

CMS-HCC Risk Adjustment Model (V23)

ICD-10-CM to CMS-HCC Crosswalk

CMS-HCC Model

On April 2, 2018 the Centers for Medicare & Medicaid Services (CMS) announced an updated hierarchical condition category (HCC) risk adjustment model. The following HCCs were added to the model: Substance Use Disorder, Mild, Except Alcohol and Cannabis (HCC 56); Reactive and Unspecified Psychosis (HCC 58); Personality Disorders (HCC 60); Chronic Kidney Disease, Moderate (Stage 3) (HCC 138). Additionally, select drug and alcohol “poisoning” (overdose) codes were added to the existing “Drug/Alcohol Dependence,” to create “Substance Use Disorder, Moderate/Severe, or Substance Use with Complications” (HCC 55).

There are over 9,500 ICD-10-CM codes that map to one or more of the 83 HCC codes included in the 2019 CMS-HCC Risk Adjustment Model (Version 23). A code can map to more than one HCC as ICD-10-CM contains combination codes (*i.e.*, one code can represent two diagnoses or a diagnosis with a complication). This model will be used in calculating a Medicare Advantage (MA) member’s blended risk score.

Disease Hierarchy

The CMS-HCC Model incorporates disease hierarchies, in which payment will only be associated with the most severe manifestation of a disease. If another HCC in the hierarchy is reported in the same calendar year, then the lower severity HCC will be dropped. For example:

- If HCC 18 (diabetes with chronic complication) is reported, then HCC 19 (diabetes without complication) will be dropped if both are reported in the same calendar year
- Only HCC 18 will be used in calculating the Medicare Advantage member’s risk score

The table below contains a crosswalk of the ICD-10-CM codes that are included in the 2019 CMS-HCC Model (V23). The HCC(s) that will be dropped is identified in the disease hierarchy column. The table includes the HCC category descriptions, along with the HCC code and associated disease hierarchy.

*Note: The CMS-HCC (V23) model and mappings in the table below are subject to change with updates to the ICD-10-CM code set on October 1, 2018.

Over 9,500 ICD-10-CM
codes map to one or more

83 HCCs

ICD-10-CM Codes	HCC Category Description	HCC	Disease Hierarchy
B20, B97.35, Z21	HIV/AIDS	1	
A02.1, A20.7, A22.7, A26.7, A32.7, A39.2-A39.4, A40.-, A41.-, A42.7, A48.3, A54.86, B00.7, B37.7, P36.-, R57.1, R57.8, R65.1-, R65.2-, T81.12XA	Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/ Shock	2	
A07.2, A31.0, A31.2, B25.-, B37.1, B37.7, B37.81, B44.0-B44.7, B44.89, B44.9, B45.-, B46.-, B48.4, B48.8, B58.2, B58.3, B59	Opportunistic Infections	6	
C77.0-C77.2, C77.4-C77.8, C78.-, C79.00-C79.72, C79.89, C79.9, C7B.-, C80.0, C91.0-, C92.00-C92.02, C92.40-C92.A2, C93.0-, C94.00-C94.22, C94.40-C94.42, C95.0-	Metastatic Cancer and Acute Leukemia	8	9, 10, 11, 12
C15.-, C16.-, C17.-, C22.-, C23, C24.-, C25.-, C33, C34.-, C38.4, C45.-, C48.-, C90.00-C90.22, C92.10-C92.32, C92.9-, C92.Z-, C93.10-C93.92, C93.Z-, C94.30-C94.32, C94.80-C94.82	Lung and Other Severe Cancers	9	10, 11, 12
C40.-, C41.-, C46.-, C47.-, C49.-, C56.-, C57.00-C57.4, C58, C70.-, C71.-, C72.-, C74.-, C75.1-C75.3, C77.3, C77.9, C79.2, C79.81, C79.82, C81.-, C82.-, C83.-, C84.-, C85.-, C86.-, C88.2-C88.9, C90.3-, C91.-, C95.10-C95.92, C96.-	Lymphoma and Other Cancers	10	11, 12
C01, C02.-, C03.-, C04.-, C05.-, C06.-, C07, C08.-, C09.-, C10.-, C11.-, C12, C13.-, C14.-, C18.-, C19, C20, C21.-, C26.-, C30.-, C31.-, C32.-, C37, C38.0-C38.3, C38.8, C39.-, C51.-, C52, C53.-, C57.7-C57.9, C64.-, C65.-, C66.-, C67.-, C68.-	Colorectal, Bladder, and Other Cancers	11	12
C43.-, C44.-, C50.-, C54.-, C55, C60.-, C61, C62.-, C63.-, C69.-, C73, C75.0, C75.4-C75.9, C76.-, C7A.-, C80.1, C80.2, D03.-, D18.02, D32.-, D33.-, D35.2-D35.4, D42.-, D43.-, D44.3-D44.7, D49.6, E34.0, Q85.-	Breast, Prostate, and Other Cancers and Tumors	12	
E08.0-, E08.1-, E08.641, E09.0-, E09.1-, E09.641, E10.1-, E10.641, E11.0-, E11.1-, E11.641, E13.0-, E13.1-, E13.641	Diabetes with Acute Complications	17	18, 19
E08.21-E08.638, E08.649-E08.8, E09.21-E09.638, E09.649-E09.8, E10.21-E10.638, E10.649-E10.8, E11.21-E11.638, E11.649-E11.8, E13.21-E13.638, E13.649-E13.8	Diabetes with Chronic Complications	18	19
E08.9, E09.9, E10.9, E11.9, E13.9, Z79.4	Diabetes without Complication	19	
E40, E41, E42, E43, E44.0, E44.1, E45, E46, E64.0, R64	Protein-Calorie Malnutrition	21	
E66.01, E66.2, Z68.41, Z68.42, Z68.43, Z68.44, Z68.45	Morbid Obesity	22	
A39.1, C88.0, D84.1, D89.1, E03.5, E15, E20.0, E20.8, E20.9, E21.-, E22.-, E23.-, E24.-, E25.-, E26.-, E27.-, E31.-, E32.-, E34.4, E70.-, E71.-, E72.-, E74.00-E74.09, E74.20-E74.29, E74.4-E74.9, E75.21, E75.22, E75.240-E75.249, E75.3, E76.-, E77.-, E79.1-E79.9, E80.0-E80.3, E83.110, E85.-, E88.01, E88.4-, E88.89, E89.2, E89.3, E89.6, H49.811-H49.819, N25.1, N25.81	Other Significant Endocrine and Metabolic Disorders	23	
I85.-, K70.41, K71.11, K72.01-K72.91, K76.6, K76.7, K76.81	End-Stage Liver Disease	27	28, 29, 80
K70.30-K70.9, K74.3-K74.69	Cirrhosis of Liver	28	29
B18.-, K73.-, K75.4	Chronic Hepatitis	29	
A54.85, K25.1, K25.2, K25.5, K25.6, K26.1, K26.2, K26.5, K26.6, K27.1, K27.2, K27.5, K27.6, K28.1, K28.2, K28.5, K28.6, K50.012, K50.112, K50.812, K50.912, K51.012, K51.212, K51.312, K51.412, K51.512, K51.812, K51.912, K56.-, K59.31, K63.1, K65.-, K67, K68.12, K68.19	Intestinal Obstruction/ Perforation	33	
K86.0, K86.1	Chronic Pancreatitis	34	
K50.-, K51.-	Inflammatory Bowel Disease	35	
A01.04, A01.05, A02.23, A02.24, A39.83, A39.84, A50.55, A54.4-, A66.6, A69.23, B06.82, B26.85, B42.82, M00.-, M01.-, M02.1-, M02.8-, M02.9, M46.2-, M46.3-, M72.6, M86.-, M87.-, M89.6-, M90.5-	Bone/Joint/Muscle Infections/Necrosis	39	
L40.5-, M02.3-, M04.-, M05.-, M06.-, M08.-, M12.0-, M30.-, M31.0-M31.7, M32.-, M33.-, M34.-, M35.00-M35.3, M35.5, M35.8, M35.9, M36.0, M36.8, M45.-, M46.00-M46.1, M46.50-M46.99, M48.8X-, M49.8-	Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	40	
D46.-, D46.A, D46.B, D46.C, D46.Z, D47.4, D57.0-, D57.1, D57.2-, D57.4-, D57.8-, D59.-, D60.-, D61.0-, D61.1, D61.2, D61.3, D61.82, D61.9, D66, D67, D75.81	Severe Hematological Disorders	46	48
D61.8-, D70.-, D71, D72.0, D76.-, D80.-, D81.1-D81.7, D81.89, D81.9, D82.-, D83.-, D84.0, D84.8, D84.9, D89.3, D89.8-, D89.9	Disorders of Immunity	47	

ICD-10-CM Codes	HCC Category Description	HCC	Disease Hierarchy
C94.6, D45, D47.1, D47.3, D47.9, D47.Z, D55.-, D56.0-D56.2, D56.4-D56.8, D57.3, D58.-, D64.0-D64.3, D65, D68.-, D69.0-D69.49, D69.6-D69.9, D75.82	Coagulation Defects and Other Specified Hematological Disorders	48	
F10.150-F10.159, F10.231, F10.232, F10.250-F10.259, F10.26, F10.27, F10.950-F10.97, F11.15-, F11.25-, F11.95-, F12.15-, F12.25-, F12.95-, F13.15-, F13.231, F13.232, F13.250- F13.27, F13.931, F13.932, F13.950-F13.97, F14.15-, F14.25-, F14.95-, F15.15-, F15.25-, F15.95-, F16.15-, F16.25-, F16.95-, F18.17, F18.25-, F18.27, F18.95-, F18.97, F19.15-, F19.16, F19.17, F19.231, F19.232, F19.25-, F19.26, F19.27, F19.931, F19.932, F19.950-F19.97	Substance Use with Psychotic Complications	54	55, 56
F10.120-F10.129, F10.14, F10.18-, F10.19, F10.20, F10.21, F10.22-, F10.230, F10.239, F10.24, F10.28-, F10.29, F10.92-, F10.94, F10.98-, F10.99, F11.12-, F11.14, F11.18-, F11.19, F11.20, F11.21, F11.22-, F11.23, F11.24, F11.28-, F11.29, F11.92-, F11.93, F11.94, F11.98-, F11.99, F12.12-, F12.18-, F12.19, F12.20, F12.21, F12.22-, F12.28-, F12.29, F12.92-, F12.98-, F12.99, F13.12, F13.14, F13.18-, F13.19, F13.20, F13.21, F13.22-, F13.230, F13.239, F13.24, F13.28-, F13.29, F13.92-, F13.930, F13.939, F13.94, F13.98-, F13.99, F14.12-, F14.14, F14.18-, F14.19, F14.20, F14.21, F14.22-, F14.23, F14.24, F14.28-, F14.29, F14.92-, F14.94, F14.98-, F14.99, F15.12-, F15.14, F15.18-, F15.19, F15.20, F15.21, F15.22-, F15.23, F15.24, F15.28-, F15.29, F15.92-, F15.93, F15.94, F15.98-, F15.99, F16.12-, F16.14, F16.18-, F16.19, F16.20, F16.21, F16.22-, F16.24, F16.28-, F16.29, F16.92-, F16.94, F16.98-, F16.99, F18.12-, F18.14, F18.18, F18.19, F18.20, F18.21, F18.22-, F18.24, F18.28-, F18.29, F18.92-, F18.94, F18.98-, F18.99, F19.120-F19.129, F19.14, F19.18-, F19.19, F19.20, F19.21, F19.22-F19.230, F19.239, F19.24, F19.28-, F19.29, F19.92-, F19.930, F19.939, F19.94, F19.98-, F19.9, T40.0X1A, T40.0X4A, T40.1X1A, T40.1X4A, T40.2X1A, T40.2X4A, T40.3X1A, T40.3X4A, T40.4X1A, T40.4X4A, T40.5X1A, T40.5X4A, T40.601A, T40.604A, T40.691A, T40.694A, T40.8X1A, T40.8X4A, T40.901A, T40.904A, T40.991A, T40.994A, T43.601A, T43.604A, T43.611A, T43.614A, T43.621A, T43.624A, T43.631A, T43634A, T43.694A, T51.0X1A, T51.0X4A	Substance Use Disorder, Moderate/Severe, or Substance Use with Complications	55	56
F11.1-, F13.1-, F14.1-, F15.1-, F16.1-, F18.1-, F19.1-	Substance Use Disorder, Mild, Except Alcohol and Cannabis	56	
F20.-, F25.-	Schizophrenia	57	58, 59, 60
F23, F28, F29,	Reactive and Unspecified Psychosis	58	59, 60

ICD-10-CM Codes	HCC Category Description	HCC	Disease Hierarchy
F22, F24, F30.-, F31.-, F32.0-F32.8, F33.-, F34.-, F39, T14.91X(A)(D)(S), T36.0X2(A)(S), T36.1X2(A)(S), T36.2X2(A)(S), T36.3X2(A)(S), T36.4X2(A)(S), T36.5X2(A)(S), T36.6X2(A)(S), T36.7X2(A)(S), T36.8X2(A)(S), T36.9X2(A)(S), T37.0X2(A)(S), T37.1X2(A)(S), T37.2X2(A)(S), T37.3X2(A)(S), T37.4X2(A)(S), T37.5X2(A)(S), T37.8X2(A)(S), T37.9X2(A)(S), T38.0X2(A)(S), T38.1X2(A)(S), T38.2X2(A)(S), T38.3X2(A)(S), T38.4X2(A)(S), T38.5X2(A)(S), T38.6X2(A)(S), T38.7X2(A)(S), T38.802(A)(S), T38.812(A)(S), T38.892(A)(S), T38.902(A)(S), T38.992(A)(S), T39.012(A)(S), T39.092(A)(S), T39.1X2(A)(S), T39.2X2(A)(S), T39.312(A)(S), T39.392(A)(S), T39.4X2(A)(S), T39.8X2(A)(S), T39.92X(A)(S), T40.0X2(A)(S), T40.1X2(A)(S), T40.2X2(A)(S), T40.3X2(A)(S), T40.4X2(A)(S), T40.5X2(A)(S), T40.602 A)(S), T40.692 A)(S), T40.7X2(A)(S), T40.8X2(A)(S), T40.902(A)(S), T40.992(A)(S), T41.0X2(A)(S), T41.1X2(A)(S), T41.202(A)(S), T41.292(A)(S), T41.3X2(A)(S), T41.42X(A)(S), T41.5X2(A)(S), T42.0X2(A)(S), T42.1X2(A)(S), T42.2X2(A)(S), T42.3X2(A)(S), T42.4X2(A)(S), T42.5X2(A)(S), T42.6X2(A)(S), T42.72(A)(S), T42.8X2(A)(S), T43.012(A)(S), T43.022(A)(S), T43.1X2(A)(S), T43.202(A)(S), T43.212(A)(S), T43.222(A)(S), T43.292(A)(S), T43.3X2(A)(S), T43.4X2(A)(S), T43.502(A)(S), T43.592(A)(S), T43.602(A)(S), T43.612(A)(S), T43.622(A)(S), T43.632(A)(S), T43.692(A)(S), T43.8X2(A)(S), T43.9X2(A)(S), T44.0X2(A)(S), T44.1X2(A)(S), T44.2X2(A)(S), T44.3X2(A)(S), T44.4X2(A)(S), T44.5X2(A)(S), T44.6X2(A)(S), T44.7X2(A)(S), T44.8X2(A)(S), T44.902(A)(S), T44.992(A)(S), T45.0X2(A)(S), T45.1X2(A)(S), T45.2X2(A)(S), T45.3X2(A)(S), T45.4X2(A)(S), T45.512(A)(S), T45.522(A)(S), T45.602(A)(S), T45.612(A)(S), T45.622(A)(S), T45.692(A)(S), T45.7X2(A)(S), T45.8X2(A)(S), T45.92X(A)(S), T46.0X2(A)(S), T46.1X2(A)(S), T46.2X2(A)(S), T46.3X2(A)(S), T46.4X2(A)(S), T46.5X2(A)(S), T46.6X2(A)(S), T46.7X2(A)(S), T46.8X2(A)(S), T46.902(A)(S), T46.992(A)(S), T47.0X2(A)(S), T47.1X2(A)(S), T47.2X2(A)(S), T47.3X2(A)(S), T47.4X2(A)(S), T47.5X2(A)(S), T47.6X2(A)(S), T47.7X2(A)(S), T47.8X2(A)(S), T47.92X(A)(S), T48.0X2(A)(S), T48.1X2(A)(S), T48.202(A)(S), T48.292(A)(S), T48.3X2(A)(S), T48.4X2(A)(S), T48.5X2(A)(S), T48.6X2(A)(S), T48.902(A)(S), T48.992(A)(S), T49.0X2(A)(S), T49.1X2(A)(S), T49.2X2(A)(S), T49.3X2(A)(S), T49.4X2(A)(S), T49.5X2(A)(S), T49.6X2(A)(S), T49.7X2(A)(S), T49.8X2(A)(S), T49.92X(A)(S), T50.0X2(A)(S), T50.1X2(A)(S), T50.2X2(A)(S), T50.3X2(A)(S), T50.4X2(A)(S), T50.5X2(A)(S), T50.6X2(A)(S), T50.7X2(A)(S), T50.8X2(A)(S), T50.902(A)(S), T50.992(A)(S), T50.A12(A)(S), T50.A22(A)(S), T50.A92(A)(S), T50.B12(A)(S), T50.B92(A)(S), T50.Z12(A)(S), T50.292(A)(S), T51.0X2(A)(S), T51.1X2(A)(S), T51.2X2(A)(S), T51.3X2(A)(S), T51.8X2(A)(S), T51.92X(A)(S), T52.0X2(A)(S), T52.1X2(A)(S), T52.2X2(A)(S), T52.3X2(A)(S), T52.4X2(A)(S), T52.8X2(A)(S), T52.92X(A)(S), T53.0X2(A)(S), T53.1X2(A)(S), T53.2X2(A)(S), T53.3X2(A)(S), T53.4X2(A)(S), T53.5X2(A)(S), T53.6X2(A)(S), T53.7X2(A)(S), T53.92X(A)(S), T54.0X2(A)(S), T54.1X2(A)(S), T54.2X2(A)(S), T54.3X2(A)(S), T54.92X(A)(S), T54.0X2(A)(S), T55.0X2(A)(S), T55.1X2(A)(S), T56.0X2(A)(S), T56.1X2(A)(S), T56.2X2(A)(S), T56.3X2(A)(S), T56.4X2(A)(S), T56.5X2(A)(S), T56.6X2(A)(S), T56.7X2(A)(S), T56.812(A)(S), T56.892(A)(S), T57.0X2(A)(S), T57.1X2(A)(S), T57.2X2(A)(S), T57.3X2(A)(S), T57.8X2(A)(S), T57.92X(A)(S), T58.02X(A)(S), T58.12X(A)(S), T58.2X2(A)(S), T58.8X2(A)(S), T58.92X(A)(S), T59.0X2(A)(S), T59.1X2(A)(S), T59.2X2(A)(S), T59.3X2(A)(S), T59.4X2(A)(S), T59.5X2(A)(S), T59.6X2(A)(S), T59.7X2(A)(S), T59.812(A)(S), T59.892(A)(S), T59.92X(A)(S), T60.0X2(A)(S), T60.1X2(A)(S), T60.2X2(A)(S), T60.3X2(A)(S), T60.4X2(A)(S), T60.8X2(A)(S), T60.92X(A)(S), T61.02X(A)(S), T61.12X(A)(S), T61.772(A)(S), T61.782(A)(S), T61.8X2(A)(S), T61.92X(A)(S), T62.0X2(A)(S), T62.1X2(A)(S), T62.8X2(A)(S), T62.92X(A)(S), T63.002(A)(S), T63.012(A)(S), T63.022(A)(S), T63.032(A)(S), T63.042(A)(S), T63.062(A)(S), T63.072(A)(S), T63.082(A)(S), T63.092(A)(S), T63.112(A)(S), T63.122(A)(S), T63.192(A)(S), T63.2X2(A)(S), T63.302(A)(S), T63.312(A)(S), T63.322(A)(S), T63.332(A)(S), T63.392(A)(S), T63.412(A)(S), T63.422(A)(S), T63.432(A)(S), T63.442(A)(S), T63.452(A)(S), T63.462(A)(S), T63.482(A)(S), T63.512(A)(S), T63.592(A)(S), T63.612(A)(S), T63.622(A)(S), T63.632(A)(S), T63.692(A)(S), T63.712(A)(S), T63.792(A)(S), T63.812(A)(S), T63.822(A)(S), T63.832(A)(S), T63.892(A)(S), T63.92X(A)(S), T64.02X(A)(S), T64.82X(A)(S), T65.0X2(A)(S), T65.1X2(A)(S), T65.212(A)(S), T65.222(A)(S), T65.292(A)(S), T65.3X2(A)(S), T65.4X2(A)(S), T65.5X2(A)(S), T65.6X2(A)(S), T65.812(A)(S), T65.822(A)(S), T65.832(A)(S), T65.892(A)(S), T65.92X(A)(S), T71.112(A)(S), T71.122(A)(S), T71.132(A)(S), T71.152(A)(S), T71.162(A)(S), T71.192(A)(S), T71.222(A)(S), T71.232(A)(S), X71.-(A)(D)(S), X72.-(A)(D)(S), X73.-(A)(D)(S), X74.-(A)(D)(S), X75.-(A)(D)(S), X76.-(A)(D)(S), X77.-(A)(D)(S), X78.-(A)(D)(S), X79.-(A)(D)(S), X80.-(A)(D)(S), X81.-(A)(D)(S), X82.-(A)(D)(S), X83.-(A)(D)(S)	Major Depressive, Bipolar, and Paranoid Disorders	59	60
F21, F44.0, F44.1, F44.81, F48.1, F60.0-F60.9 G82.5-, R53.2, S14.11-(A)(D)(S)	Personality Disorder	60	
G82.20-G82.22, S24.11-(A)(D)(S)	Quadriplegia	70	71, 72, 103, 104, 169
	Paraplegia	71	72, 104, 169

ICD-10-CM Codes	HCC Category Description	HCC	Disease Hierarchy
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Resources

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