RUG-III Calculations

July 2021

CONTENTS

CLASSIFICATION

There are seven major resident classification categories**:**
- **Extensive Services**
- **Rehabilitation**
- **Special Care**
- **Clinically Complex**
- **Impaired Cognition**
- **Behavior Problems**
- **Reduced Physical Function**

Within the seven major resident classification categories there are additional splits that include the:
- **ADL split**
- **Depression Indicator split**
- **Restorative Nursing program split**

The ADL split uses RUG-III values in MDS Section G0110 *Functional Status* for calculation of an ADL score. The ADL score will determine specific RUG.

The depression indicator split is determined from the score D0300 and is considered valid if no more than two items are incomplete. Or from the score D0600, if D0300 is not completed. D0300 or D0600 (sum) = *Severity Score Range*
Severity Score Range >= 10 depressed (indicated by yes or no) for RUG classification purposes.

The restorative nursing program spilt is determined by the number of restorative programs provided for at least 15 minutes in the 6 out of the 7 day look back. Restorative splits are identified by program counts of 0 or 1 services or 2 or more services.

The ADL score is used to determine the specific RUG level.
Calculation of the ADL score is completed using the four late loss ADLs.
1) Bed Mobility
2) Transfer
3) Toileting
4) Eating

Calculation of the ADL score for bed mobility, transfer and toilet use the following chart:

Self-Performance Column 1 =		Support Provided Column 2 =	ADL Score =	Score as coded on the MDS
When	0,1, or 7	**AND** Any number	1	
	2	Any Number	3	G0110A=___
	3 or 4	0, 1, or 2	4	G0110B=___
	3, 4, or 8	3 or 8	5	G0110I=___

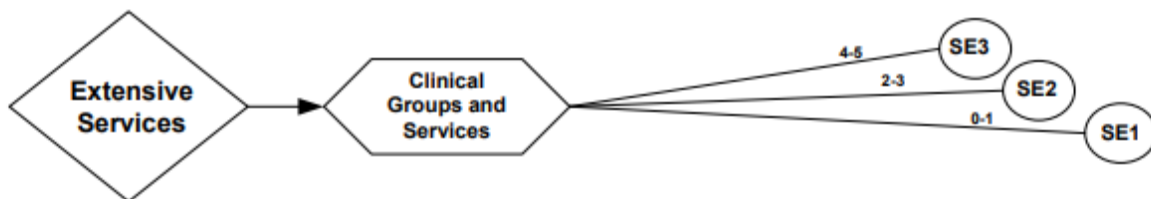**Calculation of eating ADL score– stop at first step that applies**

A. If Parenteral/IV (K0510A1 or 2) is checked, the eating ADL Score= 3. Proceed to Step 3. *If not, then;*
B. If Feeding Tube (K0510B1 or 2) is checked AND Total Calories (K0710A3) is 51% or more calories, the eating ADL Score = 3. Proceed to Step 3. *If not, then;*
C. If Feeding Tube (K0510B1 or 2) is checked
   a. **AND**
         i. Total Calories (K0710A3) is 26% to 50% calories
   b. **AND**
   c. b) Average Fluid Intake (K0710B) is 501 cc or more fluid, the eating ADL Score = 3. Proceed to Step 3. *If not, then;*
D. When neither Parenteral/IV nor Feeding Tube (with appropriate intake) are checked, evaluate the chart below for Eating; Self-performance only.

When	Column 1 (Only) =	Then	ADL Score =	(Record Below)
	0, 1 or 7		= 1	
	2		= 2	
	3, 4 or 8		= 3	G0110H=___

Total ADL Score = Sum the ADL score for bed mobility, transfer, toilet use and eating
   • The total ADL Score range is 4 through 18
   • ADL score of 4 representing most independent residents
   • ADL score of 18 representing most dependent residents

RUG-III, 34-GROUP CLASSIFICATION MODEL BREAKDOWN

CATEGORY I: EXTENSIVE SERVICES

• Requires an ADL score of 7 or more
• If there is a match but the ADL Score is less than 7, assessment classifies as Special Care (SSA)
• Extensive Services Count must be determined

STEP 1: Is assessment coded for at least one of these services?
- K0510A 1 or 2 Parenteral/IV
- O0100D 1 or 2 Suctioning
- O0100E 1 or 2 Tracheostomy care
- O0100F 1 or 2 Ventilator/Respirator
- O0100H 1 or 2 IV Medication

STEP 2: Count determination
- K0510A 1 or 2 Parenteral/IV is checked = 1 count
- O0100D 1 or 2 Suctioning is checked = 0 count
- O0100E 1 or 2 Tracheostomy care is checked = 0 count
- O0100F 1 or 2 Ventilator/Respirator is checked = 0 count
- O0100H 1 or 2 IV Medication is checked = 1 count

Extensive Services Count_____
Possible range at this step is 0-2

STEP 3: Complete count
To complete the Extensive Services Count:
An Extensive Services Count is completed by evaluating the criteria for Special Care, Clinically Complex and Impaired Cognition. The final classification into SE1, SE2, or SE3 will be completed after all criteria have been evaluated.
   A. Go to Category III, Special Care. If the assessment meets one* or more of the Special Care criteria, assign a count of 1; (assign a count of 0, if no criteria are met in this category).
   B. Go to Category IV, Clinically Complex. If the assessment meets one* or more of the Clinically Complex criteria, assign a count of 1; (assign a count of 0, if no criteria are met in this category).
   C. Go to Category V, Impaired Cognition. If assessment meets one* or more of the Impaired Cognition criteria, assign a count of 1; (assign a count of 0, if no criteria are met in this category).
*In STEP 3 even if the assessment meets more than one criterion in a category, it only receives an Extensive Services count of 1.

STEP 4: Sum Extensive Services Count
Category I. Extensive Services Count - Extensive Service (0, 1, 2)
Category III. Extensive Services Count - Special Care (0, 1)
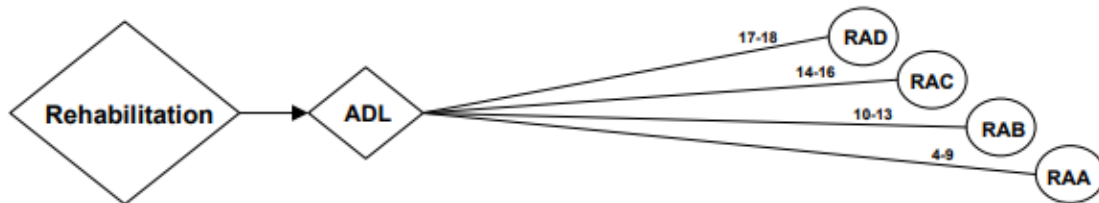Category IV. Extensive Services Count - Clinically Complex (0, 1)
Category V. Extensive Services Count - Impaired Cognition (0, 1)
Sum of category 1, 2, 3, and 4 =Total Extensive Services Count (0-5)

STEP 5: Determine RUG classification based on Extensive Services count

Total Extensive Services Count	Extensive Services Classification
4 or 5	SE3
2 or 3	SE2
0 or 1	SE1

CATEGORY II: REHABILITATION

- An ADL score range of 4-18
- Rehabilitation therapy is any combination:
- Speech, Occupational or Physical Therapy
- Restorative Nursing Programs

STEP 1: Is assessment coded with at least 45 minutes of therapy?

O0400A - *Speech-Language Pathology and Audiology Services*	
O0400A 1,2,3	Individual, Concurrent and Group Minutes
O0400A 4	Therapy Days
O0400B - *Occupational Therapy*	
O0400B 1,2,3	Individual, Concurrent and Group Minutes
O0400B 4	Therapy Days
O0400C - *Physical Therapy*	
O0400C 1,2,3	Individual, Concurrent and Group Minutes
O0400C 4	Therapy Days

STEP 2: If greater than 45 minutes of therapy, determine if either criteria are met.
Criteria 1
- 150 minutes or more **AND**
- At least 5 days of any combination of ST, OT, PT

OR

Criteria 2
- 45 minutes or more **AND**
- At least 3 days of any combination of ST, OT, PT **AND**
- 2 or more Restorative Nursing Programs - each for at least 15minutes a day for 6 or 7 days

Determine Restorative Nursing Program

H0200C Urinary Toileting Program**	H0500 Bowel Toileting Program**
O0500A Passive Range of Motion**	O0500B Active Range of Motion**
O0500D Bed mobility**	O0500F Walking training**
O0500C Splint or brace assistance	O0500E Transfer training
O0500G Dressing or grooming training	O0500H Eating or swallowing training
O0500I Amputation/Prosthesis care	O0500J Communication training

** *Count as one program for RUG classification (H0200C & H0500; O0500A & B; O0500D & F) even if both are provided.*
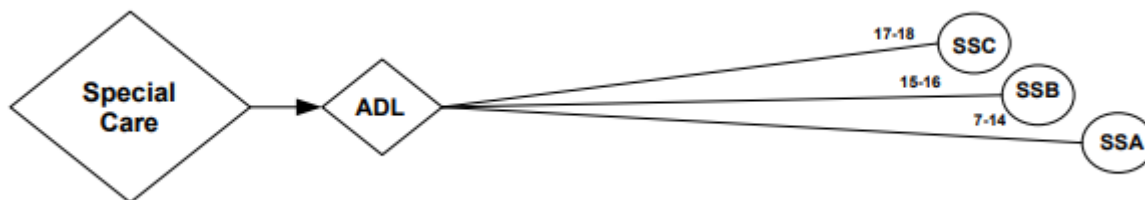
Restorative nursing program criteria:
- Measurable objectives and interventions must be documented in the care plan and in the clinical record.
- Evidence of evaluation by licensed nurse periodically must be present in the clinical record.
- Nurse assistants/aides must be trained in the techniques that promote resident involvement in the activity.
- These activities are carried out or supervised by members of the nursing staff.
- This category does not include groups with more than four residents per supervising helper or caregiver.

STEP 3: Determine RUG classification based on ADL score

ADL Score	Rehabilitation Classification
17 – 18	RAD
14 – 16	RAC
10 – 13	RAB
4 – 9	RAA

CATEGORY III: SPECIAL CARE

- Requires an ADL score of 7 or greater
- If meets criteria for Special Care but the ADL score is less than 7, the assessment classifies as Clinically Complex (CA1 or CA2)
- Extensive Services with an ADL score of less than 7, assessment classifies as Special Care (SSA)
- One component of the Extensive Services count

STEP 1: Is assessment coded for at least one of these conditions?

I4400	Cerebral palsy, **with** an ADL score >=10
I5100	Quadriplegia, **with** an ADL score >=10
I5200	Multiple sclerosis, **with** an ADL score >=10
J1550A:	Fever **and** at least **one** of the following:
	Pneumonia (I2000) Vomiting (J1550B) Dehydration (J1550C) Weight loss (K0300 1 or 2) Feeding tube* (K0510B 1 or 2)
K0510B 1 or 2	Feeding tube* and I4300 aphasia

Feeding tube classification must include either:
- *Total calories is 51% or more calories **or***
- *Total calories is 26% to 50% calories **and** average fluid intake is 501 cc or more per day enteral fluid intake in the last 7 days.*

M0300A	Number of Stage I pressure ulcers
M0300B1	Number of Stage II pressure ulcers
M1030	Number of venous and arterial ulcers
*2 or more ulcers stage I, II or venous/arterial ulcers **with** 2 or more skin treatments***	
M0300C1	Number of Stage III pressure ulcers **with** 2 or more skin treatments**
M0300D1	Number of Stage IV pressure ulcers **with** 2 or more skin treatments**
M0300F1	Number of Unstageable pressure ulcers **with** 2 or more skin treatments**
M1040D	Open lesions **with** 1 or more skin treatment***
M1040E	Surgical wounds **with** 1 or more skin treatment***
O0100B 1 or 2	Radiation treatment
O0400D2	Respiratory therapy provided for 7 days

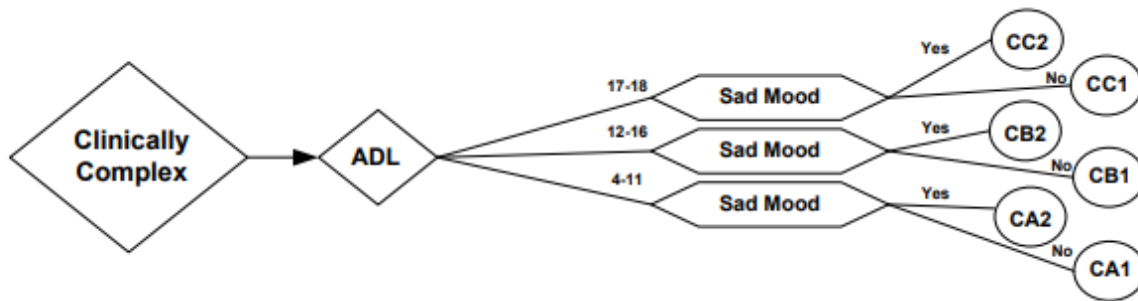| ***2 or more Skin Treatments:**	
M1200A#	Pressure relieving device/chair
M1200B#	Pressure relieving device/bed
M1200C	Turning/repositioning program
M1200D	Nutrition or hydration intervention to manage skin problems
M1200E	Pressure ulcer care
M1200G	Application of nonsurgical dressings (not to feet)
M1200H	Application of ointments/medications (not to feet)

 # Count as one treatment for RUG classification even if both provided.

1 or more Skin Treatments:	
M1200F	Surgical wound care
M1200G	Application of nonsurgical dressings (not to feet)
M1200H	Application of ointments/medications (not to feet)

STEP 2: Determine RUG classification using ADL score.

ADL Score	Special Care Classification
17 – 18	SSC
15 – 16	SSB
7 – 14	SSA

CATEGORY IV: CLINICALLY COMPLEX

- An ADL score range of 4-18
- Special Care with an ADL score of less than 7
- One component of the Extensive Services count
- Assess for mood symptoms for Depression Indicator split

STEP 1: Is assessment is coded for at least one of these conditions?

B0100	Coma **and** completely ADL dependent: (G0110A, G0110B, G0110H, G0110I = 4 or 8)
I2000	Pneumonia
I2100	Septicemia
I2900	Diabetes mellitus **and**
N0300	Injection = 7 days **and**
O0700	Physician Order Changes >= 2 days
I4900	Hemiplegia/hemiparesis **with** an ADL score >= 10
J1550C	Dehydration
J1550D	Internal Bleeding
K0510B	Feeding Tube*

Feeding tube classification must include either:
- *Total calories is 51% or more calories*

OR

- *Total calories is 26% to 50% calories **and** average fluid intake is 501 cc or more per day enteral fluid intake in the last 7 days.*

M1040A	Infection of the foot **with**
M1200I	Application of dressings
M1040B or C	Diabetic foot ulcer/open lesions on the foot
M1200I	**with** Application of dressings
M1040F	Burns
O0100A 1 and 2	Chemotherapy
O0100C 1 and 2	Oxygen Therapy
O0100I 1 and 2	Transfusions
O0100J 1 and 2	Dialysis
O0600	Physician Examinations/Physician
O0700	Order Changes in the last 14 days*:

*Examination and orders must equal:
- Examinations >= 1 day **and** Order Changes >= 4 days

OR
- Examinations >= 2 days **and** Order Changes >= 2 days

STEP 2: Mood (For residents that are interviewable)

D0200A2	Little interest or pleasure in doing things
D0200B2	Feeling down, depressed or hopeless
D0200C2	Trouble falling or staying asleep, or sleeping too much
D0200D2	Feeling tired or having little energy
D0200E2	Poor appetite or overeating
D0200F2	Feeling bad about yourself or that you are a failure or have let yourself or family down
D0200G2	Trouble concentrating on things, such as reading the newspaper or watching TV.
D0200H2	Moving or speaking so slowly that other people could have noticed. Or the opposite, being so fidgety or restless that you have been moving around a lot more than usual
D0200I2	Thoughts that you would be better off dead, or of hurting yourself in some way

The score (D0300) is considered valid if no more than two items are incomplete.
D0300 (sum) = *Severity Score Range*
Severity Score Range (00-27); >=10 depressed for RUG classification purposes.

STEP 3: Mood (For residents that are <u>not</u> interviewable. Skip if Step 2 completed)
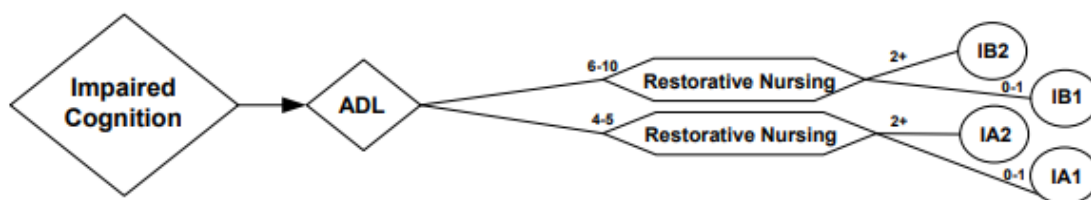
D0500A2	Little interest or pleasure in doing things
D0500B2	Feeling or appearing down, depressed or hopeless
D0500C2	Trouble falling or staying asleep, or sleeping too much
D0500D2	Feeling tired or having little energy
D0500E2	Poor appetite or overeating
D0500F2	Indicating that s/he feels bad about self, is a failure or has let self or family down
D0500G2	Trouble concentrating on things, such as reading the newspaper or watching TV
D0500H2	Moving or speaking so slowly that other people could have noticed. Or the opposite, being so fidgety or restless that s/he has been moving around a lot more than usual
D0500I2	States that life isn't worth living, wishes for death, or attempts to harm self
D0500J2	Being short tempered, easily annoyed

The score (D0600) is considered valid if no more than two items are incomplete
D0600 (sum) = *Severity Score Range*
Severity Score Range (00-30); >=10 depressed for RUG classification purposes

STEP 4: Determine RUG classification based on both ADL score and total severity score.

ADL Score	Mood Symptoms	Clinically Complex Classification
17 – 18	YES	CC2
17 – 18	NO	CC1
12 – 16	YES	CB2
12 – 16	NO	CB1
4 – 11	YES	CA2
4 – 11	NO	CA1

CATEGORY V: IMPAIRED COGNITION

- Requires an ADL score of 10 or lower
- If there is a match but the ADL score is higher than 10, the assessment classifies in Reduced Physical Function
- Last component of the Extensive Services count
- Restorative Nursing Services

COGNITIVE ASSESSMENT
Brief Interview for Mental Status (BIMS):
For completing with residents that are interviewable, proceed to Step 1

Staff assessment for Mental Status should only be completed for residents who cannot complete the interview. (Proceed to Step 2 if not able to complete the interview)

STEP 1: Conduct Brief Interview for Mental Status (BIMS)

C0200	Repetition of three words
C0300	Temporal Orientation
C0400	Recall
C0500	BIMS score 0-15
	Score <= 9 is cognitively impaired Score >= 10 is cognitively intact * For RUG classification purposes

* If one or more BIMS items are missing, then a BIMS score is not calculated; proceed to Step 2.

STEP 2: Staff Assessment for Mental Status
Determine if the assessment meets at least one of the Impaired Cognition conditions according to the RUG-III Cognitive Performance Score (CPS) below:

B0100	Comatose
B0700	Makes self-understood
C0700	Short term memory problem
C1000	Cognitive skills for daily decision making

Or

B0100	Coma **and** completely ADL dependent;
	If not, then;
C1000	Severely impaired daily decision making;
	If not, then:
C0700, C1000, B0700	These three items are assessed with none being blank or unknown:
Two or more of the following impairment indicators are present:	
B0700 > 0	Problem making self-understood
C0700 = 1	Short term memory problem
C1000 > 0	Cognitive skills for daily decision making
and	
One or more of the following severe impairment indicators are present:	

B0700 >= 2	Severe problem making self-understood
C1000 >= 2	Severely impaired decision making skills

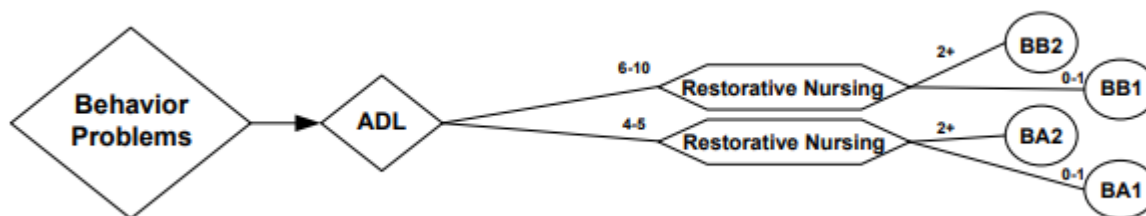**STEP 3: Determine Restorative Nursing Program count.**
Count the number of Restorative Nursing Programs provided each for:
- At least 15 minutes
- Each administered for 6 or more days (Should be coded on MDS even if less than 6 days)
- Includes any urinary toileting or bowel toileting program

STEP 4: Determine RUG classification based on both ADL score and Restorative Nursing Program count.

ADL Score	Restorative Nursing Programs Count	Impaired Cognition Classification
6-10	2 or more services	IB2
6-10	0 or 1 service	IB1
4-5	2 or more services	IA2
4-5	0 or 1 service	IA1

CATEGORY VI: BEHAVIOR PROBLEMS

- Requires an ADL score of 10 or lower
- If there is a match but the ADL score is higher than 10, the assessment classifies in Reduced Physical Function
- Restorative Nursing Services

STEP 1: Is assessment coded for at least one of these items?

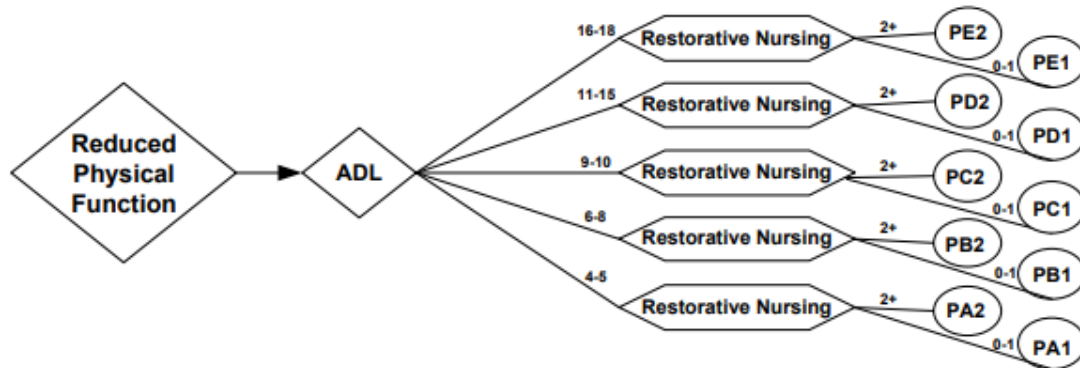|	
E0100A	Hallucinations
E0100B	Delusions
E0200A = 2 or 3	Physical behavioral symptoms
E0200B = 2 or 3	Verbal behavioral symptoms
E0200C = 2 or 3	Other behavioral symptoms
E0800 = 2 or 3	Rejection of care
E0900 = 2 or 3	Wandering

STEP 2: Count the number of Restorative Nursing Programs provided each for:

- At least 15 minutes
- Each administered for 6 or more days (Should be coded on MDS even if less than 6 days)
- Includes any urinary or bowel toileting program

STEP 3: Determine RUG classification based on both ADL score and Restorative Nursing Program count.

ADL Score	Restorative Nursing Programs Count	Impaired Cognition Classification
6-10	2 or more services	BB2
6-10	0 or 1 service	BB1
4-5	2 or more services	BA2
4-5	0 or 1 service	BA1

CATEGORY VII: REDUCED PHYSICAL FUNCTION

- An ADL score range of 4-18
- Assessments that do not meet the conditions of any of the previous categories
- Assessments meeting criteria for Impaired Cognition or Behavior
- Problems but have an ADL score of greater than 10
- Restorative Nursing Services

STEP 1: Count the number of Restorative Nursing Programs provided each for:
- At least 15 minutes
- Each administered for 6 or more days (Should be coded on MDS even if less than 6 days)
- Includes any urinary or bowel toileting program

Determine Restorative Nursing Program

H0200C Urinary Toileting Program**	H0500 Bowel Toileting Program**
O0500A Passive Range of Motion**	O0500B Active Range of Motion**
O0500D Bed mobility**	O0500F Walking training**
O0500C Splint or brace assistance	O0500E Transfer training
O0500G Dressing or grooming training	O0500H Eating or swallowing training
O0500I Amputation/Prosthesis care	O0500J Communication training

*** Count as one program for RUG classification (H0200C & H0500; O0500A & B; O0500D & F) even if both are provided.*

Restorative nursing program criteria:
- Measurable objectives and interventions must be documented in the care plan and in the clinical record.
- Evidence of evaluation by licensed nurse periodically must be present in the clinical record.
- Nurse assistants/aides must be trained in the techniques that promote resident involvement in the activity.
- These activities are carried out or supervised by members of the nursing staff.
- This category does not include groups with more than four residents per supervising helper or caregiver.

STEP 2: Determine RUG classification based on both ADL score and Restorative Nursing Program count

ADL Score	Restorative Nursing Programs Count	Impaired Cognition Classification
16-18	2 or more services	PE2
16-18	0 or 1 service	PE1
11-15	2 or more services	PD2
11-15	0 or 1 service	PD1
9-10	2 or more services	PC2
9-10	0 or 1 service	PC1
6-8	2 or more services	PB2
6-8	0 or 1 service	PB1
4-5	2 or more services	PA2
4-5	0 or 1 service	PA1