other and unspecified infect dis |
| Other Injuries | Other Injuries | Other and unspecified external CoD |
| Other Non-communicable Diseases | Other Non-communicable Diseases | Other and unspecified NCD |
| Other Pregnancy-Related Deaths | Maternal | Other and unspecified maternal CoD |
| Pneumonia | Pneumonia | Acute resp infect incl pneumonia |
| Poisonings | Poisonings | Accid poisoning & noxious subs |
| Prostate Cancer | Prostate Cancer | Reproductive neoplasms MF |
| Renal Failure | Renal Failure | Renal failure |
| Road Traffic | Road Traffic | Road traffic accident |
| Sepsis | Maternal | Pregnancy-related sepsis |
| Stomach Cancer | Stomach Cancer | Digestive neoplasms |
| Stroke | Stroke | Stroke |
| Suicide | Suicide | Intentional self-harm |
| TB | TB | Pulmonary tuberculosis |

## Child causes

|  |  |
| --- | --- |
| PHMRC Cause | InSilicoVA Cause |
| AIDS | HIV/AIDS related death |
| Bite of Venomous Animal | Contact with venomous plant/animal |
| Diarrhea/Dysentery | Diarrhoeal diseases |
| Drowning | Accid drowning and submersion |
| Encephalitis | Meningitis and encephalitis |
| Falls | Accid fall |
| Fires | Accid expos to smoke fire & flame |
| Hemorrhagic fever | Haemorrhagic fever |
| Malaria | Malaria |
| Measles | Measles |
| Meningitis | Meningitis and encephalitis |
| Other Cancers | Other and unspecified neoplasms |
| Other Cardiovascular Diseases | Other and unspecified cardiac dis |
| Other Defined Causes of Child Deaths | Other and unspecified NCD |
| Other Digestive Diseases | Acute abdomen |
| Other Infectious Diseases | Other and unspecified infect dis |
| Pneumonia | Acute resp infect incl pneumonia |
| Poisonings | Accid poisoning & noxious subs |
| Road Traffic | Road traffic accident |
| Sepsis | Sepsis (non-obstetric) |
| Violent Death | Assault |

## Neonate causes

|  |  |
| --- | --- |
| PHMRC Cause | InSilicoVA Cause |
| Birth asphyxia | Birth asphyxia |
| Congenital malformation | Congenital malformation |
| Meningitis/Sepsis | Meningitis and encephalitis |
| Pneumonia | Neonatal pneumonia |
| Preterm Delivery (with or without RDS) and Sepsis | Prematurity |
| Preterm Delivery (without RDS) and Birth Asphyxia | Prematurity |
| Preterm Delivery (without RDS) and Sepsis and Birth Asphyxia | Prematurity |
| Preterm Delivery with Respiratory Distress Syndrome | Prematurity |
| Preterm Delivery without Respiratory Distress Syndrome | Prematurity |
| Sepsis with Local Bacterial Infection | Neonatal sepsis |
| Stillbirth | Fresh stillbirth |