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| **Category** | **Cause of Death (COD)**  \*Specifies NCHS top 10 CODs | **ICD Codes from** | **ICD Codes** |
| Injuries | Accidents (unintentional injuries) \* | NCHS 1 | V01–X59, Y85–Y86,  Excluding motor vehicle accidents and poisonings (given the SIMAH ICD codes below) |
| Injuries | Motor vehicle accident | SIMAH 2,3 | V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6,  V20-V79, V80.3-V80.5,  V81.0-V81.1, V82.0-V82.1,  V83-V86, V87.0-V87.8,  V88.0-V88.8, V89.0 and V89.2 |
| Injuries | Opioid poisoning | Charlotte/Yu 5 | 1) X40-X44, X60-X64, X85, Y10-Y14 from underlying cause  2) T40.0-T40.4, T40.6 from contributing cause  Must meet both 1) and 2), also excluding intentional self-harm (X60-X64) |
| Injuries | Alcohol poisonings | Charlotte/Yu 5 | X45, F10.0 from underlying cause  X45, F10.0 from contributing cause  T51.0, T51.9 from contributing cause  If alcohol poisoning from contributing cause and also other diseases listed in this list (except for other injury, other infectious and other NCD), coded to other disease |
| Injuries | Intentional self-harm | SIMAH 2,3 | X60-X84, Y87.0 |
| Injuries | Other injuries | IHME GBD 2019 4 | **Transport injuries**: V00-V86.99, V87.2-V87.3, V88.2-V88.3, V90-V98.8;  **Unintentional injuries**: D69.5-D69.59, D70.1-D70.2, D78-D78.89, D89.81-D89.813, E03.2, E06.4, E09-E09.9, E16.0, E23.1, E24.2, E27.3, E36-E36.8, E66.1, E86.02-E87.99, E89-E89.9, G21.0-G21.19, G24.0-G24.09, G25.1, G25.4, G25.6-G25.79, G62.0, G72.0, G93.7, G96.0, G96.11, G97-G97.9, H02.81-H02.819, H05.33-H05.339, H05.42-H05.53, H44.6-H44.799, H59-H59.89, H91.0-H91.09, H95-H95.9, I95.2-I95.81, I97-I97.9, J70-J70.5, J95-J95.9, K08.5-K08.59, K43-K43.9, K52.0, K62.7, K68.11, K91-K91.9, K94-K95.89, L23.3, L27.0-L27.1, L55-L55.9, L56.0-L56.1, L58-L58.9, L64.0, L76-L76.82, M10.2-M10.29, M60.2-M60.28, M87.1-M87.19, M96-M96.9, N14-N14.4, N30.4-N30.41, N46.021, N46.121, N52.2-N52.39, N65-N65.1, N99-N99.9, P93-P93.8, P96.2, P96.5, R50.2-R50.83, W00-W46.2, W49-W62.9, W64-W70.9, W73-W81.9, W83-W94.9, W97.9, W99-X06.9, X08-X44.9, X46-X58.9, Y10-Y14.9, Y16-Y19.9, Y40-Y84.9, Y88-Y88.3, Z21.0, Z42-Z43.0, Z43.8-Z43.9, Z48-Z48.9, Z51-Z51.9, Z88-Z88.9, Z92-Z94.0, Z94.6, Z94.8-Z94.9, Z96-Z96.49, Z96.6-Z97.2, Z97.8-Z99.12, Z99.3-Z99.9;  **Self-harm and interpersonal violence**: T74.2-U03, X60-X64.9, X66-Y08.9, Y35-Y38.9, Y87.0-Y87.2, Y89.0-Y89.1;  Excluding the other injuries listed above |
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| Infectious diseases | COVID-19\* | NCHS 1 | U07.1 |
| Infectious diseases | Influenza and pneumonia\* | NCHS 1 | J09–J18 |
| Infectious diseases | Other infectious diseases | IHME GBD 2019 4 | **Respiratory infections and tuberculosis**: A10-A14, A15-A18.89, A19-A19.9, A48.1, A70, B90-B90.9, B96.0-B96.1, B97.21, B97.4-B97.6, H65-H70.93, J00-J06.9, J09-J18.2, J18.8-J18.9, J19.6-J22.9, J36-J36.0, J85.1, J91.0, K67.3, K93.0, M49.0, N74.0-N74.1, P23-P23.9, P37.0, U04-U04.9, U84.3, Z03.0, Z11.1, Z20.1, Z23.2, Z25.1;  **Enteric infections**: A00-A08.8, A09, A80-A80.9, B91, K52.1, Z11.0, Z20.0-Z20.09, Z22.1, Z23.0;  **Neglected tropical diseases and malaria**: A30-A30.9, A68-A68.9, A69.2-A69.29, A69.8-A69.9, A71-A71.9, A74.0, A75-A75.9, A77-A79.9, A82-A82.9, A90-A91.0, A92-A96.9, A98-A99.0, B33.0-B33.1, B50-B50.0, B50.8-B52.0, B52.8-B53.1, B53.8-B57.5, B60-B60.8, B64-B83.9, B89, B92, B94.0, K93.1, P37.1, P37.3-P37.4, U06-U06.9, Z11.6, Z20.3, Z24.2-Z24.3, Z26.0;  **Other infectious diseases**: A20-A28.9, A31-A39.9, A42-A44.9, A48-A48.0, A48.2-A49.9, A65-A65.0, A69-A69.1, A74, A74.8-A74.9, A81-A81.9, A83-A85.2, A85.8-A86.0, A87-A89.0, B00-B06.9, B10-B10.89, B15-B19.9, B25-B27.99, B33, B33.3-B34.9, B37-B37.2, B37.5-B47.1, B47.9-B49, B58-B59, B94, B94.1-B95.0, B95.2-B96, B96.2-B97.2, B97.29-B97.39, B97.7-B97.8, B97.89, B99-B99.9, D70.3, D86.81, D89.3, F02.1, F07.1, G00-G09.9, G14-G14.6, I00, I02, I02.9, I96-I96.9, I98.1, J85-J85.0, J85.2-J85.3, J86-J86.9, K75.0, K75.3, K76.3, M49.1, M89.6-M89.69, P35-P35.9, P37, P37.2, P37.5-P37.9, R02-R02.9, U82-U84, U85-U89, Z11, Z11.2, Z11.5-Z11.59, Z11.8-Z11.9, Z16-Z16.39, Z20, Z20.4-Z20.5, Z20.8-Z20.9, Z22-Z22.0, Z22.2-Z22.39, Z22.5-Z22.9, Z23.3-Z23.7, Z24.0-Z24.1, Z24.4-Z25.0, Z83.1;  Excluding the infectious diseases listed above |
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| NCD | Diseases of heart\* | NCHS 1 | I00–I09, I11, I13, I20–I51 |
| NCD | Malignant neoplasms (cancer)\* | NCHS 1 | C00–C97 |
| NCD | Cerebrovascular diseases (stroke)\* | NCHS 1 | I60–I69 |
| NCD | Chronic lower respiratory diseases\* | NCHS 1 | J40–J47 |
| NCD | Alzheimer disease\* | NCHS 1 | G30 |
| NCD | Diabetes mellitus\* | NCHS 1 | E10–E14 |
| NCD | Nephritis, nephrotic syndrome and nephrosis (kidney disease)\* | NCHS 1 | N00–N07, N17–N19, N25–N27 |
| NCD | Liver disease and cirrhosis | SIMAH 2,3 | K70, K71.3-K71.5, K71.7, K72-K74 |
| NCD | Alcohol use disorder | SIMAH 2,3, | F10-F10.9, G31.2, G72.1, Q86.0, R78.0,  (Excluding F10.0, which was discontinued in 2007) |
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| NCD | Other NCD | IHME GBD 2019 4 | **Neoplasms**: C00-C07, C08-C19.0, C20, C21-C21.8, C22-C22.4, C22.7-C23, C24-C26.1, C26.8-C26.9, C30-C30.1, C31-C33, C34-C34.92, C37-C37.0, C38-C39.9, C40-C41.4, C41.8-C41.9, C43-C45.2, C45.7, C45.9, C47-C4A, C50-C50.629, C50.8-C52, C53-C54.3, C54.8-C56.2, C56.9-C58.0, C60-C64.2, C64.9-C69.92, C70-C70.1, C70.9-C73, C74-C75.5, C75.8-C79.9, C80-C81.49, C81.7-C81.79, C81.9-C85.29, C85.7-C86.6, C88-C90.32, C91-C93.7, C93.9-C95.2, C95.7-C97.9, D00-D24.9, D26.0-D39.9, D4-D49.9, E34.0, K51.4-K51.419, K62.0-K62.3, K63.5, N60-N60.99, N84.0-N84.1, N87-N87.9, Z03.1, Z08-Z09.9, Z12-Z12.9, Z80-Z80.9, Z85-Z85.9, Z86.0-Z86.03;  **Cardiovascular diseases**: B33.2-B33.24, D86.85, G45-G46.8, I01-I01.9, I02.0, I05-I09.9, I11-I11.2, I11.9, I20-I21.6, I21.9-I27.0, I27.2-I28.9, I30-I38.0, I39-I41.8, I42-I43.8, I44-I44.8, I45-I52.8, I60-I64, I64.1, I65-I83.93, I86-I89.0, I89.9, I95.0-I95.1, I98, I98.8-I99.9, K75.1, R00-R01.2, Z01.3-Z01.31, Z03.4-Z03.5, Z13.6, Z52.7, Z82.3-Z82.49, Z86.7-Z86.79, Z94.1-Z94.3, Z95-Z95.9;  **Chronic respiratory diseases**: D86-D86.2, D86.9, G47.3-G47.39, J30-J35.9, J37-J39.9, J41-J42.4, J43-J46.0, J47-J47.9, J60-J68.9, J70.8-J70.9, J80-J80.9, J82, J84-J84.9, J90-J90.0, J91, J91.8-J93.12, J93.8-J94.9, J96-J96.92, J98-J99.8, R05.0-R06.9, R09-R09.89, R84-R84.9, R91-R91.8, Z82.5;  **Digestive diseases**: I84-I85.9, I98.2, K20-K23.8, K25-K31.9, K35-K38.9, K40-K42.9, K44-K46.9, K50-K51.319, K51.5-K52, K52.2-K52.9, K55-K62, K62.4-K62.6, K62.8-K63.4, K63.8-K67, K67.8-K68.1, K68.12-K68.9, K70-K75, K75.2, K75.4-K76.2, K76.4-K77.8, K80-K80.81, K81-K83.9, K85-K87.1, K90-K90.9, K92-K92.9, K93.8, R11-R19.8, R85-R85.9, Z13.81-Z13.818, Z43.1-Z43.4, Z52.6, Z83.7-Z83.79, Z87.1-Z87.19, Z94.4;  **Neurological disorders**: F00-F02.0, F02.2-F02.3, F02.8-F03.91, F06.2, G10-G10.0, G11-G13.8, G20-G21, G21.2-G24, G24.1-G25.0, G25.2-G25.3, G25.5, G25.8-G26.0, G30-G31.1, G31.8-G32.89, G35-G35.0, G36-G37.9, G40-G41.9, G43-G44.89, G50-G54.1, G54.5-G62, G62.2-G65.2, G70-G71.19, G71.3-G72, G72.1-G73.7, G80-G83.9, G89-G93.6, G93.8-G95.29, G95.8-G96, G96.1, G96.12-G96.9, G98-G99.8, M33-M33.99, M60-M60.19, M60.8-M60.9, M79.7, R25-R27.9, R29-R29.91, R41-R42.0, R56-R56.9, R90-R90.89, Z03.3, Z13.85, Z13.858, Z82.0, Z86.6-Z86.69;  **Mental disorders**: F04-F06.1, F06.3-F07.0, F08-F09.9, F20-F34.9, F38-F52.9, F55-F55.8, F56-F99.0, G47-G47.29, G47.4-G47.9, R40-R40.4, R45-R46.89, R55-R55.0, Z03.2, Z04.6-Z04.72, Z13.4, Z64, Z81-Z81.0, Z81.8, Z86.5-Z86.59;  **Substance use disorders**: E24.4, F10-F19.99, G31.2, G62.1, P96.1, R78.0-R78.9, X45-X45.9, X65-X65.9, Y15-Y15.9, Z81.1-Z81.4;  **Diabetes and kidney diseases**: D63.1, E08-E08.9, E10-E14.9, I12-I13.9, N00-N08.8, N15.0, N17-N19, Q60-Q63.2, Q63.8-Q63.9, Q64.2-Q64.9, R73-R73.9, Z13.1, Z49-Z49.32, Z52.4, Z83.3, Z99.2;  **Skin and subcutaneous diseases**: A46-A46.0, A66-A67.3, A67.9, B07-B09, B35-B36.9, B85-B88.9, D86.3, E80.1-E80.29, I89.1-I89.8, L00-L05.92, L08-L08.9, L10-L14.0, L20-L23.2, L23.4-L27, L27.2-L30.9, L40-L45, L49-L54.0, L56, L56.2-L57.9, L59-L60.9, L62-L64, L64.8-L68.9, L70-L75.9, L80-L92.9, L94-L95.9, L97-L99.8, M72.5-M72.6, N49.2-N49.3, R20-R24.0, Z20.7, Z41.1, Z84.0, Z87.2, Z94.5;  **Sense organ diseases**: B30-B30.9, H00-H02.8, H02.82-H02.9, H03.0-H05.329, H05.34-H05.419, H05.8-H06.3, H10-H11.9, H13-H13.8, H15-H22.8, H25-H28.8, H30-H36.8, H40-H40.9, H42-H44.539, H44.8-H55.89, H57-H58.9, H60-H62.8, H71-H75.83, H80-H83.93, H90-H91, H91.1-H94.83, Q16-Q16.9, R43-R44.9, Z01.0-Z01.12, Z13.5, Z41.3, Z52.5, Z82.1-Z82.2, Z83.5-Z83.6, Z94.7, Z97.3-Z97.4;  **Musculoskeletal disorders**: G54.2-G54.4, I27.1, L93-L93.2, M00-M03.6, M05-M10.19, M10.3-M25.9, M30-M32.9, M34-M36.8, M40-M43.9, M45-M49, M49.2-M51.9, M53-M54.9, M61-M63.89, M65-M68.8, M70-M72.4, M72.8-M73, M75-M77.9, M79-M79.676, M79.8-M87.09, M87.2-M89.59, M89.7-M95.9, M99-M99.9, Z13.82-Z13.83, Z82.6-Z82.69, Z87.3-Z87.39;  **Other non-communicable diseases**: B37.3-B37.49, C7A00-C7B8, D25-D26, D3A00-D3A8, D55-D61.9, D64-D69.49, D69.6-D70.0, D70.4-D77, D80-D84.9, D86.8, D86.82-D86.84, D86.86-D86.89, D89-D89.2, D89.8, D89.82-D89.9, E03-E03.1, E03.3-E06.3, E06.5-E07.9, E15-E16, E16.1-E16.9, E20-E23.0, E23.2-E24.1, E24.3, E24.8-E27.2, E27.4-E32.9, E34, E34.1-E35.8, E65-E66.09, E66.2-E68, E70-E80.09, E80.3-E85.9, E88-E88.9, E90-E998, G71.2, K00-K08.499, K08.8-K14.9, M26-M27.9, N10-N13.9, N15, N15.1-N16.8, N20-N23.0, N25-N29, N29.1-N30.31, N30.8-N37.8, N39-N46.02, N46.022-N46.12, N46.122-N49.1, N49.8-N52.1, N52.8-N53.9, N61-N64.9, N72-N72.0, N75-N77.8, N80-N81.9, N83-N84, N84.2-N86, N88-N95.9, N97-N98.9, P96.0, Q00-Q07.9, Q10-Q15.9, Q17-Q18.9, Q20-Q28.9, Q30-Q45.9, Q50-Q56.4, Q63.3, Q64-Q64.19, Q65-Q87.89, Q89-Q89.8, Q90-Q93.9, Q95-Q99.9, R30-R37, R39-R39.9, R86-R87.9, Z01.2-Z01.21, Z01.4-Z01.7, Z13.7-Z13.79, Z13.84, Z14-Z15.89, Z31-Z31.9, Z43.5-Z43.7, Z82.7-Z82.79, Z83.4-Z83.49, Z84.1-Z84.2, Z86.1-Z86.19, Z87.4-Z87.448, Z87.7-Z87.798, Z96.5;  Excluding the other NCDs listed above |
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| Other | All others |  | All others not included above |

NCHS: National Center for Health Statistics; COD: Cause of death

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