

# Comorbidity Assessment

If collecting comorbidity data from BACPAC participants **during their clinic visit**, use the following Charlson Comorbidity Index:

<https://www.mdcalc.com/charlson-comorbidity-index-cci#evidence>

If collecting comorbidity data from BACPAC participants **via EHR**, use the following ICD-10 code.

Source: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6684052/>.

- Myocardial infarction: I21.x, I22.x, I25.2
- Congestive heart failure: I11.0, I13.0, I13.2, I25.5, I42.0, I42.5, I42.6, I42.7, I42.8, I42.9, I43.x, I50.x, P29.0
- Peripheral vascular disease: I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.1, I79.8, K55.1, K55.8, K55.9, Z95.8, Z95.9
- Cerebrovascular disease: G45.x, G46.x, H34.0x, H34.1x, H34.2x, I60.x, I61.x, I62.x, I63.x, I64.x, I65.x, I66.x, I67.x, I68.x
- Dementia: F01.x, F02.x, F03.x, F04, F05, F06.1, F06.8, G13.2, G13.8, G30.x, G31.0x, G31.1, G31.2, G91.4, G94, R41.81, R54
- Chronic pulmonary disease: J40.x, J41.x, J42.x, J43.x, J44.x, J45.x, J46.x, J47.x, J60.x, J61.x, J62.x, J63.x, J64.x, J65.x, J66.x, J67.x, J68.4, J70.1, J70.3
- Rheumatic disease: M05.x, M06.x, M31.5, M32.x, M33.x, M34.x, M35.1, M35.3, M36.0
- Peptic ulcer disease: K25.x, K26.x, K27.x, K28.x
- Mild liver disease: B18.x, K70.0, K70.1, K70.2, K70.3, K70.9, K71.3, K71.4, K71.5, K71.7, K73.x, K74.x, K76.0, K76.2, K76.3, K76.4, K76.8, K76.9, Z94.4
- Diabetes without chronic complication:
  - Main codes: E08, E09, E10, E11, E13
  - Relevant subcodes: E\*\*.0x, E\*\*.1x, E\*\*.6x, E\*\*.8x, E\*\*.9x
- Diabetes with chronic complication:
  - Main codes; E08, E09, E10, E11, E13
  - Relevant subcodes: E\*\*.2, E\*\*.3, E\*\*.4, E\*\*.5
- Hemiplegia or paraplegia: G04.1, G11.4, G80.0, G80.1, G80.2, G81.x, G82.x, G83.x

- Renal disease:
  - Mild or Moderate: I12.9, I13.0, I13.10, N03.x, N05.x, N18.1, N18.2, N18.3, N18.4, N18.9, Z94.0
  - Severe: I12.0, I13.11, I13.2, N18.5, N18.6, N19.x, N25.0, Z49.x, Z99.2
- Any malignancy, including lymphoma and leukaemia, except malignant neoplasm of skin: C0x.x, C1x.x, C2x.x, C30.x, C31.x, C32.x, C33.x, C34.x, C37.x, C38.x, C39.x, C40.x, C41.x, C43.x, C45.x, C46.x, C47.x, C48.x, C49.x, C50, C51-58.x, C60-63.x, C76.x, C80.1, C81.x, C82.x, C83.x, C84.x, C85.x, C88.x, C9x.x
- Moderate or severe liver disease: I85.0x, I86.4, K70.4x, K71.1x, K72.1x, K72.9x, K76.5, K76.6, K76.7
- Metastatic solid tumour: C77.x, C78.x, C79.x, C80.0, C80.2
- AIDS/HIV:
  - HIV Infection: B20.x
  - AIDS (HIV Infection + opportunistic infection): B37.x, C53.x, B38.x, B45.x, A07.2, B25.x, G93.4x, B00, B39.x, A07.3, C46.x, C81-C96, A31.x, A15-A19, B59, Z87.01, A81.2, A02.1, B58.x, R64

If collecting COVID-19 questions **for comorbidity purposes**, use the following 2-stage question:

Has a health care provider told you that you were infected with COVID-19?

Y N

If yes....Were you treated in a hospital overnight for COVID-19?

Y N