Federal Calculator vs. ClearPATH
How does our actuarial value calculator compare to that provided by the federal government?
CONTRIBUTION HEALTH 2016 Authored by: Emily Wagner

Federal Calculator vs. ClearPATH

How does our actuarial value calculator compare to that provided by the federal government?

Summary

Actuarial analysts at Contribution Health wanted to test the functionality of our actuarial value calculator, ClearPATH, by comparing it to the federal calculator. In order to show its validity, we performed the test below, using both calculators to evaluate several different plan designs. The results and conclusion are stated below.

Background

In January 2016, the Centers for Medicare and Medicaid Services (CMS) released the Final 2017 Actuarial Value Calculator. In an effort to make the estimation of actuarial values more accessible to the public, actuarial analysts at Contribution Health developed freeactuarial value.com, which allows companies to enter plans into the website's actuarial value (AV) calculator and estimate their AV score for free. We used a public rate file prepared by UnitedHealthcare of Washington, Inc. on May 6, 2016 to compare the AV score estimated by the federal calculator to the value found using our calculator. We did this for nine unique plans, such as the one presented below.

Federal calculator:

User Inputs for Plan Parameters										
Use Integrated Medical and Drug Deductible?			HSA/HRA Options		Narrow Network Options					
Apply Inpatient Copay per Day?			loyer Contribution		Blended Network/POS Plan?					
Apply Skilled Nursing Facility Copay per Day?				1st Tier Utilization:						
Use Separate OOP Maximum for Medical and Drug Spending?		Annual Contri	bution Amount:		2nd	Tier Utilization:				
Indicate if Plan Meets CSR Standard?										
Desired Metal Tier	Gold ▼									
	Tier	1 Plan Benefit De	sign		Tier	2 Plan Benefit I	Design			
	Medical	Drug	Combined		Medical	Drug	Combined			
Deductible (\$)	\$500.00	\$0.00								
Coinsurance (%, Insurer's Cost Share)	80.00%	100.00%								
OOP Maximum (\$)	\$5,00	0.00								
OOP Maximum if Separate (\$)										
Click Here for Important Instructions		Tie					er 2		Tier 1	Tier 2
Type of Benefit	Subject to Deductible?	Subject to Coinsurance?	Coinsurance, if different	Copay, if separate	Subject to Deductible?	Subject to Coinsurance?	Coinsurance, if different	Copay, if separate	Copay applies only	after deductible?
Medical	✓ All	☐ All			✓ All	✓ All			☐ All	☐ All
Emergency Room Services	~	V			V	V				
All Inpatient Hospital Services (inc. MHSA)	₹	V			V	V				
Primary Care Visit to Treat an Injury or Illness (exc. Preventive, and X-rays)				\$25.00	V					
Specialist Visit				\$50.00	V	V				
Mental/Behavioral Health and Substance Abuse Disorder Outpatient										· · · · · · · · · · · · · · · · · · ·
Services				\$25.00	₩					
Imaging (CT/PET Scans, MRIs)	₹	V			~	V				
Rehabilitative Speech Therapy				\$25.00	V	V				
				\$25.00	V	V				
Rehabilitative Occupational and Rehabilitative Physical Therapy				\$25.00	_	_				
Preventive Care/Screening/Immunization			100%	\$0.00			100%	\$0.00		
Laboratory Outpatient and Professional Services		V			v					
X-rays and Diagnostic Imaging		V			V					
Skilled Nursing Facility	V	V			V					
Outpatient Facility Fee (e.g., Ambulatory Surgery Center)	V	•			✓					
Outpatient Surgery Physician/Surgical Services	₹	V			V	V				
Drugs	☐ All	☐ All			✓ All	✓ All			☐ All	☐ All
Generics				\$15.00	✓	✓				
Preferred Brand Drugs				\$35.00	✓	✓				
Non-Preferred Brand Drugs				\$65.00	v	✓				
Specialty Drugs (i.e. high-cost)				\$250.00	V	V				
Options for Additional Benefit Design Limits:			Plan Description:	:						
Set a Maximum on Specialty Rx Coinsurance Payments?			Name:	[Input Plan Name	e]					
Specialty Rx Coinsurance Maximum:			Plan HIOS ID:	[Input Plan HIOS						
Set a Maximum Number of Days for Charging an IP Copay?			Issuer HIOS ID:	[Input Issuer HIO	S ID]					
# Days (1-10):										
Begin Primary Care Cost-Sharing After a Set Number of Visits?										
# Visits (1-10):										
Begin Primary Care Deductible/Coinsurance After a Set Number of										
Copays? # Copays (1-10):										
Output										
Calculate Status/Error Messages:	Calculation Success	eful								
Actuarial Value:	81.92%									
Metal Tier:	Gold									

2017 AV Calculator										

freeactuarialvalue.com:

Customize the Plan Save the Plant Sa											
Plan ID	1844	Plan Typ			Group :	D 822			Last Modified	6/6/2016 10:30 AM	1
Step 1:	1: Add a Plan Description Gold Navigate 25/500/80										
Step 2:	Complete the Plan Design in the Form (below). Use the 2: Clone (From) button to populate this plan from another Clone (From)										
	plan to accelerate your effo Calculate AV	derate your efforts.									1
Step 3:								Acti	arial Value		
Step 4:	Step 4: View AV								HRA Value	.0%	
		Over	all Dlan F	adu	ctibles an	d Cost Shar	ing Festur	05			
		Over	ali Fiali L	euu	In Netw		ing reacui	-3			
Individual Deductible 500 ▼ Apply to Medical Only (unchecked = Applies							ecked = Applies	to Med & Rx)			
?								ite)			
?		urance	80			l pays: 20% of the					
			<u> </u>			, ,				-	
<u>?</u>	Individual Out	Of Pocket Limit	5000	•		include copays?					
?	Family Out O	f Pocket Limit	10000	•	If Medica be handle	l Deductible is 'Ag d as Aggregate.	gregate' (unched	ked), Family O	ut Of Pocket w	rill	
_			Pharma	nw.	Per Pregnancy	In-Patient Hospital (per	In-Patient MH (per	In-Patient SA (per			
3		Neductibles syments		Pharmacy		admission)	admission)	admission)			
			0 These d		0 v	once (or per admi	o v	0 •	I		
						(per salin					
		Include HRA? HRA/H	SA Amount	Sta	ert Stop	Percent]			
(?)	HSA/HRA Calculator	(Med and	Rx Ded Only)	0	7 0		Save HRA				
"			0	O		. 0	Options				
									l		
		Specifi	ic Covera	ge a	nd Cost S	haring for S	ervices				
					Subject to Deductible?	Subject to CoInsurance?	Co-Pay Amount		-Pay uency	Adj Factor	Active?
		Prima	ry Care Visit C	o-pay	B	8	25 *		Visit	1.00 -	₩
		Sp	ecialist Visit (o-Pay		- 0	50 -	Per	Visit	1.00 ▼	₩.
?	Office Visits or Clinic	Other Ph	ysician Visit (o-Pay	0	B	50 *	Per	Visit	1.00 ▼	80
l		Preven	tive Care/Scre	ening	В		0 *	Per	Visit	1.00 ▼	80
		Mammograms			D	D	0 •	Per	Test	1.00 ▼	₩
(?)	Testing and Lab	Diagnostic Tests (x-ray, blood work)				8	0 •	_	Test	1.00 ▼	160
	and Lab	Imaging (CI	I/PET Scans, N	(RI's)	₩.	W	0 7		Test	1.00 *	₩
					Retail Copayment	Mail Order Copayment	Subject to CoInsurance	Rx CoInsurance	Max Co-Pay	Adj Factor	Active?
(?)	Prescription			eneric	15 *	30 ▼	0	100 =	0 *	1.00 ▼	100
·	Drugs			Brand	35 🔻	70 🔻	B	100 *	0 *	1.00 *	100
		Brand Non-formulary Specialty Drugs		_	250 *	120 ₹		100 *	0 *	1.00 *	80
├			Specialty	Drugs	Subject to	Subject to	Co-Pay	Co	Pay	Adj	Active?
(?)	Outpatient	0.4		- 20to	Deductible V	CoInsurance	Amount		ocedure	Factor	\blacksquare
•	Surgery		ient Surgery F rysician Surge		× ×	× ×	0 -		ocedure	1.00 *	80
\vdash		-	Emergency		80	8	0 •		Visit	1.00 *	80
?	Emergency Treatment	Emergency Med			ж.	ж.	0 •		Trip	1.00 *	100
L			Urgen	t Care	B	В	50 -	Per	Visit	1.00 ▼	₩
(?)	Inpatient		Facili	y Fee	8	8	0 •	Per	Day	1.00 ▼	80
•	Hospital	Phy	ysician/Surge	y Fee	8	8	0 7	Per In-Pe	tient Visit	1.00 ₹	80
		Mental/Behavio			В	- 0	25 🔻	Per Visit		1.00 ▼	₩.
?	Mental Health, Substance	Mental/Behavior Health Inpatient			8	8	0 •	Per Day		1.00 ▼	100
_	Abuse Substanc		e Abuse Outpatient		0	0	25 *	Per Visit Per Day		1.00 *	100
<u> </u>		Substance Abuse Inpatien Prenatal and Postnatal Car			8	8	25 •	_		1.00 *	80
•	Pregnancy	Prenatal and Postnatal Care Delivery and all Inpatient			8	8	0 7	Per Visit Per Day		1.00 *	80
\vdash		3411	Home Healt		8	8	0 •		Visit	1.00 *	80
		Rei	Home Health Care habilitative Services		В	В	25	Per Visit		1.00 *	₩.
@	Recovery or	н	fabilitative Se	vices		- 0	25	Pier	Visit	1.00 ▼	100
•	Other Special Health Needs		Skilled Nursin	g Care	×	×	0 •	Per	Day	1.00 ▼	₩
		Durable	Medical Equi	pment	8	8	0 •	Per Item		1.00 ▼	80
<u> </u>			Hospice S	ervice	8	8	0 •	Per	Day	1.00 ▼	80
	Child			Exam	×	8	0 •		Visit	1.00 ▼	100
3	Child Coverages			asses	8	8	0 •		Pair	1.00 ▼	₩
			Dental Che	ck Up	- 0		0 *	Per	Visit	1.00 ▼	80

Results

The results of our tests are displayed in the table below:

Plan	Federal Value	Our Value	Difference
Gold Navigate 25/500/80	81.92%	83.10%	-1.18%
UHC Navigate Bronze 6500/100-2	61.05%	62.50%	-1.45%
UHC Navigate Silver 2500-2	71.86%	71.50%	0.36%
UHC Navigate Gold 1500-2	78.01%	77.80%	0.21%
UHC Navigate Silver 5000-3	68.03%	68.80%	-0.77%
Silver Navigate HSA 5500/70	71.55%	73.20%	-1.65%
Bronze Navigate HSA 5500/70	61.74%	60.60%	1.14%
UHC Navigate HSA Gold 2700-2	81.96%	83.20%	-1.24%
UHC Navigate HSA Silver 2700-2	69.10%	68.40%	0.70%

The distribution of the differences between the two values can be summarized as below:

Data Summary of Differences	
Mean	-0.43%
Standard Error	0.35%
Median	-0.77%
Standard Deviation	1.04%
Sample Variance	0.01%
Range	2.79%
Minimum	-1.65%
Maximum	1.14%
Count	9

Conclusion

For each plan simulated, the value found using our calculator fell within two percentage points of the AV score estimated by the federal calculator. These results demonstrate the accuracy of ClearPATH, and they provide support for the validity and usefulness of the ClearPATH Actuarial Value Calculator.

About freeactuarialvalue.com

We believe ClearPATH is the best Actuarial Value Calculator available for Administrator, Broker, and Employer use.

This tool is designed for ease of use with tracking and cataloging of all groups, plan design, and values. Brokers and others can use this to create a library of their entire book of business, help employers design an array of plans, benchmark plan values and generally gain advantage in the marketplace.

With amazing transparency, the black box details are revealed showing the value of deductible, coinsurance, and copays for each plan, and for each line of medical coverage. Our calculator is engineered to avoid the "counterintuitive results" that plague the federal calculator (This means our calculator moves in the right direction with any change in plan design. Sometimes the federal calculator gives counterintuitive results such as when an increase in copay raises the AV score).

Further, skinny plans are accurately calculated as categories of medical coverage are eliminated, another problem suffered by the federal calculator.

Features:

- Do deductible and coinsurance apply?
 - Deductible and coinsurance application can be chosen for all 33 rows of medical expense
- Cloning
 - After building a plan, a similar plan can be built by cloning the first plan and making a minor change.
- Summary results of AV score
 - A table summarizes the components of AV by the major categories of deductible, coinsurance, and copays. The value of any HRA is shown as well.
- Plan ID
 - Plan ID, description of plan, and user ID are all easily catalogued and identified on the output.
- Full details with print and export functionality
 - Our calculator shows line by line details of the entire AV score calculation, including
 values of deductible, coinsurance, and copays by category of coverage. Even number of
 copays per 1,000 members are shown for each line of medical expense. This is the only
 calculator available with such transparency.
 - Easy download and print utilities are included.

ClearPATH Cost Modeling Projector

ClearPATH Cost Modeling Projector uses the Actuarial Value Calculator at the core of a long term modeling and ACA compliance tool. It is a dynamic HCR analysis and renewal modeling system that goes far beyond the first generation AV calculators:

- Full-featured Actuarial Value Calculator
- Dynamic Plan Design Modeling
- Long Term Planning Tool
- Play or Pay Modeling Tool

ClearPATH is SaaS, a cloud-based system designed as an ongoing solution for producers and their clients to conduct strategic planning during the annual renewal cycle, as well as navigating through the HCR maze each year.