SOA Advanced Pricing Boot Camp

MARY VAN DER HEIJDE, FSA, MAAA LINDSY KOTECKI, FSA, MAAA DOUG NORRIS, FSA, MAAA, PHD





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- -Do not discuss what you or other entities plan to do in a particular geographic or product markets or with particular customers.
- -Do not speak on behalf of the SOA or any of its committees unless specifically authorized to do so.
- -Do leave a meeting where any anticompetitive pricing or market allocation discussion occurs.
- -Do alert SOA staff and/or legal counsel to any concerning discussions
- -Do consult with legal counsel before raising any matter or making a statement that may involve competitively sensitive information.

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3 Rs – Overview





isk Corridors



isk Adjustment



Evolution of ACA Provisions Pre-ACA





Evolution of ACA Provisions 2012-2013





Evolution of ACA Provisions 2014-2016



Evolution of ACA Provisions 2017+





3Rs – Who does each "R" apply to?





3Rs – Transitional Reinsurance: Implications of the Phase Out

- Recall:
 - Plans have less responsibility for claims in the \$45k-250k threshold in 2014, \$45K-250k in 2015, and \$90-250k in 2016
 - Under current law, transitional reinsurance program ends after 2016 benefit year. Payments for 2016 will be made in 2017.

Individual Market Issuers

- Reinsurance recovery payments so far have been increased and accelerated
- For 2017 benefit year, however, additional commercial reinsurance will create upward pressure on rates



Small and Large Group Market Issuers

- These issuers have helped fund the program.
- Starting in 2017, no longer making reinsurance contributions. This could results in some downward pressure on rates



3Rs – Risk Corridors: Implications of the Phase Out

Recall:

- Temporary program through 2016
- Allows Federal Government and QHPs to share in profits or losses resulting from inaccurate rate setting from 2014 through 2016
- Applicable to small group and individual plans only

- Only 13-14% of 2014 risk corridor charges paid so far.
 Low (zero?) rate expected for 2015, 2016.
- Little change in rates for 2017 as insurers already aware of low return.



3Rs – Risk Adjustment: Overview

- Goal: Normalize the impact of differences in health status among carriers within a market
 - Transfers funds from plans with lower risk members to plans with higher risk members
 - Unlike the other programs, Risk Adjustment is permanent
- Affects all non-grandfathered individual and small group products, on and off the exchange



3Rs – Risk Adjustment: Formula



ARF: Allowable Rating Factor

HHS factors for variation by age

- AV: Actuarial Value
 - Benefit richness adjustment

RS: Risk Score

Includes age, gender, and health status

- IDF: Induced Demand Factor HHS factor to adjust for increased utilization from more rich benefits
- GCF: Geographical Cost Factor Factor to adjust for cost of care variations between regions within a market



3Rs – Risk Adjustment: Overview

- Risk scores developed from carrier claims data will be compared to market average risk scores to determine payments
- What risk adjuster model will be used?
 - Most states: Federal HCC risk adjuster
 - Model has been released in detail
 - Concurrent Model
- Risk scores are based on demographics, diagnoses, and other data such as CPT codes – but NOT prescription drugs.



3 Rs – Risk Adjustment

19 %



9 %









Age/gender: actual vs. allowed

Figure 2: Allowed Claim Cost Relativities by Age/Gender, Commercially Insured Adults



Source: Milliman 2017 Health Cost Guidelines—Commercial



Age is based on the last day of the plan year (could hurt plans with premature infants born late in the year). For some chronic conditions, the score of the condition (without complications) is the same as the score of the condition (with complications).





No conditions related to injuries (wounds, fractures, sprains, trauma) even though the RA is concurrent and these conditions can be costly.

EMERGEN



Smoking is not considered at all



Incomplete data are a major problem



You do not get the payment transfers for up to 18 months after the claim occurs





Risk Adjustment: Profitability and Financial Reporting

- Profitable members were once low-cost members, now may be risky members incurring claims
- Reserving for risk adjustment payments
 - May have significant impact on MLR and profitability
 - Must know carrier risk score as well as market risk score
 - Risk scores may be volatile from year-to-year for the carrier and the market
- Risk Adjustment is not settled until June of the following year, payments in August
 - Well after Supplemental Exhibit and annual statement are due
 - May wait over 18 months after paying claims for a high risk member



Risk Adjustment: Optimizing Risk Scores

- Effort to trigger as many conditions as possible
 - Many conditions are underdiagnosed
 - Important to reach out to members which may have conditions
 - This strategy is already prevalent with Medicare risk adjustment
 - Past claims history can be used to determine patterns in claims that may trigger risk adjuster conditions
- Follow-up/checkup procedures could trigger conditions in multiple years
- Urge accurate coding by physicians



Risk Adjustment: Ch-ch-changes

- 2017 plan year:
 - Partial year enrollment
- 2018 plan year:
 - (Some) prescription drug utilization
 - High-cost risk pool (60% of costs beyond \$1 million)
 - 14% administrative adjustment to statewide premium
- 2019 plan year:
 - EDGE data calibration







MLR: Overview



- Large group: 85% requirement
- Small group and individual: 80% requirement



MLR: Timing of 3Rs

- Risk adjustment payments will not be settled until after the year ends
- Risk adjustment reporting due June of the following year
- Insurers had to file MLR reports to the Secretary by July 31st beginning with the 2014 MLR reporting year
- The new MLR rebate due date of September 30th
- In practice, many of these deadlines were delayed in year one



MLR: Avoiding MLR Rebates

- Past strategy: Premium holidays
 - Avoids rebates by not charging premium
 - Unwise to implement without knowing Risk Adjustment scores



MLR: Example Effect of 3Rs and Premium Holidays

- Past strategy:Increasing allowable expenses to maximize Risk Corridor payments
 - Increases risk of paying rebates



- Factor: 1.24 1.33 = -0.09
- Market Average Premium: \$4,200 per year
- **Transfer**: -\$378 per member per year
 - Carrier must pay \$378 per member per year into the risk adjustment pool



• Consider the following example:

Measure	Factor	
Risk Score	0.93	
Induced Demand Factor	1.05	
Geographic Cost Factor	1.02	
Actuarial Value Adjustment	0.70	
Allowable Rating Factor Adj.	1.30	
Mkt. Avg. Premium Adj.	1.00	
Mkt. Avg. Premium w/o Adj.	1.02	
Market Average Premium	\$350 PMPM	
Issuer membership	250,000 member months	

• What is the expected risk adjustment payment or receipt?







- Factor: 0.99603 0.95550 = 0.04053
- Market Avg Premium: \$350 PMPM
- Transfer PMPM: 0.04053 * \$350 = \$14.19 PMPM
 - Carrier receives *\$14.19 PMPM* from risk adjustment pool
- Total Payment: \$14.19 PMPM * 250,000 = \$3.5 M



3 Rs and MLR Rebates: Example

- Example:
 - Individual Market
 - Raw Loss Ratio (Claims / Premiums): 88%
 - Transitional Reinsurance: Receipts of 12% of premiums
 - Risk Adjustment: Payment of 5% of premiums
 - Risk Corridors: Receipt of 3% of premiums
- What is the MLR Rebate (if any)?



3Rs and MLR Rebates



• At each step, the 3Rs affect the Loss Ratio and MLR Rebate



Financial Gain/(Loss) of Actual 3R Results Relative to Accrued Amounts

as of December 31, 2014 (millions)

3R Program	Accrued Amounts	Actual Results	Gain/(Loss)
Risk Adjustment	\$230.2	\$0	(\$230.2)
Reinsurance	\$6,873.0	\$7,886.0	\$1,013.0
Risk Corridors	\$1,038.6	\$0	(\$1,038.6)
Aggregate	\$8,141.9	\$7,886.0	(\$255.9)


Financial Gain/(Loss) of Actual to Accrued 3R Results

3R Program	Total Dollars	PMPM	% of Premium
Risk Adjustment	(\$230.2)	(\$1.53)	(0.4%)
Reinsurance	\$1,013.0	\$6.73	1.8%
Risk Corridors	(\$1,038.6)	(\$6.90)	(1.8%)
Aggregate	(\$255.9)	(\$1.70)	(0.4%)



Number of ACA Health Plan Issuers With Potential RBC Event Triggered By Actual-to-Accrued Variation

RBC Event	RBC Range	Number of Plans
Company Action Level	150% - 200%	3
Regulatory Action Level	100% - 150%	0
Authorized Control Level	70% - 100%	0
Mandatory Control Level	0% - 70%	4
Accounting Insolvency	< 0%	5



Financial Gain/(Loss) of Actual to Accrued 3R Results

	Actual Receipts	Actual Payments	No Actual Receipts	Actual Total
Accrued Receipts	21%	5%	0%	26%
Accrued Payments	3%	20%	0%	23%
Accrued No Transfer	23%	28%	0%	51%
Accrued Total	47%	53%	0%	100%



Actual-to-Expected ACA Health Plan Risk Adjustment Transfers



Actual-to-Expected ACA Health Plan Risk Adjustment Transfers



Transitional Reinsurance Estimate Attribution

Item	Amount
Amount Accrued by ACA Plan Issuers	\$6,873.0
Coinsurance Variation	\$1,718.3
Other Variation	(\$705.3)
Actual Reinsurance Amount	\$7 <i>,</i> 886.0



Summary of 2015 Risk Adjustment

• Direction of risk adjustment accruals, 2014 vs. 2015

		2015 Accruals				
		Accrued receivable	Accrued payable	Accrued zero	No 2015 statement	Total
	Accrued receivable	18%	5%	2%	0%	25%
	Accrued payable	3%	18%	1%	1%	21%
2014	Accrued zero	14%	18%	12%	5%	48%
	New in 2015	0%	2%	4%	0%	6%
	Total	34%	42%	18%	6%	100%

- 48% of issuers accrued in the same direction as 2014
- A significantly smaller number of issuers accrued zero



Summary of 2015 Risk Adjustment

• Reaction to 2014 actual results

			2015 Accruals			
		Accrued receivable	Accrued payable	Accrued zero	No 2015 statement	Total
	Actual receivable	29%	10%	6%	0%	45%
2014	Actual payable	5%	30%	8%	6%	49%
2014	New in 2015	0%	2%	4%	0%	6%
	Total	34%	42%	18%	6%	100%

		2015				
		Accrued receivable	Accrued payable	Accrued zero	Total	
	Actual receivable	33%	12%	7%	51%	
2014	Actual payable	6%	34%	9%	49%	
	Total	38%	46%	16%	100%	

• Setting aside non-filers, two-thirds accrued the same direction they actually experienced in 2014



Summary of 2015 Risk Adjustment

• Change in magnitude of accrual

				2015 Accruals			
		Increase in magnitude	Decrease in magnitude	Different direction	Accrued zero	No 2015 statement	Total
	Overshot	7%	2%	3%	1%	0%	14%
	Undershot	18%	5%	2%	1%	1%	25%
2014	Accrued zero	0%	0%	31%	12%	5%	48%
2014	Direction incorrect	3%	1%	3%	1%	0%	7%
	New in 2015			6%			6%
	Total	28%	8%	39%	14%	6%	100%

• Much more common to increase magnitude than decrease it



Summary of 2015 Risk Adjustment Accruals

- Comparisons to 2014
 - Significantly smaller "optimism gap"
 - Greater impact from missing data (non-filers)
 - 2014 actuals seem to have influenced 2015 accruals
- Aggregate plausibility vs. individual company results



2015 Risk Adjustment Actual Results

- Released by CMS on June 30, 2016
- Transfer amounts available by company, state, market
- Can compare to both 2014 results and 2015 accruals



2015 Risk Adjustment Actual Results

- Most transfers were in the same direction as 2014
- More money changed hands in aggregate
- Companies newly accruing a transfer accrued correct direction most of the time
- Still frequent underestimates of magnitudes
- Missing data mattered a lot



2015 Risk Adjustment: Actual vs. Accrued

• Similar directional results as 2014

		2015 Actual			
		Actual receivable	Actual payable	No transfer for 2015	Total
	Accrued receivable	29%	4%	1%	34%
2015	Accrued payable	4%	38%	1%	42%
Accrual	Accrued zero	5%	11%	2%	18%
	No 2015 statement	1%	5%	0%	6%
	Total	39%	58%	3%	100%

• As with 2014, companies accruing zero were more likely to be payers



2015 Risk Adjustment: Actual vs. Accrued

Actual vs. Expected Risk Adjustment Transfers, 2015 Plan Year (\$MM)





2015 Risk Adjustment: Actual vs. Accrued

Actual vs. Expected Risk Adjustment Transfers, 2015 Plan Year (\$MM)





2015 Risk Adjustment: Directional Shifts

 Most companies transferred in the same direction as 2014

			2015 Actual				
		Actual receivable	Actual payable	No transfer for 2015	Total		
2014	Actual receivable	32%	11%	2%	45%		
I	Actual payable	6%	42%	1%	49%		
Actual	New in 2015	1%	5%	0%	6%		
·	Total	39%	58%	3%	100%		

• Of companies in the data both years, 81% transferred in the same direction both years



2015 Risk Adjustment: Directional Accuracy

• As noted earlier, most companies accurately projected direction of transfer

			2015			
					No 2015	
		Direction correct	Direction incorrect	Accrued zero	statement	Total
	Direction correct	34%	3%	2%	1%	39%
2014	Direction incorrect	5%	1%	1%	0%	7%
2014	Accrued zero	26%	5%	12%	5%	48%
	New in 2015	2%	0%	4%	0%	6%
	Total	67%	9%	18%	6%	100%

- Compared to 2014, many fewer zero accruals
- Companies making a projection for the first time got the direction right most of the time (83%)



2015 Risk Adjustment: Magnitude

• Companies continue to underestimate magnitude of transfers, in both directions

	_			2015			
	_				Direction		
		Overshot	Undershot	Accrued zero	incorrect	No 2015 statement	Total
	Overshot	7%	5%	1%	1%	0%	14%
2014	Undershot	8%	14%	1%	3%	1%	25%
2014	Accrued zero	11%	15%	12%	5%	5%	48%
	Direction incorrect	2%	3%	1%	1%	0%	7%
	New in 2015	1%	2%	4%	0%	0%	6%
	Total	28%	39%	18%	9%	6%	100%



2015 Risk Adjustment: Missing Data Bias?

- In aggregate, companies accrued for a net \$94 million risk adjustment receivable
- Some companies who participate in risk adjustment did not file annual statements
- Actual risk adjustment transfers for these 11 companies totaled to a \$371 million payment
 - 10 payments, 1 receipt
- Among the set of companies that did file annual statements, there was aggregate *pessimism* for 2015



Risk Adjustment Case Study

• End of today: 3:15-5p



Risk Based Capital





Determining an Entity's Solvency Level





ACL Control Levels

Solvency = Net Worth Level Authorized Control Level (ACL)

200% of ACL

Company Action Level

Below this, regulators require a formal plan to increase capital.

Regulatory Action Level

150% of ACL

Below this, regulators can order capital increasing actions.

Authorized Control Level

100% of ACL

Below this, regulators *may* assume control. 70% of ACL

Mandatory Control Level

Below this, regulators *must* assume control.



Company Action Level Formula

Company Action Level

 $= H0 \, risk + \sqrt{(H1 \, risk)^2 + (H2 \, risk)^2 + (H3 \, risk)^2 + (H4 \, risk)^2}$

H0: Affiliate Risk Pro rata share of each affiliate's RBC requirement attributed to the parent. H1: Asset Risk Accounts for risk that an insurer's invested assets will decline in value. H2: Underwriting Risk Accounts for risk that claim costs will exceed premium revenue.

H3: Credit Risk Accounts for risk of default and capitation payment credit risk. H4: Business Risk Accounts for risk that administrative expenses will be higher than expected.



Avoiding Regulator Control

- Minimize the ACL
 - Minimize claims to reduce starting point for H2 calculation
 - Lower reinsurance attachment points
 - Share risk with providers
 - Maximize capitation discount factor in H2 calculation by fixing capitation payment for at least 12 months
 - Lease or rent assets rather than purchase



Avoiding Regulator Control

- Maximize capital and surplus
 - Maximize profit
 - Increase administrative spending on quality improvement items
 - Minimize overall admin spending
 - Obtain more capital by issuing stock or surplus notes



H1: Asset Risk Accounts for risk that an insurer's invested assets will decline in value.

- Value of each of the assets is multiplied by an RBC factor (which is larger for riskier assets)
- Resulting products are summed to get total H1
- Additional penalty applied to portfolios that are concentrated in smaller number of securities issuers



- Determine claims (net of reinsurance recoveries) from annual statement
- Multiply by a factor that varies by line of business and premium volume
- Reduce result by managed care discount factor, determined by allocating claim costs to five categories

H2: Underwriting Risk Accounts for risk that claim costs will exceed premium revenue.



H3: Credit Risk

Accounts for risk of default and capitation payment credit risk.

- Each type of receivable included in the RBC formula has an associated factor
- Resulting products are summed to get total H3 risk



- Determine administrative costs and multiply by an RBC factor
- Penalty applied to entities growing too quickly
- Avoidable if H2 risk does not increase more than 10 percentage points faster than growth in premium

H4: Business Risk Accounts for risk that administrative expenses will be higher than expected.



Why is H2 So Important?



Increase in ACL Given Risk Components Double

■H1 ■H2 ■H3 ■H4





ORSA: Own Risk Solvency Assessment

- What is an Own Risk Solvency Assessment?
 - Enterprise Risk Management (ERM) practice
 - Structured implementation of ERM within health
 - Requires insurance companies to issue their own assessment of their current and future risk
 - Internal risk self-assessment process
 - Will allow regulators to form an enhanced view of an insurer's ability to withstand financial stress

All states were expected to have adopted ORSA by the end of 2017.



ORSA: Own Risk Solvency Assessment





ORSA: Own Risk Solvency Assessment

- The battle: identifying health insurer risks
 - By nature of an ORSA, I cannot list your risks here
 - With that said:
 - Environmental risk
 - Financial risk
 - Pricing risk
 - Operational risk
 - Reputational risk
 - Strategic risk
 - You may have to talk to, and work with, non-actuaries!



ORSA: Do I Need to Care?

- Who is required to conduct an ORSA?
 - ORSA applies to insurers (subsidiary level) with \$500 million or more in annual premium
 - Also to members of insurance group if group has \$1 billion or more in annual premium
- Annual requirement
 - Could be necessary to conduct more frequently
- Divisions of Insurance are allowed to ask for things
 - DOIs can also grant exemptions



Statement of Actuarial Opinion




Statement of Actuarial Opinion

An opinion relating to claim reserves and any other actuarial items

- Made by appointed actuary (what's that?)
- Opinion is at December 31
- Filing deadline of March 1 (following year)

(These slides will focus on the Orange Blank – health business - requirements)

Caveat: These slides do not intend to represent a self-contained set of complete materials necessary to complete an SAO successfully.



SAO: Who can sign?

- Code of Professional Conduct
 - Mirror Test
- AAA Qualification Standards
 - http://www.actuary.org/files/imce/qualification_standards.pdf
 - MAAA; FSA, ASA, FCAS, ACAS, et cetera
 - Three years responsible actuarial experience
 - Relevant to SAO under review of qualified actuary
 - Knowledgeable about relevant law
 - Relevant exam experience
 - Continuing education
 - 30 hours/year, 3 hours professionalism, 6 organized
 - Specific Qualification Standards



SAO: Who can sign?

- Must be qualified health actuary (see prior slide)
- Must be appointed by board of directors (or committee of the board) by December 31 of the year in which the opinion is rendered.
 - There are very specific rules about how to change appointed actuaries.



SAO: More than just IBNR!

- IBNR (Incurred But Not Reported)
- Medical Loss Ratio
- 3Rs (hopefully one R at this point)
- Unearned premium
- Premium deficiency reserves
- Policy reserves
- More



SAO: What's included?

- Methodology is consistent with ASOPs
- Methodology complies with relevant law
- Reserves are good and sufficient
- Development consistent with prior year-end
- Include provisions for all actuarial items (even if zero)
- Data reliance



SAO: The Sections

- Table of Key Indicators
- Identification Section
- Scope Section
- Reliance Section
- Opinion Section
- Relevant Comments



SAO: Table of Key Indicators

Table of Key Indicators

This Opinion is	🗹 Unqualified	Qualified	Adverse	Inconclusive					
Identification Section	Prescribed Wording Only	Prescribed W Additional Wordi	<u> </u>	Revised Wording					
Scope Section	Prescribed Wording Only	Prescribed W Additional Wordi	0	Revised Wording					
Reliance Section	Prescribed Wording Only	Prescribed W Additional Wordi	0	Revised Wording					
Opinion Section	Prescribed Wording Only	Prescribed W Additional Wordi	9	☑ Revised Wording					
Relevant Comments				☑ Revised Wording					
The Actuarial Memorandum includes "Deviation from Standard" wording regarding conformity with an Actuarial Standard of Practice.									



SAO: Identification Section

This section should specifically indicate:

- The appointed actuary's relationship to the company,
- Qualifications for acting as appointed actuary,
- Date of appointment, and
- Should specify that the appointment was made by the Board of Directors.

"I, (name and title of actuary), am an employee of (named organization) and a member of the American Academy of Actuaries. I was appointed on [date appointed] in accordance with the requirements of the annual statement instructions. I meet the Academy qualification standards for rendering this opinion."

(See NAIC Instructions for alternate prescribed wording)



SAO: Scope Section

- A. Claims unpaid (Page 3, Line 1);
- B. Accrued medical incentive pool and bonus payments (Page 3, Line 2);
- C. Unpaid claims adjustment expenses (Page 3, Line 3);
- D. Aggregate health policy reserves (Page 3, Line 4) including unearned premium reserves, premium deficiency reserves and additional policy reserves from the Underwriting and Investment Exhibit Part 2D;
- E. Aggregate life policy reserves (Page 3, Line 5);
- F. Property/casualty unearned premium reserves (Page 3, Line 6);
- G. Aggregate health claim reserves (Page 3, Line 7);
- H. Any other loss reserves, actuarial liabilities, or related items presented as liabilities in the annual statement; and
- I. Specified actuarial items presented as assets in the annual statement."



SAO: Reliance Section

Have you reviewed the underlying liability records?

- If you did, then say that you did (prescribed wording)
- If you did not, but relied upon data provided by the company, than say who you relied upon (prescribed wording).
 - Attach statements
 - Precise identification of items subject to reliance



SAO: Opinion Section

"In my opinion, the amounts carried in the balance sheet on account of items identified above:

- Are in accordance with accepted actuarial standards consistently applied and are fairly stated in accordance with sound actuarial principles;
- Are based on actuarial assumptions relevant to contract provisions and appropriate for the purpose for which the statement was prepared;
- Meet the requirements of the Insurance Laws and regulations of the state of [state of domicile] and are at least as great as the minimum aggregate amounts required by any state;
- Make a good and sufficient provision for all unpaid claims and other actuarial liabilities of the organization under the terms of its contracts and agreements;
- Are computed on the basis of assumptions and methods consistent with those used in computing the corresponding items in the annual statement of the preceding year-end; and
- Include appropriate provision for all actuarial items that ought to be established.

The Underwriting and Investment Exhibit, Part 2B was reviewed for reasonableness and consistency with the applicable Actuarial Standards of Practice.

Actuarial methods, considerations, and analyses used in forming my opinion conform to the relevant Standards of Practice as promulgated from time to time by the Actuarial Standards Board, which standards form the basis of this statement of opinion."



SAO: Relevant Comments

Optional section at discretion of appointed actuary.

- Changes to methodology or assumptions
- Topics of regulatory importance
- Qualification of actuary's opinion
- Additional explanation of Annual Statement items
- Additional reliance
- Caveats



SAO: Actuarial Memorandum

- Supports the Actuarial Opinion
- Must be available by May 1st (potentially sooner)
- Proprietary information will be held confidential
- Retain for seven years



SAO: Actuarial Memorandum

- Both narrative and technical
 - Should provide sufficient detail to clearly explain findings, recommendations, and conclusions
 - Should provide sufficient documentation and disclosure for another qualified actuary to evaluate the work.
 - Must show analysis from basic data (such as claim lags) to the conclusions.
- Other requirements



SAO: Last But Not Least

- This information is NOT COMPLETE
- Read, learn, and be aware of all of this (list is not complete):
 - NAIC Health Reserve Guidance Manual
 - NAIC Annual Statement Instructions
 - Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States
 - AAA Practice Notes:
 - Revised Actuarial Statement of Opinion Instructions for the NAIC Health Annual Statement Effective December 31, 2010
 - Large Group Medical Insurance Reserves, Liabilities, and Actuarial Assets
 - Small Group Medical Insurance Reserves and Liabilities
 - Practices for Preparing Health Contract Reserves
 - ASOPs 1, 5, 7, 11, 22, 23, 28, 41, 42, 45
 - SSAPs 54, 55, 61, 107



Rate Filings and Actuarial Memoranda





Filing of Rates

- Part I Standardized data template
- Part II Written description justifying the rate increase
- Part III Rating filing documentation
- Rates Template
- Other templates you might need to know?





- For any product subject to a rate increase, a Rate Filing Justification must be submitted
 - Rate increases under review threshold (such as 10%) Parts I & III
 - Rate increase above review threshold Parts I, II, and III



URRT

- Part I (Standardized Data Template)
 - Historical and projected claim experience
 - Trend projections related to utilization and service or unit cost
 - Claims assumptions related to benefit changes
 - Allocation of overall rate increase to claims and nonclaims costs
 - Per enrollee per month allocation of current and projected premium
 - Three year history of rate increases for the product



Worksheet 1

Unified Rate Review v2.0.3 Add Product Validate Finalize Company Legal Name: ABC Insurer State: CO HIOS Issuer ID: 00000 Market: Individual Effective Date of Rate Change(s 1/1/2016 State: CO

Market Level Calculations (Same for all Plans)

Section I: Experience period data				
Experience Period:	1/1/2014	to	12/31/2014	
		Period Aggregate		
		Amount	PMPM	% of Prem
Premiums (net of MLR Rebate) in Experie	nce Period:	\$22,695,911	\$314.59	100.00%
Incurred Claims in Experience Period		\$18,484,878	256.22	81.45%
Allowed Claims:		\$22,716,349	314.88	100.09%
Index Rate of Experience Period			\$315.00	
Experience Period Member Months		72,144		

Section II: Allowed Claims, PMPM basis

	Experience Period			Projec	Projection Period: 1/1/2016 to 12/31/2016 Mid-point to Mid-point,			int, Experience to Projection: 24 mo			nonths					
					Adj't. from l	Experience	Annualiz	ed Trend								
		on Actual Experi	ience Allowed		to Projection	on Period	Fac	tors	Projections, b	efore credibility A	djustment		Credibility Manual			
	Utilization	Utilization per	Average		Pop'l risk				Utilization per	Average		Utilization	Average			
Benefit Category	Description	1,000	Cost/Service	PMPM	Morbidity	Other	Cost	Util	1,000	Cost/Service	PMPM	per 1,000	Cost/Service	PMPM		
Inpatient Hospital	Days	297.67	\$3,151.10	\$78.17	0.973	0.901	1.047	0.996	287.32	\$3,112.29	\$74.52	391.88	\$3,112.29	\$101.64		
Outpatient Hospital	Services	1,307.13	900.11	98.05	0.973	0.901	1.067	1.006	1,287.14	923.31	99.04	1755.52	923.31	135.07		
Professional	Services	11,677.79	99.44	96.77	0.973	0.901	1.052	1.006	11,499.25	99.16	95.02	15683.66	99.16	129.59		
Other Medical	Services	536.01	151.00	6.74	0.973	0.901	1.052	1.006	527.81	150.57	6.62	719.87	150.57	9.03		
Capitation	Services	0.00	0.00	0.00	0.973	0.900	1.007	0.996	0.00	0.00	0.00	0.00	0.00	0.00		
Prescription Drug	Services	4,719.36	89.37	35.15	0.973	0.901	1.084	1.007	4,656.45	94.62	36.72	6350.86	94.62	50.08		
Total				\$314.88							\$311.91			\$425.41		
															After Credibility	Projected Period Totals
Section III: Projected Experience:			F	Projected Allowe	d Experience C	laims PMPN	/ (w/appli	ed credibil	ity if applicable)		44.77%			55.23%	\$374.60	\$193,103,453
					Paid to Allow	ved Average	e Factor in	Projection	Period						0.711	
					Projected Inc	curred Clain	ns, before .	ACA rein &	Risk Adj't, PMPM						\$266.34	\$137,296,555
					Projected Ris	sk Adjustme	ents PMPM								<u>-12.55</u>	(<u>6,469,387</u>)
Other Medical Services 536.01 151.00 6.74 0.973 0.901 1.052 1.006 527.81 150.57 6.62 719.87 150.57 9.03 Capitation Services 0.00 0.00 0.00 0.973 0.901 1.057 0.996 0.00										\$143,765,942						
					Projected AC	A reinsuran	ice recover	ies, net of	rein prem, PMPM						<u>10.37</u>	5,345,621
			F	Projected Incurre	d Claims										\$268.52	\$138,420,321
				Administrative Ex										12.74%	43.25	22,294,246
			-													



Worksheet 2

Product-Plan Data Collection	Add Product Validate	Finalize
Company Legal Name:		ABC Insurer
HIOS Issuer ID:		00000
Effective Date of Rate Change(s):		1/1/2016

Product/Plan Level Calculations

Section I: General Product and Plan Information

Product					ABC Insurer HMO				
Product ID:					00000CC0001				
Metal:		Gold	Silver	Bronze	Bronze	Catastrophic	Silver	Silver	
AV Metal Value	1	0.783	0.700	0.619	0.600	0.590	0.681	0.686	0.
AV Pricing Value	1	0.976	0.867	0.648	0.010	0.743	0.779	0.774	0
Plan Type:		HMO	HMO	HMO	HMO	HMO	HMO	HMO	F
Plan Name					HMO Bronze	HMO		HMO HDHP	
		HMO Gold	HMO Silver Plus	HMO Bronze	Elite	Catastrophic	HMO Silver	Silver	PP(
Plan ID (Standard Component ID):		00000000001000	0000000001000	0000000001000	0000000001000	0000000001000	0000000001000	0000000001000)0000C
Exchange Plan?		Yes	Yes	Yes	No	Yes	Yes	No	``````````````````````````````````````
Historical Rate Increase - Calendar Year - 2					0.00%				
Historical Rate Increase - Calendar Year - 1					0.00%				
Historical Rate Increase - Calendar Year 0					-8.57%				
Effective Date of Proposed Rates		1/1/2016	1/1/2016	1/1/2016	1/1/2016	1/1/2016	1/1/2016	1/1/2016	1/1
Rate Change % (over prior filing)		15.57%	16.50%	12.21%	0.00%	4.72%	0.00%	0.00%	
Cum'tive Rate Change ½ (over 12 mos prior)		15.57%	16.50%	12.21%	-999.00%	4.72%	-999.00%	-999.00%	-
Proj'd Per Rate Change % (over Exper.		16.01%	-2.41%	-0.76%	#DIV/0!	138.97%	7.28%	#DIV/0!	-
Product Threshold Rate Increase %					15.47%				

Section II: Components of Premium Increase (PMPM Dollar Amount above Current Average Rate PMPM)

Plan ID (Standard Component ID):	Total	0000000010001	000000010002	000000010003	0000000010004	000000010005	0000000010006	000000010007	000CC
Inpatient	\$8.58	\$9.32	\$8.70	\$5.30	\$0.00	\$1.17	\$0.00	\$0.00	
Outpatient	\$11.40	\$12.38	\$11.56	\$7.04	\$0.00	\$1.56	\$0.00	\$0.00	
Professional	\$10.94	\$11.88	\$11.09	\$6.75	\$0.00	\$1.50	\$0.00	\$0.00	
Prescription Drug	\$4.23	\$4.59	\$4.29	\$2.61	\$0.00	\$0.58	\$0.00	\$0.00	
Other	\$0.76	\$0.83	\$0.77	\$0.47	\$0.00	\$0.10	\$0.00	\$0.00	
Capitation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Administration	\$5.83	\$6.33	\$5.91	\$3.60	\$0.00	\$0.80	\$0.00	\$0.00	
Taxes & Fees	\$2.65	\$2.88	\$2.69	\$1.64	\$0.00	\$0.36	\$0.00	\$0.00	
Risk & Profit Charge	\$1.37	\$1.49	\$1.39	\$0.85	\$0.00	\$0.19	\$0.00	\$0.00	
Total Rate Increase	\$45.76	\$49.70	\$46.40	\$28.26	\$0.00	\$6.26	\$0.00	\$0.00	
Member Cost Share Increase	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

Average Current Rate PMPM	\$296.26	\$319.28	\$281.30	\$231.46	\$132.78	\$294.58	\$292.49
Projected Member Months	515,489	87,633	128,796	51,549	711	87,633	51,549



Worksheet 2, cont'd.

Section III: Experience Period Information

Warning Alert	Wsht 1 Total	Plan ID (Standard Component ID):	Total	00000CO0010001	00000CO0010002	00000CO0010003	00000CO0010004	00000CO0010005	00000CO0010006	00000CO0010007	00000CO0020001	00000CO0020002	00000000
ОК	\$ 314.59	Plan Adjusted Index Rate	\$314.59	\$316.96	\$334.64	\$260.79	\$0.00	\$117.13	\$273.64	\$0.00	\$373.30	\$378.02	
ОК	72,144	Member Months	72,144	13,760	22,893	22,459	0	171	366	0	5,734	6,761	
OK	\$22,695,911	Total Premium (TP)	\$22,695,843	\$4,361,370	\$7,660,914	\$5,857,083	\$0	\$20,029	\$100,152	\$0	\$2,140,502	\$2,555,793	
		EHB Percent of TP, [see instructions]	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	1
		state mandated benefits portion of TP that are other than EHB	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		Other benefits portion of TP	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
OK	\$22,716,349	Total Allowed Claims (TAC)	\$22,716,349	\$4,849,210	\$7,524,286	\$3,988,687	\$0	\$10,789	\$96,688	\$0	\$3,073,590	\$3,173,099	
		EHB Percent of TAC, [see instructions]	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	1
		EHB Percent of TAC, [see instructions] state mandated benefits portion of TAC that are other than EHB	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		Other benefits portion of TAC	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	
		Allowed Claims which are not the issuer's											
		eobligation:	\$4,231,472	\$783,797	\$859,743	\$1,464,648	\$0	\$194	\$9,030	\$0	\$600,824	\$513,235	
		Portion of above payable by HHS's funds on behalf of insured person, in dollars	\$0	\$0	\$0	\$0		\$0	\$0		\$0	\$0	
		Portion of above payable by HHS on behalf											
ОК	\$18,484,878	of insured person, as % Total Incurred claims, payable with issuer	0.00%	0.00%	0.00%	0.00%	\$0	0.00%	0.00%	\$0	0.00%	0.00%	#DIV/
UK	\$10,404,070	Total incurred claims, payable with issuer	\$18,464,878	\$4,005,415	\$0,004,545	\$2,524,059	50	210,595	\$87,058	50	\$2,472,700	\$2,059,804	
		Net Amt of Rein	\$1,784,999.22	\$347,351.06	\$692,980.19	\$366,000.46	\$0.00	\$0.00	\$0.00	\$0.00	\$159,740.65	\$218,926.86	
		Net Amt of Risk Adi	-\$3,778,999.99	-\$806,695.01		-\$663,541.81	\$0.00	-\$1,794.79	-\$16,084.66	\$0.00		-\$527,863.92	
			\$2,0,555.55	2250,055.01	\$2,252,705.00	<i><i><i>t</i> : 50,5 11.01</i></i>	00.00	52,151.15	\$10,001.00	00.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$227,000.52	
ОК	\$ 256.22	Incurred Claims PMPM	\$256.22	\$295.45	\$291.12	\$112.38	#DIV/0!	\$61.96	\$239.50	#DIV/0!	\$431.25	\$393.41	#DIV/
OK	\$ 314.88	Allowed Claims PMPM	\$314.88	\$352.41	\$328.67	\$177.60	#DIV/0!	\$63.09	\$264.18	#DIV/0!	\$536.03	\$469.32	#DIV/
		EHB portion of Allowed Claims, PMPM	\$314.88	\$352.41	\$328.67	\$177.60	#DIV/0!	\$63.09	\$264.18	#DIV/0!	\$536.03	\$469.32	#DIV/



Worksheet 2, cont'd.

Section IV: Projected (12 months following effective date)

Warning Alert	Wsht 1 Total	Plan ID (Standard Component ID):	Total	00000CO0010001	00000CO0010002	00000CO0010003	00000CO0010004	00000CO0010005	00000CO0010006	00000CO0010007	00000CO0020
OK	\$ 339.47	Plan Adjusted Index Rate	\$338.66	\$367.70	\$326.56	\$258.82	\$0.00	\$279.90	\$293.55	\$291.47	\$0
OK	515,489	Member Months	515,489	87,633	128,796	51,549	-	711	87,633	51,549	
OK	\$174,994,085	Total Premium (TP)	\$174,577,634	\$32,222,654	\$42,059,622	\$13,341,912	\$0	\$199,009	\$25,724,667	\$15,024,987	
		EHB Percent of TP, [see instructions]	99.56%	99.62%	99.57%	99.46%		99.50%	99.61%	99.42%	
		state mandated benefits portion of TP that									
		are other than EHB	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	
		Other benefits portion of TP	0.44%	0.38%	0.43%	0.54%	100.00%	0.50%	0.39%	0.58%	100.0
OK	193,103,453	Total Allowed Claims (TAC)	\$192,987,519	\$31,797,035	\$44,584,760	\$16,707,394	\$0	\$114,488	\$30,335,540	\$17,844,497	
		5 EHB Percent of TAC, [see instructions]	99.56%	99.62%	99.57%	99.46%		99.50%	99.61%	99.42%	
		state mandated benefits portion of TAC that									
		are other than EHB	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%	
		Other benefits portion of TAC	0.44%	0.38%	0.43%	0.54%	100.00%	0.50%	0.39%	0.58%	100.0
		Allowed Claims which are not the issuer's									
		Allowed Claims which are not the issuer's obligation Portion of above pavable by HHS's funds on	\$55,778,693	\$6,150,691	\$11,249,839	\$6,639,599	\$0	\$46,219	\$10,041,179	\$5,995,241	
		Portion of above payable by HHS's funds on									
		behalf of insured person, in dollars	\$10,249,718	\$6,062	\$3,979,316	\$261,513		\$0	\$3,553,973		
		Portion of above payable by HHS on behalf									
		of insured person, as %	18.38%	0.10%	35.37%	3.94%		0.00%	35.39%		#DIV/0!
		Total Incurred claims, payable with issuer									
OK	138,420,321	funds	\$137,208,826	\$25,646,344	\$33,334,921	\$10,067,795	\$0	\$68,268	\$20,294,361	\$11,849,256	
OK	5,345,621	Net Amt of Rein	\$5,344,568			\$408,446	\$0	\$6,092	\$787,547		
		Net Amt of Risk Adj	-\$6,470,042	-\$1,194,205	-\$1,558,786	-\$494,458	\$0	-\$7,375	-\$953,391	-\$556,838	
			1								
OK	\$ 268.52	Incurred Claims PMPM	\$266.17			\$195.31	#DIV/0!	\$96.02	\$231.58		#DIV/0!
OK	\$ 374.60	Allowed Claims PMPM	\$374.38			\$324.11	#DIV/0!	\$161.02	\$346.17	\$346.17	#DIV/0!
		EHB portion of Allowed Claims, PMPM	\$372.71	\$361.46	\$344.68	\$322.36	#DIV/0!	\$160.22	\$344.82	\$344.16	#DIV/0!



- Comments on URRT
 - Index rate, as used in the URRT, has a wholly different meaning than is typically used in manual rating.
 - Profit & Risk Load on Worksheet 1, Section III: Previously it was unclear whether it means profits before or after federal income tax. This should be an after-tax amount.
 - Individual market submissions must have an experience period that is a full calendar year and in all cases should be 12 months long.



- Comments on URRT
 - Brand new carriers have no previous experience.
 - On Worksheet 2, does not allow for the deletion and addition of columns, need to start from the beginning as product offerings change.
 - On Worksheet 2, for terminating products, 0.01 used for the pricing value.
 - Terminated non-ACA plans included in the experience pool should be grouped together and listed as catastrophic plans
 - Terminated ACA plans should be listed in their own column



- Comments on URRT
 - Many insurers don't price in the exact order or format as the URRT illustrates, so are left filling in the appropriate cells at the end
 - Many insurers do not calculate "change" in premiums at the level asked for in Worksheet 2 (IP, OP, PR, Rx). Additionally, many insurers do not have an "Other" bucket (ambulance, etc..), or do not have an "Other" definition that matches up to the definition used in the URRT.



- Part II, Written Justification
 - Only submitted for rate increases over threshold (state may decide otherwise)
 - A simple and brief narrative describing the data and assumptions that were used to develop the rate increase, including:
 - Explanation of the most significant factors causing the rate increase including the relevant claim and non-claim expense increases
 - Brief description of the overall experience of the policy including historical and projected expenses and loss ratios



- Part III
 - An actuarial memorandum containing the reasoning and assumptions supporting the data contained in Part I.
 - To be submitted for all rate increases
 - Specified format by CMS



Actuarial Memo Contents

- Part III, Rate Filing Documentation
 - Actuarial Memorandum Contents Outline
 - General Information
 - Proposed Rate Increase(s)
 - Experience Period Premium and Claims
 - Benefit Categories
 - Projection Factors
 - Credibility Manual Rate Development
 - Credibility of Experience
 - Paid to Allowed Ratio
 - Risk Adjustment and Reinsurance



Actuarial Memo Contents

- Part III, Rate Filing Documentation
 - Actuarial Memorandum Contents Outline (cont'd)
 - Non-Benefit Expenses and Profit & Risk
 - Projected Loss Ratio
 - Single Risk Pool
 - Index Rate
 - Market Adjusted Index Rate
 - Plan Adjusted Index Rates
 - Calibration
 - Consumer Adjusted Premium Rate Development
 - AV Metal Values
 - AV Pricing Values



Actuarial Memo Contents

- Part III, Rate Filing Documentation
 - Actuarial Memorandum Contents Outline (cont'd)
 - Membership Projections
 - Terminated Products
 - Plan Type
 - Warning Alerts
 - Effective Rate Review Information (Optional)
 - Reliance
 - Actuarial Certification
 - Data Sources, Assumptions, Methods, and more on each element in enough detail to comply with directions in instructions as well as ASOPs



Professionalism and Pricing





Code of Conduct





Code of Conduct Precept 1: Professional Integrity

- Be honest
- Use Skill and Care
 - Don't be deceitful or intentionally misrepresent
- Don't do anything illegal, or that would hurt our reputation
 - Includes using third party relationships to engage in improper activity



Code of Conduct Precept 2: Qualification Standards

- Make sure you are qualified
 - Basic education
 - Experience
 - Continuing education
- Must be qualified even if qualification standards for a particular assignment do not exist



Code of Conduct Precept 3: Standards of Practice

- You must satisfy applicable Standards of Practice
 - It is your responsibility to know what these are and keep up with changes
 - If no Standard applies to the work, use professional judgment and generally accepted actuarial principles and practices
 - If you depart from the Standards, you must justify the departure


Code of Conduct Precepts 4, 5 and 6: Communications and Disclosure

- Actuarial communications must:
 - Be clear and appropriate
 - Identify the responsible actuary
 - Indicate who can provide supplementary information
 - Identify the Principal
- You must disclose sources of compensation in relation to an assignment
- If you are not independent you must disclose this to the Principal
- Disclosure is required based on your firm, regardless of your operating location versus other work done in other locations for the Principal



Code of Conduct Precept 7: Conflict of Interest

- You should not perform Actuarial Services involving an actual OR potential conflict of interest, unless:
 - You are able to act fairly
 - You have disclosed the conflict to all Principals
 - All Principals have agreed on your performance of the services

"There is no moral precept that does not have something inconvenient about it." Denis Diderot



Code of Conduct Precept 8: Control of Work Product

- You should make sure your work is not used to mislead others
 - Recognize the risks of misquotation and misinterpretation
 - Construct and present your Actuarial Communication to avoid this
 - Include limitations on the distribution and utilization of the Communication



Code of Conduct Precept 9: Confidentiality

- Do not disclose confidential information
 - Unless Principal authorizes
 - Unless required by Law



Code of Conduct Precept 10: Courtesy and Cooperation

- Use courtesy and respect
- Cooperate with others in the Principal's interest
 - Differing opinions are ok; sharing your thoughts on another actuary's work should be objective, thoughtful and respectful
 - You can work for a Principal even if another actuary is already doing so
 - It is ok to give alternative opinions to a Principal
 - You can (should) consult with the prior/current actuary, but only with consent of the Principal
 - And if you are the prior actuary, you should cooperate with the new actuary



Code of Conduct Precept 11: Advertising

- Do not use false or misleading advertisement for Actuarial Services
 - Including the need for actuarial services
 - Including one actuary versus another
 - Includes all media trying to influence any person or organization



Code of Conduct Precept 12: Titles and Designations

- Your title and designation should be only used in a way that is authorized by the organization
 - "Title" means from an actuarial organization



Code of Conduct Precept 13 and 14: Violations of the Code

- If you are aware of a material violation of the Code by another Actuary:
 - First, discuss it with the other actuary
 - If not resolved, then you should disclose to the Counseling and Discipline body
 - Unless contrary to law, or violating confidentiality
- Material violation:
 - Important
 - Affects the outcome of a situation



Code of Conduct Precept 13 and 14: Violations of the Code

- If you are asked to provide information or cooperate with a counseling or disciplinary body, you should do so promptly and truthfully
 - Subject to restrictions of the Law, or confidentiality
- The ABCD stresses the "C"
 - http://www.abcdboard.org/



Applicability Guidelines (under revision process)





Task: Estimate incurred health claim liabilities

Possible ASOPs: ASOP 1 – Introductory Actuarial Standard of Practice ASOP 5 – Incurred Health and Disability Claims ASOP 11 – Financial Statement Treatment of Reinsurance Transactions Involving Life or Health Insurance ASOP 12 – Risk Classification (for All Practice Areas) ASOP 21 – Responding to or Assisting Auditors or Examiners in Connection with Financial Statements for All Practice Areas ASOP 23 – Data Quality ASOP 25 – Credibility Procedures Applicable to Accident and Health, Group Term Life, and Property/Casualty Coverages ASOP 28 – Statements of Actuarial Opinion Regarding Health Insurance Liabilities and Assets ASOP 41 – Actuarial Communications ASOP 45 – The Use of Health Status Based Risk Adjustment Methodologies



Task: Perform trend analysis (aggregate and components)

Possible ASOPs:

- ASOP 1 Introductory Actuarial Standard of Practice
- ASOP 5 Incurred Health and Disability Claims
- ASOP 7 Analysis of Life, Health, or Property/Casualty Insurer Cash Flows
- ASOP 8 Regulatory Filings for Health Plan Entities
- ASOP 12 Risk Classification (for All Practice Areas)
- ASOP 23 Data Quality
- ASOP 25 Credibility Procedures Applicable to Accident and Health, Group Term Life, and Property/Casualty Coverages
- ASOP 41 Actuarial Communications
- ASOP 42 Determining Health and Disability Liabilities

Other Than Liabilities for Incurred Claims

ASOP 45 – The Use of Health Status Based Risk Adjustment Methodologies



Task: Design, use, and/or update risk classification systems

Possible ASOPs:

- ASOP 1 Introductory Actuarial Standard of Practice
- ASOP 12 Risk Classification (for All Practice Areas)
- ASOP 23 Data Quality
- ASOP 25 Credibility Procedures Applicable to Accident and Health, Group Term Life, and Property/Casualty Coverages
- ASOP 41 Actuarial Communications
- ASOP 42 Determining Health and Disability Liabilities Other Than Liabilities for Incurred Claims
- ASOP 45 The Use of Health Status Based Risk Adjustment Methodologies



Task: Prepare actuarial certification of compliance for small group carriers

Possible ASOPs:

- ASOP 1 Introductory Actuarial Standard of Practice
- ASOP 23 Data Quality
- ASOP 26 Compliance with Statutory and Regulatory. Requirements for the Actuarial Certification of Small Employer Health Benefit Plans

ASOP 41 – Actuarial Communications



Task: Develop rates, plan design, quality standards, data/claims analysis for products and self-funded plans.

Possible ASOPs:

1, 3, 4, 5, 6, 7, 8, 11, 12, 17, 18, 23, 25, 26, 27, 35, 41, 42, 44, 45, new MV/AV ASOP



Task: *Provide analysis on risk-sharing programs, including reinsurance, risk corridor, risk adjustment, experience rating, and rate stabilization funds.*

Possible ASOPs:

1, 3, 5, 7, 8, 11, 12, 18, 23, 25, 41, 42, 45



Task: ACA-related filings, including rate filing, cost-sharing reduction calculations, reinsurance, risk adjustment, risk corridors, medical loss ratios, and actuarial value (AV) and minimum value (MV) certifications.

Possible ASOPs:

1,5, 7, 8, 11, 12, 17, 23, 25, 41, 42, 45, and new AV/MV ASOP







Requirements for Actuarial Communications

Form and content: appropriate to the circumstances

Clarity: uses appropriate language, taking into account intended users

Timing: reasonable, considering needs of intended users

Identification of Responsible actuary



Actuarial Report

- Should be completed if the actuary intends the findings to be relied upon by any intended user
 - One or several documents, could be different formats
- Report contents:
 - Actuarial findings
 - Methods, procedures, assumptions and data
 - Clear enough for another actuary to make an appraisal of reasonableness
- Specific Circumstances: Can limit the content, but must be prepared to identify such circumstances and justify limiting the content of the actuarial report.



All communications should disclose:

- Identification of Responsible Actuary
- Identification of Actuarial Documents
- Disclosure in actuarial reports:
 - Intended users, scope and intended purpose
 - Acknowledgment of qualification
 - Limitations or constraints on the findings
 - Documents comprising the actuarial report
 - Assumptions or methods prescribed by law
 - Deviation from the guidance of an ASOP



Additional Disclosures Within an Actuarial Report

- Uncertainty or Risk
- Conflict of Interest
- Reliance on Other Sources
- Responsibility for assumptions and methods next slide
- Information Date of Report (data)
- Subsequent Events -- disclose if:
 - Becomes known after the information date, but before the report is issued
 - Material effect if reflected in findings, and
 - Impractical to revise the report



If an assumption or method is specified by law or selected by another party, 3 choices:

- 1. If it does not conflict with your judgment, no disclosure obligation
- 2. If it significantly conflicts with your judgment, must disclose
 - a. Assumption or method set by another party
 - b. The party who set it
 - c. The reason they are setting it and not you
 - d. That it conflicts with your judgment or you are unable to judge
- 3. If you are unable to judge the reasonableness, disclose per #2 above



- Other requirements
 - Explanation of material differences
 - Oral communications
 - Responsibility to other users
 - Retention of other materials







- Revised December 2004
- Accuracy and validity of analysis depends on quality of data
- Reliance ranges for accepting without any checking to complete verification
- Standard does not require audit of data



- Considerations on Selecting Data
 - Intended purpose
 - Reasonableness and comprehensiveness
 - Internal and external consistency
 - Cost, feasibility, and benefit of obtaining alternative data
 - Sampling method



- May rely on data supplied by others
- Accuracy of data supplied by others is their responsibility
- Should disclose such reliance
- Should review to identify values that are questionable



- Disclosures
 - Source of data
 - Potential bias due to imperfect data
 - Adjustments made
 - Extent of reliance on data by other
 - If reviewed and if not reviewed, any limitations on work product
 - Any limitations due to uncertainty about the quality of the data
 - Any unresolved concerns
 - Any conflicts with law, regulation, etc.



Literature Review and Resources





Start With - Your Company Website

- Intranet
 - Branded
 - Reviewed by Legal
- Internet
 - Some companies share information



Actuarial Organizations

- Society of Actuaries (<u>http://www.soa.org</u>)
 - Research
 - Presentation archives
- American Academy of Actuaries (<u>http://www.actuary.org</u>)



Think Tanks/Publications

- Rand Corporation (<u>http://www.rand.org</u>)
- Kaiser Family Foundation (<u>http://www.kff.org</u>)
- Robert Woods Johnson Foundation (<u>http://www.rwjf.org</u>)
- Health Affairs (<u>http://www.HealthAffairs.org</u>)



Government Agencies

- CMS (<u>http://www.cms.gov</u>)
- Congressional Budget Office (<u>http://www.cbo.gov</u>)
- MedPac (<u>http://www.medpac.gov</u>)
- Centers for Disease Control (<u>http://cdc.gov</u>)
- National Center for Health Statistics (<u>http://cdc.gov/nchs</u>)



Consultant Websites

- Milliman (<u>http://www.milliman.com</u>)
- Towers Watson (<u>http://www.towerswatson.com</u>)
- AONHewitt (<u>http://www.aonhewitt.com</u>)
- Mercer (<u>http://www.mercer.com</u>)
- Wakely (<u>https://www.wakely.com/</u>)



And, last but not least...

• Google (<u>http://www.google.com</u>)


Literature Review and Resources

APPENDIX





Literature Review American Academy of Actuaries

Exposure draft of an addendum to the October 2012 practice note,

Actuarial Practices Relating to Preparing, Reviewing, and Commenting on Rate Filings Prepared in Accordance with the Affordable Care Act for 2015 and Beyond. (September 1, 2014) <u>https://www.actuary.org/files/RRPN_exposure_draft</u> 092614.pdf



Society of Actuaries Commercial Health Care: What's Next?

http://www.theactuarymagazine.org/category/web-exclusives/commercialhealth-care-whats-next/

- The Old and the Beautiful (Norris, Leida, Rode, Gray)
 - <u>http://www.theactuarymagazine.org/the-old-and-the-beautiful/</u>
- The Next Generation High Risk Pool (Leif, Bykerk)
 - http://www.theactuarymagazine.org/next-generation-high-risk-pool/
- The Entrepreneur and the Specter of Health Care (Swacker)
 - <u>http://www.theactuarymagazine.org/entrepreneur-specter-health-care/</u>
- Creating Stability in Uncertain Times (Peper, Hilson, Cohen)
 - https://theactuarymagazine.org/creating-stability-unstable-times/
- Coverage for One and for All? (Lee, Akopyan)
 - https://theactuarymagazine.org/coverage-for-one-and-for-all/
- New Rules to Expand Association Health Plans (Corlette, Hammerquist, Nakahata)
 - <u>https://theactuarymagazine.org/new-rules-to-expand-association-health-plans/</u>
- And more?



Literature Review and Resources Other Society of Actuaries Research

Provider Payment Arrangements, Provider Risks, and Their Relationship with the Cost of Health Care, by Juliet M. Spector, FSA, MAAA, Brian Studebaker, MA, and Ethan J. Menges <u>https://www.soa.org/Research/Research-Projects/Health/2015-provider-payments-arrangements-risk.aspx</u>

Indications of Pent-up Demand, by Rebecca Owen, FSA, MAAA and Daniel Maeng, PhD <u>https://www.soa.org/Research/Research-Projects/Health/2015-pent-up-demand-health.aspx</u>

Modeling Long Term Healthcare Cost Trends, by Thomas E. Getzen, iHEA and Temple University <u>https://www.soa.org/research/research-projects/health/research-hlthcare-trends.aspx</u>

Health Care Costs – From Birth to Death (joint project HCCI/SOA), by Dale Yamamoto http://www.soa.org/Research/Research-Projects/Health/research-health-care-birth-death.aspx

For more on SOA health research, please visit <u>http://www.soa.org/research/research-projects/health/default.aspx</u>



Literature Review and Resources SOA's Health Watch August 2015 Issue

- The ACA's Medical Loss Ratio Provisions: Looking Back By Rowen Bell
- Health Care Reform: Essential Health Benefits and Actuarial Value By Catherine Knuth
- A Regulatory Perspective on Rate Review Before and After the Affordable Care Act By Annette James and Jaakob Sundberg
- The Individual Market and ACA Products: Starting from First Actuarial Principles By Kurt Wrobel
- 30 Surplus and the ACA By Daniel Pribe
- The Affordable Care Act's Five-Year Anniversary—Wall of Comments: A compilation of feedback from the actuaries in the Health Section
- Medicaid and the ACA By Rebecca Owen
- 39 Medicare Advantage: Five Years after the ACA By Andrew Mueller and Caroline Li
- ACA Impact on Employers—The Road Ahead and the Road Behind By Sujaritha Tansen and Brian Stentz
- The Role of the Affordable Care Act in Payment Reform By Juliet Spector
- Taxes and Fees Introduced by the ACA By Rowen Bell and Mike Gaal
- The CLASS Act and Its Aftermath By Robert Yee
- https://www.soa.org/Library/Newsletters/ACA@5/2015/August/aca-2015-iss1.pdf



Literature Review and Resources Society of Actuaries Recordings

2014 Health Meeting sessions

Day-4.aspx

Sessions 5, 18, 27: Overview and breakdowns of the 3 Rs Session 6: Rate Review 101 Session 8: Specialty Drugs Session 7: The ACA's Effect on Large Employers Session 19: ACA-Rate Review Session 20: The ACA and the Economy Session 22: Behavioral Finance for Health Actuaries Session 28: Exchanges 101 Session 29: Post-ACA Medical Benefit Plan Design Session 31: Creative Ways to Bend Trend Session 33: Predictive Models in Healthcare Session 43: Exchanges – What Happened? What is Going to Happen? Session 86: Private Exchanges: New Directions in Employer Benefits Session 90: ORSA for Health Actuaries – Getting the Most Out of It

Session 101: Professionalism Consideration for Pricing Actuaries

https://www.soa.org/Professional-Development/Event-Calendar/2014/Health-Meeting/Agenda-Day-2.aspx https://www.soa.org/Event-Calendar/2014/Health-Meeting/Agenda-Day3/ https://www.soa.org/Professional-Development/Event-Calendar/2014/Health-Meeting/Agenda-



Literature Review and Resources Society of Actuaries Recordings

2015 Health Meeting sessions

Session 7: Statistics 101 for Health Actuaries
Session 8: Financial Reporting and the Affordable Care Act
Session 10: Actuarial Opinions Revisited
Session 12: The Latest on the ACA: From the Industry, Congress, and the Supreme Court
Session 13: Big Data, Behavioral Data and Predicting Health Outcomes
Session 21: Statistics 102 for Health Actuaries
Session 25: Doctors without Networks: Alternative Arrangements for Medical Benefits
Session 36: The Affordable Care Act and Dental: Past, Present, and Future
Session 51: The Latest on Public Exchanges
Session 52: Evolving Guidance for Capitation Rate Setting
Session 72: Predictive Modeling: What's New, and How to Use It
Session 99: Enterprise Risk Management and ORSA

https://www.soa.org/Professional-Development/Event-Calendar/2015/Health-Meeting/Agenda-Day-2.aspx https://www.soa.org/Professional-Development/Event-Calendar/2015/Health-Meeting/Agenda-Day-3.aspx https://www.soa.org/Professional-Development/Event-Calendar/2015/Health-Meeting/Agenda-Day-4.aspx



Literature Review and Resources Payment Reform Initiatives Outcomes

Visit the payment reform webpage and join the list serve

- Monthly informal calls on this issue
- Lots of free continuing education

http://www.chqpr.org/index.html



Literature Review and Resources American Academy of Actuaries

CMS ACA Regulation Review Video Modules Members have access to videos prepared by CMS on several key regulations implementing provisions of the ACA. To access the site, log in to the Academy's members-only page and select the link for ACA Regulation Review Videos.

Academy Committees oriented on policy: get involved, earn free CE:

http://www.actuary.org/content/health-practice-council-committees

Professionalism committees are created as needed to develop and revise ASOPs.

Examples of Health Practice Council committees (policy): Individual and Small Group Markets Committee

AV/MV Work Group

Risk Sharing Subcommittee

Premium Review Work Group

Financial reporting and Solvency Committee

Health Solvency Subcommittee

Communications and deliverables on website (issue briefs, letters to policymakers, practice notes)



Literature Review and Resources American Academy of Actuaries

American Academy of Actuaries Professional Webcast Recordings: <u>http://www.actuary.org/professionalism-webinars</u>

Webcasts for pricing health actuaries:

Unknown Unknowns: Challenges to Professionalism New Report on Actuaries' Perceptions of Key Ethical Issues Facing Profession Up to Code: Are You Keeping Up to Code? Disclosure in the Real World: ASOP No. 41 Case Studies Precept 13: Preserving Integrity and Public Trust Where the Rubber Meets the Road: Applying the Code of Professional Conduct and ASOPs in Your Daily Work Setting the Ground Rules: Revised ASOP No. 1 and Other Key Information for Actuaries Professionalism Webinar: Improving Your Practice Through Peer Review Webinar: Precept 13—How Do I Comply in a Self-Regulating Profession? Professionalism Webinar: ABCD Requests for Guidance—Insight and Case Studies Professionalism webinar: U.S. Qualification Standards—Key Aspects and your FAQs Answered Code of Professional Conduct webinar: Applying the same code in uncertain economic times The Profession's Responsibility to the Public Webinar Webinar: Revised ASOP No. 41: Actuarial Communications Academy Webinar: Best of "Up to Code" You've got Qualification Standards questions? The Academy has answers The Importance and Benefits of Understanding the Code



Literature Review and Resources Great Links

CMS Information Hub on Exchange and 3Rs The CMS Regtap series provides useful information on implementing health reform. To register for access to the site, visit <u>http://www.regtap.info/login.php</u>.

<u>CCIIO's Regulation and Guidance</u> <u>http://www.cms.gov/cciio/Resources/Regulations-</u> <u>and-Guidance/index.html</u>

The Robert Wood Johnson Foundation and the George Washington University's Hirsh Health Law and Policy Program teamed together to provide a helpful resource on a variety of topics of the ACA, including delivery system reform, Medicaid, Medicare and tax policy. <u>http://www.healthreformgps.org/</u>.

Visit <u>HealthShare TV</u> to hear thoughts from industry experts on all kinds of issues, including Medicaid expansion, health care delivery improvement, cost, quality, ACOs and much more. <u>http://www.healthsharetv.com/</u>



Literature Review and Resources *Health Affairs*

Health Affairs Theme Issues that would appeal to a health pricing actuary. Visit <u>http://misc.soa.org/HealthAffairs.pdf</u> for directions on how Health Section members get free access to Health Affairs.

April 2015: <u>Cost and Quality of Cancer Care</u> December 2014: <u>Children's Health</u> November 2014: <u>Specialty Pharmaceutical Spending And Policy</u> September 2014: <u>Advancing Global Health Policy</u> June 2014: <u>Economics of Health Care: Costs, Savings, and Value</u> March 2014: <u>The ACA and Vulnerable Americans: HIV/Aids; Jails</u> February 2014: <u>Early Evidence, Future Promise of Connected Health</u> December 2013: <u>The Future of Emergency Medicine: Challenges and Opportunities</u> October 2013: <u>Economic Trends And Quality Trade-Offs</u> September 2013: <u>Navigating The Thorns That Await The ACA</u> August 2013: <u>Health IT, Payment And Practice Reforms</u> July 2013: <u>States, Medicaid And Countdown To Reform</u> June 2013: <u>Medicaid Expansion And Vulnerable Populations</u> May 2013: Tackling The Cost Conundrum



Literature Review and Resources Congressional Budget Office (CBO)

CBO Publications on a variety of the topics mentioned earlier:

- Budgetary and Economic Effects of Repealing the Affordable Care Act
- The 2015 Long-Term Budget Outlook
- <u>Effects of the Affordable Care Act on Health Insurance Coverage Baseline</u> <u>Projections</u>
- <u>Proposals for Health Care Programs CBO's Estimate of the President's Fiscal Year</u> 2016 Budget
- <u>Payments of Penalties for Being Uninsured Under the Affordable Care Act: 2014</u> <u>Update</u>

http://www.cbo.gov/topics/health-care



Literature Review and Resources Medical Inflation

ALTARUM INSTITUTE Health Sector Indicators Briefs (monthly)

http://altarum.org/our-work/cshs-health-sector-economic-indicators-briefs

Health Care Cost Institute (HCCI) Trend Reports http://www.healthcostinstitute.org/2013-health-care-cost-and-utilizationreport

NHE Projections Released CMS' Office of the Actuary published their widely read annual <u>article on National Health Expenditures Projections</u>.



Literature Review and Resources Employer Actions

Penalties for Employers Not Offering Under the Affordable C

Employer Penalty Flowchart

Kaiser Family Foundation's <u>flowchart</u> is an excellent visual summary of the 2014 and beyond affect of not offering affordable health insurance. <u>http://kff.org/infographic/employer-responsibility-under-</u> <u>the-affordable-care-act/attachment/employer-penalty-</u> <u>flowchart-v3-071513/</u>



Employer-Sponsored Insurance and Health Reform: Doing the Math

NIHCR Research Brief No. 11 This research brief describes the financial considerations around employers' decision to offer and not offer health insurance, and why for most but not all employers, continuing to offer health insurance makes sense financially. <u>http://www.nihcr.org/ESI-and-Health-Reform</u>

Changing the ACA's Definition of Full-Time Work

Discussion of how the ACA's definition of full-time employment (at least 30 hours per week, compared to the traditional 40 hour week) may affect employment.

http://americanactionforum.org/research/changing-the-acas-definition-of-full-time-work



Literature Review and Resources Reference Based Pricing

Reference Pricing: Stimulating Cost-Conscious Purchasing and Countering Provider Market Power In this essay, author James Robinson describes how this design has increased consumerism and put pressure on providers' prices. <u>http://www.nihcm.org/expert-voices-reference-pricing-stimulating-cost-conscious-</u> purchasing-and-countering-provider-market-power



Literature Review and Resources Specific Coverages

National Institute for Health Care Reform (NIHCR): State mandates www.nihcr.org/State_Benefit_Mandates.html

Does Bariatric Surgery Impact Medical Costs Associated With Obesity?

A team of researchers from the School of Medicine and the Bloomberg School of Public Health at the Johns Hopkins recently undertook a multi-year analysis of health insurance claims data to examine this question and found that although the procedure's success rate is well-documented, the surgery does not have a similar "reducing" impact on health care costs. <u>http://www.jhsph.edu/news/news-releases/2013/weiner-bariatric-surgery.html</u>

AHRQ Research on Medication Adherence As part of AHRQ's *Closing the Quality Gap: Revisiting the State of the Science* series, the Medication Adherence Interventions report summarizes the evidence available on the comparative effectiveness of interventions and policy approaches to improve medication adherence, as well as demographic and delivery mode influences on results, and unintended consequences of interventions. The research includes references to the connection of adherence to health outcomes. <u>http://effectivehealthcare.ahrq.gov/index.cfm/search-for-guidesreviews-and-reports/?productid=1249&pageaction=displayproduct</u>

GAO Reports on Savings from Generic Drugs The U.S. Government Accountability Office (GAO) released a literature review on the cost savings achieved by greater generic drug use. <u>http://www.gao.gov/assets/590/588064.pdf</u>



Literature Review and Resources Pent Up Demand / Induced Demand

Indications of Pent-up Demand

This is preliminary examination of the use of services that are likely to be deferred or even avoided due to financial constraints as a result of lack of health insurance.

https://www.soa.org/Research/Research-Projects/Health/2015-pent-up-demandhealth.aspx

Oregon Medicaid Lottery Studies

Pent Up Demand of the Newly Insured In this Milliman Health Reform Briefing Paper, actuary Rob Damler shows how early efforts in Indiana can help inform other States and actuaries on what may occur as they venture into the new health insurance exchange marketplace in 2014. <u>http://publications.milliman.com/research/health-rr/pdfs/experience-under-healthy-indiana.pdf</u>

RAND Corporation Research Briefs: Skin in the Game How Consumer-Directed Plans Affect the Cost and Use of Health Care By Amelia Haviland, Roland McDevitt, M. Susan Marquis, Neerai Sood, Melinda Beeuwkes Buntin <u>http://www.rand.org/pubs/research_briefs/RB9672.html</u>



Literature Review and Resources Geographical Variation

Affordable Care Act Plans and Premiums in Rural America The National Advisory Committee on Rural Health and Human Services discusses pricing and premiums for rural populations with regards to the 2014 market. http://www.hrsa.gov/advisorycommittees/rural/publications/plansruralamerica.pdf

Study Concluded that Spending Variation Driven by Regional Differences in Health Status and Hospital <u>www.nihcr.org/spending_variation.html</u>

Geographical Variation in Health Care Spending The National Institute for Health Care Reform (NIHCR) Research Brief No. 7 by Chapin White, finds that health status and hospital prices are major factors that drive differences in regional health care spending. <u>http://www.nihcr.org/spending_variation.html</u>

The Dartmouth Atlas of Health Care has collected a wealth of data on geographic differences by region, by hospital and by topic and much more. Also related to this topic, Nancy Walczak, FSA, was featured at a Society of Actuaries webcast on January 14, 2013 on this same subject, giving actuaries an overview of findings from a recent 20-month long study of private health plans that was commissioned through the Affordable Care Act is available for purchase on the SOA's website archive. <u>http://www.dartmouthatlas.org/</u>

Medicare Payment Advisory Commission's June 2013 Report: Medicare and the Health Care Delivery System has a chapter devoted to geographic adjustment of payments for the work of physicians and other health professionals. <u>http://www.medpac.gov/documents/Jun13_EntireReport.pdf</u>



Literature Review and Resources 3Rs

Headwinds cause 2014 risk corridor funding shortfall By Scott Katterman, FSA, MAAA http://www.milliman.com/insight/2015/Headwinds-cause-2014-risk-corridor-funding-shortfall/

Transitional reinsurance at 100% coinsurance: What it means for 2014 and beyond By Hans K. Leida PhD, FSA, MAAA, Doug Norris, PhD, FSA, MAAA, Daniel Perlman, FSA, MAAA, <u>http://us.milliman.com/insight/2015/Transitional-reinsurance-at-100-coinsurance-What-it-means-for-2014-and-beyond/</u>

Risk adjustment: overview and opportunity: Top 10 notable issues related to the federal risk adjuster By Mary van der Heijde, FSA, MAAA and Jordan Paulus, FSA, MAAA <u>http://us.milliman.com/insight/2015/Risk-adjustment-Overview-and-opportunity-Top-10-notable-</u> issues-related-to-the-federal-risk-adjuster/

Risk Corridors Episode IV: No New Hope By Hans K. Leida PhD, FSA, MAAA, Doug Norris, PhD, FSA, MAAA, Daniel Perlman, FSA, MAAA,

http://us.milliman.com/uploadedFiles/insight/2014/risk-corridors-no-new-hope.pdf

