

APR-DRG Per Stay Method Calculator Instructions

DC Specialty Hospital Project

Submitted to the District of Columbia Department of Health Care Finance

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1. Overview

The purpose of this document is to provide pertinent details to users about the design, content and functionality of the DRG pricing calculator. The DRG pricing calculator is an interactive spreadsheet.

The instructions shown in this document are intended to guide users through the steps necessary to effectively utilize the DRG pricing calculator. The instructions assume you will work through all the examples from beginning to end. Each example assumes that your DRG calculator is set to the settings of the previous example, then user input changes are highlighted. A variety of DRG payment types and DRG calculator utilization techniques are illustrated in the sections that follow.

1.1 Structure of the DRG Calculator

The DRG Calculator is comprised of four tabs. The four tabs are as follows:

- Cover Page This tab contains an introduction to the DRG Calculator.
- Calculator This tab contains the interactive portion of the DRG calculator. Cells shaded in dark grey are user input fields. Cells shaded in light grey are policy parameters set by the Department.
- DRG Base Rate Add-ons This tab contains per-stay specialty hospital base rate and add-ons.
- DRG Table This tab contains the DRG values. This table interacts with the calculator tab. It supplies the DRG specific values which are critical in the execution of the pricing functions of the calculator.

2. DRG Calculator Instructions

The examples and instructions throughout this document were developed to provide users with the information necessary to utilize the DRG calculator tool. The user enters data into cells shaded with the dark gray background in Column E. The spreadsheet automatically calculates the payment amount for the particular stay. The calculator does not predict the DRG. The user must have the DRG information prior to using the tool.

Payment policy parameter values are shown in the light gray background. The final payment amount including add-ons is shown in the last active cell in column E of the calculator tab which is shaded in black. Please keep in mind that the DRG calculator is intended to be helpful to users, but it cannot capture all the complexity of the Medicaid claims processing system. In the event of a discrepancy, the claims processing system should be considered correct.

The following pricing scenarios are depicted in this document:

- · Straight DRG
- Acute Care Transfer
- · High-Side Outlier Adjustment
- · Low-Side Outlier Adjustment
- Interim Claim

For simplicity, each example builds on the previous example where possible.

2.1 Straight DRG

This is the simplest case, likely to apply to approximately 95 percent of inpatient stays. Follow these steps and use these values unless otherwise directed for other scenarios. Values and parameters are examples only. The table below has been altered to assist with clarity. A full view of the calculator follows.

- Input Total charges (cell E7): \$130,062
- Input Hospital-specific cost-to-charge ratio (cell E8): 39.30%
- Input Length of stay (cell E9): 31
- Input Patient discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, or 94? (cell E10): No
- Input Patient age (cell E11): 59
- Input Other health coverage (cell E12): \$0.00
- Input Patient share of cost (cell E13): \$0.00
- Input is discharge status equal to 30? (cell E14): No

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- Input Hospital-specific DRG base rate, including DMZ (cell E15): \$24,648.47
- Input APR-DRG (cell E18): 890-4
- Output Payment amount (cell E66): \$73,977.77
- Output Reimbursed amount (cell E69): \$73,977.77

2.1.1 Straight DRG Example

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2	DC Medicaid DRG Pricing Calculato	r	
4	Indicates information to be input by the user (cells E7-E18 estimate of final payment in Cells E66 and E69.	3). Look for an	Indicates payment policy parameters set by Medicaid (cells E20-E28). Check Tab 3- DRG Base Rate Add-ons for hospital-specific base rates and add-ons to use in calculator.
5	Information	Data	Comments or Formula
6	INFORMATION FROM THE HOSPITAL TO BE INPUT BY		
7	Total charges	\$130,062.00	UB-04 Form Locator 47
8 9	Cost-to-charge (CCR) ratio (Hospital-specific)	39.30%	Used to estimate the hospital's cost of this stay
9 10	Length of stay Discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, 94	31 No	Used for transfer pricing adjustment Used for transfer pricing adjustment
11	Patient age (in years)	59	Used for age adjustor
12	Other health coverage	\$0.00	UB-04 Form Locator 54 for payments by third parties
13	Patient share of cost	\$0.00	Includes spend-down or copayment
	Is discharge status equal to 30?	No	Indicates an interim claim
	DRG base rate (Hospital-specific including EDZ)	\$24,648.47	Used for DRG base paymentsee 3-DRG base Rate Add-ons
16 17	Capital add-on payment (Hospital-specific)	\$0.00 \$0.00	Not applicable for adult LTCH specialty hospitals Not applicable for adult LTCH specialty hospitals
	DME add-on payment (Hospital-specific) APR-DRG	890-4	Assigned via separate APR-DRG grouping software
19	PAYMENT POLICY PARAMETERS SET BY MEDICAID-SU		
20	High-cost outlier threshold	\$60,000	Used for high-cost outlier adjustments
21	Low-cost outlier threshold	\$25,000	Used for low-cost outlier adjustments
22	Marginal cost percentage	80%	Used for high-cost outlier adjustments
23	Interim claim threshold days	30	Threshold defining interim claims in days
24 25	Interim claim threshold- dollars Interim per diem amount	\$500,000 \$500	Threshold defining interim claims in dollars Per diem for pricing interim claims
25 26	Pediatric mental health adjustor	1.00	Not used
27	Neonate adjustor	1.00	Not used
28	Pediatric adjustor (excludes ped MH, neonate, newborns)	1.00	Not used
29	APR-DRG INFORMATION		
	4.00.000 A	HIV W Multiple	
30	APR-DRG description	Major HIV Related	Look up from DRG table
31	Casemix relative weightunadjusted	Conditions 3.001313	Look up from DRG table
32	Pediatric Medicaid Care Category	n/a	Not applicable
33	Pediatric or Neonate Policy adjustor used (if applicable)	1.00	Not applicable
	Payment relative weight	3.00131	Casemix relative weight (E31) times policy adjustor (E33)
	National average length of stay for this APR-DRG	15.14	Look up from DRG table
36	IS THIS AN INTERIM CLAIM?		
37	Is discharge status equal to 30?	No	Look up E14
38 39	Is length of stay > interim claim threshold? Are charges > interim claim threshold?	N/A N/A	IF E37="Yes", then if (E9 > E23), "Yes", else "No", else "N/A"
40	Skip to E69 for final interim claim payment amount	\$0	IF E37="Yes", then if (E7>E24), then "Yes", else "No", else "N/A" IF E38 or E39="Yes", (E9*E25), else 0
	WHAT IS THE DRG BASE PAYMENT?	-	1 255 5, 255 - 155 , (25 225), 5155 5
	DRG base payment	\$73,977.77	Payment relative weight (E34) times hospital-specific base price w/IME (E15)
43	IS A TRANSFER PAYMENT ADJUSTMENT MADE?		
44	Is a transfer adjustment potentially applicable?	No	Look up E10
45	Calculated transfer payment adjustment	N/A	IF E44="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"
46 47	Is transfer payment adjustment < DRG base payment so far? Allowed amount after transfer adjustment	N/A \$73,977.77	IF E45 ="N/A" then ,"N/A", else if (E45 <e42), "no"="" "yes"="" ,="" e42<="" e45,="" e46="Yes" else="" if="" td="" then=""></e42),>
48	IS A COST OUTLIER ADJUSTMENT MADE?	φιο,σιι.ιι	1 240= 100 ; 11011 240 ; 0100 242
49	Estimated cost of this case	\$51,114.37	Est. cost = charges times CCR (E7 * E8)
50	Is estimated cost > allowed amount	Gain	IF E49 > E47 then "Loss" else "Gain"
51	High-Side Outlier Payment When Payment Is Much Lower		
52	Estimated loss on this case	N/A	IF E50 = "Loss", then est. cost minus allowed amount (E49-E47), else "N/A"
53	Is estimated loss > outlier threshold	N/A	IF E50 = "Loss", then if loss > threshold (E52 > E20), then "Yes", else "No", else "N/A" IF E53 = "Yes", then if loss is less than high-cost outlier threshold (E52 <e20), else<="" td="" then="" zero,=""></e20),>
54	DRG cost outlier payment increase	\$0.00	loss greater than high-cost threshold is multiplied times marginal cost threshold ((E52-E20)*E22),
		4 00	else 0
55	Low Side Outlier Payment When Payment Is Much Greate		
56	Estimated gain on this case	\$22,863.41	IF E50="Gain", then (E47-E49), else"N/A"
57	ls gain > outlier threshold	No	IF E50="Gain", then if gain> threshold (E56>E21), then "Yes", else "No", else "N/A"
٠.	lo gam's outlier unconoid		11 200 - Call , thorn game through (2007 221), thorn 100 , 000 No , 000 No
58	Calculated transfer payment adjustment	N/A	IF E57="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"
59	Is transfer payment adjustment < DRG base payment so far?	N/A	IF E58 ="N/A" then ,"N/A", else if (E58 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>
60	Allowed amount after DRG cost outlier payment decrease	\$73,977.77	IF E50="Gain" and if E59="Yes", then pay transfer adjustment (E58), else E47
61	ALLOWED AMOUNT AFTER TRANSFER AND OUTLIER AD		
62	Allowed Amount	\$73,977.77	IF E50="Loss", then allowed amount + high side outlier payment (E47+E54), else low-side outlier payment (E60)
63	CALCULATION OF PAYMENT AND REIMBURSEMENT AMO	DUNT	1.4
64	Other health coverage	\$0.00	E12
65	Patient share of cost	\$0.00	E13
	Payment amount	\$73,977.77	If interim claim (E40>0), then interim claim (E40) amount as payment amount. Otherwise, subtract other health coverage (E64) and patient share of cost (E65) from allowed amount (E62) to obtain payment amount.
			unian navnedi amoni
	Capital Add-on amount	\$0.00	
67	Capital Add-on amount DME add-on amount	\$0.00 \$0.00	Not applicable Not applicable

2.2 Acute Care Transfer

When a patient is transferred to another acute care setting (discharge status 02, 05, 63, 65, 66, 82, 85, 91, 93, or 94), the payment to the transferring hospital may, or may not, be reduced. For these stays, the transferring hospital will be paid the lesser of the DRG base payment or the transfer payment.

The transfer calculation is applied to the transferring hospital according to the following calculation using the national average lengths of stay (ALOS) available with the APR-DRG grouper (untrimmed arithmetic averages):

Transfer Payment= (Base DRG Amount/National ALOS) x (LOS +1)

If the transfer payment adjustment results in an amount greater than the DRG base amount without the adjustment, the transfer payment is disregarded. The hospital receiving the patient collects the full DRG payment (unless the referring hospital also transfers the patient).

- Input Patient discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, or 94? (cell E10):
 Yes
- Input Patient age (cell E11): 59
- Input APR-DRG: 890-4
- Input Length of Stay (cell E9): 2 (patient was transferred after 2 days)
- When the user enters "Yes" for discharge status 02, 05, 63, 65, 66, 82, 85, 91, 93, or 94, cells E44-47 are updated with the transfer payment adjustment calculation.
- Output Payment amount (cell E66): \$14,655.81
- Output Reimbursed amount (cell E69): \$14,655.81

2.2.1 Acute Care Transfer Example

DC Medicaid DRG Pricing Calculator			
Indicates information to be input by the user (cells E7-E1 estimate of final payment in Cells E66 and E69.	8). Look for an	Indicates payment policy parameters set by Medicaid (cells E20-E28). Check Tab 3- DRG Ba Rate Add-ons for hospital-specific base rates and add-ons to use in calculator.	
Information	Data	Comments or Formula	
INFORMATION FROM THE HOSPITAL TO BE INPUT BY Total charges	\$130,062.00	UB-04 Form Locator 47	
Cost-to-charge (CCR) ratio (Hospital-specific)	39.30%	Used to estimate the hospital's cost of this stay	
Length of stay	2	Used for transfer pricing adjustment	
Discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, 94	Yes	Used for transfer pricing adjustment	
Patient age (in years)	59	Used for age adjustor	
Other health coverage	\$0.00	UB-04 Form Locator 54 for payments by third parties	
Patient share of cost	\$0.00	Includes spend-down or copayment	
I Is discharge status equal to 30? DRG base rate (Hospital-specific including EDZ)	No \$24,648.47	Indicates an interim claim	
Capital add-on payment (Hospital-specific)	\$24,648.47	Used for DRG base paymentsee 3-DRG base Rate Add-ons Not applicable for adult LTCH specialty hospitals	
DME add-on payment (Hospital-specific)	\$0.00	Not applicable for adult LTCH specialty hospitals	
APR-DRG	890-4	Assigned via separate APR-DRG grouping software	
PAYMENT POLICY PARAMETERS SET BY MEDICAID-SU	BJECT TO CHANG		
High-cost outlier threshold	\$60,000	Used for high-cost outlier adjustments	
Low-cost outlier threshold	\$25,000	Used for low-cost outlier adjustments	
Marginal cost percentage	80%	Used for high-cost outlier adjustments	
Interim claim threshold- days Interim claim threshold- dollars	30 \$500,000	Threshold defining interim claims in days Threshold defining interim claims in dollars	
Interim claim threshold- dollars Interim per diem amount	\$500,000 \$500	Per diem for pricing interim claims	
Pediatric mental health adjustor	1.00	Not used	
Neonate adjustor	1.00	Not used	
Pediatric adjustor (excludes ped MH, neonate, newborns)	1.00	Not used	
APR-DRG INFORMATION			
APR-DRG description	HIV W Multiple Major HIV Related	Look up from DRG table	
	Conditions		
Casemix relative weightunadjusted Pediatric Medicaid Care Category	3.001313	Look up from DRG table	
Pediatric Medicaid Care Category	n/a	Not applicable	
Pediatric or Neonate Policy adjustor used (if applicable) Payment relative weight	1.00 3.00131	Not applicable Casemix relative weight (E31) times policy adjustor (E33)	
Payment relative weight National average length of stay for this APR-DRG	15.14	Look up from DRG table	
IS THIS AN INTERIM CLAIM?	10.11	ESSK OF HOLL SITE CONTROL	
Is discharge status equal to 30?	No	Look up E14	
Is length of stay > interim claim threshold?	N/A	IF E37="Yes", then if (E9 > E23), "Yes", else "No", else "N/A"	
Are charges > interim claim threshold?	N/A	IF E37="Yes", then if (E7>E24), then "Yes", else "No", else "N/A"	
Skip to E69 for final interim claim payment amount WHAT IS THE DRG BASE PAYMENT?	\$0	IF E38 or E39="Yes", (E9*E25), else 0	
WHAT IS THE DRG BASE PAYMENT? DRG base payment	\$73,977.77	Payment relative weight (E34) times hospital-specific base price w/IME (E15)	
IS A TRANSFER PAYMENT ADJUSTMENT MADE?	\$13,911.11	Payment relative weight (E34) times hospital-specific base price white (E15)	
Is a transfer adjustment potentially applicable?	Yes	Look up E10	
Calculated transfer payment adjustment	\$14,655.81	IF E44="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
Is transfer payment adjustment < DRG base payment so far?	Yes	IF E45 ="N/A" then ,"N/A", else if (E45 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
Allowed amount after transfer adjustment	\$14,655.81	IF E46= "Yes", then E45, else E42	
IS A COST OUTLIER ADJUSTMENT MADE?			
Estimated cost of this case	\$51,114.37	Est. cost = charges times CCR (E7 * E8)	
Is estimated cost > allowed amount High-Side Outlier Payment When Payment Is Much Lowe	Loss or than Cost	IF E49 > E47 then "Loss" else "Gain"	
High-Side Outlier Payment When Payment Is Much Lower Estimated loss on this case	\$36,458.56	IF E50 = "Loss", then est. cost minus allowed amount (E49-E47), else "N/A"	
Is estimated loss > outlier threshold	No	IF E50 = "Loss", then if loss > threshold (E52 > E20), then "Yes", else "No", else "N/A" IF E53 = "Yes", then if loss is less than high-cost outlier threshold (E52 <e20), else<="" td="" then="" zero,=""></e20),>	
DRG cost outlier payment increase	\$0.00	loss greater than high-cost threshold is multiplied times marginal cost threshold ((E52-E20)*E2 else 0	
Low Side Outlier Payment When Payment Is Much Greate	er than Cost	0.00 0	
Estimated gain on this case	N/A	IF E50="Gain", then (E47-E49), else"N/A"	
ls gain > outlier threshold	N/A	IF E50="Gain", then if gain> threshold (E56>E21), then "Yes", else "No", else "N/A"	
Calculated transfer payment adjustment	N/A	IF E57="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
Is transfer payment adjustment < DRG base payment so far?		IF E58 ="N/A" then ,"N/A", else if (E58 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
Allowed amount after DRG cost outlier payment decrease ALLOWED AMOUNT AFTER TRANSFER AND OUTLIER A	\$14,655.81 DJUSTMENTS	IF E50="Gain" and if E59="Yes", then pay transfer adjustment (E58), else E47	
Allowed Amount	\$14,655.81	IF E50="Loss", then allowed amount + high side outlier payment (E47+E54), else low-side outlier payment (E60)	
CALCULATION OF PAYMENT AND REIMBURSEMENT AM	OUNT		
CALCULATION OF PAYMENT AND REIMBURSEMENT AM Other health coverage	\$0.00	E12	
Patient share of cost	\$0.00	E13	
Payment amount	\$14,655.81	If interim claim (E40>0), then interim claim (E40) amount as payment amount. Otherwise, subtract other health coverage (E64) and patient share of cost (E65) from allowed amount (E62, betain sources) amount of the control of the con	
Capital Add-on amount	\$0.00	obtain payment amount. Not applicable	
B DME add-on amount	\$0.00	Not applicable	
Reimbursed amount including add-ons	\$14,655.81	E69=E66+E67+E68, unless interim claim, in which case E69=E40	



2.3 High-Side Outlier Adjustment

This adjustment applies to stays that are exceptionally expensive for a hospital. Each stay is evaluated for whether it qualifies as a cost outlier stay. If so, the cost outlier payment is calculated. For high-side outliers, this increases payment.

- Input Total charges (cell E7): \$450,000.00
- · Input Discharge status: No

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- Because the estimated loss of this case (cell E52: \$102,872.30) exceeds the cost outlier threshold (cell E20: \$60,000), a cost adjustment is applicable.
- The threshold amount is subtracted from the estimated loss, and then multiplied by marginal cost percentage (cell E22: 80%). That amount is added to the previously allowed amount.
- See cells E52-54 for the high-side outlier adjustment calculation.
- DRG cost outlier payment increase (cell E54): \$34,297.84
- Output Payment amount (cell E66): \$108,275.55
- Output Reimbursed amount (cell E69): \$108,275.55

2.3.1 High-Side Outlier Adjustment Example

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1	C D	E	F G
2	DC Medicaid DRG Pricing Calculato	r	
3			
1	Indicates information to be input by the user (cells E7-E18 estimate of final payment in Cells E66 and E69.	3). Look for an	Indicates payment policy parameters set by Medicaid (cells E20-E28). Check Tab 3- DRG Bas Rate Add-ons for hospital-specific base rates and add-ons to use in calculator.
Information Data Comments or Formula			
	INFORMATION FROM THE HOSPITAL TO BE INPUT BY		
	Total charges	\$450,000.00	UB-04 Form Locator 47
	Cost-to-charge (CCR) ratio (Hospital-specific) Length of stay	39.30% 2	Used to estimate the hospital's cost of this stay Used for transfer pricing adjustment
0	Discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, 94	No	Used for transfer pricing adjustment
1	Patient age (in years)	59	Used for age adjustor
2	Other health coverage	\$0.00	UB-04 Form Locator 54 for payments by third parties
	Patient share of cost	\$0.00	Includes spend-down or copayment
	Is discharge status equal to 30?	No	Indicates an interim claim
	DRG base rate (Hospital-specific including EDZ) Capital add-on payment (Hospital-specific)	\$24,648.47 \$0.00	Used for DRG base payment-see 3-DRG base Rate Add-ons Not applicable for adult LTCH specialty hospitals
7	DME add-on payment (Hospital-specific)	\$0.00	Not applicable for adult LTCH specialty hospitals
	APR-DRG	890-4	Assigned via separate APR-DRG grouping software
9	PAYMENT POLICY PARAMETERS SET BY MEDICAID-SU		E
0	High-cost outlier threshold	\$60,000	Used for high-cost outlier adjustments
1	Low-cost outlier threshold	\$25,000 80%	Used for ligh-cost outlier adjustments
3	Marginal cost percentage Interim claim threshold- days	80% 30	Used for high-cost outlier adjustments Threshold defining interim claims in days
4	Interim claim threshold- dollars	\$500,000	Threshold defining interim claims in days Threshold defining interim claims in dollars
5	Interim per diem amount	\$500	Per diem for pricing interim claims
6	Pediatric mental health adjustor	1.00	Not used
7	Neonate adjustor	1.00	Not used
8	Pediatric adjustor (excludes ped MH, neonate, newborns) APR-DRG INFORMATION	1.00	Not used
.9	AFR-DRG INFORMATION	HIV W Multiple	
0	APR-DRG description	Major HIV Related Conditions	Look up from DRG table
1	Casemix relative weightunadjusted	3.001313	Look up from DRG table
	Pediatric Medicaid Care Category	n/a	Not applicable
3	Pediatric or Neonate Policy adjustor used (if applicable)	1.00	Not applicable
4	Payment relative weight	3.00131	Casemix relative weight (E31) times policy adjustor (E33)
	National average length of stay for this APR-DRG	15.14	Look up from DRG table
6 7	IS THIS AN INTERIM CLAIM? Is discharge status equal to 30?	No	Look up E14
	Is length of stay > interim claim threshold?	N/A	IF E37="Yes", then if (E9 > E23), "Yes", else "No", else "N/A"
9	Are charges > interim claim threshold?	N/A	IF E37="Yes", then if (E7>E24), then "Yes", else "No", else "N/A"
	Skip to E69 for final interim claim payment amount	\$0	IF E38 or E39="Yes", (E9*E25), else 0
1	WHAT IS THE DRG BASE PAYMENT? DRG base payment	\$73,977.77	Dougland solution weight (F24) times because and a price w/IMF (F45)
	IS A TRANSFER PAYMENT ADJUSTMENT MADE?	φιο,9ιι.ιι	Payment relative weight (E34) times hospital-specific base price w/IME (E15)
	Is a transfer adjustment potentially applicable?	No	Look up E10
5	Calculated transfer payment adjustment	N/A	IF E44="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"
6	Is transfer payment adjustment < DRG base payment so far?		IF E45 = "N/A" then ,"N/A", else if (E45 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>
7	Allowed amount after transfer adjustment IS A COST OUTLIER ADJUSTMENT MADE?	\$73,977.77	IF E46= "Yes", then E45, else E42
9	Estimated cost of this case	\$176,850.00	Est. cost = charges times CCR (E7 * E8)
0	Is estimated cost > allowed amount	Loss	IF E49 > E47 then "Loss" else "Gain"
1	High-Side Outlier Payment When Payment Is Much Lower		
2	Estimated loss on this case	\$102,872.23	IF E50 = "Loss", then est. cost minus allowed amount (E49-E47), else "N/A"
3	Is estimated loss > outlier threshold	Yes	IF E50 = "Loss", then if loss > threshold (E52 > E20), then "Yes", else "No", else "N/A" IF E53 = "Yes", then if loss is less than high-cost outlier threshold (E52 <e20), else<="" td="" then="" zero,=""></e20),>
4	DRG cost outlier payment increase	\$34,297.78	loss greater than high-cost threshold is multiplied times marginal cost threshold ((E52-E20)*E22 else 0
5	Low Side Outlier Payment When Payment Is Much Greate	er than Cost	0.000
6	Estimated gain on this case	N/A	IF E50="Gain", then (E47-E49), else"N/A"
7	ls gain > outlier threshold	N/A	IF E50="Gain", then if gain> threshold (E56>E21), then "Yes", else "No", else "N/A"
8	Calculated transfer payment adjustment	N/A	IF E57="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"
9	Is transfer payment adjustment < DRG base payment so far?	N/A	IF E58 ="N/A" then ,"N/A", else if (E58 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>
0	Allowed amount after DRG cost outlier payment decrease ALLOWED AMOUNT AFTER TRANSFER AND OUTLIER AL	\$73,977.77 DJUSTMENTS	IF E50="Gain" and if E59="Yes", then pay transfer adjustment (E58), else E47
2	Allowed Amount	\$108,275.55	IF E50="Loss", then allowed amount + high side outlier payment (E47+E54), else low-side outlie payment (E60)
3	CALCULATION OF PAYMENT AND REIMBURSEMENT AM	OUNT	·
4	Other health coverage	\$0.00	E12
5	Patient share of cost	\$0.00	E13
6	Payment amount	\$108,275.55	If interim claim (E40>0), then interim claim (E40) amount as payment amount. Otherwise, subtract other health coverage (E64) and patient share of cost (E65) from allowed amount (E62) obtain payment amount.
67	Capital Add-on amount	\$0.00	Not applicable
8	DME add-on amount	\$0.00	Not applicable
69	Reimbursed amount including add-ons	\$108,275.55	E69=E66+E67+E68, unless interim claim, in which case E69=E40

2.4 Low-Side Outlier Adjustment

Just as outlier payments are intended to increase payment when a stay is extraordinarily and unpredictably expensive, the low-side outlier adjustment decreases funding when a stay is extraordinarily and unpredictably inexpensive. This adjustment applies when payment would be much greater than cost and the hospital stands to make a large gain. It reduces the payment amount allowed to providers.

These claims would be priced using the same algorithm as a transfer case (per diem based on claim length of stay compared to average length of stay for the DRG category). For a low-cost outlier, the adjustment calculation is based on the length of stay (LOS) for the hospital stay as compared to the national average length of stay (ALOS). The calculation is the same as the calculation for the transfer policy. This calculation results in the final DRG payment if it is less than the original DRG payment

The base payment is calculated by multiplying the base rate times the relative weight associated with the DRG. The national average length of stay is taken from a system table and used to calculate a transfer payment. Since this is less than the straight base payment, the transfer payment is paid subject to other add-ons and adjustments.

- Input Total charges (cell E7): \$45,000.00
- Input APR-DRG (cell E16): 890-4
- Input Length of Stay (cell E9): 10
- Estimated gain (cell E56: \$56,292.70) exceeds the low-cost outlier threshold (cell E21: \$25,000)
- Allowed amount before outlier adjustment (cell E47): \$\$73,977.70
- •
- Output Payment amount (cell E66): \$53,737.97
- · Output Reimbursed amount (cell E69): \$53,737.97

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2.4.1 Low-Side Outlier Adjustment Example

October 10, 2017

2	DC Medicaid DRG Pricing Calculator			
4	Indicates information to be input by the user (cells E7-E18 estimate of final payment in Cells E66 and E69.	3). Look for an	Indicates payment policy parameters set by Medicaid (cells E20-E28). Check Tab 3- DRG Base Rate Add-ons for hospital-specific base rates and add-ons to use in calculator.	
5	Information	Data	Comments or Formula	
5 6 7	INFORMATION FROM THE HOSPITAL TO BE INPUT BY	THE USER		
	Total charges	\$45,000.00	UB-04 Form Locator 47	
8	Cost-to-charge (CCR) ratio (Hospital-specific)	39.30%	Used to estimate the hospital's cost of this stay	
9	Length of stay		Used for transfer pricing adjustment	
10	Discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, 94	No	Used for transfer pricing adjustment	
11	Patient age (in years)	59	Used for age adjustor	
12	Other health coverage	\$0.00	UB-04 Form Locator 54 for payments by third parties	
13	Patient share of cost	\$0.00	Includes spend-down or copayment	
14	Is discharge status equal to 30?	No	Indicates an interim claim	
	DRG base rate (Hospital-specific including EDZ)	\$24,648.47	Used for DRG base payment—see 3-DRG base Rate Add-ons	
16 17	Capital add-on payment (Hospital-specific) DME add-on payment (Hospital-specific)	\$0.00 \$0.00	Not applicable for adult LTCH specialty hospitals	
18	APR-DRG	\$0.00 890-4	Not applicable for adult LTCH specialty hospitals Assigned via separate APR-DRG grouping software	
19	PAYMENT POLICY PARAMETERS SET BY MEDICAID-SU			
20	High-cost outlier threshold	\$60,000	Used for high-cost outlier adjustments	
21	Low-cost outlier threshold	\$25,000	Used for low-cost outlier adjustments	
22	Marginal cost percentage	80%	Used for high-cost outlier adjustments	
23	Interim claim threshold- days	30	Threshold defining interim claims in days	
24	Interim claim threshold-days	\$500,000	Threshold defining interim claims in dollars	
25	Interim per diem amount	\$500	Per diem for pricing interim claims	
26	Pediatric mental health adjustor	1.00	Not used	
27	Neonate adjustor	1.00	Not used	
28	Pediatric adjustor (excludes ped MH, neonate, newborns)	1.00	Not used	
29	APR-DRG INFORMATION	50		
	APR-DRG description	HIV W Multiple Major HIV Related	Look up from DRG table	
	<u></u>	Conditions		
31	Casemix relative weightunadjusted	3.001313	Look up from DRG table	
32	Pediatric Medicaid Care Category	n/a	Not applicable	
33	Pediatric or Neonate Policy adjustor used (if applicable)	1.00	Not applicable	
34	Payment relative weight	3.00131	Casemix relative weight (E31) times policy adjustor (E33)	
35	National average length of stay for this APR-DRG	15.14	Look up from DRG table	
36	IS THIS AN INTERIM CLAIM?			
37	Is discharge status equal to 30?	No	Look up E14	
38	Is length of stay > interim claim threshold?	N/A	IF E37="Yes", then if (E9 > E23), "Yes", else "No", else "N/A"	
39	Are charges > interim claim threshold?	N/A	IF E37="Yes", then if (E7>E24), then "Yes", else "No", else "N/A"	
40	Skip to E69 for final interim claim payment amount	\$0	IF E38 or E39="Yes", (E9*E25), else 0	
41	WHAT IS THE DRG BASE PAYMENT?	A70 077 77	December of the Control of the Contr	
43	DRG base payment IS A TRANSFER PAYMENT ADJUSTMENT MADE?	\$73,977.77	Payment relative weight (E34) times hospital-specific base price w/IME (E15)	
44	Is a transfer adjustment potentially applicable?	No	Look up E10	
45	Calculated transfer payment adjustment	N/A	IF E44="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
46	Is transfer payment adjustment < DRG base payment so far?	N/A	IF E45 = "N/A" then ,"N/A", else if (E45 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
47	Allowed amount after transfer adjustment	\$73,977.77	IF E46= "Yes", then E45, else E42	
48	IS A COST OUTLIER ADJUSTMENT MADE?	Ψ13,311.11	11 240- 163 , tileti 240, 6136 242	
49	Estimated cost of this case	\$17,685.00	Est. cost = charges times CCR (E7 * E8)	
50	Is estimated cost of this case	Gain	IF E49 > E47 then "Loss" else "Gain"	
51	High-Side Outlier Payment When Payment Is Much Lower			
52	Estimated loss on this case	N/A	IF E50 = "Loss", then est. cost minus allowed amount (E49-E47), else "N/A"	
53	Is estimated loss > outlier threshold	N/A	IF E50 = "Loss", then if loss > threshold (E52 > E20), then "Yes", else "No", else "N/A"	
54	DRG cost outlier payment increase	\$0.00	IF E53 = "Yes", then if loss is less than high-cost outlier threshold (E52 <e20), ((e52-e20)*e22),<="" cost="" else="" greater="" high-cost="" is="" loss="" marginal="" multiplied="" td="" than="" then="" threshold="" times="" zero,=""></e20),>	
			else 0	
55	Low Side Outlier Payment When Payment Is Much Greate			
56	Estimated gain on this case	\$56,292.77	IF E50="Gain", then (E47-E49), else"N/A"	
57	Is gain > outlier threshold	Yes	IF E50="Gain", then if gain> threshold (E56>E21), then "Yes", else "No", else "N/A" $$	
58	Calculated transfer payment adjustment	\$53,737.97	IF E57="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
59	Is transfer payment adjustment < DRG base payment so far?	Yes	IF E58 ="N/A" then ,"N/A", else if (E58 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
60	Allowed amount after DRG cost outlier payment decrease	\$53,737.97	IF E50="Gain" and if E59="Yes", then pay transfer adjustment (E58), else E47	
61	ALLOWED AMOUNT AFTER TRANSFER AND OUTLIER AL		222 2 and it 200 - 100 ; then pay transfer depotitions (200); elec ETI	
62	Allowed Amount	\$53,737.97	IF E50="Loss", then allowed amount + high side outlier payment (E47+E54), else low-side outlier payment (E60)	
63	CALCULATION OF PAYMENT AND REIMBURSEMENT AM	OLINT	· · · · · · · · · · · · · · · · · · ·	
64	Other health coverage	\$0.00	E12	
65	Patient share of cost	\$0.00	E12 E13	
			If interim claim (E40>0), then interim claim (E40) amount as payment amount. Otherwise,	
66	Payment amount	\$53,737.97	subtract other health coverage (E64) and patient share of cost (E65) from allowed amount (E62) to obtain payment amount.	
67	Capital Add-on amount	\$0.00	Not applicable	
68	DME add-on amount	\$0.00	Not applicable	
69	Reimbursed amount including add-ons	\$53,737.97	E69=E66+E67+E68, unless interim claim, in which case E69=E40	

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2.5 Interim Claim

When the beneficiary is still a patient and the actual length of stay is greater than 30 days or charges are greater than \$500,000, a hospital may choose to submit an interim claim. Submission of interim claims is always voluntary, never mandatory. In these situations, hospitals will be paid a per diem amount (cell E25: \$500.00). When the patient is discharged, the hospital voids the previous interim claims and submits one claim, admit through discharge showing all charges, diagnoses and procedures for the full admit-thrudischarge period.

- Input Total charges (cell E7): \$75,000.00
- · Input Length of Stay (cell E9): 31
- Input is discharge status equal to 30? (cell E14): "Yes"
- Input APR-DRG (cell E16): 890-4
- The interim per diem amount (cell E25: \$500.00) is multiplied by the actual length of stay (cell E9)
- · That amount is the allowed payment to the provider
- Output Payment amount (cell E66): \$15,500.00
- Output Reimbursement amount (cell E69): \$15,500.00

2.5.1 Interim Claim Example

October 10, 2017

2	Do modification Directioning Conformation			
4	Indicates information to be input by the user (cells E7-E1: estimate of final payment in Cells E66 and E69.	8). Look for an	Indicates payment policy parameters set by Medicaid (cells E20-E28). Check Tab 3- DRG Base Rate Add-ons for hospital-specific base rates and add-ons to use in calculator.	
5	Information	Data	Comments or Formula	
5 6 7	INFORMATION FROM THE HOSPITAL TO BE INPUT BY			
	Total charges	\$75,000.00	UB-04 Form Locator 47	
8 9	Cost-to-charge (CCR) ratio (Hospital-specific)	39.30%	Used to estimate the hospital's cost of this stay	
9 10	Length of stay	31 No	Used for transfer pricing adjustment	
11	Discharge status = 02, 05, 63, 65, 66, 82, 85, 91, 93, 94 Patient age (in years)	59	Used for transfer pricing adjustment Used for age adjustor	
	Other health coverage	\$0.00	UB-04 Form Locator 54 for payments by third parties	
13	Patient share of cost	\$0.00	Includes spend-down or copayment	
14	Is discharge status equal to 30?	Yes	Indicates an interim claim	
	DRG base rate (Hospital-specific including EDZ)	\$24,648.47	Used for DRG base paymentsee 3-DRG base Rate Add-ons	
16	Capital add-on payment (Hospital-specific)	\$0.00	Not applicable for adult LTCH specialty hospitals	
17	DME add-on payment (Hospital-specific)	\$0.00	Not applicable for adult LTCH specialty hospitals	
18	APR-DRG	890-4	Assigned via separate APR-DRG grouping software	
19	PAYMENT POLICY PARAMETERS SET BY MEDICAIDSU			
20	High-cost outlier threshold	\$60,000	Used for high-cost outlier adjustments	
21	Low-cost outlier threshold	\$25,000	Used for low-cost outlier adjustments	
22	Marginal cost percentage	80%	Used for high-cost outlier adjustments	
23 24	Interim claim threshold- days	30 \$500,000	Threshold defining interim claims in days	
24 25	Interim claim threshold- dollars Interim per diem amount	\$500,000 \$500	Threshold defining interim claims in dollars Per diem for pricing interim claims	
25 26	Pediatric mental health adjustor	1.00	Not used	
27	Neonate adjustor	1.00	Not used	
28	Pediatric adjustor (excludes ped MH, neonate, newborns)	1.00	Not used	
29	APR-DRG INFORMATION			
		HIV W Multiple		
30	APR-DRG description	Major HIV Related	Look up from DRG table	
		Conditions		
31	Casemix relative weightunadjusted	3.001313	Look up from DRG table	
32	Pediatric Medicaid Care Category	n/a	Not applicable	
33	Pediatric or Neonate Policy adjustor used (if applicable)	1.00	Not applicable	
34	Payment relative weight	3.00131	Casemix relative weight (E31) times policy adjustor (E33)	
35	National average length of stay for this APR-DRG	15.14	Look up from DRG table	
36	IS THIS AN INTERIM CLAIM?	.,		
37	Is discharge status equal to 30?	Yes	Look up E14	
38	Is length of stay > interim claim threshold?	Yes	IF E37="Yes", then if (E9 > E23), "Yes", else "No", else "N/A"	
39 40	Are charges > interim claim threshold? Skip to E69 for final interim claim payment amount	No \$15,500	IF E37="Yes", then if (E7>E24), then "Yes", else "No", else "N/A" IF E38 or E39="Yes", (E9"E25), else 0	
41	WHAT IS THE DRG BASE PAYMENT?	ψ13,300	11 E30 01 E39= 1 es , (E3 E25), eise 0	
42	DRG base payment	\$73,977.77	Payment relative weight (E34) times hospital-specific base price w/IME (E15)	
43	IS A TRANSFER PAYMENT ADJUSTMENT MADE?	4 . 5,5	,	
44	Is a transfer adjustment potentially applicable?	No	Look up E10	
45	Calculated transfer payment adjustment	N/A	IF E44="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
46	Is transfer payment adjustment < DRG base payment so far?		IF E45 ="N/A" then ,"N/A", else if (E45 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
47	Allowed amount after transfer adjustment	\$73,977.77	IF E46= "Yes", then E45, else E42	
48	IS A COST OUTLIER ADJUSTMENT MADE?	***	5 · · · · · · · · · · · · · · · · · · ·	
49	Estimated cost of this case	\$29,475.00	Est. cost = charges times CCR (E7 * E8)	
50	Is estimated cost > allowed amount	Gain	IF E49 > E47 then "Loss" else "Gain"	
51 52	High-Side Outlier Payment When Payment Is Much Lowe. Estimated loss on this case	r than Cost N/A	IF E50 = "Loss", then est. cost minus allowed amount (E49-E47), else "N/A"	
53	Is estimated loss on trils case	N/A N/A	IF E50 = Loss", then est. Cost minus allowed amount (E49-E47), else "N/A" IF E50 = "Loss", then if loss > threshold (E52 > E20), then "Yes", else "N/A"	
	S SSAMMARCO 1000 > OURION KINGSHOID	14/17	IF E53 = "Yes", then if loss is less than high-cost outlier threshold (E52 <e20), else<="" td="" then="" zero,=""></e20),>	
54	DRG cost outlier payment increase	\$0.00	loss greater than high-cost threshold is multiplied times marginal cost threshold ((E52-E20)*E22),	
ĺ			else 0	
55	Low Side Outlier Payment When Payment Is Much Greate	er than Cost		
56	Estimated gain on this case	\$44,502.77	IF E50="Gain", then (E47-E49), else"N/A"	
57	ls gain > outlier threshold	Yes	IF E50="Gain", then if gain> threshold (E56>E21), then "Yes", else "No", else "N/A"	
57	ns gam > outlier triteshold	i es	ii Lou- Gairr, then ii gairi> threshold (Eoo>EZT), then if es , else into , else int/A"	
58	Calculated transfer payment adjustment	\$156,328.65	IF E57="Yes", then base payment(E42)/nat. ALOS (E35) times LOS (E9)+1), else "NA"	
59	Is transfer payment adjustment < DRG base payment so far?	No	IF E58 = "N/A" then , "N/A", else if (E58 <e42), "no"<="" "yes"="" else="" td="" then=""></e42),>	
60	Allowed amount after DRG cost outlier payment decrease	\$73,977.77	IF E50="Gain" and if E59="Yes", then pay transfer adjustment (E58), else E47	
61	ALLOWED AMOUNT AFTER TRANSFER AND OUTLIER AL			
62	Allowed Amount	\$73,977.77	IF E50="Loss", then allowed amount + high side outlier payment (E47+E54), else low-side outlier payment (E60)	
22	CALCULATION OF DAVMENT AND BEIMBURGERENT AND	OUNT	pay (200)	
63	CALCULATION OF PAYMENT AND REIMBURSEMENT AM	\$0.00	E12	
64 65	Other health coverage Patient share of cost	\$0.00	E12 E13	
	. alian and or cost	ψ0.00	If interim claim (E40>0), then interim claim (E40) amount as payment amount. Otherwise,	
66	Payment amount	\$15,500.00	subtract other health coverage (E64) and patient share of cost (E65) from allowed amount (E62) to obtain payment amount.	
67	Capital Add-on amount	\$0.00	Not applicable	
	I	\$0.00	Not applicable	
68 69	DME add-on amount Reimbursed amount including add-ons	\$15,500.00	E69=E66+E67+E68, unless interim claim, in which case E69=E40	



2.6 Conclusion

This concludes the specific examples for training on use of the DRG calculator. Please feel free to apply to other examples. If you have questions, please contact Sandy Fawbush at sandy.fawbush@conduent.com.