Title	Description	MDS-RCA Variable Definition
1.) Prevalence of Bladder Incontinence (High Degree of Incontinence)	Numerator: All residents who were frequently incontinent or incontinent on most recent assessment.  Denominator: Most recent assessment on all residents excluding those with Indwelling Catheter.	Numerator: Bladder Incontinence: (H1b=3 OR H1b=4)  Denominator: Most recent assessment on all residents  Exclude: Indwelling Catheter (H3d=1)
2.) Prevalence of Bladder Incontinence (Low Degree of Incontinence)	Numerator: All residents who were usually continent or occasionally incontinent on most recent assessment. (Numerator now excludes continent)  Denominator: Most recent assessment on all residents excluding those with Indwelling Catheter.	Numerator: Bladder Incontinence: (H1b=1 OR H1b=2)  Denominator: Most recent assessment on all residents  Exclude: Indwelling Catheter (H3d=1)
3.) Prevalence of Bowel Incontinence (High Degree of Incontinence)	Numerator: All residents who were frequently incontinent or incontinent on most recent assessment.  Denominator: Most recent assessment on all residents excluding those with an Ostomy.	Numerator: Bowel Incontinence: (H1a=3 or H1a=4)  Denominator: Most recent assessment on all residents  Exclude: Ostomy (H3i=1)
4.) Prevalence of Bladder Incontinence without Scheduled Toileting Plan.	Numerator: Residents without toileting plan and are occasionally incontinent to incontinent most recent assessment.  Denominator: Residents who were occasionally incontinent to incontinent on most recent assessment excluding those with Indwelling Catheter.	Numerator: No scheduled toileting/other program (H3a=0)  Denominator: Most recent assessment for all residents where bladder incontinence is occasionally incontinent to incontinent: (H1b=2 or H1b=3 or H1b=4)  Exclude: Indwelling Catheter (H3d=1)

Title	Description	MDS-RCA Variable Definition
5.) Prevalence of Injury	Numerator: Residents with any injury (abrasions/bruises or burns) on most assessment.	Numerator: Abrasions or Cuts (M1a=1) OR Burns (M1b=1) OR Bruises (M1c=1)
	Denominator: Most recent assessment on all residents.	Denominator: Most recent assessment on all residents.
6.) Prevalence of Falls	Numerator: Residents with falls on most recent assessment  Denominator: Most recent assessment on all	Numerator: Fell in past 30 Days (J7a=1) OR Fell in past 180 Days (J7b=1) OR Hip fractures last 180 days (J7c=1) OR Other fractures last 180 days (J7d=1)
	residents.	Denominator: Most recent assessment on all residents.
7.) Prevalence of Behavioral Symptoms	Numerator: Residents with behavioral symptoms on most recent assessment.	Numerator: Residents with one of following behavioral symptoms: Wandering (E4aa >=1) OR Verbally abusive behavior (E4ba>=1) OR Physically abusive behavior
	Denominator: Most recent assessment on all residents.	(E4ca>=1) OR Socially inappropriate behavior: (E4da>=1) OR Resists care (E4ea>=1) OR Intimidating behaviors (E4fa>=1) OR Elopement (E4ga>=1) OR Dangerous non-violent behavior (E4ha>=1) OR Dangerous violent behavior (E4ia>=1) OR Fire setting (E4ja>=1)
		Denominator: Most recent assessment on all residents

Title	Description	MDS-RCA Variable Definition
8.) Prevalence of Behavioral Symptoms without Behavior Management Program	Numerator: All residents with behavioral symptoms towards others who do not have some behavior	Numerator: Intervention Program: None of above (P2k=1)
	management problem.  Denominator: Most recent assessment on all residents with behavioral symptoms toward others.	Denominator: Residents with one of following behavioral symptoms: Wandering (E4aa >=1) OR Verbally abusive behavior (E4ba>=1) OR Physically abusive behavior (E4ca>=1) OR Socially inappropriate behavior: (E4da>=1) OR Resists care (E4ea >=1) OR Intimidating behaviors (E4fa >=1) OR Elopement (E4ga >=1) OR Dangerous non-violent behavior (E4ha>=1) OR Dangerous violent behavior (E4ia >=1) OR Fire setting (E4ja >=1)
9.) Use of 9 or more Medications in last 7 days including PRNs	Numerator: All residents with 9 or more medications on most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: Number of Medications is greater than or equal to 9 in last 7 days: O1>=9  Denominator: Most recent assessment on all residents.
10.) Use of 9 or more Scheduled Medications in last 7 days	Numerator: All residents with 9 or more scheduled medications on medications most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: Count of drugs from Section U. where the frequency is not equal to PR or invalid.  Denominator: Most recent assessment on all residents.

Title	Description	MDS-RCA Variable Definition
11.) Prevalence of Cognitive Impairment	Numerator: All residents who were cognitively impaired on most recent assessment	Numerator: Cognitive skills for daily decision making are impaired (B3>0) AND Memory Recall skills: Resident is not able to recall:
	Denominator: Most recent assessment on all residents.	(Current season: (B2a=0) OR Loc. of own room: (B2b=0) OR Staff names/faces: (B2c=0) OR That he/she is in a facility/home: (B2d=0)) OR None Above Recalled: (B2e=1) AND Short-term memory problems: (B1a=1) Denominator: Most recent assessment on all residents.
12.) Prevalence of Modified Cognitive Impairment- Includes Long term Memory Problems	Numerator: All residents who had impaired decision making and short or long-term memory problems on most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: (Cognitive skills for daily decision making are impaired: B3>0 AND Short-term memory problems: B1a=1) OR (Cognitive skills for daily decision making (B3>0) AND Long term memory problems B1b=1  Denominator: Most recent assessment on all residents.

Title	Description	MDS-RCA Variable Definition
14.) Prevalence of Anti- Psychotic drugs	Numerator: Anti-psychotic use on most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: Days Received the Following Medications:  • Anti-psychotics (O4aa>=1)  Denominator: Most recent assessment on all residents.
15.) Prevalence of Awake at Night	Numerator: All residents coded awake at night on most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: Time Awake:  Night is checked (N1d=1)  Denominator: Most recent assessment on all residents.
16.) Prevalence of Communication Difficulties	Numerator: All residents coded with difficulty being understood or understanding others on most recent assessment.  Denominator: Most recent assessment on all residents.	Numerator: Making Self Understood (C3=2 or C3=3) OR Ability to Understand Others (C4=2 or C4=3)  Denominator: Most recent assessment on all residents.
17.) Prevalence of Signs of Distress or Sad/Anxious Mood	Numerator: All residents coded with two or more indicators of depression, anxiety or sad mood exhibited one or more times a week  Denominator: Most recent assessment on all residents.	Numerator: Indicated if two or more items in section E1 are coded 1 or 2 (E1a through E1r).  Denominator: Most recent assessment on all residents.

Title	Description	MDS-RCA Variable Definition
18.) Incidence of Decline in Late Loss ADLs	Numerator: Residents showing ADL decline between previous and most recent assessment as follows: a. One or more level decline in two or more late loss ADLs, OR b. Two level decline in one or more late loss ADLs	Numerator: One level decline in two or more of the following: Bed mobility (G1aa), Transfer (G1ba), Eating (G1ea) or Toilet Use (G1fa)  Previous Most Recent  0 1,2,3,4 1 2,3,4 2 3,4 3 4
	Denominator: Current residents with two consecutive assessments.  Exclusion: Resident who are totally dependent in late loss ADLs on previous assessment.	Two level decline in one or more late loss ADLs: Bed mobility (G1aa), Transfer (G1ba), Eating (G1ea) or Toilet Use (G1fa)  Previous Most Recent  0 2,3,4 1 3,4 2 4  ADL score of 8 is recoded to 4.  Denominator:
		Current residents with two consecutive assessments.  Exclude: If totally dependent on all - Bed mobility (G1aa=4 or 8), and Transfer (G1ba=4 or 8), and Eating (G1ea=4 or 8) and Toilet Use (G1fa=4 or 8) on previous assessment.
19.) Incidence of Decline in Late Loss ADLs – High Risk	Numerator: Calculated as QI 18 for residents at high risk	Numerator: Calculated as QI 18 for residents at high risk.
	Denominator: Current residents with two consecutive assessments that were at high risk for decline on the previous assessment.	Denominator: Current residents with two consecutive assessments AND one of the following high risk items: Terminal prognosis (I1ww=1), OR
	Exclusion: Resident who are totally dependent in late loss ADLs on previous assessment.	Decline in cognitive status (B4=2) OR Need for on-going monitoring of acute or new treatment (P3a=1,2,3 or P3b=1,2,3)
		Exclude: If totally dependent on all - Bed mobility (G1aa=4 or 8), and Transfer (G1ba=4 or 8), and

Title	Description	MDS-RCA Variable Definition
		Eating (G1ea=4 or 8) and Toilet Use (G1fa=4 or 8) on previous assessment.
20.) Incidence of Decline in Late Loss ADLs – Low Risk	Numerator: Calculated as QI 18 for residents at low risk	Numerator: Calculated as QI 18 for residents at low risk:
	Denominator: Current residents with two consecutive assessments that were at low risk for decline on the previous assessment.  Exclusion: Resident who are totally dependent in late loss ADLs on previous assessment	Denominator: Current residents with two consecutive assessments AND DO NOT HAVE: Terminal prognosis (I1ww=1), or Decline in cognitive status (B4=2) or Need for on-going monitoring of acute or new treatment (P3a=1,2,3 or P3b=1,2,3)  Exclude: If totally dependent on all - Bed mobility (G1aa=4 or 8), and Transfer (G1ba=4 or 8), and
		Eating (G1ea=4 or 8) and Toilet Use (G1fa=4 or 8) on previous assessment.

Title	Description	MDS-RCA Variable Definition
21.) Incidence of Decline in Early Loss ADL's	Numerator: Residents showing ADL decline between previous and most recent assessment as follows: a. One or more level decline in two or more early loss ADLs OR b. Two level decline in one	Numerator: One level decline in two or more of the following: Locomotion (G1ca), Dressing (G1da), or Personal Hygiene (G1ga) Previous Most Recent  1 2,3,4 1 2,3,4
	or more early loss ADLs  Denominator: Current residents with two consecutive assessments.  Exclusion: Resident who are totally dependent in early loss ADLs on previous assessment	2 3,4 3 4  Two level decline in one or more early loss ADLs: Locomotion (G1ca), Dressing (G1da), or Personal Hygiene (G1ga)  Previous Most Recent 0 2,3,4 1 3,4 2 4  ADL score of 8 is recoded to 4.
		Denominator: Current residents with two consecutive assessments  Exclude: If total dependent on all Locomotion (G1ca=4 or 8), and Dressing (G1da=4 or 8), and Personal Hygiene (G1ga=4 or 8) on previous assessment.

Title	Description	MDS-RCA Variable Definition
22.) Incidence of Decline in Early Loss ADLs – High Risk	Numerator: Calculated as QI 21 for residents at high risk	Numerator: Calculated as QI 21 for residents at high risk.
	Denominator: Current residents with two consecutive assessments that are at high risk for decline.  Exclusion: Resident who are totally dependent in early loss ADLs on previous	Denominator: Current residents with two consecutive assessments AND one of the following high risk items: Terminal prognosis (I1ww=1), OR Decline in cognitive status (B4=2)
	assessment	OR  Need for on-going monitoring of acute or new treatment (P3a=1,2,3 or P3b=1, 2,3)
		Exclude: If total dependent on all Locomotion (G1ca=4 or 8), and Dressing (G1da=4 or 8), and Personal Hygiene (G1ga=4 or 8) on previous assessment.
23.) Incidence of Decline in Early Loss ADLs – Low Risk	Numerator: Calculated as QI 21 for residents at low risk	Numerator: Calculated as QI 21 for residents at low risk.
	Denominator: Current residents with two consecutive assessments that are at low risk for decline.  Exclusion: Resident who are totally dependent in early loss ADLs on previous assessment	Denominator: Current residents with two consecutive assessments AND DO NOT HAVE: Terminal prognosis (I1ww=1), or Decline in cognitive status (B4=2) or Need for on-going monitoring of acute or new treatment
		(P3a=1,2,3 or P3b=1,2,3)  Exclude: If totally dependent on all - Bed mobility (G1aa=4 or 8), and Transfer (G1ba=4 or 8), and Eating (G1ea=4 or 8) and Toilet Use (G1fa=4 or 8) on previous assessment.

Title	Description	MDS-RCA Variable Definition
24.) Incidence of Improvement in Late Loss ADLs	Numerator: Residents showing ADL improvement between previous and most recent assessment as follows:  a. One or more level improvement in two or more late loss ADLs OR b. Two level improvement in one or more late loss ADLs  Denominator: Current residents with two consecutive assessments.	Numerator: One level improvement in two or more of the following: Bed mobility (G1aa), Transfer (G1ba), Eating (G1ea) or Toilet Use (G1fa)  Previous Most Recent  1 0 2 0, 1 3 0, 1, 2 4 0, 1, 2, 3  Two level improvement in one or more late loss ADLs: Bed mobility (G1aa), Transfer (G1ba), Eating (G1ea) or Toilet Use (G1fa)  Previous Most Recent  2 0 3 0, 1 4 0, 1, 2  ADL score of 8 is recoded to 4.  Denominator: Current residents with two consecutive assessments.

Title	Description	MDS-RCA Variable Definition
25.) Incidence of Improvement in Early Loss ADLs	Numerator: Residents showing ADL improvement between previous and most recent assessment as follows:  a. One or more level improvement in two or more early loss ADLs OR b. Two level improvement in one or more early loss ADLs  Denominator: Current residents with two consecutive assessments.	Numerator: One level improvement in two or more of the following: Locomotion (G1ca), Dressing (G1da), Personal Hygiene (G1ga)  Previous Most Recent  1 0 2 0, 1 3 0, 1, 2 4 0, 1, 2, 3  Two level improvement in one or more early loss ADLs: Locomotion (G1ca), Dressing (G1da), Personal Hygiene (G1ga)  Previous Most Recent 2 0
	consecutive assessments.	3 0, 1 4 0, 1, 2 ADL score of 8 is recoded to 4.  Denominator: Current residents with two consecutive assessments.
26.) Prevalence of ER Visits	Numerator: All residents who visited the ER without an overnight stay one or more times in the last six months.  Denominator: Most recent assessment on all residents.	Numerator: P8 Emergency Room Visits (P8≥1)  Denominator: Most recent assessment on all residents.
27.) Prevalence of Psychiatric Hospital Stays	Numerator: All residents who were admitted to Psychiatric Hospital one or more times in the last six months.  Denominator: All residents on most recent assessment.	Numerator: P12 Psychiatric Hospital Stays (P12≥1)  Denominator: Most recent assessment on all residents.

Title	Description	MDS-RCA Variable Definition
28.) Prevalence of	Numerator:	Numerator:
Hospital Stays	All residents who were admitted to	P7 General Hospital Stays (P7≥1)
	Hospital one or more times in the	
	last six months.	Denominator:
		Most recent assessment on all
	Denominator:	residents.
	All residents on most recent	
00 \ Daniel and a fill of the	assessment.	Newspare
29.) Prevalence of Weight	Numerator:	Numerator:
Loss	All residents with unintended	K3a Weight Change – Unintended
	weight loss in last 30 or 180 days	weight loss-5% or more in last 30
	Denominator:	days; or 10% or more in last 180 days (K3a=1).
	All residents on most recent	days (NSa=1).
	assessment.	Denominator:
	dosessinent.	Most recent assessment on all
		residents.
30.) Prevalence of Wheel	Numerator:	Numerator:
Chair as Primary Mode of	All residents whose primary mode	G3b Main mode of locomotion
Locomotion	of locomotion was wheel chair.	(G3b=1).
	Denominator:	Denominator:
	All residents on most recent	Most recent assessment on all
	assessment.	residents.
31.) Prevalence of High	Numerator:	Numerator:
Case Mix Index	All RCF residents with Payment	RCF - Payment Case Mix Group
	Case Mix Groups for Impaired	in IC1, MC1, CD1, OR PD1
	(IC1), Behavior (MC1), Clinical	ALF and AFCH - Payment Case
	(CD1) and Physical (PD1) with the	Mix Group in AV2 or AH2
	highest ADL groups on most recent	Denominator:
	assessment. All ALF or AFCH residents with	Most recent assessment on all
	Payment Case Mix Groups – AV2	residents.
	or AH2	residents.
	Denominator:	
	Most recent assessment on all	
	residents.	
32.) Prevalence of Pain	Numerator:	Numerator:
	All residents with pain indicated on	Pain Symptoms (J3>=1)
	most recent assessment.	
		Denominator:
	Denominator:	Most recent assessment on all
	Most recent assessment on all	residents.
	residents.	

33.) Prevalence of Pain	Numerator:	Numerator:
Interfering with No Pain	All residents with no pain	Pain Management: No (J6 = 1)
Management	management	OR
Wanagement	Inlanagement	Treated no minimal control (J6 =
		4)
	Denominator:	(4)
		Denominator:
	Most recent assessment on all	
	residents with pain interfering.	Most recent assessment on
		residents where pain interferes (J5
24 \ Drayalance of Anti	Numerator:	= 1, 2, or 3) Numerator:
34.) Prevalence of Anti-		
Psychotic use in Absence	All residents who take antipsychotic	Days antipsychotic Medications
of Diagnosis	meds	Received:
	Denominator	(O4aa >= 1 and O4aa <= 7)
	Denominator:	Denominator
	Most recent assessment on all	Denominator:
	residents who do not have a	Most recent assessment on all residents.
	psychiatric diagnosis	residents.
		Exclude: Residents with valid
		psychiatric diagnosis based on: Problem conditions: Delusions
		(J1e = 1) OR Hallucinations (J1f =
		1) OR
		Diagnosis –Schizophrenia (I1gg =
		1) OR
		Other Dx (I2a, I2b, I2c) based on
		specific Mental Health ICD-9
		codes: 295.0-295.9, 297.0-298.9,
25 \ Drayalanaa of Illaara	Numerator:	307.23, 333.4 Numerator:
35.) Prevalence of Ulcers		
due to Any Cause	All residents who have ulcers.	Ulcers: (M2a >= 1 OR M2b >= 1 OR
	Denominator:	M20 >= 1  OR M2c >= 1  OR
	Most recent assessment on all residents.	M2d >= 1
	residents.	Denominator:
		Most recent assessment on all
		residents
36.) Prevalence of Fecal	Numerator:	Numerator:
Impaction	All residents who have fecal	Bowel Continence (H2d = 1)
	impaction.	
	ппраспоп.	Denominator:
	Denominator:	Most recent assessment on all
	Most recent assessment on all	residents
		IESIUEIIIS
	residents.	

Version Date: 7/1/2004

### **Version Summaries:**

Original publication: February 14, 1997

Modified May 1997 per BMS request to break out Bladder and Bowel Incontinence; also removed bowel criteria from QI106;

Modified June 1997 to include suggestions on Cognitive Impairment –Created new indicator to reflect modified cognition (*Memory recall skills section (B2) removed because it was felt this inaccurately assessed the residents' actual abilities since much is learned through habit*)

And

Falls – Removed falls from the injury indicator and created separate indicator for falls from 23 May 97 BMS QI Meeting;

Modified August 1999 to change field names to correspond to new form revised 30 September 1998 and added scheduled meds; Changed behavior symptoms to include all behaviors; Changed low degree of incontinence to exclude continent residents; Changed high risk acute condition proxy (Deleted proxy for acute condition and weight loss (k3a) and Diarrhea (J1e)) to monitoring acute conditions (P3 A or B = 1, 2 or 3);

Modified November 1999, deleted QI120 (Absence of Positive Psychosocial Well-being). Renamed QI121 to QI124 (moved up by one number). Added 2 new QIs: QI124 – Prevalence of ER Visits and QI125 – Prevalence of Psychiatric Hospital Stays.

Modified December 2000 to change field numbers to correspond to new form revised in July 2000.

Modified April 2001 – Added new QIs for survey staff – QIs #126-133

Modified June 2001 - Added new QIs for survey Staff - QIs #137 - 152

Modified December, 2003 – deleted QI's 120, 129, 130, 131, 132, 140 and 143 (as noted above) and renumbered QI's starting with 1; Added QIs developed for survey use and dropped the peer group comparison from the summary report

Modified September 2006 – QI31 changed to use Payment Group rather than Clinical Group - Records recalculated