APR-DRG & EAPG

BCBSMN PAYMENT METHODOLOGY



APR-DRG INPATIENT PAYMENT



Key Features: APR-DRG Inpatient Payment

- Case based payment (payment determined by date of admit).
- Outlier add-on payments for costs incurred above predetermined thresholds.
- Transfer Payment for transferring facility.
- Covers all inpatient cases



Payment Under the APR-DRG System

How We Calculate Reimbursement Under the APR-DRG System



Hierarchy:

- Outlier (1.5% cases)
- Transfer Cases (2.0% cases)
- Standard Case (96.5% cases)



Payment Methodology: Outlier Cases

- Outliers: cases with costs that exceed outlier cost threshold
- Thresholds developed using interquartile range (IQR) methodology
- To determine the IQR:
 - Organize case costs with APRDRG from least to greatest value
 - Split data into 4 quartiles
 - Determine Outlier Threshold = (y) * (Q3-Q1) + Q3
- Target between 1-1.5% of network cases to be tagged as outliers
- One threshold per APRDRG for all facilities in network
- Outliers are paid standard case rate plus an additional add on payment meant to cover additional cost



An Example:

Payment Methodology: Outlier Cases

APR-DRG	225 Appendectomy
Severity level	4 Extreme
APR/SEV Weight	3.0654
Network Outlier Cost Threshold	\$21,256

Facility Rate (illustrative)	\$10,000
Facility Charges	\$124,968
Applicable RCC	0.29

1. Case Cost:

Facility Charges (\$124,968) x Applicable RCC (0.29) = \$36,241

2. Outlier Payment:

Case Cost (\$36,241) – Outlier Cost Threshold (\$21,256) = \$14,985

3. APR-DRG Case Rate:

Case Weight (3.0654) x Facility Rate (\$10,000) = \$30,654

4. Final Outlier Case Payment:

APR-DRG Case Rate (\$30,654) + Outlier Payment (\$14,985) = \$45,639



Payment Methodology: Transfer Cases

- Transferring facility receives 50% of the calculated case payment based upon the submitted claim detail from *transferring* facility.
- Transfer cases are defined as discharge status '02'.
- Receiving facility receives 100% of the calculated case payment based upon the submitted claim detail from *receiving* facility.



An Example:

Payment Methodology: Transfer Cases

APR-DRG	225 Appendectomy
Severity level	2 Moderate

APR/SEV Weight	1.0905
Facility Rate (illustrative)	\$10,000

Regular Case Payment:

Facility Rate $(\$10,000) \times APR/SEV$ weight (1.0905) = \$10,905

Transfer Case Payment:

Regular Case Rate (\$10,905) X .5 = \$5452.50



An Example:

Payment Methodology: Standard Cases

APR-DRG	225 Appendectomy
Severity level	2 Moderate

APR/SEV Weight	1.0905
Facility Rate (illustrative)	\$10,000

Regular Case Payment:

Facility Rate (\$10,000) x APR/SEV weight (1.0905) = \$10,905



EAPG

OUTPATIENT PAYMENT



Key Features: EAPG Outpatient Payment

- Visit based payment (determined by date with the exception of emergency department, observation and treatment room).
- Discounting of multiple services:
 - Multiple significant procedures on same day
 - Repeat ancillary EAPGs
 - Bilateral with Modifier 50
 - Terminated procedures (Modifiers 52 or 73)



EAPG Key Features (continued)

- Modifiers used:
 - 25 separate E&M
 - 27 multiple E&M on same day
 - 52 reduced services
 - 73 discontinued service

- 59 distinct procedural service
- 50 bilateral procedure
- Therapy (GP, GO, GN)

- Case Rate for Direct Admit to Observation
- Per Diem Rate for full or partial hospitalization for mental health and substance abuse services (directly and indirectly determined).



EAPG Key Features (continued)

Packaging of lower level ancillary services:

EAPG	Description		
373	Level I Dental Film		
374	Level II Dental Film		
375	Dental Anesthesia		
376	Diagnostic Dental Procedures		
377	Preventive Dental Procedures		
380	Anesthesia		
390	Level I Pathology		
394	Level I Immunology Tests		
396	Level I Microbiology Tests		
398	Level I Endocrinology Tests		
400	Level I Chemistry Tests		
402	Basic Chemistry Tests		
406	Level I Clotting Tests		
408	Level I Hematology Tests		
410	Urinalysis		

EAPG	Description		
411	Blood and Urine Dipsticks Tests		
412	Simple Pulmonary Function Tests		
413	Cardiogram		
423	Introduction of Needle and Catheter		
424	Dressings and Other Minor Procedures		
425	Other Miscellaneous Ancillary Procedures		
426	Psychotropic Medication Management		
427	Biofeedback and Other Training		
428	Patient Education, Individual		
429	Patient Education, Group		
448	Expanded Hours Access		
449	Additional Undifferentiated Medical Services		
457	Venipuncture		
471	Plain Film		
490	Incidental Supplies and Services		





EAPG Key Features (continued)

- Fee schedule for pharmacotherapy and chemotherapy drugs.
- Packaging of medical visit with significant procedure (unless appropriate modifier is used).
- Packaging of ancillary observation with a significant procedure.



EAPG Payment Summary

Primary APG Type	Included in Base Rate	Additional Payment Available
Significant Procedure or Therapy	 Routine Ancillaries Incidental Procedures and visits Supplies Drugs (other than Fee Schedule) Anesthesia Ancillary Observation 	 Additional procedures where applicable and subject to discounting Non-packaged ancillaries Drug fee schedule
Medical Visit (including Emergency)	 Routine Ancillaries Incidental Procedures Supplies Drugs (other than Fee Schedule) 	 Non-packaged ancillaries Drug fee schedule Ancillary Observation
Direct Admit for Observation	 Medical Visit Routine Ancillaries Incidental Procedures Supplies Drugs (other than Fee Schedule) Ancillary Observation 	Non-packaged ancillaries Drug fee schedule
Mental Health or Chemical Dependency Full day partial admission (defined by direct code or code count)	 Routine Ancillaries Incidental Procedures Supplies Drugs (other than Fee Schedule) Counseling 	Non-packaged ancillaries Drug fee schedule
Mental Health ½ day partial admission (defined by direct codes)	 Routine Ancillaries Incidental Procedures Supplies Drugs (other than Fee Schedule) 	Non-packaged ancillaries Drug fee schedule
Ancillary Only	Ancillary Services	Second ancillary service subject to discounting

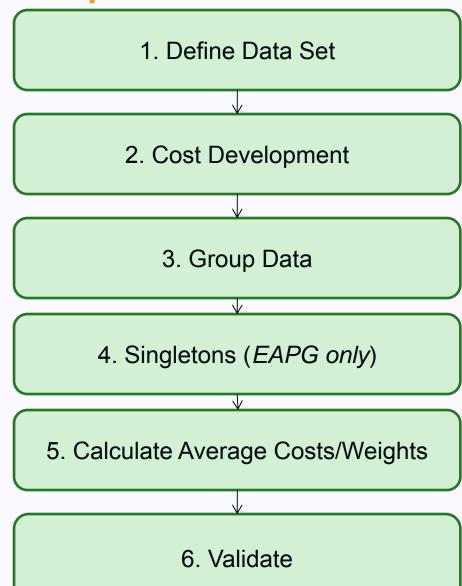


APR-DRG & EAPG

DEVELOPING RELATIVE WEIGHTS



Six Basic Steps



Step 1: Define Data Set

	APR-DRG	EAPG	
Period	Based on claims discharged between 1/1/10 – 12/31/10, paid through June 2011		
Facilities	Any Minnesota par facility with valid Medicare Cost Report (MCR)		
Lines of Business	Commercial and Medicaid lines of business		
Exclusions	•Transfers •Claim allowed <\$500 except neonate •Charges <\$250 •Cost <=\$0 •Ungroupable •Drug fee schedule items: defined by HCPCS codes •80% of drug supply billed as revenue code only: 25X •100% of drug supply billed as revenue code only: 63X •Inpatient only claims •Claims > \$50,000 (single claim)		



Step 2: Cost Development

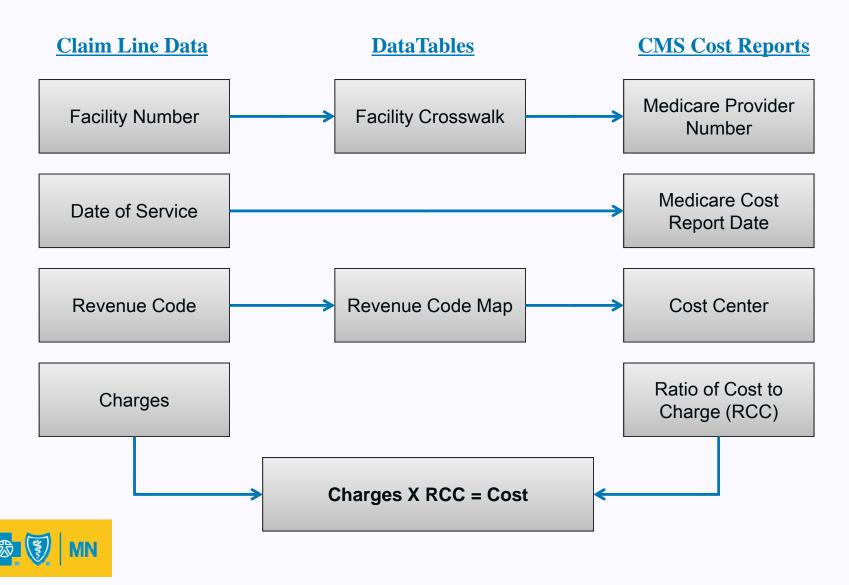
Costs are the basis for relative weights

 Costs derived from line-level charges using ratio of cost to charges (RCC) from Medicare Cost Report (MCR)

Line-level costs are aggregated into case/visit costs



Step 2: Cost Development



Step 2: Cost Development

- Costs facility specific MCRs (most recent cost report in CMS HCRIS file March 2011)
- Followed CMS rules for inclusions and exclusions (Schedule C)
- Excluded Costs:
 - A-8 adjustments
 - Direct medical education
 - Physician costs from A-8
 - Non-reimbursable cost centers
 - Observation
 - Organ acquisition



Step 3: Group Data

	APR-DRG	EAPG
Unit of Service	Inpatient stay (case)	Visit: claims with multiple dates of service will split
Classification	Single APR- DRG/Severity assignment for entire case	Grouper assigns EAPG to each line depending on the HCPCS code and/or ICD9 code.



Step 4: Singleton Visits (*EAPG only*)

- Singleton = single service visit
- Provide the best estimate for average resource consumption by EAPG.
- Include cost estimates for:
 - Packaged ancillary services
 - Revenue code only (RCO) services (except drug supply exclusions)
- Does not include cost estimates for discounted services.



Step 4: Singleton Visits: Example

Single Line: Singleton					
29888 38 Level II Arthroscopy Significant Procedure Full Payment					

Multiple Lines: Singleton								
29888	38	Level II Arthroscopy	Significant Procedure	Full Payment				
RCO (20% of 25X, non-63X)	999	Error	Error	Packaged				
84999	400	Level I Chemistry	Ancillary	Packaged				

BUT: the addition of the following procedure to either of the above would result in a non-singleton.

11400

9

Level I Excision

Significant Procedure

Discounted



Step 4: Singleton Visits: Pseudo Singletons

Exception to singleton logic is made for procedures with high cost implantable devices: Anchors, Screws Closures, devices Corneal Tissue Ocular Devices Other

- Others

Decision Logic:

# Proc	# Devices	# Eligible Pair	# Distinct Pairs	2 nd Device Eligible?	Pseudo- Singleton Eligible?	Reason
1	1	1	1		Υ	Eligible Pair
1	1	0	0		N	Not an eligible Pair
2	1	1	1		Υ	Distinct Pair eligible
1	2	1	1	Υ	Υ	Eligible for 2 nd device pair
1	2	1	1	N	Υ	Distinct Pair eligible
1	2	2	0	N	N	Cannot determine eligible pair
2	2	2	2	N	Υ	Include each pair



Step 5: Calculate Relative Weights

Relative Weight

 Measure of the resource intensity of a unit* relative to other units in a specific data set.

Determine Average Cost for Each Unit

= \sum of unit costs/ \sum of all Units = Unit Average Cost

Determine Average Cost for Entire Data Set

= \sum of all costs/ \sum of all units = Average Cost All Units

Determine Unit Relative Weight

= Unit Average Cost / Average Cost All Units

*Note: Inpatient Unit= APR=DRG/Severity

Outpatient Unit = Singleton EAPGs



Step 5: Calculate Relative Weights: Examples

APR-DRG

∑ APR 383 Sev 3 Cellulitis / ∑ of all APR-DRGs

= \$2,850 / \$3,400 = .8382

EAPG

∑ Singleton EAPG 14 Level III Skin Repair / ∑ of all EAPGs



Step 5: Calculate Relative Weights: Adjustments

Weight Breadth

- Null volume cells
- Low volume cells--monotonicity
- Single provider cells

Benchmark Weights:

- Weight relativity
- High volume/high cost services
- Overall reasonableness of weights



Next Steps

- Distribute Conversion Packages:
 - Inpatient APR DRG Base Rate and Impact Reports
 - APR DRG Version 27 Weight Set
 - •APR DRG Version 27 Cost-Based Outlier Thresholds
 - Outpatient EAPG Base Rate and Impact Reports
 - Standard Fee Schedule
 - Ratio of Cost to Charge
 - MHSA Document
- Ongoing discussion and educational support
- Contract and Provider Manual Changes

