



Type 2 Diabetes HCC Coding & SDOH

Kevin Hughes, M.D.
Rikki Oh D.O., M.S.
Amber Bauer, CPC, CEMC
Jennifer Rhoney, MS, BSN, RN
Amanda Clayson, LMSW, CTMH

November 9, 2023

DM2 HCC Coding and SDOH Discussion Objectives



By the end of this didactic session the learner should be able to:

- Delineate and Apply “Controlled” and “With Hyperglycemia” DM2 HCC Codes and Specify Insulin Use
- Define Causal Relationship
- Distinguish and Employ DM2 Related Complication HCC Codes with Correct use of Causal Relationship
- Identify DM2 SDOH and Apply GLIN Care Management Resources
- Utilize DM2 Associated Management and SDOH Z-Codes

DM2 HCC Coding Risk Adjustment Implications



- Significant risk adjustment implications due to improper DM2 HCC coding
- Improper DM2 coding is associated with provider misunderstanding of causal relationship and DM2 with complications ICD-10 diagnosis codes
- ICD-10 codes for DM2 with complications carry a Risk Adjustment Factor (RAF) higher than diabetes uncomplicated (E11.9)
- Improper DM2 HCC coding results in an incorrect depiction of the true degree of burden of illness which can have significant financial implications

Prediabetes Coding



ICD-10 Code:	Description
R73.01	Impaired fasting glucose
R73.02	Impaired glucose tolerance (oral)
R73.03	Prediabetes
R73.09	Other abnormal glucose
R73.9	Hyperglycemia, unspecified

Diabetes HCC Coding



- Multiple Codes for Diabetes
 - E08 - E13
- Use E11.xx Codes for DM2

ICD-10 Code:	Description
E08	Diabetes mellitus due to underlying condition
E09	Drug or chemical induced diabetes mellitus
E10	Type 1 diabetes mellitus
E11	Type 2 diabetes mellitus
E13	Other specified diabetes mellitus



Controlled DM2 vs DM2 With Hyperglycemia

DM2 Without Complication:

A1C 6.5-7.0

- Controlled = Without Complication

DM2 With Hyperglycemia:

A1C >7.0

- Uncontrolled = WITH HYPERGLYCEMIA
- **Uncontrolled is NO LONGER USED**

ICD-10 Codes:	Description	Specification
E11.9	DM2 Without Complication	Specify: With or Without long term current use of Insulin
E11.65	DM2 With Hyperglycemia	

DM2 Management Z Codes



ICD-10 Code:	Description
Z79.4	Current Use of Insulin
Z79.84	Long Term Current Use of Oral Hypoglycemic Drug
Z79.85	Long Term Current Use of Injectable Non-insulin Antidiabetic Drug

Causal Relationship (CR)



ICD-10-CM guidelines, Section I. A.15

“The classification presumes a causal relationship between the two conditions linked by these terms [i.e., “with”] in the Alphabetic Index or Tabular List.”

What Does This Mean?

1. You may presume a relationship between two conditions
2. Those conditions need to be linked within the ICD-10-CM Alphabetic Index /Tabular list
3. Documentation does not need to explicitly state that the two conditions are related

Causal Relationship Example



Type 2 Diabetes Mellitus & Chronic Kidney Disease Stage 3

Both Conditions are coded together (assumed relationship)

- a. E11.22- Type 2 diabetes mellitus with diabetic chronic kidney disease
AND
- b. N18.3 Chronic kidney disease, stage 3 (Needed for CKD Staging)

**** Both DM2 with Chronic Kidney Disease AND CKD Stage 3 ARE Coded****

Causal Relationship Exceptions



Cannot code conditions together if

- Documentation indicates two conditions are not related to one another
- If a term (condition) is not listed under the Alphabetic Index or Tabular List and the clinician's documentation does not clearly indicate that the two conditions are related

Caution with Coding Certain Diagnoses Together



“Not elsewhere classifiable” (NEC) diagnoses

Kidney complication NEC or ophthalmic complication NEC

Ex: DM2 and Glaucoma without causal relationship documentation

- Inappropriate to use the E11.39 Type 2 diabetes mellitus with other diabetic ophthalmic complication and H40.9 Unspecified glaucoma
 - Glaucoma is not a term found in the CR ICD-10-CM conventions & guidelines
 - Clinician documentation does not link the two together

DM2 Causal Relationships



DM2 HCC Codes WITH Causal Relationships

Code	Description	Code	Description
E11.2x	DM2 with Kidney Complications	E11.6x	DM2 with Other Complications
E11.3x	DM2 with Ophthalmic Complications	E11.8x	DM2 with Unspecified Complications
E11.4x	DM2 with Neurological Complications	Note: - “X” refers to more specific diagnoses within that Category	
E11.5x	DM2 with Circulatory Complications		

<https://www.aapc.com/codes/icd-10-codes/E11.21>

DM2 Related Condition: Kidney



Description	Codes	Additional codes
DM2 with diabetic nephropathy	E11.21	
DM2 with chronic kidney disease	E11.22	N18.x CKD Stage (x)
DM2 with other diabetic kidney complication diabetic nephropathy	E11.29	

DM2 Related Condition: Ophthalmic



Description	Codes
DM2 with unspecified diabetic retinopathy	E11.31
DM2 with Diabetic Cataract	E11.36

****Note That there is NO Causal Relationship Between DM2 and Glaucoma****

DM2 Related Condition: Neuropathy



Description	Codes	Considerations
DM2 with diabetic neuropathy unspecified	E11.40	
DM2 with diabetic mononeuropathy	E11.41	Affecting one nerve, unilateral extremity
DM2 with diabetic polyneuropathy	E11.42	Affecting more than one nerve, bilateral extremity
DM2 with diabetic autonomic (poly)neuropathy	E11.43	Gastroparesis, orthostatic hypotension

DM2 Related Condition: Circulatory



Description	Codes
DM2 with diabetic peripheral angiopathy without gangrene	E11.51
DM2 with diabetic peripheral angiopathy with gangrene	E11.52
DM2 with other diabetic circulatory complication	E11.59

DM2 Related Other Complications



Code	Description
E11.61x	DM2 with diabetic Arthropathy
E11.62x	DM2 with diabetic Skin Complications
E11.63x	DM2 with diabetic Oral Complications
E11.64x	DM2 with Hypoglycemia

DM2 with Diabetic Arthropathy



Code	Description
E11.610	DM2 with diabetic neuropathic Arthropathy
E11.618	DM2 with other diabetic Arthropathy

DM2 Skin Complications: Ulcers



Code	Description	Additional Codes
E11.621	DM2 with Foot Ulcer	Use Codes to Identify Site of Ulcer: <ul style="list-style-type: none">• L97.4 - Non-pressure chronic ulcer of heel and midfoot• L97.5 - Non-pressure chronic ulcer of other part of foot

DM2 Skin Complications: Ulcers



Code	Description	Additional Codes
E11.622	DM2 with Other Skin Ulcer	<p>Use Codes to Identify Site of Ulcer:</p> <ul style="list-style-type: none">• L97.1- “Non-pressure chronic ulcer of” thigh• L97.2- “” calf• L97.3- “” ankle• L97.8- “” other part of lower leg• L97.9- “” unspecified part of lower leg• L98.41- “” buttock• L98.41- “” back• L98.49- “” other skin site

DM2 with Diabetic Oral Complications



Code	Description
E11.630	DM2 with diabetic Periodontal Disease
E11.638	DM2 with Other Oral Complications

DM2 with Other Specified Complications



Code	Description	Additional Code
E11.69	DM2 with Erectile Dysfunction	<ul style="list-style-type: none">• N52.1- Erectile dysfunction due to diseases classified elsewhere

DM2 Meat Example



Monitor	Evaluate	Assess	Treat
Signs, symptoms, disease progression e.g. Patient has had increased urinary frequency and thirst	Present state of condition e.g. Home blood glucose monitoring readings are elevated ranging between 200 - 250	Discussion of chronic condition e.g. Controlled DM2, encouraged continued importance of adhering to diabetic medication regimen, and following healthy diet and exercise regimen	Care provided for the condition e.g. Increased dose of Trulicity to 4.5mg sq once weekly

DM2 HCC Coding Pitfalls



1. Improper Utilization of “Controlled” and “Uncontrolled, ” rather than “Without Complication” or “ With Hyperglycemia”
2. Missing DM2 Management Z Codes (Current Use of ...):
(Insulin, Injectable Non-insulin Antidiabetic and Oral Hypoglycemic Drugs)
3. NOT Utilizing the “Diabetes WITH Complications” HCC Codes through proper Understanding of Causal Relationship
4. Large Changes in HCC Coding Practices MAY PROMPT AUDITS, therefore Understanding and Proper Use of Diabetes With Complication Codes and Good MEAT Documentation is Essential
5. Missing Additional “Specified” DM2 with Complication HCC codes

GLIN IPA HCC Coding Department



Amber Bauer, CPC, CEMC

Coding Auditor & Education Coordinator

c. (716) 997-8830 | f. (716) 512-7698

coding@glin.com | glin.com



SDOH: DM₂

November 9, 2023



- SDOH factors are associated with greater risk for diabetes, higher population prevalence, and poorer diabetes outcomes
- DM2 and its complications are strongly influenced by health inequities and SDOH
- SDOH are not consistently recognized and often go undiscussed in the clinical encounter
- Important that healthcare providers understand the significance health inequities and address SDOH



(SDoH)

Social Determinants of Health



“Within the past 12 months, did you worry that your food would run out before you got money to buy more, or did the food you bought not last and you weren’t able to get more?”

DM2: Food Insecurity



- Unreliable availability of nutritious food and the inability to consistently obtain food without resorting to socially unacceptable practice
- Twofold increased risk for DM2 in those with food insecurity
- Higher Rate in racial/ethnic minority groups (African American, Latino), and low-income households
- Worse glycemic management, with more DM2 related complications

DM2: Food Insecurity and Patient Behavior



Corner Marts/Bodega Use

- More affordable food options
- Limited grocery store accessibility
- Limited transportation

Fast Food Consumption

- More easily accessible & affordable

Food Pantry Use

- Limited fresh nutritious options
- Increased consumption of high carb & sugar based foods
- Increased processed foods
- Produce is of limited access (not free, but at affordable cost)

DM2 Food Insecurity: Interventions



- Utilize the GLIN IPA Care Management Resource Guide (DM2 Specific)
- Referral to other appropriate local community resources
 - Health coaches, Healthcare Navigators, Community Health Workers
- Provide self-management support from community services

GLIN:IPA
GLIN Care Management Resource Guide

<https://www.glin.com/population-health/#care>

DM2 Food Insecurity: Interventions



- Local farmers markets
- Local food pantry programs
- Mobile food pantry programs
- Budgeting applications & tools

Online Links to Finding Food Insecurity Resources

- 211 WNY
- Findhelp.org
- Local Food Pantry Locator Resource-FeedMore WNY

<https://www.211wny.org/>

<https://www.feedmorewny.org/programs-services/find-food/pantry-locator/>

DM2 and SDOH: Diabetic Management



- Cost effective medications
 - Metformin, SU, TZD
- Coverage gaps
 - High deductible commercial plans - Copay cards
 - Medicare “donut hole” - Elderly Pharmaceutical Insurance Coverage (EPIC) Program
- Patient assistance programs (PAP)
- Reduced cost programs
- Insulin cost cap
- Diabetic supplies
 - Specific Insurance Glucometer Coverage
 - Affordable & Free Supplies

Contact your GLIN IPA Pharmacy and Care Management Teams with patient-specific cases

Care Management Interdisciplinary Team



Can Assist With

- Complex Care Management
- Transitions of Care
- Condition Specific Education
- Behavioral Health Needs
- SDOH
- Linkage to Community Resources
- Provider Collaboration
- DME Coordination



<https://www.glin.com/population-health/#care>

GLIN IPA Care Management Team



Director

Jennifer Rhoney, MS, BSN, RN

rhoney.jennifer@glin.com

Operations Manager

Amanda Clayson, LMSW, CTMH

clayson.amanda@glin.com

716-800-CARE (2273) Option #3

caremanagement@glin.com

Each POD consists of (2) RN Care Managers, (1) Social Worker, (2) Care Coordinators

Care Coordinators

- Nicole Quiros
- Bella Wilklow
- Robin Meister

Social Work

- Chanil Gift, LMSW
- Stacie Arnts, LMSW

Nurses

- Maryellen Morgan, RN
- Adam Rydzynski, RN
- Leslie Fisher, RN
- Samantha Orleman, RN



SDOH: Z Codes

November 9, 2023

DM2 Associated SDOH Z Codes



PRAPARE SDOH Domains/Constructs	ICD-10 Z Codes	Z Code Description
Housing	Z59.0	Homelessness
Food Insecurity	Z59.4	Lack of Adequate Food
Financial Insecurity	Z59.5	Extreme Poverty
Financial Insecurity	Z59.6	Low Income
Housing / Financial Insecurity	Z59.9	Problem Related to Housing and Economic Circumstances, unspecified

DM2 Associated SDOH Z Codes



PRAPARE SDOH Domains/Constructs	ICD-10 Z Codes	Z Code Description
Education	Z55.0	Illiteracy and Low Level Literacy
Education	Z55.5	Less Than High School Diploma
Education	Z55.6	Problems Related to Health Literacy
Employment Insecurity	Z56.0	Unemployment
Dependant Care	Z63.6	Dependent Relative Needing Care at Home

DM2 Associated SDOH Z Codes



PRAPARE SDOH Domains/Constructs	ICD-10 Z Codes	Z Code Description
Transportation	Z75.3	Unavailability and inaccessibility of health-care facilities
Transportation	Z75.4	Unavailability and inaccessibility of other helping agencies

Conclusion: DM2 HCC Coding



- Proper DM2 HCC Coding has significant risk adjustment implications regarding the true degree of burden of illness and has significant financial implications
- Utilize DM2 E11 HCC Codes to appropriately define Controlled DM2 vs DM2 With Hyperglycemia, and DM2 Management Z Codes
- Employ Causal Relationship Appropriately for DM2 with complications diagnoses, but **Beware of Pitfalls**, and include good MEAT Documentation
- Utilize appropriate Additional “Specified” Codes relative to certain DM2 with complication diagnosis (Eg: DM2 with CKD)

Conclusion: DM2 SDoH



- DM2 and its complications are strongly influenced by health inequities and SDOH
- Important that healthcare providers understand the significance of SDOH and its alignment with the goals of the ACO REACH Model
- Employ population based SDOH screening, assessment, and implementation of individualized treatment plans that align with patient needs and goals
- Utilize the GLIN IPA Care Management and Pharmacy Teams and their resources to assist with DM2 SDOH concerns, and other available online resources outlining community assistance programs

References



- “ICD-10-CM Code for Prediabetes R73.03.” ICD-10 Code for Prediabetes- R73.03- Codify by AAPC, www.aapc.com/codes/icd-10-codes/R73.03. Accessed 23 Oct. 2023.
- “Diabetes Mellitus ICD-10-CM Code Range E08-E13.” Diabetes Mellitus - ICD-10 Codes- Codify by AAPC, www.aapc.com/codes/icd-10-codes-range/E00-E89/E08-E13/E11/. Accessed 23 Oct. 2023.
- Nicoletti, Betsy. “Diabetes Coding in Hierarchical Condition Coding (HCC).” CodingIntel, 3 Apr. 2023, codingintel.com/diabetes-coding-hierarchical-condition-coding-hcc/.
- Make the Connection “with” Causal Relationships - AAPC, www.aapc.com/blog/45882-make-the-connection-with-causal-relationships/. Accessed 24 Oct. 2023.
- Standards in Medical Care of Diabetes 2023. American Diabetes Association. 2023;46.

Post Survey Questions



Thank You



Upcoming Discussions

Topic	Date	Time
SDOH	December 7, 2023	12:30-1:15 p.m.

