**S3 Table. List of the parent category ICD-10 diagnosis codes mapped to each condition of the Elixhauser Comorbidity Index and its associated weight.**

| Comorbidity | ICD-10 Codes | Van Walraven Weight |
|---|---|---|
| Alcohol abuse | E52, F10, G62, I42, K29, K70, T51, Z50, Z71, Z72 | 0 |
| Blood loss anemia | D50 | -2 |
| Cardiac arrhythmias | I44, I45, I47, I48, I49, R00, T82, Z45, Z95 | 5 |
| Chronic pulmonary disease | I27, J40, J41, J42, J43, J44, J45, J46, J47, J60, J61, J62, J63, J64, J65, J66, J67, J68, J70 | 3 |
| Coagulopathy | D65, D66, D67, D68, D69 | 3 |
| Congestive heart failure | I09, I11, I13, I25, I42, I43, I50, P29 | 7 |
| Deficiency anemias | D50, D51, D52, D53 | -2 |
| Depression | F20, F31, F32, F33, F34, F41, F43 | -3 |
| Diabetes [1] | E10, E11, E12, E13, E14, E10, E11, E12, E13, E14 | 0 |
| Drug abuse | F11, F12, F13, F14, F15, F16, F18, F19, Z71, Z72 | -7 |
| Fluid and electrolyte disorders | E22, E86, E87 | 5 |
| HIV/AIDS | B20, B21, B22, B24 | 0 |
| Hypertension [1] | I10, I11, I12, I13, I15 | 0 |
| Hypothyroidism | E00, E01, E02, E03, E89 | 0 |
| Liver disease | B18, I85, I86, I98, K70, K71, K72, K73, K74, K76, Z94 | 11 |
| Lymphoma | C81, C82, C83, C84, C85, C88, C90, C96 | 9 |
| Metastatic cancer | C77, C78, C79, C80 | 12 |
| Obesity | E66 | -4 |
| Neurological disorders | G10, G11, G12, G13, G20, G21, G22, G25, G31, G32, G35, G36, G37, G40, G41, G93, R47, R56 | 6 |
| Paralysis | G04, G11, G80, G81, G82, G83 | 7 |
| Peptic ulcer disease excluding bleeding | K25, K26, K27, K28 | 0 |
| Peripheral vascular disorders | I70, I71, I73, I77, I79, K55, Z95 | 2 |
| Psychoses | F20, F22, F23, F24, F25, F28, F29, F30, F31 | 0 |
| Pulmonary circulation disorders | I26, I27, I28 | 4 |
| Renal failure | I12, I13, N18, N19, N25, Z49, Z94, Z99 | 5 |
| Rheumatoid arthritis/collagen vascular diseases | L94, M05, M06, M08, M12, M30, M31, M32, M33, M34, M35, M45, M46 | 0 |

| | | |
|---|---|---|
| Solid tumor without metastasis | C00, C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C30, C31, C32, C33, C34, C37, C38, C39, C40, C41, C43, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C97 | 4 |
| Valvular disease | A52, I05, I06, I07, I08, I09, I34, I35, I36, I37, I38, I39, Q23, Z95 | -1 |
| Weight loss | E40, E41, E42, E43, E44, E45, E46, R63, R64 | 6 |

Notes:

1. Complicated and uncomplicated diabetes were combined as one condition. Likewise, complicated and uncomplicated hypertension were combined as one condition.