

RUG-III v. 5.12 with MDS 2.0 and MDS 3.0
October 1, 2013

Pennsylvania converted to the RUG-III 5.12 classification system and use of the latest assessment for picture dates used in Medical Assistance rate setting beginning July 1, 2010. At that time, this calculation used responses from MDS 2.0.

On October 1, 2010, nursing facilities were required by federal regulation to use and submit MDS 3.0. Since many states use the RUG-III 5.12 system for Medicaid payment, CMS provided a detailed crosswalk to enable states to use MDS 3.0 item responses in their current classification software which was based on MDS 2.0. This crosswalk may be found at http://www.cms.hhs.gov/NursingHomeQualityInits/30_NHQIMDS30TechnicalInformation.asp#TopOfPage

The table below first lists the MDS 2.0 and MDS 3.0 items used in calculating the RUG ADL Score and then those used in Nursing Restorative Programs. These items affect several RUG categories. The table then presents the seven major RUG categories and lists the MDS items used in classification from both the MDS 2.0 and MDS 3.0.

In order to run a RUG classification program, all needed MDS item responses are placed in a classification table. Unless otherwise noted, the MDS 3.0 item response is inserted in the RUG-III classification table just as reported on the form. For example, a 3 in an ADL Self-Performance item will be carried over as a 3. A checkmark (submitted as a 1) in the Active Diagnosis list will be carried over as a 1. Any exceptions are noted in the Coding Comments column. Once all MDS 3.0 item responses are entered in the classification table, the grouper will be implemented just as it would be if the responses had come from MDS 2.0. The goal is to replicate the MDS 2.0 classification results using MDS 3.0 responses.

If the resident had an MDS 2.0 and an MDS 3.0 completed on the same day, using the crosswalk to substitute MDS 3.0 item responses for MDS 2.0 responses in the classification program will generally result in the same RUG classification. There may be occasional discrepancies: a resident may be deemed Depressed based on the MDS 2.0 system using Section E1 responses, but not be identified as Depressed using the MDS 3.0 PHQ-9© score or vice versa. The classification system remains the same, only the items from which the responses are identified change.

CMS has continued to refine MDS 3.0. This version of the comparison document reflects item changes up to and including the October 1, 2013 updates.

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Calculate RUG ADL Score	G1aA Bed Mobility Self-Perf.	G0110A1 Bed Mobility Self-Perf.	If the item response on MDS 3.0 was a 7 Activity occurred only once or twice, a 0 Independent is entered in the classification table.
	G1aB Bed Mobility Support	G0110A2 Bed Mobility Support	
	G1bA Transfer Self-Perf.	G0110B1 Transfer Self-Perf.	If the item response on MDS 3.0 was a 7 Activity occurred only once or twice, a 0 Independent is entered in the classification table.
	G1bB Transfer Support	G0110B2 Transfer Support	
	G1hA Eating Self-Perf.	G0110H1 Eating Self-Perf.	If the item response on MDS 3.0 was a 7 Activity occurred only once or twice, a 0 Independent is entered in the classification table.
	G1iA Toileting Self-Perf.	G0110I1 Toileting Self-Perf.	If the item response on MDS 3.0 was a 7 Activity occurred only once or twice, a 0 Independent is entered in the classification table.
	G1iB Toileting Support	G0110I2 Toileting Support	
	K5a Parenteral/IV	K0510A1 Parenteral/IV while NOT a resident K0510A2 Parenteral/IV while a resident	If either K0510A1 or K0510A2 is checked, a 1 is entered in the classification table.
	K5b Feeding Tube	K0510B1 Feeding Tube while NOT a resident K0510B2 Feeding Tube while a resident	If either K0510B1 or K0510B2 is checked, a 1 is entered in the classification table.
	K6a Total calories	K0710A3 Total calories	
K6b Fluid intake	K0710B3 Fluid intake		
Nursing Restorative Programs	H3a Any scheduled toileting plan	H0200C Current toileting program	
	H3b Bladder retraining program	H0500 Bowel training program	
	P3a PROM	O0500A PROM	
	P3b AROM	O0500B AROM	

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Nursing Restorative Programs	P3c Splint or Brace assistance	O0500C Splint or Brace assistance	
	P3d Bed mobility	O0500D Bed mobility	
	P3e Transfer	O0500E Transfer	
	P3f Walking	O0500F Walking	
	P3g Dressing or Grooming	O0500G Dressing and/or Grooming	
	P3h Eating or Swallowing	O0500H Eating and/or Swallowing	
	P3i Amputation/prosthesis care	O0500I Amputation/prosthesis care	
	P3j Communications	O0500J Communication	
Special Rehabilitation	P1baA Speech therapy - days	O0400A4 Speech therapy - days	
	P1baB Speech therapy - minutes	O0400A1 ST Individual minutes O0400A2 ST Concurrent minutes O0400A3 ST Group minutes	Individual, Concurrent and Group therapy minutes are added. The total is entered in the classification table.
	P1bbA Occupational therapy - days	O0400B4 Occupational therapy - days	
	P1bbB Occupational therapy - minutes	O0400B1 OT Individual minutes O0400B2 OT Concurrent minutes O0400B3 OT Group minutes	Individual, Concurrent and Group therapy minutes are added. The total is entered in the classification table.
	P1bcA Physical therapy - days	O0400C4 Physical therapy - days	
	P1bcB Physical therapy - minutes	O0400C1 PT Individual minutes O0400C2 PT Concurrent minutes O0400C3 PT Group minutes	Individual, Concurrent and Group therapy minutes are added. The total is entered in the classification table.
Extensive Services	K5a Parenteral/IV	K0510A1 Parenteral/IV while NOT a resident K0510A2 Parenteral/IV while a resident	If either K0510A1 or K0510A2 is checked, a 1 is entered in the classification table.
	P1ac IV medication	O0100H1 IV medication while NOT a resident O0100H2 IV medication while a resident	If either O0100H1 or O0100H2 is checked, a 1 is entered in the classification table.
	P1ai Suctioning	O0100D1 Suctioning while NOT a resident O0100D2 Suctioning while a resident	If either O0100D1 or O0100D2 is checked, a 1 is entered in the classification table.
	P1aj Tracheostomy care	O0100E1 Tracheostomy care while NOT a resident	If either O0100E1 or O0100E2 is checked, a 1 is entered in the classification table.

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Extensive Services		O0100E2 Tracheostomy care while a resident	
	P1a1 Ventilator or respirator	O0100F1 Ventilator or respirator while NOT a resident O0100F2 Ventilator or respirator while a resident	If either O0100F1 or O0100F2 is checked, a 1 is entered in the classification table.
Special Care	I1r Aphasia	I4300 Aphasia	
	I1s Cerebral palsy	I4400 Cerebral palsy	
	I1w Multiple sclerosis	I5200 Multiple sclerosis	
	I1z Quadriplegia	I5100 Quadriplegia	
	I2e Pneumonia	I2000 Pneumonia	
	J1c Dehydration	J1550C Dehydrated	
	J1h Fever	J1550A Fever	
	J1o Vomiting	J1550B Vomiting	
	K3a Weight loss	K0300 Weight loss	If K0300 is coded 1 Yes on physician prescribed weight loss regimen or 2 Yes not on physician prescribed weight loss regimen, a 1 is entered in the classification table.
	K5b Feeding tube	K0510B1 Feeding Tube while NOT a resident K0510B2 Feeding Tube while a resident	If either K0510B1 or K0510B2 is checked, a 1 is entered in the classification table.
	K6a Total calories	K0710A3 Total calories	
	K6b Fluid intake	K0710B3 Fluid intake	
	M1a Stage 1 ulcers	M0300A # of Stage 1 ulcers M1030 # of Venous and arterial ulcers	To match MDS 2.0, number of venous and arterial ulcers are added to the Stage 1 count and entered in the classification table.. In addition, some differences in count may occur because MDS 3.0 does not use reverse staging.
	M1b Stage 2 ulcers	M0300B1 # of Stage 2 pressure ulcers	
	M1c Stage 3 ulcers	M0300C1 # of Stage 3 pressure ulcers	
M1d Stage 4 ulcers	M0300D1 # of Stage 4 pressure ulcers M0300F1 # of Unstageable pressure	To match MDS 2.0, the number of Stage 4 pressure ulcers and Unstageable pressure	

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Special Care		ulcers due to slough/eschar	ulcers due to slough/eschar are added and entered in the classification table.
	M2a Highest stage of pressure ulcer	M0300A # of Stage 1 ulcers M0300B1 # of Stage 2 pressure ulcers M0300C1 # of Stage 3 pressure ulcers M0300D1 # of Stage 4 pressure ulcers M0300F1 # of Unstageable pressure ulcers due to slough/eschar	Highest stage of pressure ulcer is identified from these five item responses and entered in the classification table.
	M5a Pressure relieving device - chair	M1200A Pressure reducing device – chair	
	M5b Pressure relieving device - bed	M1200B Pressure reducing device – bed	
	M5c Turning/repositioning program	M1200C Turning/repositioning program	
	M5d Nutrition/hydration intervention	M1200D Nutrition/hydration intervention	
	M5e Ulcer care	M1200E Ulcer care	
	M5f Surgical wound care	M1200F Surgical wound care	
	M5g Dressings (not feet)	M1200G Dressings (not feet)	
	M5h Ointments/medications (not feet)	M1200H Ointments/medications (not feet)	
	P1ah Radiation treatment	O0100B1 Radiation while NOT a resident O0100B2 Radiation while a resident	If either O0100B1 or O0100B2 is checked, a 1 is entered in the classification table.
	P1bdA Respiratory therapy	O0400D2 Respiratory therapy - Days	
Clinically Complex	B1 Comatose	B0100 Persistent vegetative state/no discernible consciousness	
	G1aA Bed Mobility Self-Perf.	G0110A1 Bed Mobility Self-Perf.	If the code on an MDS 3.0 Self-performance item was a 7 Activity occurred only once or twice, a 0 Independent is entered in the classification table.
	G1bA Transfer Self-Perf.	G0110B1 Transfer Self-Perf.	
	G1hA Eating Self-Perf.	G0110H1 Eating Self-Perf.	
	G1iA Toileting Self-Perf.	G0110I1 Toileting Self-Perf.	
	I1a Diabetes mellitus	I2900 Diabetes Mellitus	
	I1v Hemiplegia/Hemiparesis	I4900 Hemiplegia or Hemiparesis	
	I2e Pneumonia	I2000 Pneumonia	
	I2g Septicemia	I2100 Septicemia	

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Clinically Complex	J1c Dehydrated	J1550C Dehydrated	
	J1j Internal bleeding	J1550D Internal bleeding	
	K5b Feeding tube	K0510B1 Feeding Tube while NOT a resident K0510B2 Feeding Tube while a resident	If either K0510B1 or K0510B2 is checked, a 1 is entered in the classification table.
	K6a Total calories	K0710A3 Total calories	
	K6b Fluid intake	K0710B3 Fluid intake	
	M4b Burns (second or third degree)	M1040F Burn(s) (second or third degree)	
	M6b Infection of the foot	M1040A Infection of the foot	
	M6c Open lesions on the foot	M1040B Diabetic foot ulcer(s) M1040C Other open lesions on foot	If either M1040B or M1040C is checked, a 1 is entered in the classification table
	M6f Application of (foot) dressings	M1200I Application of dressings to feet	
	N1a-c Not awake	No comparable items	If B0100 Persistent vegetative state/no discernible consciousness = 1, a 0 is entered in N1a-c in the classification table. Otherwise, N1a-c are coded 1.
	O3 Injections	N0300 Injections	
	P1aa Chemotherapy	O0100A1 Chemotherapy while NOT a resident O0100A2 Chemotherapy while a resident	If either O0100A1 or O0100B2 is checked, a 1 is entered in the classification table
	P1ab Dialysis	O0100J1 Dialysis while NOT a resident O0100J2 Dialysis while a resident	If either O0100J1 or O0100J2 is checked, a 1 is entered in the classification table
	P1ag Oxygen therapy	O0100C1 Oxygen therapy while NOT a resident O0100C2 Oxygen therapy while a resident	If either O0100C1 or O0100C2 is checked, a 1 is entered in the classification table
	P1ak Transfusions	O0100I1 Transfusions while NOT a resident O0100I2 Transfusions while a resident	If either O0100I1 or O0100I2 is checked, a 1 is entered in the classification table
P7 Physician visits	O0600 Physician Examinations		

Category	MDS 2.0 Item	MDS 3.0 Item	Coding Comments
Clinically Complex	P8 Physician orders	O0700 Physician Orders	
Depressed?	E1a-p Indicators of Depression	D0300 PHQ-9© Resident Assessment Total Severity Score D0600 PHQ-9-OV© Staff Assessment Total Severity Score	If either of the PHQ-9© scores (Resident or Staff) is 10 or greater, it is considered equivalent to a count of 3 or more items from E1a-p. The resident is considered Depressed for RUG classification purposes.
Impaired Cognition		C0500 Brief Interview for Mental Status (BIMS) Summary Score	Cognitive impairment identified if BIMS score is 9 or less. If the resident was unable to complete this interview, the Cognitive Performance Scale is calculated using B0700, C0700, and C1000 to identify Cognitive impairment.
	B2a Short term memory	C0700 Short term memory (staff assessment)	
	B4 Cognitive skills for daily decision making	C1000 Cognitive skills for daily decision making (staff assessment)	
	C4 Making self understood	B0700 Makes self understood	
Behavior Problems	E4aA Wandering	E0900 Wandering	
	E4bA Verbally abusive	E0200B Verbal behavioral symptoms directed towards others	
	E4cA Physically abusive	E0200A Physical behavioral symptoms directed toward others	
	E4dA Socially inappropriate	E0200C Other behavioral symptoms not directed toward others	
	E4eA Resisted care	E0800 Rejection of Care	
	J1e Delusions	E0100B Delusions	
	J1i Hallucinations	E0100A Hallucinations	
Reduced Physical Functions			Refer to RUG ADL Score and Nursing Restorative Programs