



ACTUARIAL MEMORANDUM

3Q/4Q 2018 Large Group AR44 Manual Rate and Addendum Filing

Purpose of Filing

The purpose of this filing is to demonstrate the development of manual rates in support of MVP Health Plan's (MVPHP) Large Group HMO product portfolio and seek approval of the manual rates and factors used to develop group specific premium rates. The premium rates included in this filing are for group effective dates between 7/1/2018 and 12/31/2018. The rates are effective for 12 months. This rate filing has been prepared to satisfy the requirements of 8 V.S.A § 5104 and is not intended to be used for other purposes.

Note that MVP has migrated its entire product portfolio sold on the MVP Health Insurance Company (MVPHIC) license to MVPHP and retired the entire portfolio previously sold on MVPHIC. Where applicable, both the old MVPHIC product name and the new MVPHP product name have been displayed in the rate filing, and increases are comparing the new MVPHP product to the previous MVPHIC product.

Scope of Filing

As of January 2018, there are 2,275 members enrolled in Large Group plans on MVPHIC. Of these members, 155 (1 group) has a 3rd quarter renewal.

The overall projected annual revenue change for 3Q 2018 is +3.8% and is driven by three factors which are described below.

- Manual Rate Change: MVP is proposing a quarterly manual rate increase of 8.3% which translates to an annual increase of 8.3%.
- Age/Gender Table Normalization: The average age/gender factor of the population in this experience period compared to the prior filing is 1.010. When combined with the normalization from the prior filing, the annual change to the age/gender factor results in a revenue decrease of -1.1%. MVP is dividing all of the current age/gender factors by this amount (1.010) which is actuarially equivalent to normalizing the claim projection by the same factor. The normalized age/gender table is included in Appendix B of the file, "Appendices A-C – 3Q 2018.xlsx".
- Change in Target Loss Ratio: MVP is increasing its target loss ratio from 82.2% in the 3Q 2017 filing to 84.8% for this rate filing which is decreasing the overall revenue change by 3.1%. The drivers of this reduction are renewing the groups onto MVPHP from MVPHIC, which removes the VT premium tax assessment and reduces the ACA tax liability, as well as the postponement of the ACA tax for 2019 coverage dates.

Please see the following table for a derivation of the overall revenue change for 3Q and 4Q 2018.

Derivation of Annual Revenue Change Based on Quarterly Rate Changes							
	4Q '17 / 3Q '17	1Q '18 / 4Q '17	2Q '18 / 1Q '18	3Q '18 / 2Q '18	4Q '18 / 3Q '18	3Q '18 Annual Increase	4Q '18 Annual Increase
Manual Rate Changes	1.8%	-3.1%	1.4%	8.3%	1.2%	8.3%	7.7%
	Average Manual Rate Change for LG HIC Block					8.3%	7.7%
	Age Gender Table Normalization					-1.1%	-1.1%
	Impact of Changes in Target Loss Ratio					-3.1%	-3.4%
	Proposed Annual Revenue Change					3.8%	2.8%

Experience Period Claims

Large group MVPHIC claims incurred between November 2016 and October 2017, paid through January 2018 (with incurred estimates updated through February 2018) were the basis of MVP's rate analysis. Fee-for-service (FFS) medical and pharmacy claims were projected to the 3Q 2018 rating period by applying 20 months of trend to the experience period data. The capitation and non-FFS costs included in the rate development represent MVP's best estimate of these costs during the rating period.

Pooling Charge

To account for volatility in high cost claims, claims in excess of \$100,000 are being removed from the claim projection and replaced by a pooling charge. The pooling charge of 9.16% is equal to the \$100,000 pooling charge included in MVP's LG Addendum which is included with this SERFF submission. For a summary of the high cost claim ratio in recent time periods, please refer to the attached file, "Rolling 12 Medical and Rx Data – LG".

IBNR Factor

As previously stated, MVP has used claim data with three months of paid claim runout. We have completed the claims using an IBNR factor of 6.4% which is our best estimate of ultimate liabilities as of 2/28/18. MVP uses a combined trended PMPM and completion factor method to value its ultimate claim liabilities. Please see the following table comparing incurred and paid claim amounts by month for the experience period. Note that this IBNR model is not exclusive to this block of business, so the paid and incurred claim amounts will not tie out to the experience in the filing.

Incurred Month	Paid Claims	Incurred Claims	IBNR Factor
201710	\$1,273,834	\$1,608,127	1.262
201709	\$1,027,128	\$1,516,923	1.477
201708	\$1,303,326	\$1,429,264	1.097
201707	\$1,057,664	\$1,061,116	1.003
201706	\$1,322,623	\$1,325,363	1.002
201705	\$1,434,177	\$1,435,859	1.001
201704	\$1,105,092	\$1,106,277	1.001
201703	\$1,481,008	\$1,481,932	1.001
201702	\$853,410	\$853,479	1.000
201701	\$1,223,229	\$1,217,037	0.995
201612	\$1,190,661	\$1,190,991	1.000
201611	\$1,677,536	\$1,678,799	1.001
Total	\$14,949,688	\$15,905,169	1.064

MVP is applying an IBNR factor of 0.995 to January 2017 incurred claims to reflect that fact that there are claims which were paid on or before January 2018 and were reversed out of the claim triangle in February 2018. MVP is not expected to have to re-pay for this claims, so the incurred estimate is ultimately lower than the paid claims as of January 2018.

The reason for the higher than normal IBNR factor is that MVP has received several large claims between January 31, 2018 and today. These claims total \$112,741 for August 2017, \$461,000 for September 2017 and \$202,267 for October 2017. The IBNR factor including these as paid claims instead of incurred claims is 1.1%. Because these claims are not included as paid in the data in the filing, however, we have excluded them from the paid amounts when calculating the IBNR factor.

Development of Manual Rate Increase

Exhibit 3a demonstrates the development of the proposed 3rd quarter rate action. FFS medical claims completed with IBNR and adjusted for the pooling charge are projected to the rating period. An adjustment to the claim projection is made to account for New York's HCRA Surcharge. The New York HCRA Surcharge included in the claim projection is based only on claims paid for services performed by New York hospitals. The load for this surcharge equals 0.25% and is based on historical HCRA fees incurred by Vermont members.

Experience period Rx claims are adjusted for pooling and projected to the rating period. MVP has received 2018 forecasted Rx rebate information from its PBM which is reflected in the projected Rx rebate calculation. Separate rebate per script information has been provided for brand and specialty drugs. These amounts were applied to MVP's projection period brand and specialty script utilization to obtain a PMPM estimate of the rebates in the projection period and equals \$18.98 PMPM for 3Q 2018 renewals and \$19.19 PMPM for 4Q 2018 renewals.

Consistent with the prior filing, MVP is reflecting the new regulation regarding the use of statins for the prevention of cardiovascular disease (CVD) in adults which will go into effect in November 2017. The United States Preventive Service Task Force has given low- and moderate-dose statins a grade of "B" when prescribed to adults aged 40 to 75 with no prior history of CVD but evidence of risk factors. This means that it will become mandatory that carriers cover these drugs in full with no member cost sharing. Because these drugs were previously covered by MVP but with the applicable member cost sharing applied, an adjustment needs to be made to the experience period data to reflect the removal of cost sharing. MVP has estimated the cost sharing during the experience period based on member's age and a lack of a CVD diagnosis, and the result was a \$0.35 PMPM increase to the experience period pharmacy incurred claims. This has been reflected in line 8c of Exhibit 3a in the rate filing.

Non-FFS claim expenses and capitation expenses are added to the claim projection. Please see the following table for a summary of non-FFS and capitation expenses reflected in MVP's rate development for this filing.

Summary of Capitations and Non-FRDM Claim Expenses	
Other Medical Expense not in warehouse	\$2.27
ASH Cap	\$0.29
Net Reinsurance Expense	\$0.21
Medical Home and PCP Incentive	\$2.48
18 V.S.A § 9374(h) Billback	\$1.14
Retrospective Rating	\$0.76
Total	\$7.15

The expected non-FFS medical expenses added to the claim projection reflect costs associated with net reinsurance expense, PCP incentive payments and Medical Home, and other miscellaneous MVP claim expenses not included in the historical experience period data such as manual checks and Massachusetts surcharges. The Other Medical Expense data is comprised of a 3-year average of data for all Vermont group sizes and companies (MVPHP and MVPHIC) in order to minimize random variation in this block of business.

MVP offers a retrospective rating product to its large group customers in VT. For 2016 dates of service, MVP made payments back to groups under this arrangement and is reflecting the associated expense in its manual rate development. Because of this, MVP is proposing to increase the risk charge for retrospective rating in the addendum as well as include the value of these payments in the manual rates. MVP is adding the difference between the actual payments to groups during the experience period (payments were made in 2016 only) and the premium assumed to be collected via the updated risk charge which amounts to \$0.76 PMPM. If MVP did not reflect this additional expense in its manual rates, MVP would not reach its target loss ratio for the block.

Finally, adjustments are made to the projected net claims cost to account for average industry factor and the impact of membership changes over the experience period.

The industry normalization factor shown on Exhibit 3a was computed using MVP's census over the experience period along with the industry factors included in Appendix A of the file, "Appendices A-C – 3Q 2018.xlsx" which is included with this SERFF submission. MVP is not proposing changes to these factors for 3Q 2018. Because MVP is deriving its proposed rate increase from the 2Q 2018 manual rates which reflects an industry factor equal to 1.00, claim costs must be adjusted to be on a 1.00 basis as well. Over the experience period, the average industry factor was 1.021. To neutralize the impact of this factor on the required rate change, MVP is multiplying the 3Q 2018 claim projection times the reciprocal of this factor.

MVP is also making an adjustment to the claim projection for the impact of membership not representing a full 12-month contract over the experience period. Because deductibles are present in most these products, paid claims are suppressed in the early months of a member's contract and are higher than average in later contract months. Therefore, if the experience period membership is not evenly distributed by contract month, an adjustment to the claim costs should be made to reflect the expected claim costs for a 12-month contract period.

To determine the adjustment factor for the experience period claims cost, MVP used deductible suppression factors which were developed by analyzing commercial claims for members with 12 months of medical and Rx benefit coverage. MVP assumed that allowed claims were uniformly distributed by month and determined the expected paid claim cost for a given month relative to the average paid amount for 12 months. Factors were developed for a number of different deductible levels, and MVP split its experience period membership by these deductible levels to compute the appropriate adjustment factors. This adjustment factor equals 0.998 and can be found in Exhibit 3a. A quantitative derivation of this factor can be found in the file, "Impact of Membership Growth_Dcline on Experience Pd Claims".

To arrive at the data suggested quarterly rate change for 3Q 2018, the normalized net claim projection is compared to the 2Q 2018 manual rate that would be collected for the experience period enrollment to indicate the suggested quarterly manual rate change.

MVP has also developed 4Q 2018 manual rates for this rate filing. Please see Exhibit 3b which is identical to Exhibit 3a except for the fact that one additional quarter of 2019 trend has been applied to the experience period claims. Comparing the 4Q 2018 projected claims to the 3Q 2018 claim projection determines the quarterly manual rate change.

Medical Trend Factors

The development of annual medical paid claim trend factors for 3Q 2018 is illustrated in Exhibit 2a. MVP is reflecting 0.0% medical utilization trends in the current filing, and the assumed unit cost trends reflect known and assumed price increases from MVP's provider network as of the filing date.

As stated previously, MVP has assumed 0.0% for medical utilization trends in the current filing. MVP analyzed its combined MVPHIC and MVPHP Vermont data for 36 months between 2015 and 2017. In performing this analysis, we were concerned with the large impact that membership growth in other blocks of business (MVPHP small group and individual exchange) was having on the total utilization trend for Vermont. Because removing MVPHP data from the calculation would leave a block that was not considered credible, we elected to reflect no utilization trend.

The assumed unit cost trends reflect known and assumed price increases from MVP's provider network. The 2018 unit cost trends for VT hospitals reflect the budgets proposed by each hospital back to the Green Mountain Care Board. Please see Exhibit 2A for the unit cost trends by claim category by year. MVP has assumed that the 2019 annual trend is equal to the 2018 trend, as we lack information on unit cost trends for 2019 at this time.

In addition to the medical cost inflation rate assumed from the historical experience period to the rating period, an adjustment is needed to reflect the impact of cost share leveraging on the carrier's share of the medical cost. Leveraging is a result of the fixed nature of deductibles and copays in health benefit plans. When there are fixed member deductibles and copays, the carrier bears a greater portion of the cost of medical inflation. Therefore, an additional factor adjustment is made to the trend assumption to capture this cost.

The trend applied to the deductible portion of the experience period was derived using the distribution of claims for MVP's VT book of business. Claims below the average deductible amount over the experience period were trended at the applicable allowed trend rate while claims greater than the deductible were held flat.

Also included in this filing is a paid trend development exhibit for 4Q 2018. Please see Exhibit 2e which is identical to Exhibit 2a except there is one more quarter of trend reflected in the calculation.

Rx Trend Factors

Annual Rx trend factors split by generic, brand and specialty drugs are illustrated in Exhibit 2a. These trend factors were supplied by MVP's pharmacy benefit manager (PBM) and reflect their best estimate of expected changes to pharmacy costs and drug utilization, given MVP's data as a starting point. Supporting documentation illustrating how the Rx trends shown on Exhibit 2a were converted to paid trends for 3Q 2018 can be found in Exhibit 2b.

MVP has revised its trend forecasts from the previous version of this filing to reflect changes in the underlying utilization patterns as well as updated unit cost increases provided by MVP's PBM. The PBM has provided trends for 2017, 2018 and 2019. The trend forecast provided by MVP's PBM accounts for drugs coming off patent, changes in average wholesale price, new drugs being released to the market, and price competitiveness amongst generic and brand drug manufacturers. Please see the following table which displays MVP's pharmacy trends in this filing.

Rx Trends Used in 3Q 2018 MVP VT Large Group Filing

	2017 Trend		2018 Trend		2019 Trend	
	Unit Cost	Utilization	Unit Cost	Unit Cost	Unit Cost	Utilization
Generic	-8.3%	0.8%	-0.4%	2.7%	4.6%	3.1%
Brand	9.9%	-4.4%	14.9%	2.5%	12.5%	1.4%
Specialty	10.9%	9.6%	6.9%	7.5%	10.6%	7.4%

Please see the attached file, "Rolling 12 Medical and Rx Data - LG.xlsx" which contains a rolling 12 month summary of total Rx claim costs as well as Rx data broken out by Generic, Brand, and Specialty.

Also included in this filing is a paid trend development exhibit for 4Q 2018. Please see Exhibit 2f which is identical to Exhibit 2b except there is one more quarter of trend reflected in the calculation.

Retention Expenses

Retention expenses are outlined in the attached Addendum. The following table represents MVP's Large Group administrative expenses as filed in the Supplemental Health Care Exhibit over the past four years:

Administrative Expense Summary - Data Taken from Supplemental Health Care Exhibit

	VT Large Group - AR42 & AR44			Admin Expense Ratio
	Member Months	Premium PMPM	Admin PMPM	
2013	118,563	\$363.04	\$39.18	10.8%
2014	97,084	\$404.11	\$38.31	9.5%
2015	68,766	\$432.06	\$34.13	7.9%
2016	37,858	\$450.19	\$36.77	8.2%

Admin PMPM reflects the following lines from Part I of the SHCE: 6.6, 8.3, 10.1, and 10.4

Changes have been made to the following retention items since the 1Q 2017 filing:

- Covered Lives Assessment: The 2018 covered lives assessment has been finalized by New York State. MVP has included the updated amounts in the addendum. This assessment is only applied to subscribers residing in NY which is consistent with the way the fee is charged.

The following taxes/assessments are included in the attached Addendum:

ACA Insurer Tax

Since 2014, carriers have been taxed based on earned premium. After being reinstated for 2018, this tax has been again delayed for the 2019 plan year. The tax is based on MVP's share of 2017 nationwide revenue relative to the total tax liability collected by the Federal Government. Using this information, MVP estimates the tax will be 1.0% of premium for 2018 coverage months and 0.0% for 2019 coverage months.

VT Paid Claim Tax

The State of Vermont charges a 0.999% tax on paid claims.

Comparative Effectiveness Research Fee

This is a prescribed Federal fee equal to \$0.21 PMPM to fund the Federal Research Fund. This fee is unchanged from the previous version of the filing.

VT Vaccine Pilot

This is a Vermont state assessment based on plan premiums which is used to fund immunizations provided by the state. This assessment has been maintained at 0.5% of premium for this filing based on 2017 assessments from the State of Vermont for the Kids Vax program.

Loss Ratio Information

The traditional target loss ratio (claims cost / premium) for the rates proposed in this rate filing is 84.8%. After making adjustments for taxes/assessments and expenses associated with quality improvements, the Federal target loss ratio for the rates proposed in this filing is 86.6%. Please see the following table for more detail:

Target Loss Ratio for LG AR42 in 3Q 2018	
	Large Group AR44
A) Claims Expense	\$403.26
B) Taxes/Assessments	\$4.49
C) Quality Improvement	\$4.61
D) Premium	\$475.51
E) Traditional Loss Ratio = A) / D)	84.8%
F) Federal Loss Ratio = [A) + C) / (D) - B)]	86.6%

For calendar year 2017, the actual loss ratio for this block of business is 95.9%. MVP did not rebate customers for its Large Group AR42 VT block in 2015 or 2016, and does not anticipate having to pay an MLR rebate for the block for the 3 year average of 2015-2017.

Supplemental Exhibits

Also included with this filing is a historical claim and membership summary for the past 36 months grouped into rolling 12 month periods. Incurred claims from November 2014 – October 2017 completed through February 2018 are reflected in the data. Note the data represented in these files excludes the 51-100 eligible subscriber block that previously transitioned into the small group market.

Retired Products

As stated previously, MVP has retired all of the medical base plans and riders that were previously filed on the MVPHP license. They have been replaced by new products representing a subset of the base plans and riders filed on the MVPHIC license. On Exhibits 1 and 4a – 4c of the filing, there are columns shown reflecting the base plan/rider as it was represented in 2017, in the first 2 quarters of 2018 and on the new license, where applicable. There is no difference between the in-network benefits, network or other medical management programs between the two licenses, so MVP has calculated a manual rate increase as if the products were being filed on the same block. We then applied that increase to all of the base plans/riders that were mapped from the MVPHIC license.

The following plans are being retired and not being replaced, effective 7/1/18: VE2-021, VE2-085, VE2-090, VE2-096, VE2-102, VE2-105, VE2-106, VE2-111, VE2-119, VEHD2-06, VEHD2-42, and VEHD2-45. In addition, MVP is no longer offering any products with out-of-network coverage in the base plan (VP2 and VPHD2 plans). The medical riders/versions being retired and not replaced include: V2-308, V2-309L (versions a, b, and h), V2-314, V2-315, V2-361, V2-362, V2-363, VHD2-343, VHD2-344, VHD2-345, VHD702, VHD2-510 (versions c, e, f, ab, and ae), and VPHD2-312 (all versions). The pharmacy riders being retired and not replace include: V2-504, V2-601, V2-602, V2-604, and V2-606.

New/Modified Products

MVP is offering two new products effective 7/1/18: VT3HDH52AXL and VT3HDH53EXLE. MVP utilized its proprietary benefit relativity model to value the benefits associated with the new plans compared to VT3HDH15AXL. The manual rates for these new plans have been calculated as: [Net Required Revenue PMPM of comparison plan] / [benefit relativity of comparison plan] * [benefit relativity of new plan]. In addition, MVP is filing two Safe Harbor riders for these new base plans: RXVT3HDH510L-am and RXVT3HDH510L-an. The value of these benefits was determined consistent with the other versions of RXVT3HDH510, by using MVP's benefit relativity model to value the benefits before and after the rider is applied. The difference between those two benefits is then the value of the rider.

Rider VEHD2-312 was previously filed with different versions that attached to each base medical benefit. These versions had different per-contract prices depending on which plan that they attached to. MVP has removed the versions in the current filing and proposed to fix the value of the benefit at 0.5% of the manual rate charged for the base benefit. The previous version method for this rider was administratively complex and not providing enough value to justify the continuation. The previous versions ranged from approximately 0.3% to 0.7% of the base benefit price, so MVP has chosen 0.5% to represent the value of the rider. Therefore, no quarterly or annual increase is displayed for this rider, and the 1 group (118 members, renews in January 2019) active as of January 2018 that purchases this rider may see quarterly or annual increases slightly higher or lower than what is shown on Exhibits 3a and 3b.

Actuarial Certification

I, Eric Bachner, am an Associate of the Society of Actuaries. I have examined the assumptions and methods used in determining MVP's requested rates. Based on my review and examination, it is my opinion that the proposed premium rates are reasonable in relation to the benefits provided and that they are not excessive, inadequate, nor unfairly discriminatory. This rate filing conforms to the applicable Standards of Practice as promulgated by the Actuarial Standards Board.



Eric Bachner, ASA
Senior Actuarial Analyst
MVP Health Care

03/23/2018

Date

MVP Health Care - Large Group Experience Rating Formula

I. Case Information		Date: <input type="text"/>	
Group Name:	<input type="text"/>	Effective Date:	<input type="text"/>
Group #:	<input type="text"/>		
Marketing Rep:	<input type="text"/>		
Underwriter:	<input type="text"/>		
II. Manual Pure Premium Calculation		Medical w/ Non-Pharmacy Riders	Pharmacy
1 - Manual Pure Premium	Addendum Value		Addendum Value
2 - Industry Factor	Addendum Value		Addendum Value
3 - Demographic Factor	Addendum Value		Addendum Value
4 - Manual Group Risk Assessment	Addendum Value		Addendum Value
5 - HRA/HSA Funding Load Factor	Addendum Value		Addendum Value
6 - Adjusted Manual Pure Premium	$1 \times 2 \times 3 \times 4 \times 5$		$1 \times 2 \times 3 \times 4 \times 5$
			Total PMPM
III. Experience Pure Premium Calculation			
Experience Period Start Date	Input		Input
Experience Period End Date	Input		Input
Paid Through Date	Input		Input
Midpoint of Experience Period	Input		Input
Product Reflected in Experience	Input		Input
Product in the Rate Quote	Input		Input
Member Months	Input		Input
Out-of-Area Subscribers	Input		n/a
Claims Information			
1 - Date of Service Paid Claims	Input		Input
2 - Composite Completion Factor Adjustment	Input		Input
3 - Incurred Claims	1x2		1x2
4 - Other non fee for service medical expenses	Input		n/a
5 - Pooling Level (PL)	Addendum Value		Addendum Value
6 - Actual Large Claims (Excess Over PL)	Input		Input
7 - Pharmacy Rebate Factor	n/a		Addendum Value
8 - Incurred Claims Less Large Claims	3+4-6		$(3 - 6) * 7$
9 - Trend Factor to MP of Projection Period	Addendum Value		Addendum Value
10 - Trended Net Claims	8x9		8x9
11 - Trended pmpm Net Claims	10 / membermonths		10 / membermonths
Experience Adjustments			
12 - Demographic Adjustment (Carrier Replacement Only)	Addendum Value		Addendum Value
13 - Prior Period Adjustment, if applicable	Value from Exhibit B		Value from Exhibit B
14 - Network Adjustment Factor	Addendum Value		n/a
15 - Benefit Adjustment	Addendum Value		Addendum Value
16 - Pooling Charge %	Addendum Value		Addendum Value
17 - Adjusted pmpm Net Claims	$product(11 \text{ thru } 15) \times (1+16)$		$product(11 \text{ thru } 15) \times (1+16)$
18 - Covered Lives Assessment	Addendum Value		n/a
19 - Indigent Care	Addendum Value		n/a
20 - Experience Pure Premium	$17 + 18 + 19$		17
IV. Employer Specific Premium Rates		Total	
Blending the Manual Pure Premium and Experience			
1 - Adjusted Manual Pure Premium	6 From Section II		
2 - Experience Pure Premium	20 From Section III		
3 - Experience Credibility Weight	Addendum Value		
4 - Blended Pure Premium	$2x3 + 1x(100\%-3)$		
5 - Group Risk Assessment Factor	Addendum Value		
6 - New Business Discount	Addendum Value		
7 - Retrospective Financial Underwriting Factor	Addendum Value		
8 - Network Access Fee	Addendum Value		
9 - Retention Charges excluding Premium Tax	Addendum Value		
10 - Premium Taxes	Addendum Value		
11 - Group Required Pure Premium	$4x5x6x7+8+9+10$		
Premium Rate Development			
12 - Employer Specific Loading Factors	<u>Single</u>	<u>EE/SP</u>	<u>EE/Ch(ren)</u>
13 - Final Premium Rates	Based on the Group's specific rate ratios/census		
	11 x 12	11 x 12	11 x 12
			11 x 12
V. Minimum Premium Funding		<u>Single</u>	<u>EE/SP</u>
1 - Final Premium Rates	From Section IV., line 13	<u>EE/Ch(ren)</u>	<u>Family</u>
2 - Retention Rate	From Section IV., lines 9 + 10 x Employer Specific Loading Factors		
3 - Claims Liability Rate	1-2		
4 - Claims Fluctuation Margin	Addendum Value		
5 - Maximum Monthly Premium Liability	3X4		

MVP Health Care - Large Group Experience Rating Formula - Two Periods of Experience calculation

Group Name:	<input type="text" value="Input"/>	Date:	<input type="text" value="Input"/>
Group #:	<input type="text" value="Input"/>	Effective Date:	<input type="text" value="Input"/>
Marketing Rep:	<input type="text" value="Input"/>		
Underwriter:	<input type="text" value="Input"/>		

	Medical Claims		Pharmacy Claims	
	Period 1	Period 2	Period 1	Period 2
Experience Pure Premium Calculation				
Experience Period Start Date	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Experience Period End Date	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Paid Through Date	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Midpoint of Experience Period	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Product Reflected in Experience	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Product in the Rate Quote	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Member Months	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
Claims Information				
1 - Date of Service Paid Claims	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
2 - Composite Completion Factor Adjustment	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
3 - Incurred Claims	<i>1x2</i>	<i>1x2</i>	<i>1x2</i>	<i>1x2</i>
4 - Other non fee for service medical expenses	<i>Input</i>	<i>Input</i>	<i>n/a</i>	<i>n/a</i>
5 - Pooling Level (PL)	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
6 - Actual Large Claims (Excess Over PL)	<i>Input</i>	<i>Input</i>	<i>Input</i>	<i>Input</i>
7 - Pharmacy Rebate Factor	<i>n/a</i>	<i>n/a</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
8 - Incurred Claims Less Large Claims	<i>3+4-6</i>	<i>3+4-6</i>	<i>(3 - 6) * 7</i>	<i>(3 - 6) * 7</i>
9 - Trend Factor to MP of Projection Period	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
10 - Regional Trend Adjustment Factor	<i>Addendum Value</i>	<i>n/a</i>	<i>Addendum Value</i>	<i>n/a</i>
11 - Trended Net Claims	<i>8x9x10</i>	<i>8x9x10</i>	<i>8x9x10</i>	<i>8x9x10</i>
12 - Trended pmpm Net Claims	<i>11 / membermonths</i>	<i>11 / membermonths</i>	<i>11 / membermonths</i>	<i>11 / membermonths</i>
Experience Adjustments				
13 - Demographic Adjustment (Carrier Replacement Only)	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
14 - Network Adjustment Factor	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
15 - Benefit Adjustment	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
16 - Pooling Charge %	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>n/a</i>	<i>n/a</i>
17 - Adjusted pmpm Net Claims	<i>product(12 thru 15) x (1+16)</i>	<i>product(12 thru 15) x (1+16)</i>	<i>product(12 thru 15) x (1+16)</i>	<i>product(12 thru 15) x (1+16)</i>
Period Weight	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>	<i>Addendum Value</i>
Prior Period Adjustment Factor	<i>P1 and P2 Weighted Average line 17 / P1 line 17</i>		<i>P1 and P2 Weighted Average line 17 / P1 line 17</i>	

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
111	Wheat	0.90
112	Rice	0.90
115	Corn	0.90
116	Soybeans	0.90
119	Cash Grains, NEC	0.90
131	Cotton	0.90
132	Tobacco	0.90
133	Sugarcane and Sugar Beets	0.90
134	Irish Potatoes	0.90
139	Field Crops, Except Cash Grains, NEC	0.90
161	Vegetables and Melons	0.90
171	Berry Crops	0.90
172	Grapes	0.90
173	Tree Nuts	0.90
174	Citrus Fruits	0.90
175	Deciduous Tree Fruits	0.90
179	Fruits and Tree Nuts, NEC	0.90
181	Ornamental Floriculture and Nursery Products	0.90
182	Food Crops Grown Under Cover	0.90
191	General Farms, Primarily Crop	0.90
211	Beef Cattle Feedlots	0.95
212	Beef Cattle, Except Feedlots	0.95
213	Hogs	0.95
214	Sheep and Goats	0.95
219	General Livestock, Except Dairy and Poultry	1.00
241	Dairy Farms	1.00
251	Broiler, Fryers, and Roaster Chickens	0.95
252	Chicken Eggs	0.95
253	Turkey and Turkey Eggs	0.95
254	Poultry Hatcheries	0.95
259	Poultry and Eggs, NEC	0.95
271	Fur-Bearing Animals and Rabbits	0.95
272	Horses and Other Equines	0.95
273	Animal Aquaculture	0.95
279	Animal Specialities, NEC	0.95
291	General Farms, Primarily Livestock and Animal Specialties	1.00
711	Soil Preparation Services	0.95
721	Crop Planting, Cultivating, and Protecting	0.95
722	Crop Harvesting, Primarily by Machine	0.95
723	Crop Preparation Services For Market, except Cotton Ginning	0.95
724	Cotton Ginning	0.95
741	Veterinary Services For Livestock	0.95
742	Veterinary Services for Animal Specialties	0.95
751	Livestock Services, Except Veterinary	1.00
752	Animal Specialty Services, Except Veterinary	0.95
761	Farm Labor Contractors and Crew Leaders	0.95
762	Farm Management Services	0.95
781	Landscape Counseling and Planning	0.90
782	Lawn and Garden Services	1.10
783	Ornamental Shrub and Tree Services	1.10
811	Timber Tracts	0.90
831	Forest Nurseries and Gathering of Forest Products	0.90
851	Forestry Services	0.95
912	Finfish	1.05
913	Shellfish	1.05

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
919	Miscellaneous Marine Products	0.95
921	Fish Hatcheries and Preserves	0.95
971	Hunting and Trapping, and Game Propagation	0.95
1011	Iron Ores	1.15
1021	Copper Ores	1.15
1031	Lead and Zinc Ores	1.15
1041	Gold Ores	1.15
1044	Silver Ores	1.15
1061	Ferroalloy Ores, Except Vanadium	1.15
1081	Metal Mining Services	1.05
1094	Uranium-Radium-Vanadium Ores	1.15
1099	Miscellaneous Metal Ores, NEC	1.15
1221	Bituminous Coal and Lignite Surface Mining	1.15
1222	Bituminous Coal Underground Mining	1.15
1231	Anthracite Mining	1.15
1241	Coal Mining Services	1.15
1311	Crude Petroleum and Natural Gas	1.05
1321	Natural Gas Liquids	1.05
1381	Drilling Oil and Gas Wells	1.05
1382	Oil and Gas Field Exploration Services	0.95
1389	Oil and Gas Field Services, NEC	1.05
1411	Dimension Stone	1.15
1422	Crushed and Broken Limestone	1.15
1423	Crushed and Broken Granite	1.15
1429	Crushed and Broken Stone, NEC	1.15
1442	Construction Sand and Gravel	1.15
1446	Industrial Sand	1.15
1455	Kaolin and Ball Clay	1.15
1459	Clay, Ceramic, and Refractory Minerals, NEC	1.15
1474	Potash, Soda, and Borate Minerals	1.15
1475	Phosphate Rock	1.15
1479	Chemical and Fertilizer Mineral Mining, NEC	1.15
1481	Nonmetallic Minerals Services Except Fuels	1.05
1499	Miscellaneous Nonmetallic Minerals, Except Fuels	1.15
1521	General Contractors-Single-Family Houses	0.95
1522	General Contractors-Residential Buildings, Other Than Single-Family	1.00
1531	Operative Builders	1.00
1541	General Contractors-Industrial Buildings and Warehouses	1.00
1542	General Contractors-Nonresidential Buildings, Other than Industrial Buildings and Warehouses	1.00
1611	Highway and Street Construction, Except Elevated Highways	1.00
1622	Bridge, Tunnel, and Elevated Highway Construction	1.00
1623	Water, Sewer, Pipeline, and Communications and Power Line Construction	1.00
1629	Heavy Construction, NEC	1.00
1711	Plumbing, Heating, and Air-Conditioning	1.00
1721	Painting and Paper Hanging	1.00
1731	Electrical Work	1.00
1741	Masonry, Stone Setting, and Other Stone Work	1.00
1742	Plastering, Drywall, Acoustical, and Insulation Work	1.00
1743	Terrazzo, Tile, Marble, and Mosaic Work	1.00
1751	Carpentry Work	1.00
1752	Floor Laying and Other Floor Work, NEC	1.00
1761	Roofing, Siding, and Sheet Metal Work	1.00
1771	Concrete Work	1.00
1781	Water Well Drilling	1.00
1791	Structural Steel Erection	1.00

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
1793	Glass and Glazing Work	1.00
1794	Excavation Work	1.00
1795	Wrecking and Demolition Work	1.00
1796	Installation or Erection of Building Equipment, NEC	1.00
1799	Special Trade Contractors, NEC	1.00
2011	Meat Packing Plants	1.05
2013	Sausages and Other Prepared Meats	1.05
2015	Poultry Slaughtering and Processing	1.00
2021	Creamery Butter	0.95
2022	Natural, Processed, and Imitation Cheese	0.95
2023	Dry, Condensed, and Evaporated Dairy Products	0.95
2024	Ice Cream and Frozen Desserts	0.95
2026	Fluid Milk	0.95
2032	Canned Specialties	0.95
2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies	0.95
2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes	0.95
2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings	0.95
2037	Frozen Fruits, Fruit Juices, and Vegetables	0.95
2038	Frozen Specialties, NEC	0.95
2041	Flour and Other Grain Mill Products	0.95
2043	Cereal Breakfast Foods	0.95
2044	Rice Milling	0.95
2045	Prepared Flour Mixes and Doughs	0.95
2046	Wet Corn Milling	0.95
2047	Dog and Cat Food	0.95
2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats	0.95
2051	Bread and Other Bakery Products, Except Cookies and Crackers	0.95
2052	Cookies and Crackers	0.95
2053	Frozen Bakery Products, Except Bread	0.95
2061	Cane Sugar, Except Refining	0.95
2062	Cane Sugar Refining	0.95
2063	Beet Sugar	0.95
2064	Candy and Other Confectionery Products	0.95
2066	Chocolate and Cocoa Products	0.95
2067	Chewing Gum	0.95
2068	Salted and Roasted Nuts and Seeds	0.95
2074	Cottonseed Oil Mills	0.95
2075	Soybean Oil Mills	0.95
2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybeans	0.95
2077	Animal and Marine Fats and Oils	1.00
2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, NEC	0.95
2082	Malt Beverages	0.95
2083	Malt	0.95
2084	Wines, Brandy, and Brandy Spirits	0.95
2085	Distilled and Blended Liquors	0.95
2086	Bottled and Canned Soft Drinks and Carbonated Waters	0.95
2087	Flavoring Extracts and Flavoring Syrups NEC	0.95
2091	Canned and Cured Fish and Seafood	0.95
2092	Prepared Fresh or Frozen Fish and Seafoods	0.95
2095	Roasted Coffee	0.95
2096	Potato Chips, Corn Chips, and Similar Snacks	0.95
2097	Manufactured Ice	0.95
2098	Macaroni, Spaghetti, Vermicelli, and Noodles	0.95
2099	Food Preparations, NEC	0.95
2111	Cigarettes	1.05

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
2121	Cigars	1.05
2131	Chewing and Smoking Tobacco and Snuff	1.05
2141	Tobacco Stemming and Redrying	1.05
2211	Broadwoven Fabric Mills, Cotton	0.95
2221	Broadwoven Fabric Mills, Manmade Fiber and Silk	0.95
2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)	0.95
2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk, and Manmade Fiber	0.95
2251	Women's Full-Length and Knee-Length Hosiery, Except Socks	1.00
2252	Hosiery, NEC	1.00
2253	Knit Outerwear Mills	1.00
2254	Knit Underwear and Nightwear Mills	1.00
2257	Weft Knit Fabric Mills	0.95
2258	Lace and Warp Knit Fabric Mills	0.95
2259	Knitting Mills, NEC	0.95
2261	Finishers of Broadwoven Fabrics of Cotton	0.95
2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk	0.95
2269	Finishers of Textiles, NEC	0.95
2273	Carpets and Rugs	0.95
2281	Yarn Spinning Mills	0.95
2282	Yarn Texturizing, Throwing, Twisting, and Winding Mills	0.95
2284	Thread Mills	0.95
2295	Coated Fabrics, Not Rubberized	0.95
2296	Tire Cord and Fabrics	0.95
2297	Nonwoven Fabrics	0.95
2298	Cordage and Twine	0.95
2299	Textile Goods, NEC	0.95
2311	Men's and Boys' Suits, Coats, and Overcoats	1.00
2321	Men's and Boys' Shirts, Except Work Shirts	1.00
2322	Men's and Boys' Underwear and Nightwear	1.00
2323	Men's and Boys' Neckwear	1.00
2325	Men's and Boys' Trousers and Slacks	1.00
2326	Men's and Boys' Work Clothing	1.00
2329	Men's and Boys' Clothing, NEC	1.00
2331	Women's, Misses', and Juniors' Blouses and Shirts	1.00
2335	Women's, Misses', and Juniors' Dresses	1.00
2337	Women's, Misses' and Juniors' Suits, Skirts, and Coats	1.00
2339	Women's, Misses', and Juniors' Outerwear, NEC	1.00
2341	Women's, Misses', Children's, and Infants' Underwear and Nightwear	1.00
2342	Brassieres, Girdles, and Allied Garments	1.00
2353	Hats, Caps, and Millinery	1.00
2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts	1.00
2369	Girls', Children's, and Infants' Outerwear, NEC	1.00
2371	Fur Goods	1.00
2381	Dress and Work Gloves, Except Knit and All-Leather	1.00
2384	Robes and Dressing Gowns	1.00
2385	Waterproof Outerwear	1.00
2386	Leather and Sheep-Lined Clothing	1.00
2387	Apparel Belts	1.00
2389	Apparel and Accessories, NEC	1.00
2391	Curtains and Draperies	1.00
2392	Housefurnishings, Except Curtains and Draperies	0.95
2393	Textile Bags	0.95
2394	Canvas and Related Products	0.95
2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade	1.00
2396	Automotive Trimmings, Apparel Findings, and Related Products	0.95

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
2397	Schiffli Machine Embroideries	0.95
2399	Fabricated Textile Products, NEC	1.00
2411	Logging	1.15
2421	Sawmills and Planing Mills, General	1.15
2426	Hardwood Dimension and Flooring Mills	1.15
2429	Special Product Sawmills, NEC	1.15
2431	Millwork	1.10
2434	Wood Kitchen Cabinets	0.95
2435	Hardwood Veneer and Plywood	1.00
2436	Softwood Veneer and Plywood	1.00
2439	Structural Wood Members, NEC	1.00
2441	Nailed and Lock Corner Wood Boxes and Shook	1.00
2448	Wood Pallets and Skids	1.00
2449	Wood Containers, NEC	1.00
2451	Mobile Homes	1.00
2452	Prefabricated Wood Buildings and Components	1.00
2491	Wood Preserving	1.00
2493	Reconstituted Wood Products	1.00
2499	Wood Products, NEC	1.00
2511	Wood Household Furniture, Except Upholstered	0.95
2512	Wood Household Furniture, Upholstered	0.95
2514	Metal Household Furniture	0.95
2515	Mattresses, Foundations, and Convertible Beds	0.95
2517	Wood Television, Radio, Phonograph and Sewing Machine Cabinets	0.95
2519	Household Furniture, NEC	0.95
2521	Wood Office Furniture	0.95
2522	Office Furniture, Except Wood	0.95
2531	Public Building and Related Furniture	0.95
2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers	0.95
2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood	0.95
2591	Drapery Hardware and Window Blinds and Shades	0.95
2599	Furniture and Fixtures, NEC	0.95
2611	Pulp Mills	0.95
2621	Paper Mills	0.95
2631	Paperboard Mills	0.95
2652	Setup Paperboard Boxes	0.95
2653	Corrugated and Solid Fiber Boxes	0.95
2655	Fiber Cans, Tubes, Drums, and Similar Products	0.95
2656	Sanitary Food Containers, Except Folding	0.95
2657	Folding Paperboard Boxes, Including Sanitary	0.95
2671	Packaging Paper and Plastics Film, Coated and Laminated	0.95
2672	Coated and Laminated Paper, NEC	0.95
2673	Plastics, Foil, and Coated Paper Bags	0.95
2674	Uncoated Paper and Multiwall Bags	0.95
2675	Die-Cut Paper and Paperboard and Cardboard	0.95
2676	Sanitary Paper Products	0.95
2677	Envelopes	0.95
2678	Stationery, Tablets, and Related Products	0.95
2679	Converted Paper and Paperboard Products, NEC	0.95
2711	Newspapers: Publishing, or Publishing and Printing	0.90
2721	Periodicals: Publishing, or Publishing and Printing	0.90
2731	Books: Publishing, or Publishing and Printing	0.95
2732	Book Printing	0.90
2741	Miscellaneous Publishing	0.90
2752	Commercial Printing, Lithographic	0.90

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
2754	Commercial Printing, Gravure	0.90
2759	Commercial Printing, NEC	0.90
2761	Manifold Business Forms	0.90
2771	Greeting Cards	0.90
2782	Blankbooks, Loose-leaf Binders and Devices	0.90
2789	Bookbinding and Related Work	0.90
2791	Typesetting	0.90
2796	Platemaking and Related Services	0.90
2812	Alkalies and Chlorine	1.00
2813	Industrial Gases	1.00
2816	Inorganic Pigments	1.00
2819	Industrial Inorganic Chemicals, NEC	1.00
2821	Plastics Material and Synthetic Resins, and Nonvulcanizable Elastomers	1.00
2822	Synthetic Rubber	1.00
2823	Cellulosic Manmade Fibers	1.00
2824	Manmade Organic Fibers, Except Cellulosic	1.00
2833	Medicinal Chemicals and Botanical Products	0.90
2834	Pharmaceutical Preparations	0.90
2835	In Vitro and In Vivo Diagnostic Substances	0.90
2836	Biological Products, Except Diagnostic Substances	0.90
2841	Soaps and Other Detergents, Except Speciality Cleaners	0.90
2842	Speciality Cleaning, Polishing, and Sanitary Preparations	0.90
2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants	0.90
2844	Perfumes, Cosmetics, and Other Toilet Preparations	0.90
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products	0.95
2861	Gum and Wood Chemicals	1.00
2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments	1.00
2869	Industrial Organic Chemicals, NEC	1.00
2873	Nitrogenous Fertilizers	1.00
2874	Phosphatic Fertilizers	1.00
2875	Fertilizers, Mixing Only	1.00
2879	Pesticides and Agricultural Chemicals, NEC	1.00
2891	Adhesives and Sealants	0.95
2892	Explosives	1.15
2893	Printing Ink	0.95
2895	Carbon Black	1.00
2899	Chemicals and Chemical Preparations, NEC	0.95
2911	Petroleum Refining	1.05
2951	Asphalt Paving Mixtures and Blocks	1.05
2952	Asphalt Felts and Coatings	1.05
2992	Lubricating Oils and Greases	1.05
2999	Products of Petroleum and Coal, NEC	1.05
3011	Tires and Inner Tubes	0.95
3021	Rubber and Plastics Footwear	0.95
3052	Rubber and Plastics Hose and Belting	0.95
3053	Gaskets, Packing, and Sealing Devices	0.90
3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods	0.95
3069	Fabricated Rubber Products, NEC	0.95
3081	Unsupported Plastics Film and Sheet	0.95
3082	Unsupported Plastics Profile Shapes	0.95
3083	Laminated Plastics Plate, Sheet, and Profile Shapes	0.95
3084	Plastics Pipe	0.95
3085	Plastics Bottles	0.95
3086	Plastics Foam Products	0.95
3087	Custom Compounding of Purchased Plastics Resins	0.95

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
3088	Plastics Plumbing Fixtures	0.95
3089	Plastics Products, NEC	0.95
3111	Leather Tanning and Finishing	1.15
3131	Boot and Shoe Cut Stock and Findings	1.00
3142	House Slippers	0.95
3143	Men's Footwear, Except Athletic	0.95
3144	Women's Footwear, Except Athletic	0.95
3149	Footwear, Except Rubber, NEC	0.95
3151	Leather Gloves and Mittens	1.00
3161	Luggage	0.95
3171	Women's Handbags and Purses	0.95
3172	Personal Leather Goods, Except Women's Handbags and Purses	0.95
3199	Leather Goods, NEC	0.95
3211	Flat Glass	0.95
3221	Glass Containers	0.95
3229	Pressed and Blown Glass and Glassware, NEC	0.95
3231	Glass Products, Made of Purchased Glass	0.95
3241	Cement, Hydraulic	0.95
3251	Brick and Structural Clay Tile	0.95
3253	Ceramic Wall and Floor Tile	0.95
3255	Clay Refractories	0.95
3259	Structural Clay Products, NEC	0.95
3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories	0.95
3262	Vitreous China Table and Kitchen Articles	0.95
3263	Fine Earthenware (Whiteware) Table and Kitchen Articles	0.95
3264	Porcelain Electrical Supplies	0.95
3269	Pottery Products, NEC	0.95
3271	Concrete Block and Brick	0.95
3272	Concrete Products, Except Block and Brick	1.05
3273	Ready-Mixed Concrete	0.95
3274	Lime	0.95
3275	Gypsum Products	0.95
3281	Cut Stone and Stone Products	0.95
3291	Abrasive Products	1.05
3292	Asbestos Products	1.05
3295	Minerals and Earths, Ground or Otherwise Treated	1.10
3296	Mineral Wool	0.95
3297	Nonclay Refractories	0.95
3299	Nonmetallic Mineral Products, NEC	1.05
3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills	1.10
3313	Electrometallurgical Products, Except Steel	1.10
3315	Steel Wiredrawing and Steel Nails and Spikes	1.05
3316	Cold-Rolled Steel Sheet, Strip, and Bars	1.10
3317	Steel Pipe and Tubes	1.10
3321	Gray and Ductile Iron Foundries	1.10
3322	Malleable Iron Foundries	1.10
3324	Steel Investment Foundries	1.10
3325	Steel Foundries, NEC	1.10
3331	Primary Smelting and Refining of Copper	1.10
3334	Primary Production of Aluminum	1.10
3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum	1.10
3341	Secondary Smelting and Refining of Nonferrous Metals	1.10
3351	Rolling, Drawing, and Extruding of Copper	1.10
3353	Aluminum Sheet, Plate, and Foil	1.10
3354	Aluminum Extruded Products	1.10

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
3355	Aluminum Rolling and Drawing, NEC	1.10
3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum	1.10
3357	Drawing and Insulating of Nonferrous Wire	1.00
3363	Aluminum Die-Castings	1.10
3364	Nonferrous Die-Castings, Except Aluminum	1.10
3365	Aluminum Foundries	1.10
3366	Copper Foundries	1.10
3369	Nonferrous Foundries, Except Aluminum and Copper	1.10
3398	Metal Heat Treating	0.95
3399	Primary Metal Products, NEC	1.05
3411	Metal Cans	0.95
3412	Metal Shipping Barrels, Drums, Kegs, and Pails	0.95
3421	Cutlery	0.95
3423	Hand and Edge Tools, Except Machine Tools and Handsaws	0.95
3425	Saw Blades and Handsaws	0.95
3429	Hardware, NEC	0.95
3431	Enameled Iron and Metal Sanitary Ware	0.95
3432	Plumbing Fixture Fittings and Trim	0.95
3433	Heating Equipment, Except Electric and Warm Air Furnaces	0.95
3441	Fabricated Structural Metal	0.95
3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing	0.95
3443	Fabricated Plate Work (Boiler Shops)	0.95
3444	Sheet Metal Work	0.95
3446	Architectural and Ornamental Metal Work	0.95
3448	Prefabricated Metal Buildings and Components	0.95
3449	Miscellaneous Structural Metal Work	0.95
3451	Screw Machine Products	0.95
3452	Bolts, Nuts, Screws, Rivets, and Washers	0.95
3462	Iron and Steel Forgings	0.95
3463	Nonferrous Forgings	0.95
3465	Automotive Stamping	0.95
3466	Crowns and Closures	0.95
3469	Metal Stamping, NEC	0.95
3471	Electroplating, Plating, Polishing, Anodizing, and Coloring	0.95
3479	Coating, Engraving, and Allied Services, NEC	0.90
3482	Small Arms Ammunition	0.95
3483	Ammunition, Except for Small Arms	0.95
3484	Small Arms	0.95
3489	Ordnance and Accessories, NEC	0.95
3491	Industrial Valves	0.95
3492	Fluid Power Valves and Hose Fittings	0.95
3493	Steel Springs, Except Wire	0.95
3494	Valves and Pipe Fittings, NEC	0.95
3495	Wire Springs	0.95
3496	Miscellaneous Fabricated Wire Products	0.95
3497	Metal Foil and Leaf	0.95
3498	Fabricated Pipe and Pipe Fittings	0.95
3499	Fabricated Metal Products, NEC	0.95
3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units	0.95
3519	Internal Combustion Engines, NEC	0.95
3523	Farm Machinery and Equipment	0.95
3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment	0.95
3531	Construction Machinery and Equipment	0.95
3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment	0.95
3533	Oil and Gas Field Machinery and Equipment	0.95

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
3534	Elevators and Moving Stairways	0.95
3535	Conveyors and Conveying Equipment	0.95
3536	Overhead Traveling Cranes, Hoists, and Monorail Systems	0.95
3537	Industrial Trucks, Tractors, Trailers, and Stackers	0.95
3541	Machine Tools, Metal Cutting Type	0.95
3542	Machine Tools, Metal Forming Type	0.95
3543	Industrial Patterns	0.95
3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds	0.95
3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices	0.95
3546	Power-Driven Handtools	0.95
3547	Rolling Mill Machinery and Equipment	0.95
3548	Electric and Gas Welding and Soldering Equipment	0.95
3549	Metalworking Machinery, NEC	0.95
3552	Textile Machinery	0.95
3553	Woodworking Machinery	0.95
3554	Paper Industries Machinery	0.95
3555	Printing Trades Machinery and Equipment	0.95
3556	Food Products Machinery	0.95
3559	Special Industry Machinery, NEC	0.95
3561	Pumps and Pumping Equipment	0.95
3562	Ball and Roller Bearings	0.95
3563	Air and Gas Compressors	0.95
3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment	0.95
3565	Packaging Machinery	0.95
3566	Speed Changers, Industrial High-Speed Drives, and Gears	0.95
3567	Industrial Process Furnaces and Ovens	0.95
3568	Mechanical Power Transmission Equipment, NEC	0.95
3569	General Industrial Machinery and Equipment, NEC	0.95
3571	Electronic Computers	0.90
3572	Computer Storage Devices	0.90
3575	Computer Terminals	0.90
3577	Computer Peripheral Equipment, NEC	0.90
3578	Calculating and Accounting Machines, Except Electronic Computers	0.95
3579	Office Machines, NEC	0.90
3581	Automatic Vending Machines	0.95
3582	Commercial Laundry, Drycleaning, and Pressing Machines	0.95
3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment	0.95
3586	Measuring and Dispensing Pumps	0.95
3589	Service Industry Machinery, NEC	0.95
3592	Carburetors, Pistons, Piston Rings, and Valves	0.95
3593	Fluid Power Cylinders and Actuators	0.95
3594	Fluid Power Pumps and Motors	0.95
3596	Scales and Balances, Except Laboratory	0.95
3599	Industrial and Commercial Machinery and Equipment, NEC	0.95
3612	Power, Distribution, and Specialty Transformers	0.90
3613	Switchgear and Switchboard Apparatus	0.90
3621	Motors and Generators	0.90
3624	Carbon and Graphite Products	0.90
3625	Relays and Industrial Controls	0.90
3629	Electrical Industrial Apparatus, NEC	0.90
3631	Household Cooking Equipment	0.90
3632	Household Refrigerators and Home and Farm Freezers	0.90
3633	Household Laundry Equipment	0.90
3634	Electric Housewares and Fans	0.90
3635	Household Vacuum Cleaners	0.90

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
3639	Household Appliances, NEC	0.90
3641	Electric Lamp Bulbs and Tubes	0.90
3643	Current-Carrying Wiring Devices	0.90
3644	Noncurrent-Carrying Wiring Devices	0.95
3645	Residential Electric Lighting Fixtures	0.90
3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures	0.90
3647	Vehicular Lighting Equipment	0.95
3648	Lighting Equipment, NEC	0.90
3651	Household Audio and Video Equipment	0.90
3652	Phonograph Records and Prerecorded Audio Tapes and Disks	0.95
3661	Telephone and Telegraph Apparatus	0.90
3663	Radio and Television Broadcasting and Communications Equipment	0.90
3669	Communications Equipment, NEC	0.90
3671	Electron Tubes	0.90
3672	Printed Circuit Boards	0.90
3674	Semiconductors and Related Devices	0.90
3675	Electronic Capacitors	0.90
3676	Electronic Resistors	0.90
3677	Electronic Coils, Transformers, and Other Inductors	0.90
3678	Electronic Connectors	0.90
3679	Electronic Components, NEC	0.90
3691	Storage Batteries	0.90
3692	Primary Batteries, Dry and Wet	0.90
3694	Electrical Equipment for Internal Combustion Engines	0.95
3695	Magnetic and Optical Recording Media	0.90
3699	Electrical Machinery, Equipment, and Supplies, NEC	0.95
3711	Motor Vehicles and Passenger Car Bodies	0.95
3713	Truck and Bus Bodies	0.95
3714	Motor Vehicle Parts and Accessories	0.95
3715	Truck Trailers	0.95
3716	Motor Homes	0.95
3721	Aircraft	0.95
3724	Aircraft Engines and Engine Parts	0.95
3728	Aircraft Parts and Auxiliary Equipment, NEC	0.95
3731	Ship Building and Repairing	1.00
3732	Boat Building and Repairing	1.00
3743	Railroad Equipment	0.95
3751	Motorcycles, Bicycles, and Parts	0.95
3761	Guided Missiles and Space Vehicles	0.95
3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts	0.95
3769	Guided Missile Space Vehicle Parts and Auxiliary Equipment, NEC	0.95
3792	Travel Trailers and Campers	0.95
3795	Tanks and Tank Components	0.95
3799	Transportation Equipment, NEC	0.95
3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments	0.90
3821	Laboratory Apparatus and Furniture	0.90
3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances	0.90
3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products	0.90
3824	Totalizing Fluid Meters and Counting Devices	0.90
3825	Instruments for Measuring and Testing of Electricity and Electrical Signals	0.90
3826	Laboratory Analytical Instruments	0.90
3827	Optical Instruments and Lenses	0.95
3829	Measuring and Controlling Devices, NEC	0.90
3841	Surgical and Medical Instruments and Apparatus	0.90
3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies	0.90

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
3843	Dental Equipment and Supplies	0.90
3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus	0.90
3845	Electromedical and Electrotherapeutic Apparatus	0.90
3851	Ophthalmic Goods	0.90
3861	Photographic Equipment and Supplies	0.95
3873	Watches, Clocks, Clockwork Operated Devices and Parts	0.90
3911	Jewelry, Precious Metal	0.90
3914	Silverware, Plated Ware, and Stainless Steel Ware	0.95
3915	Jewelers' Findings and Materials, and Lapidary Work	0.90
3931	Musical Instruments	0.90
3942	Dolls and Stuffed Toys	0.90
3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles	0.95
3949	Sporting and Athletic Goods, NEC	0.90
3951	Pens, Mechanical Pencils, and Parts	0.90
3952	Lead Pencils, Crayons, and Artist's Materials	0.95
3953	Marking Devices	0.90
3955	Carbon Paper and Inked Ribbons	0.90
3961	Costume Jewelry and Costume Novelties, Except Precious Metals	0.90
3965	Fasteners, Buttons, Needles, and Pins	0.90
3991	Brooms and Brushes	0.90
3993	Signs and Advertising Specialties	0.90
3995	Burial Caskets	0.90
3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, NEC	0.95
3999	Manufacturing Industries, NEC	0.95
4011	Railroads, Line-haul Operating	1.05
4013	Railroad Switching and Terminal Establishments	1.05
4111	Local and Suburban Transit	1.10
4119	Local Passenger Transportation, NEC	1.10
4121	Taxicabs	1.15
4131	Intercity and Rural Bus Transportation	1.10
4141	Local Bus Charter Service	1.10
4142	Bus Charter Service, Except Local	1.10
4151	School Buses	1.10
4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation	1.05
4212	Local Trucking Without Storage	1.00
4213	Trucking, Except Local	1.05
4214	Local Trucking with Storage	1.05
4215	Courier Services Except by Air	1.05
4221	Farm Product Warehousing and Storage	1.05
4222	Refrigerated Warehousing and Storage	1.05
4225	General Warehousing and Storage	1.10
4226	Special Warehousing and Storage, NEC	1.05
4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation	1.05
4311	United States Postal Service	0.95
4412	Deep Sea Foreign Transportation of Freight	0.95
4424	Deep Sea Domestic Transportation of Freight	0.95
4432	Freight Transportation on the Great Lakes - St. Lawrence Seaway	0.95
4449	Water Transportation of Freight, NEC	0.95
4481	Deep Sea Transportation of Passengers, Except by Ferry	0.95
4482	Ferries	0.95
4489	Water Transportation of Passengers, NEC	1.00
4491	Marine Cargo Handling	1.05
4492	Towing and Tugboat Services	1.05
4493	Marinas	1.15
4499	Water Transportation Services, NEC	1.05

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
4512	Air Transportation, Scheduled	0.95
4513	Air Courier Services	1.05
4522	Air Transportation, Nonscheduled	1.00
4581	Airports, Flying Fields, and Airport Terminal Services	1.05
4612	Crude Petroleum Pipelines	0.95
4613	Refined Petroleum Pipelines	0.95
4619	Pipelines, NEC	0.95
4724	Travel Agencies	0.95
4725	Tour Operators	0.95
4729	Arrangement of Passenger Transportation, NEC	1.00
4731	Arrangement of Transportation of Freight and Cargo	1.00
4741	Rental of Railroad Cars	1.00
4783	Packing and Crating	1.05
4785	Fixed Facilities and Inspection and Weighing Services for Motor Vehicle Transportation	1.05
4789	Transportation Services, NEC	1.10
4812	Radiotelephone Communications	0.90
4813	Telephone Communications, Except Radiotelephone	0.90
4822	Telegraph and Other Message Communications	0.90
4832	Radio Broadcasting Stations	0.90
4833	Television Broadcasting Stations	0.90
4841	Cable and Other Pay Television Services	0.90
4899	Communications Services, NEC	1.00
4911	Electric Services	0.95
4922	Natural Gas Transmission	0.95
4923	Natural Gas Transmission and Distribution	0.95
4924	Natural Gas Distribution	0.95
4925	Mixed, Manufactured, or Liquefied Petroleum Gas Production and/or Distribution	0.95
4931	Electric and Other Services Combined	0.95
4932	Gas and Other Services Combined	0.95
4939	Combination Utilities, NEC	0.95
4941	Water Supply	0.95
4952	Sewerage Systems	0.95
4953	Refuse Systems	1.05
4959	Sanitary Services, NEC	1.10
4961	Steam and Air-Conditioning Supply	0.95
4971	Irrigation Systems	0.95
5012	Automobiles and Other Motor Vehicles	0.95
5013	Motor Vehicle Supplies and New Parts	1.05
5014	Tires and Tubes	1.05
5015	Motor Vehicle Parts, Used	1.05
5021	Furniture	0.95
5023	Home Furnishings	0.95
5031	Lumber, Plywood, Millwork, and Wood Panels	0.95
5032	Brick, Stone and Related Construction Materials	0.95
5033	Roofing, Siding, and Insulation Materials	0.95
5039	Construction Materials, NEC	0.95
5043	Photographic Equipment and Supplies	0.95
5044	Office Equipment	0.95
5045	Computers and Computer Peripheral Equipment and Software	0.95
5046	Commercial Equipment, NEC	0.95
5047	Medical, Dental, and Hospital Equipment and Supplies	0.95
5048	Ophthalmic Goods	0.95
5049	Professional Equipment and Supplies, NEC	0.95
5051	Metals Service Centers and Offices	0.95
5052	Coal and Other Minerals and Ores	0.95

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
5063	Electrical Apparatus and Equipment Wiring Supplies, and Construction Materials	0.95
5064	Electrical Appliances, Television and Radio Sets	0.95
5065	Electronic Parts and Equipment, NEC	0.95
5072	Hardware	0.95
5074	Plumbing and Heating Equipment and Supplies (Hydronics)	0.95
5075	Warm Air Heating and Air-Conditioning Equipment and Supplies	0.95
5078	Refrigeration Equipment and Supplies	0.95
5082	Construction and Mining (Except Petroleum) Machinery and Equipment	0.95
5083	Farm and Garden Machinery and Equipment	0.95
5084	Industrial Machinery and Equipment	0.95
5085	Industrial Supplies	0.95
5087	Service Establishment Equipment and Supplies	0.95
5088	Transportation Equipment and Supplies, Except Motor Vehicles	0.95
5091	Sporting and Recreational Goods and Supplies	0.95
5092	Toys and Hobby Goods and Supplies	0.95
5093	Scrap and Waste Materials	1.10
5094	Jewelry, Watches, Precious Stones, and Precious Metals	0.95
5099	Durable Goods, NEC	0.95
5111	Printing and Writing Paper	0.95
5112	Stationery and Office Supplies	0.95
5113	Industrial and Personal Service Paper	0.95
5122	Drugs, Drug Proprietaries, and Druggists' Sundries	0.95
5131	Piece Goods, Notions, and Other Dry Goods	0.95
5136	Men's and Boys' Clothing and Furnishings	0.95
5137	Women's, Children's, and Infants' Clothing and Accessories	0.95
5139	Footwear	0.95
5141	Groceries, General Line	0.95
5142	Packaged Frozen Foods	0.95
5143	Dairy Products, Except Dried or Canned	0.95
5144	Poultry and Poultry Products	0.95
5145	Confectionery	0.95
5146	Fish and Seafoods	0.95
5147	Meats and Meat Products	1.00
5148	Fresh Fruits and Vegetables	0.95
5149	Groceries and Related Products, NEC	0.95
5153	Grain and Field Beans	0.95
5154	Livestock	0.95
5159	Farm-Product Raw Materials, NEC	0.95
5162	Plastics Materials and Basic Forms and Shapes	0.95
5169	Chemicals and Allied Products, NEC	0.95
5171	Petroleum Bulk Stations and Terminals	1.00
5172	Petroleum and Petroleum Products Wholesalers, Except Bulk Stations and Terminals	0.95
5181	Beer and Ale	1.05
5182	Wine and Distilled Alcoholic Beverages	1.05
5191	Farm Supplies	0.95
5192	Books, Periodicals, and Newspapers	0.95
5193	Flowers, Nursery Stock, and Florists' Supplies	0.95
5194	Tobacco and Tobacco Products	0.95
5198	Paint, Varnishes, and Supplies	0.95
5199	Nondurable Goods, NEC	1.00
5211	Lumber and Other Building Materials Dealers	0.95
5231	Paint, Glass, and Wallpaper Stores	0.95
5251	Hardware Stores	0.95
5261	Retail Nurseries, Lawn and Garden Supply Stores	0.95
5271	Mobile Home Dealers	1.10

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
5311	Department Stores	0.90
5331	Variety Stores	0.90
5399	Miscellaneous General Merchandise Stores	0.90
5411	Grocery Stores	1.00
5421	Meat and Fish (Seafood) Markets, Including Freezer Provisioners	0.95
5431	Fruit and Vegetable Markets	0.95
5441	Candy, Nut, and Confectionery Stores	0.95
5451	Dairy Products Stores	0.95
5461	Retail Bakeries	1.05
5499	Miscellaneous Food Stores	0.95
5511	Motor Vehicle Dealers (New and Used)	1.10
5521	Motor Vehicle Dealers (Used Only)	1.10
5531	Auto and Home Supply Stores	1.05
5541	Gasoline Service Stations	1.10
5551	Boat Dealers	1.10
5561	Recreational Vehicle Dealers	1.10
5571	Motorcycle Dealers	1.10
5599	Automotive Dealers, NEC	1.10
5611	Men's and Boys' Clothing and Accessory Stores	0.95
5621	Women's Clothing Stores	0.95
5632	Women's Accessory and Specialty Stores	0.95
5641	Children's and Infants' Wear Stores	0.95
5651	Family Clothing Stores	0.95
5661	Shoe Stores	0.95
5699	Miscellaneous Apparel and Accessory Stores	0.95
5712	Furniture Stores	0.95
5713	Floor Covering Stores	0.95
5714	Drapery, Curtain, and Upholstery Stores	0.95
5719	Miscellaneous Homefurnishings Stores	0.95
5722	Household Appliance Stores	0.95
5731	Radio, Television, and Consumer Electronics Stores	1.05
5734	Computer and Computer Software Stores	0.95
5735	Record and Prerecorded Tape Stores	0.95
5736	Musical Instrument Stores	0.95
5812	Eating and Drinking Places	1.15
5813	Drinking Places (Alcoholic Beverages)	1.15
5912	Drug Stores and Proprietary Stores	0.95
5921	Liquor Stores	1.15
5932	Used Merchandise Stores	0.90
5941	Sporting Goods Stores and Bicycle Shops	0.95
5942	Book Stores	0.95
5943	Stationery Stores	0.95
5944	Jewelry Stores	0.95
5945	Hobby, Toy, and Game Shops	0.95
5946	Camera and Photographic Supply Stores	0.95
5947	Gift, Novelty, and Souvenir Shops	0.95
5948	Luggage and Leather Goods Stores	0.95
5949	Sewing, Needlework, and Piece Goods Stores	0.95
5961	Catalog and Mail-Order Houses	0.95
5962	Automatic Merchandising Machine Operator	0.95
5963	Direct Selling Establishments	1.05
5983	Fuel Oil Dealers	1.05
5984	Liquefied Petroleum Gas (Bottled Gas) Dealers	1.05
5989	Fuel Dealers, NEC	1.05
5992	Florists	0.95

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
5993	Tobacco Stores and Stands	0.95
5994	News Dealers and Newsstands	0.95
5995	Optical Goods Stores	0.95
5999	Miscellaneous Retail Stores, NEC	0.95
6011	Federal Reserve Banks	0.90
6019	Central Reserve Depository Institutions, NEC	0.90
6021	National Commercial Banks	0.90
6022	State Commercial Banks	0.90
6029	Commercial Banks, NEC	0.90
6035	Savings Institutions, Federally Chartered	0.90
6036	Savings institutions, Not Federally Chartered	0.90
6061	Credit Unions, Federally Chartered	0.90
6062	Credit Unions, Not Federally Chartered	0.90
6081	Branches and Agencies of Foreign Banks	0.90
6082	Foreign Trade and International Banking Institutions	0.90
6091	Nondeposit Trust Facilities	0.95
6099	Functions Related to Deposit Banking, NEC	0.90
6111	Federal and Federally-Sponsored Credit Agencies	0.90
6141	Personal Credit Institutions	0.90
6153	Short-Term Business Credit Institutions, Except Agricultural	0.90
6159	Miscellaneous Business Credit Institutions	0.90
6162	Mortgage Bankers and Loan Correspondents	0.90
6163	Loan Brokers	0.90
6211	Security Brokers, Dealers, and Flotation Companies	0.95
6221	Commodity Contracts Brokers and Dealers	0.95
6231	Security and Commodity Exchanges	0.95
6282	Investment Advice	0.95
6289	Services Allied With the Exchange of Securities or Commodities, NEC	0.95
6311	Life Insurance	0.90
6321	Accident and Health Insurance	0.90
6324	Hospital and Medical Service Plans	0.90
6331	Fire, Marine, and Casualty Insurance	0.90
6351	Surety Insurance	0.90
6361	Title Insurance	0.90
6371	Pension, Health, and Welfare Funds	0.95
6399	Insurance Carriers, NEC	0.90
6411	Insurance Agents, Brokers, and Service	1.00
6512	Operators of Nonresidential Buildings	1.15
6513	Operators of Apartment Buildings	1.10
6514	Operators of Dwellings Other Than Apartment Buildings	1.10
6515	Operators of Residential Mobile Home Sites	1.10
6517	Lessors of Railroad Property	1.10
6519	Lessors of Real Property, NEC	1.10
6531	Real Estate Agents and Managers	1.10
6541	Title Abstract Offices	1.00
6552	Land Subdividers and Developers, Except Cemeteries	1.00
6553	Cemetery Subdividers and Developers	0.95
6712	Offices of Bank Holding Companies	0.90
6719	Offices of Holding Companies, NEC	0.90
6722	Management Investment Offices, Open-End	0.90
6726	Unit Investment Trusts, Face-Amount Certificate Offices, and Closed-End Management Investment Offices	0.90
6732	Education, Religious, and Charitable Trusts	0.90
6733	Trusts, Except Educational, Religious, and Charitable	0.95
6792	Oil Royalty Traders	0.95
6794	Patent Owners and Lessors	0.90

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SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
6798	Real Estate Investment Trusts	0.90
6799	Investors, NEC	0.95
7011	Hotels and Motels	1.15
7021	Rooming and Boarding Houses	1.15
7032	Sporting and Recreational Camps	1.15
7033	Recreational Vehicle Parks and Campsites	1.15
7041	Organization Hotels and Lodging Houses, on Membership Basis	1.15
7211	Power Laundries, Family and Commercial	1.15
7212	Garment Pressing, and Agents for Laundries and Drycleaners	1.15
7213	Linen Supply	1.15
7215	Coin-Operated Laundries and Drycleaning	1.15
7216	Drycleaning Plants, Except Rug Cleaning	1.15
7217	Carpet and Upholstery Cleaning	1.10
7218	Industrial Launderers	1.15
7219	Laundry and Garment Services, NEC	1.15
7221	Photographic Studios, Portrait	0.95
7231	Beauty Shops	1.10
7241	Barber Shops	1.05
7251	Shoe Repair Shops and Shoeshine Parlors	1.00
7261	Funeral Services and Crematories	0.95
7291	Tax Return Preparation Services	0.90
7299	Miscellaneous Personal Services, NEC	1.05
7311	Advertising Agencies	1.05
7312	Outdoor Advertising Services	1.05
7313	Radio, Television, and Publishers' Advertising Representatives	1.05
7319	Advertising, NEC	1.05
7322	Adjustment and Collection Services	0.95
7323	Credit Reporting Services	0.95
7331	Direct Mail Advertising Services	1.00
7334	Photocopying and Duplicating Services	0.95
7335	Commercial Photography	0.95
7336	Commercial Art and Graphic Design	0.95
7338	Secretarial and Court Reporting Services	0.95
7342	Disinfecting and Pest Control Services	1.15
7349	Building Cleaning and Maintenance Services, NEC	1.10
7352	Medical Equipment Rental and Leasing	0.95
7353	Heavy Construction Equipment Rental and Leasing	1.00
7359	Equipment Rental and Leasing, NEC	0.95
7361	Employment Agencies	0.95
7363	Help Supply Services	0.95
7371	Computer Programming Services	0.90
7372	Prepackaged Software	0.90
7373	Computer Integrated Systems Design	0.90
7374	Computer Processing and Data Preparation and Processing Services	0.95
7375	Information Retrieval Services	0.95
7376	Computer Facilities Management Services	0.90
7377	Computer Rental and Leasing	0.95
7378	Computer Maintenance and Repair	1.00
7379	Computer Related Services, NEC	0.90
7381	Detective, Guard, and Armored Car Services	1.00
7382	Security Systems Services	1.00
7383	News Syndicates	1.05
7384	Photofinishing Laboratories	0.95
7389	Business Services, NEC	0.95
7513	Truck Rental and Leasing, Without Drivers	1.10

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
7514	Passenger Car Rental	1.10
7515	Passenger Car Leasing	1.10
7519	Utility Trailer and Recreational Vehicle Rental	1.10
7521	Automobile Parking	1.10
7532	Top, Body, and Upholstery Repair Shops and Paint Shops	1.10
7533	Automotive Exhaust System Repair Shops	1.10
7534	Tire Retreading and Repair Shops	1.05
7536	Automotive Glass Replacement Shops	1.10
7537	Automotive Transmission Repair Shops	1.10
7538	General Automotive Repair Shops	1.10
7539	Automotive Repair Shops, NEC	1.10
7542	Carwashes	1.10
7549	Automotive Services, Except Repair and Carwashes	1.10
7622	Radio and Television Repair Shops	1.00
7623	Refrigeration and Air-Conditioning Services and Repair Shops	1.00
7629	Electrical and Electronic Repair Shops, NEC	1.00
7631	Watch, Clock, and Jewelry Repair	1.00
7641	Reupholstery and Furniture Repair	1.00
7692	Welding Repair	1.00
7694	Armature Rewinding Shops	0.95
7699	Repair Shops and Related Services, NEC	1.00
7812	Motion Picture and Video Tape Production	0.95
7819	Services Allied to Motion Picture Production	0.95
7822	Motion Picture and Video Tape Distribution	0.95
7829	Services Allied to Motion Picture Distribution	0.95
7832	Motion Picture Theaters, Except Drive-In	0.95
7833	Drive-In Motion Picture Theaters	0.95
7841	Video Tape Rental	0.95
7911	Dance Studios, Schools, and Halls	1.05
7922	Theatrical Producers (Except Motion Picture) and Miscellaneous Theatrical Services	1.10
7929	Bands, Orchestras, Actors, and Other Entertainers and Entertainment Groups	1.15
7933	Bowling Centers	1.15
7941	Professional Sports Clubs and Promoters	1.15
7948	Racing, Including Track Operations	1.15
7991	Physical Fitness Facilities	1.15
7992	Public Golf Courses	1.15
7993	Coin-Operated Amusement Devices	1.15
7996	Amusement Parks	1.15
7997	Membership Sports and Recreation Clubs	1.15
7999	Amusement and Recreation Services, NEC	1.10
8011	Offices and Clinics of Doctors of Medicine	1.15
8021	Offices and Clinics of Dentists	1.15
8031	Offices and Clinics of Doctors of Osteopathy	1.15
8041	Offices and Clinics of Chiropractors	1.15
8042	Offices and Clinics of Optometrists	1.15
8043	Offices and Clinics of Podiatrists	1.15
8049	Offices and Clinics of Health Practitioners, NEC	1.15
8051	Skilled Nursing Care Facilities	1.15
8052	Intermediate Care Facilities	1.15
8059	Nursing and Personal Care Facilities, NEC	1.15
8062	General Medical and Surgical Hospitals	1.15
8063	Psychiatric Hospitals	1.15
8069	Specialty Hospitals, Except Psychiatric	1.15
8071	Medical Laboratories	1.05
8072	Dental Laboratories	1.00

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
8082	Home Health Care Services	1.15
8092	Kidney Dialysis Centers	1.15
8093	Specialty Outpatient Facilities, NEC	1.15
8099	Health and Allied Services, NEC	1.05
8111	Legal Services	0.95
8211	Elementary and Secondary Schools	1.05
8221	Colleges, Universities, and Professional Schools	1.05
8222	Junior Colleges and Technical Institutes	1.05
8231	Libraries	0.90
8243	Data Processing Schools	0.95
8244	Business and Secretarial Schools	0.95
8249	Vocational Schools, NEC	0.95
8299	Schools and Educational Services, NEC	0.95
8322	Individual and Family Social Services	1.00
8331	Job Training and Vocational Rehabilitation Services	1.00
8351	Child Day Care Services	1.00
8361	Residential Care	1.15
8399	Social Services, NEC	1.00
8412	Museums and Art Galleries	1.05
8422	Arboreta and Botanical or Zoological Gardens	1.05
8611	Business Associations	1.15
8621	Professional Membership Organizations	1.15
8631	Labor Unions and Similar Labor Organizations	1.15
8641	Civic, Social, and Fraternal Associations	1.15
8651	Political Organizations	1.15
8661	Religious Organizations	1.15
8699	Membership Organizations, NEC	1.10
8711	Engineering Services	0.90
8712	Architectural Services	0.90
8713	Surveying Services	0.90
8721	Accounting, Auditing, and Bookkeeping Services	0.90
8731	Commercial Physical and Biological Research	0.95
8732	Commercial Economic, Sociological, and Educational Research	0.95
8733	Noncommercial Research Organizations	0.95
8734	Testing Laboratories	0.90
8741	Management Services	0.95
8742	Management Consulting Services	0.90
8743	Public Relations Services	1.05
8744	Facilities Support Management Services	0.95
8748	Business Consulting Services, NEC	0.90
8811	Private Households	1.15
8999	Services, NEC	0.95
9111	Executive Offices	1.15
9121	Legislative Bodies	1.15
9131	Executive and Legislative Offices, Combined	1.15
9199	General Government, NEC	1.15
9211	Courts	1.15
9221	Police Protection	1.15
9222	Legal Counsel and Prosecution	1.15
9223	Correctional Institutions	1.15
9224	Fire Protection	1.15
9229	Public Order and Safety, NEC	1.15
9311	Public Finance, Taxation, and Monetary Policy	1.15
9411	Administration of Educational Programs	1.15
9431	Administration of Public Health Programs	1.15

Appendix A

SIC Codes and Industry Factors		
SIC	SIC Description	SIC Fx
9441	Administration of Social, Human Resource and Income Maintenance Programs	1.15
9451	Administration of Veterans' Affairs, Except Health Insurance	1.15
9511	Air and Water Resource and Solid Waste Management	1.15
9512	Land, Mineral, Wildlife, and Forest Conservation	1.15
9531	Administration of Housing Programs	1.15
9532	Administration of Urban Planning and Community and Rural Development	1.15
9611	Administration of General Economic Programs	1.15
9621	Regulation and Administration of Transportation Programs	1.10
9631	Regulation and Administration of Communications, Electric, Gas, and Other Utilities	1.15
9641	Regulation of Agricultural Marketing and Commodities	1.15
9651	Regulation, Licensing, and Inspection of Miscellaneous Commercial Sectors	1.15
9661	Space Research and Technology	1.15
9711	National Security	1.15
9721	International Affairs	1.15

Appendix B

Demographic Adjustment Factors									
Male									
TIER	2T	3T	4T	3T	4T	4T	2T	3T	4T
Age	S	S	S	D	D	PC	F	F	F
0 - 24	0.320	0.320	0.320	1.183	1.265	1.116	1.629	2.377	2.493
25 - 29	0.382	0.382	0.382	1.274	1.405	1.165	1.939	2.476	2.607
30 - 34	0.467	0.467	0.467	1.336	1.541	1.229	2.212	2.537	2.672
35 - 39	0.574	0.574	0.574	1.395	1.657	1.340	2.313	2.526	2.658
40 - 44	0.711	0.711	0.711	1.579	1.869	1.441	2.412	2.600	2.721
45 - 49	0.907	0.907	0.907	1.953	2.200	1.624	2.640	2.876	2.992
50 - 54	1.243	1.243	1.243	2.541	2.699	1.930	2.996	3.323	3.425
55 - 59	1.594	1.594	1.594	3.156	3.239	2.236	3.375	3.786	3.871
60 - 64	2.094	2.094	2.094	3.933	3.976	2.730	4.000	4.343	4.402
65 - 199	2.911	2.911	2.911	5.144	5.161	3.594	5.154	5.282	5.470

Female									
TIER	2T	3T	4T	3T	4T	4T	2T	3T	4T
Age	S	S	S	D	D	PC	F	F	F
0 - 24	0.641	0.641	0.641	1.319	1.002	1.638	1.547	2.114	2.108
25 - 29	0.872	0.872	0.872	1.466	1.297	1.766	1.852	2.308	2.410
30 - 34	1.012	1.012	1.012	1.596	1.536	1.864	2.153	2.452	2.587
35 - 39	1.032	1.032	1.032	1.622	1.727	1.833	2.232	2.459	2.623
40 - 44	1.084	1.084	1.084	1.728	2.002	1.808	2.334	2.579	2.765
45 - 49	1.243	1.243	1.243	2.114	2.456	1.926	2.624	2.940	3.146
50 - 54	1.462	1.462	1.462	2.685	2.973	2.107	2.996	3.386	3.595
55 - 59	1.697	1.697	1.697	3.334	3.534	2.294	3.472	3.923	4.114
60 - 64	2.026	2.026	2.026	4.123	4.253	2.598	4.152	4.486	4.724
65 - 199	2.462	2.462	2.462	5.151	5.231	3.148	5.150	5.148	6.057

Average Contract Size									
Male									
TIER	2T	3T	4T	3T	4T	4T	2T	3T	4T
Age	S	S	S	D	D	PC	F	F	F
0 - 24	1.000	1.000	1.000	2.000	2.000	2.143	2.521	3.389	3.438
25 - 29	1.000	1.000	1.000	2.000	2.000	2.415	2.944	3.704	3.758
30 - 34	1.000	1.000	1.000	2.000	2.000	2.656	3.456	3.996	4.071
35 - 39	1.000	1.000	1.000	2.000	2.000	2.851	3.779	4.183	4.280
40 - 44	1.000	1.000	1.000	2.000	2.000	2.840	3.793	4.200	4.297
45 - 49	1.000	1.000	1.000	2.000	2.000	2.743	3.544	4.072	4.151
50 - 54	1.000	1.000	1.000	2.000	2.000	2.580	3.060	3.825	3.873
55 - 59	1.000	1.000	1.000	2.000	2.000	2.417	2.548	3.583	3.607
60 - 64	1.000	1.000	1.000	2.000	2.000	2.375	2.233	3.462	3.460
65 - 199	1.000	1.000	1.000	2.000	2.000	2.500	2.114	3.444	3.500

Female									
TIER	2T	3T	4T	3T	4T	4T	2T	3T	4T
Age	S	S	S	D	D	PC	F	F	F
0 - 24	1.000	1.000	1.000	2.000	2.000	2.227	2.405	3.417	3.500
25 - 29	1.000	1.000	1.000	2.000	2.000	2.415	2.726	3.583	3.706
30 - 34	1.000	1.000	1.000	2.000	2.000	2.674	3.178	3.819	3.972
35 - 39	1.000	1.000	1.000	2.000	2.000	2.816	3.425	3.948	4.147
40 - 44	1.000	1.000	1.000	2.000	2.000	2.750	3.355	3.907	4.084
45 - 49	1.000	1.000	1.000	2.000	2.000	2.602	3.091	3.773	3.904
50 - 54	1.000	1.000	1.000	2.000	2.000	2.433	2.698	3.565	3.638
55 - 59	1.000	1.000	1.000	2.000	2.000	2.259	2.316	3.341	3.368
60 - 64	1.000	1.000	1.000	2.000	2.000	2.143	2.093	3.143	3.167
65 - 199	1.000	1.000	1.000	2.000	2.000	2.500	2.129	3.333	3.500

The demographic factor input into Exhibit A of the Experience Rating Formula is determined by dividing the average subscriber demographic factor by the weighted average number of members per contract (using the demographic factors and average contract size from the tables above).

Medicare Primary Adjustment Factor: 0.75 * Demographic Adjustment Factor in Table Above

Appendix C

HRA/HSA Deductible Funding Adjustment Factors

Single Deductible	51%-75% Funding		76%-100% Funding	
	HRA	HSA	HRA	HSA
\$1,000	1.20%	0.60%	2.40%	1.20%
\$1,250	1.30%	0.70%	2.60%	1.40%
\$1,500	1.30%	0.80%	2.70%	1.60%
\$1,750	1.40%	0.90%	2.80%	1.80%
\$2,000	1.50%	1.00%	2.90%	2.00%
\$2,250	1.90%	1.10%	3.70%	2.20%
\$2,500	2.30%	1.20%	4.50%	2.40%
\$2,750	2.70%	1.30%	5.30%	2.70%
\$3,000	3.10%	1.50%	6.10%	2.90%
\$3,250	3.10%	1.40%	6.10%	2.80%
\$3,500	3.10%	1.30%	6.10%	2.70%
\$3,750	3.10%	1.30%	6.10%	2.60%
\$4,000	3.10%	1.20%	6.10%	2.40%
\$4,250	2.90%	1.20%	5.90%	2.30%
\$4,500	2.80%	1.10%	5.70%	2.20%
\$4,750	2.70%	1.00%	5.40%	2.10%
\$5,000	2.60%	1.00%	5.20%	2.00%

Certification of Compliance

I hereby certify that I have reviewed the applicable filing requirements for this filing and the filing complies with all applicable statutory and regulatory provisions for the state of Vermont.

Print Name: Karla Austen **Title:** Chief Financial Officer & Executive Vice President

Signature: 

Date: 03/23/2018

Large Group

% of Mbrship 7.4% 7.5% 7.5% 7.6% 7.7% 7.6% 8.8% 8.8% 8.8% 8.9% 9.7% 9.7%

Adjustment Factors by Deductible Level

Percent of Total Member Months

Deductible Level	Factors											
	1	2	3	4	5	6	7	8	9	10	11	12
\$0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
\$500	0.61	0.90	0.97	1.01	1.03	1.05	1.06	1.07	1.07	1.08	1.08	1.09
\$1,000	0.48	0.82	0.94	1.00	1.03	1.06	1.08	1.10	1.11	1.12	1.13	1.13
\$1,500	0.41	0.77	0.91	0.98	1.03	1.07	1.10	1.12	1.14	1.15	1.16	1.17
\$2,000	0.37	0.72	0.88	0.97	1.03	1.07	1.11	1.13	1.15	1.17	1.19	1.20
\$2,500	0.34	0.68	0.85	0.96	1.03	1.08	1.12	1.15	1.17	1.19	1.21	1.23
\$2,600	0.33	0.67	0.85	0.96	1.03	1.08	1.12	1.15	1.17	1.20	1.21	1.23
\$3,000	0.31	0.65	0.83	0.95	1.03	1.08	1.12	1.16	1.19	1.21	1.23	1.25
\$5,000	0.24	0.58	0.76	0.89	1.00	1.08	1.14	1.19	1.23	1.27	1.30	1.32
\$6,550	0.20	0.54	0.73	0.87	0.98	1.06	1.14	1.21	1.26	1.30	1.34	1.37

Deductible Level	Coverage Month											
	1	2	3	4	5	6	7	8	9	10	11	12
\$0	0.3%	0.2%	0.2%	0.2%	0.2%	0.3%	1.2%	1.2%	1.2%	1.2%	2.0%	2.0%
\$500	1.1%	1.1%	1.1%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.1%	1.1%
\$1,000	1.1%	1.1%	1.1%	1.1%	1.1%	1.0%	1.3%	1.3%	1.3%	1.4%	1.2%	1.2%
\$1,500	1.2%	1.2%	1.2%	1.2%	1.2%	1.3%	1.2%	1.2%	1.1%	1.2%	1.2%	1.2%
\$2,000	1.1%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.3%	1.1%	1.1%
\$2,500	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	1.4%	2.6%	2.7%
\$2,600	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.0%	0.0%
\$3,000	0.2%	0.2%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%
\$5,000	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%
\$6,550	0.5%	0.5%	0.5%	0.5%	0.4%	0.4%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%

Avg Policy Duration Factor 1.002
Inverse of Factor 0.998



MVP Health Care, Inc.
AR44 Experience Rating Formula
HMO Products
For Large Employer Groups
(100+ Employees as defined by regulation)
Effective 07/01/18

INTRODUCTION

MVP Health Plan, Inc. (“MVP”) markets Experience Rated HMO products to large employer groups as defined per Vermont regulation. Prospective experience rating and Retrospective experience rating methods are offered. In addition, a Minimum Premium Funding arrangement is available via a rider.

MVP’s large group rating formula has three parts. Part 1 develops a group specific manual pure premium. Part 2 develops a pure premium based on the group’s actual claims experience. Part 3 blends the two using credibility factors and then develops the group’s premium rates. The attached Exhibits A and B illustrate the calculation from start to finish and this document provides a description of each component. The actual factors used in the calculation are contained in a separate Experience Rating Addendum filing.

The addendum filing and the factors contained within will be reviewed and adjusted annually or as necessary. Whenever possible, the rating factors will be developed using MVP historical experience and will be normalized to MVP’s population.

II: MANUAL PURE PREMIUM (part 1)

Part 1 of the formula is the calculation of the group specific Manual Pure Premium (the Adjusted Manual Pure Premium).

1. ***Manual Pure Premium*** – The Manual Pure Premium rate table can be found in the Experience Rating Addendum. These rates reflect the expected claim cost for the book of business for each benefit offering for the rating period.
2. ***Industry Factor*** – A factor to adjust for the group’s specific industry. The industry factor table can be found in the Experience Rating Addendum.
3. ***Demographic Factor*** – A factor to adjust for the group’s specific demographic makeup. The demographic tables can be found in the Experience Rating Addendum.
4. ***Manual Group Risk Assessment Factor*** - Rating factors to reflect specific characteristics of the group. See the Experience Rating Addendum for more information.
5. ***HRA/HSA Funding Load Factor*** – The additional risk charge applies when a group funds a plan deductible. The charge is intended to account for the anticipated increase in utilization of services due to the resulting ‘first dollar’ coverage provided. See the Experience Rating Addendum for the applicable factors.

6. **Adjusted Manual Pure Premium** - The product of 1 through 5 above. This is the starting basis for the non-credible portion of the group's premium calculation.

III:EXPERIENCE PURE PREMIUM (part 2)

For existing MVP groups, historical paid claim experience will be used. The underwriter will typically use the most recent 12 months of data with 2 months run-off. There may be instances where more or less data is available. It will be reviewed to determine appropriateness and credibility.

For groups new to MVP, historical paid claim information will be used if it is determined to be credible and appropriate. The data will be adjusted whenever possible to reflect differences in products and benefits being quoted and for differences in provider contracting and medical management. Any adjustments to the data will be documented in the group's rating file. If MVP is not satisfied with the historical paid claim data received, the Adjusted Manual Pure Premium will be used for the first policy year.

PRIMARY INPUTS

- Experience Period Start Date – The first date of the experience data, based on date of service.
- Experience Period End Date – The last date of the experience data, based on the date of service.
- Paid Through Date – The date the claims in the experience period are paid through. This is used to determine the appropriate IBNR completion factor to adjust claims.
- Midpoint of the Experience Period – Middle date of the period start date and the period end date

Product Reflected in the experience – The product previously offered and reflected in the experience. For MVP renewal groups, the benefits are known in detail. For new groups, MVP may have limited benefit detail. When applicable, adjustments to claim information will be determined based on this information.

Product in the rate quote – The product and benefits being quoted. All products quoted will have rates on file with the State of Vermont.

Member Months – The member months for the experience period.

Out-of-Area Subscribers – The number of subscribers who are living outside of the MVP service areas.

CLAIM INFORMATION

1. ***Date of Service Paid Claims*** – The total claims paid for claims incurred in the experience period prior to adjusting for large claims and incurred but not reported claims.
2. ***Composite Completion Factor Adjustment*** – The factor used to complete paid claims. The completion factor depends on the length of the experience period and the number of months paid after the end of the experience period (or “claims runoff”). Factors are often applied during the data reporting and may also be included in #1 in an actual group calculation.
3. ***Incurred Claims*** - The projected total incurred claim cost for the group, adjusted for unpaid claims.
4. ***Other non Fee for Service medical expenses*** – The medical expenses associated with items like Capitation arrangements, Wellness Reward programs and Provider Incentive programs.
5. ***Pooling Level*** – The pooling level (attachment point) for the group. (See Experience Rating Addendum for details). Medical and Pharmacy claims will be included in the pooling calculation.
6. ***Actual Large Claims (excess over pooling level)*** – The claim amount in excess of the attachment point for all applicable claims in the experience period.
7. ***Pharmacy Rebate Factor*** – A factor to reflect pharmacy rebates received from MVP’s Pharmacy Benefit Manager. This represents an average percentage adjustment for MVP’s Rx community pool and is only applied to Rx costs. See Experience Rating Addendum for details.
8. ***Incurred Claims less Large Claims*** – The total Incurred Claims less the Large Claims.
9. ***Trend factor to midpoint of Projection Period*** – The trend rate based on the start and end date of the experience period and the renewal rating period. See the Experience Rating Addendum for trend factors.
10. ***Trended Net Claims*** – The Incurred Claims less Large Claims multiplied by the trend factor.
11. ***Trended PMPM Net Claims*** – The Trended Net Claims divided by the member month exposure for the experience period.

EXPERIENCE ADJUSTMENTS

- 12. Demographic Factor (Carrier Replacement Only)** – In the event MVP is requested to provide an experience rate for the entire group, a demographic adjustment may be warranted. If MVP is offered on a slice basis and the quote is for full carrier replacement, MVP may adjust their own experience to reflect the demographics of the entire group. If claims experience is obtained for the rest of the group then that will be used instead. See the Experience Rating Addendum for the demographic factors.
- 13. Prior Period Adjustment Factor** – In most cases, the underwriter will be looking at the most recent 12 months of a group's experience with 2 months of runoff. However, there may be instances where the underwriter will look at another claim period for the group and combine it with the most recent experience period. An example of this may be if a group had an unusually high number of large claims in the current period, the underwriter could look at the prior period to evaluate the large claim history. In the event the prior period history is very different, the underwriter could dampen the impact of the extraordinary large claims by blending the two periods together.

The calculation of this adjustment factor is shown in the attached Exhibit B. The calculation of the Adjusted PMPM Net Claim amount is done in the same manner as in Exhibit A for the current experience period (Period 1) and is repeated for the prior experience period as well (Period 2). A weighted average of the two is then computed based on Period Weights assumed by the underwriter. The average PMPM is divided by the Period 1 PMPM to derive the Period Period Adjustment Factor.

The Period weight is the amount of weight given to each period. See the Experience Rating Addendum for details.

- 14. Network Adjustment Factor** – An adjustment to reflect differences in network providers, contractual provider reimbursement rates, gatekeeper vs. no gatekeeper, and referral vs. open access between the experience period data and the product being quoted. The calculation of any adjustment to the paid claims will be documented in the group file. See Experience Rating Addendum for details.
- 15. Benefit Adjustment** – An adjustment to reflect material differences between the benefits inherent in the groups historical paid claim experience and the benefits being proposed in the quote. The factor will be calculated and applied separately to the Medical vs. the Prescription Drug claims. The calculation of any adjustment to the paid claims will be documented in the group file. See Experience Rating Addendum for details.

16. ***Pooling Charge %*** - The load applicable to the pooling level selected. See Experience Rating Addendum for details.
17. ***Adjusted PMPM Net Claims*** – The net incurred claims after applying the experience adjustments.
18. ***Covered Lives Assessment (CLA)*** – The amount paid for the Covered Lives Assessment. See the Experience Rating Addendum for detail.
19. ***Indigent Care*** – The amount paid to the State Public Goods Pool. This does not apply to Rx claims. See Experience Rating Addendum for detail.
20. ***Experience Pure Premium*** – Equal to the Adjusted PMPM Net Claims multiplied by the Prior Period Adjustment Factor, if applicable plus the PMPM CLA and Indigent Care expenses.

IV: EMPLOYER SPECIFIC PREMIUM RATES (part 3)

The results of Sections II and III above are blended together using credibility factors to determine the blended pure premium. Final adjustments, explained below, are then applied to arrive at the premium for the group. The premiums for the group's specific tier structure being quoted are then derived from this.

BLENDING OF EXPERIENCE PURE PREMIUM AND ADJUSTED MANUAL PURE PREMIUM

1. ***Adjusted Manual Pure Premium*** –Section II, line 6
2. ***Experience Pure Premium*** –Section III, line 20
3. ***Experience Credibility Weight*** – The weight assigned to the Experience Pure Premium based on the member months from the experience period. See the Experience Rate Addendum for the applicable credibility table.
4. ***Blended Pure Premium*** – The weighted average of the Adjusted Manual Pure Premium and the Experience Pure Premium based on the credibility assigned to the group.
5. ***Group Risk Assessment Factor*** – Rating factors to reflect specific characteristics of the group. See the Experience Rating Addendum.
6. ***New Business Discount Factor*** – See the Experience Rate Addendum for details.
7. ***Retrospective Financial Underwriting Factor*** – The additional risk charge applied when the group is using retrospective experience rating. See the Experience Rating Addendum for the applicable factors.

8. **Network Access Fee** – In the event the group has members who live outside of MVP’s service area, MVP’s rental network assesses an out-of-network access fee. The access fee is charged per OOA subscriber and then translated into a PMPM fee based on the group’s total membership. See the Experience Rating Addendum for the network access fee.
9. **Retention Excluding Premium Tax** – The expense loads added to pure premium to cover general administrative fees, bad debt, risk charges, broker fees, net reinsurance, etc. See Experience Rating Addendum for details.
10. **Premium Tax** – The amount of premium tax. It is a percentage of premium and shown as a PMPM value. See Experience Rating Addendum for details.
11. **Group Required Pure Premium** – $(4 \times 5 \times 6 \times 7) + 8 + 9 + 10$

PREMIUM RATE DEVELOPMENT

12. Employer Specific Loading Factor – Converts the Group Specific Pure Premium to Single, Double, Parent/Child(ren), and Family premiums. A group can choose a two-tier, three-tier, or four-tier billing structure. A group specific Step-Up Factor is calculated using the group census and the group’s desired load ratios.

If MVP doesn’t have credible census information for the group the premium conversion factors from an MVP community rate filing will be used.

13. **Final Premium Rates** – 11 x 12. When more than one plan is offered to an employer, the rates for each plan are developed in a consistent manner as described here. In the case where the employer’s own claim’s experience is being used to develop the premium rates, the actual claims are allocated back to the individual products based on the expected cost of each benefit plan.

Renewal Rate Cap Guarantee – A maximum renewal increase (cap) may be offered to select employer groups at point of sale for a new group or upon renewal for an existing group. If a cap is offered, the group’s next renewal premium derived via this formula will be constrained by the maximum agreed upon renewal increase. A cap will be considered only for groups with a minimum of 100 enrolled subscribers and where MVP is the only carrier offering health insurance to the group. The group must have 2 years of claim history available for review in the rate setting, regardless of whether it is a new or existing case and there are no ongoing large claimants. Groups that meet these selection criteria will be considered on a case by case basis for the cap offer. Not every group that meets these criteria will be offered a renewal increase cap. The maximum renewal increase offered will be at least equal to the projected trend rate used in the rate setting plus some margin. The amount of the margin will depend on the risk characteristics of the group.

V: RETROSPECTIVE EXPERIENCE RATE ACCOUNTING

MVP offers two options for Retrospective Accounting:

- 1) Underwriting gains and losses are shared with the group
- 2) Only underwriting gains are shared with the group

All retrospectively rated groups will pay a risk charge above the standard retention expenses associated with prospectively rated groups. This risk charge is outlined in the Experience Rating Addendum filed under separate cover and updated annually.

The Underwriting gain or loss for each retrospectively rated large group is determined annually using the prior policy years' incurred claim expense and 3 months of paid claim run out plus an additional amount for assumed IBNR claims.

To determine if the group is in a gain or loss position the actual premium collected over the policy year is compared to the actual incurred claims (including an estimate for IBNR) plus the PMPM fee for service medical claim expenses and non claim expenses from the group's premium rate development for that policy year. The actual incurred claims used will be net of any individual member claims over the pooling point purchased by the group for that policy year.

The group is in a gain position if the actual premium collected is greater than the sum of the estimated total incurred claims, the non fee for service medical expenses and the non claim expenses. If not, the group is in a loss position. Underwriting gains, or a portion of, are returned to the group. Underwriting losses, depending on the group contract, will either be the groups or MVP's responsibility.

VII: MINIMUM PREMIUM FUNDING ARRANGEMENT

An employer group can use Minimum Premium Funding by attaching a Minimum Premium Funding Arrangement (MPFA) rider to the group contract. MVP will utilize the large group formula to establish the Claims Liability Rate and other items in the MPFA rider. Exhibit A, attached, Section V. shows the calculations necessary to complete the MPFA rider.

1. ***Final Premium Rates*** – The final rates as determined using the MVP Large Group formula.
2. ***Retention Rate*** – The amount of retention included in the Final Premium Rates. The group is billed separately for retention charges.
3. ***Claims Liability Rate (CLR)*** – Line 1 minus Line 2, or the premium rates without retention.

4. *Claims Fluctuation Margin* - Addendum value. Also sometimes referred to as the Minimum Premium “Risk Corridor”, the amount of risk over the claims projection to be absorbed by the employer group. The amount of risk assumption will vary by group size and risk characteristics of the group.
5. *Maximum Monthly Premium Liability (MPL)* – Line 3 x Line 4 x the number of subscribers in each premium tier for the month. The MPL will be used to determine any monthly gain or loss by comparing against actual claims in the month. Over the contract period, the cumulative gain or loss is determined by comparing the cumulative MPT to the cumulative actual claims paid. Settlements of gains and losses will be described in the MPFA rider language.

VIII: EARLY QUOTING CLAUSE

Large Employers often require firm rate proposals 7-9 months in advance of the renewal effective date due to the effort required to coordinate renewals from multiple carriers and prepare open enrollment materials for their employees. It is usually the case that MVP does not yet have the next calendar year addendum values finalized and ready to quote and file this far in advance.

Upon request, for accounts with at least 2,000 total employees, MVP will develop the group’s premium rates based on the current formula and addendum values. Once MVP finalizes the next calendar year addendum factors and formula, all rates calculated thereafter will be based on the updated formula and addendum.

CERTIFICATION

I believe the rating formula described herein is consistent with industry norms, follows sound actuarial and underwriting principals and the rating factors used and documented in the Experience Rating Addendum are reasonable relative to MVP’s book of business and industry norms.

I have reviewed the provisions of Vermont Insurance Law. It is my opinion that this rating formula complies with the requirements of those provisions.



Eric Bachner, ASA

March 23, 2018
Date

Large Group Historical Medical & Rx Claims Summary - Non-HDHP

Rolling 12 End Date	Medical + Rx Claim Expense > \$100k PMPM	Medical Claim Expense PMPM	Rx Claim Expense PMPM	Medical Allowed -		Member Months	Claims > \$100k as % of Claims < \$100k	Rolling 12 Medical Claim Expense Trend	Rolling 12 Rx Claim Expense Trend	Rolling 12 Paid Trend				
				COB PMPM	Rx Allowed PMPM					Removing High Cost Claims	Rolling 12 Medical Allowed - COB Trend	Rolling 12 Rx Allowed Trend	Rolling 12 Membership Change	Paid To Allowed Ratio
201510	\$13.18	\$285.25	\$71.14	\$328.22	\$79.97	17,151	3.8%	N/A	N/A	N/A	N/A	N/A	N/A	87.3%
201511	\$14.30	\$283.65	\$71.15	\$327.06	\$79.95	16,839	4.2%	N/A	N/A	N/A	N/A	N/A	N/A	87.2%
201512	\$15.40	\$280.79	\$72.52	\$324.34	\$81.16	16,534	4.6%	N/A	N/A	N/A	N/A	N/A	N/A	87.1%
201601	\$19.00	\$278.05	\$75.18	\$319.89	\$83.89	16,498	5.7%	N/A	N/A	N/A	N/A	N/A	N/A	87.5%
201602	\$21.32	\$277.33	\$76.72	\$318.04	\$85.46	16,451	6.4%	N/A	N/A	N/A	N/A	N/A	N/A	87.7%
201603	\$21.10	\$278.03	\$78.22	\$319.06	\$86.96	16,436	6.3%	N/A	N/A	N/A	N/A	N/A	N/A	87.7%
201604	\$15.44	\$290.71	\$75.77	\$333.13	\$84.47	16,428	4.4%	N/A	N/A	N/A	N/A	N/A	N/A	87.8%
201605	\$15.74	\$301.87	\$75.06	\$344.82	\$84.15	16,383	4.4%	N/A	N/A	N/A	N/A	N/A	N/A	87.9%
201606	\$11.33	\$308.21	\$75.75	\$352.10	\$85.03	16,378	3.0%	N/A	N/A	N/A	N/A	N/A	N/A	87.8%
201607	\$9.93	\$312.29	\$75.80	\$356.50	\$85.21	15,018	2.6%	N/A	N/A	N/A	N/A	N/A	N/A	87.9%
201608	\$11.58	\$326.70	\$74.89	\$374.34	\$84.43	16,407	3.0%	N/A	N/A	N/A	N/A	N/A	N/A	87.5%
201609	\$10.94	\$322.24	\$73.26	\$368.28	\$82.77	16,402	2.8%	N/A	N/A	N/A	N/A	N/A	N/A	87.7%
201610	\$10.15	\$319.60	\$70.82	\$365.30	\$80.49	16,378	2.7%	12.0%	-0.5%	10.8%	11.3%	0.7%	-4.5%	87.6%
201611	\$10.82	\$322.59	\$72.79	\$367.93	\$82.90	16,399	2.8%	13.7%	2.3%	12.9%	12.5%	3.7%	-2.6%	87.7%
201612	\$11.18	\$331.50	\$74.09	\$377.07	\$84.60	16,411	2.8%	18.1%	2.2%	16.3%	16.3%	4.2%	-0.7%	87.9%
201701	\$15.25	\$347.08	\$73.66	\$394.32	\$84.11	16,325	3.8%	24.8%	-2.0%	21.3%	23.3%	0.3%	-1.0%	87.9%
201702	\$17.65	\$350.73	\$76.85	\$398.55	\$87.67	16,232	4.3%	26.5%	0.2%	23.2%	25.3%	2.6%	-1.3%	87.9%
201703	\$15.02	\$357.22	\$76.19	\$406.77	\$87.46	16,148	3.6%	28.5%	-2.6%	24.8%	27.5%	0.6%	-1.8%	87.7%
201704	\$16.45	\$350.63	\$78.05	\$400.99	\$89.72	16,064	4.0%	20.6%	3.0%	17.4%	20.4%	6.2%	-2.2%	87.4%
201705	\$18.70	\$353.23	\$80.07	\$404.00	\$91.79	15,730	4.5%	17.0%	6.7%	14.8%	17.2%	9.1%	-4.0%	87.4%
201706	\$24.75	\$359.93	\$81.24	\$410.96	\$93.14	15,364	5.9%	16.8%	7.3%	11.8%	16.7%	9.5%	-6.2%	87.5%
201707	\$34.84	\$365.86	\$81.04	\$415.48	\$93.53	14,970	8.5%	17.2%	6.9%	9.0%	16.5%	9.8%	-0.3%	87.8%
201708	\$44.45	\$364.65	\$80.36	\$414.15	\$92.97	14,578	11.1%	11.6%	7.3%	2.7%	10.6%	10.1%	-11.1%	87.8%
201709	\$51.16	\$388.63	\$84.32	\$441.53	\$97.44	14,192	12.1%	20.6%	15.1%	9.7%	19.9%	17.7%	-13.5%	87.8%
201710	\$54.73	\$415.54	\$86.03	\$471.54	\$99.34	13,821	12.2%	30.0%	21.5%	17.5%	29.1%	23.4%	-15.6%	87.9%

Large Group Historical Medical & Rx Claims Summary - HDHP

Rolling 12 End Date	Medical + Rx Claim Expense > \$100k PMPM	Medical Claim Expense PMPM	Rx Claim Expense PMPM	Medical Allowed -		Member Months	Claims > \$100k as % of Claims < \$100k	Rolling 12 Medical Claim Expense Trend	Rolling 12 Rx Claim Expense Trend	Rolling 12 Paid Trend				
				COB PMPM	Rx Allowed PMPM					Removing High Cost Claims	Rolling 12 Medical Allowed - COB Trend	Rolling 12 Rx Allowed Trend	Rolling 12 Membership Change	Paid To Allowed Ratio
201510	\$12.01	\$240.35	\$36.45	\$330.89	\$47.62	31,603	4.5%	N/A	N/A	N/A	N/A	N/A	N/A	73.1%
201511	\$10.89	\$229.65	\$36.31	\$321.35	\$46.91	29,680	4.3%	N/A	N/A	N/A	N/A	N/A	N/A	72.2%
201512	\$10.68	\$211.93	\$34.77	\$301.32	\$44.79	27,814	4.5%	N/A	N/A	N/A	N/A	N/A	N/A	71.3%
201601	\$6.22	\$207.88	\$35.01	\$294.24	\$44.39	26,682	2.6%	N/A	N/A	N/A	N/A	N/A	N/A	71.7%
201602	\$6.74	\$197.23	\$34.61	\$281.08	\$43.70	25,449	3.0%	N/A	N/A	N/A	N/A	N/A	N/A	71.4%
201603	\$8.25	\$195.82	\$34.26	\$276.98	\$43.04	24,202	3.7%	N/A	N/A	N/A	N/A	N/A	N/A	71.9%
201604	\$9.80	\$198.66	\$34.42	\$278.22	\$42.81	22,840	4.4%	N/A	N/A	N/A	N/A	N/A	N/A	72.6%
201605	\$11.51	\$203.98	\$34.94	\$284.11	\$43.15	21,473	5.1%	N/A	N/A	N/A	N/A	N/A	N/A	73.0%
201606	\$12.75	\$210.87	\$34.64	\$291.62	\$42.58	20,183	5.5%	N/A	N/A	N/A	N/A	N/A	N/A	73.5%
201607	\$13.68	\$213.23	\$31.44	\$292.76	\$39.10	17,819	5.9%	N/A	N/A	N/A	N/A	N/A	N/A	73.7%
201608	\$18.56	\$211.25	\$28.51	\$290.32	\$36.19	17,581	8.4%	N/A	N/A	N/A	N/A	N/A	N/A	73.4%
201609	\$21.72	\$215.46	\$28.37	\$294.17	\$36.02	16,316	9.8%	N/A	N/A	N/A	N/A	N/A	N/A	73.8%
201610	\$25.42	\$219.10	\$26.42	\$298.01	\$33.88	15,077	11.5%	-8.8%	-27.5%	-16.9%	-9.9%	-28.9%	-52.3%	74.0%
201611	\$22.21	\$215.98	\$26.91	\$292.68	\$34.61	14,151	10.1%	-6.0%	-25.9%	-13.5%	-8.9%	-26.2%	-52.3%	74.2%
201612	\$23.35	\$212.77	\$24.54	\$290.85	\$32.35	13,251	10.9%	0.4%	-29.4%	-9.3%	-3.5%	-27.8%	-52.4%	73.4%
201701	\$20.24	\$210.64	\$25.27	\$287.19	\$33.02	13,024	9.4%	1.3%	-27.8%	-8.9%	-2.4%	-25.6%	-51.2%	73.7%
201702	\$24.25	\$213.98	\$25.26	\$289.76	\$32.84	12,862	11.3%	8.5%	-27.0%	-4.5%	3.1%	-24.9%	-49.5%	74.2%
201703	\$31.73	\$227.18	\$24.78	\$304.18	\$32.31	12,690	14.4%	16.0%	-27.7%	-0.7%	9.8%	-24.9%	-47.6%	74.9%
201704	\$31.81	\$224.04	\$24.74	\$300.28	\$32.47	12,639	14.7%	12.8%	-28.1%	-2.8%	7.9%	-24.2%	-44.7%	74.8%
201705	\$41.44	\$246.52	\$24.49	\$323.28	\$32.42	12,569	18.1%	20.9%	-29.9%	0.9%	13.8%	-24.9%	-41.5%	76.2%
201706	\$44.24	\$255.73	\$24.10	\$335.18	\$32.20	12,508	18.8%	21.3%	-30.4%	1.2%	14.9%	-24.4%	-38.0%	76.2%
201707	\$42.45	\$255.91	\$23.96	\$336.17	\$32.35	12,474	17.9%	20.0%	-23.8%	2.8%	14.8%	-17.3%	-30.0%	75.9%
201708	\$40.01	\$269.79	\$23.79	\$352.41	\$32.29	12,446	15.8%	27.7%	-16.6%	14.6%	21.4%	-10.8%	-29.2%	76.3%
201709	\$42.15	\$277.90	\$23.55	\$363.47	\$32.07	12,399	16.3%	29.0%	-17.0%	16.7%	23.6%	-11.0%	-24.0%	76.2%
201710	\$44.75	\$275.71	\$24.21	\$362.40	\$32.69	12,363	17.5%	25.8%	-8.4%	15.9%	21.6%	-3.5%	-18.0%	75.9%

Large Group Historical Medical & Rx Claims Summary - Total															
Rolling 12 End Date	Medical + Rx Claim Expense	Medical Claim Expense	Rx Claim Expense	Medical Allowed -		Member Months	Claims > \$100k as %	Rolling 12 Medical Claim	Rolling 12 Rx Claim	Rolling 12 Paid Trend		Rolling 12 Medical Allowed	Rolling 12 Rx	Rolling 12	Paid To Allowed
	> \$100k PMPM	PMPM	PMPM	COB PMPM	Rx Allowed PMPM		of Claims < \$100k	Expense Trend	Expense Trend	Removing High Cost Claims	- COB Trend	Allowed Trend	Membership Change	Ratio	
201510	\$12.42	\$256.15	\$48.65	\$329.95	\$59.00	48,754	4.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.4%
201511	\$12.12	\$249.20	\$48.93	\$323.41	\$58.87	46,519	4.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.0%
201512	\$12.44	\$237.61	\$48.84	\$309.91	\$58.35	44,348	4.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	77.8%
201601	\$11.10	\$234.69	\$50.36	\$304.04	\$59.48	43,180	4.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.4%
201602	\$12.46	\$228.68	\$51.15	\$295.59	\$60.09	41,900	4.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	78.7%
201603	\$13.45	\$229.07	\$52.04	\$294.00	\$60.80	40,638	5.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	79.2%
201604	\$12.16	\$237.17	\$51.72	\$301.19	\$60.24	39,268	4.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	79.9%
201605	\$13.34	\$246.35	\$52.30	\$310.39	\$60.89	37,856	4.7%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.4%
201606	\$12.11	\$254.48	\$53.06	\$318.71	\$61.60	36,561	4.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.9%
201607	\$11.96	\$258.54	\$51.73	\$321.92	\$60.19	32,837	4.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.2%
201608	\$15.19	\$266.98	\$50.90	\$330.88	\$59.48	33,988	5.0%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.4%
201609	\$16.32	\$268.99	\$50.87	\$331.32	\$59.45	32,718	5.4%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.9%
201610	\$17.47	\$271.43	\$49.54	\$333.04	\$58.15	31,455	5.8%	6.0%	1.8%	3.8%	0.9%	-1.4%	-35.5%	82.0%	
201611	\$16.10	\$273.21	\$51.54	\$333.07	\$60.53	30,550	5.2%	9.6%	5.3%	7.9%	3.0%	2.8%	-34.3%	82.5%	
201612	\$16.62	\$278.46	\$51.96	\$338.55	\$61.26	29,662	5.3%	17.2%	6.4%	14.5%	9.2%	5.0%	-33.1%	82.6%	
201701	\$17.47	\$286.53	\$52.18	\$346.78	\$61.43	29,349	5.4%	22.1%	3.6%	17.3%	14.1%	3.3%	-32.0%	83.0%	
201702	\$20.57	\$290.27	\$54.04	\$350.45	\$63.43	29,094	6.4%	26.9%	5.7%	21.1%	18.6%	5.5%	-30.6%	83.2%	
201703	\$22.37	\$300.00	\$53.57	\$361.63	\$63.19	28,838	6.8%	31.0%	2.9%	23.7%	23.0%	3.9%	-29.0%	83.2%	
201704	\$23.21	\$294.89	\$54.58	\$356.64	\$64.51	28,703	7.1%	24.3%	5.5%	17.9%	18.4%	7.1%	-26.9%	83.0%	
201705	\$28.80	\$305.83	\$55.39	\$368.15	\$65.42	28,299	8.7%	24.1%	5.9%	16.5%	18.6%	7.4%	-25.2%	83.3%	
201706	\$33.50	\$313.17	\$55.60	\$376.95	\$65.79	27,872	10.0%	23.1%	4.8%	13.5%	18.3%	6.8%	-23.8%	83.3%	
201707	\$38.30	\$315.88	\$55.09	\$379.43	\$65.72	27,444	11.5%	22.2%	6.5%	11.5%	17.9%	9.2%	-16.4%	83.3%	
201708	\$42.40	\$320.96	\$54.30	\$385.72	\$65.02	27,024	12.7%	20.2%	6.7%	10.0%	16.6%	9.3%	-20.5%	83.3%	
201709	\$46.95	\$337.00	\$55.98	\$405.13	\$66.96	26,591	13.6%	25.3%	10.0%	14.0%	22.3%	12.6%	-18.7%	83.2%	
201710	\$50.00	\$349.52	\$56.84	\$420.01	\$67.87	26,184	14.0%	28.8%	14.7%	17.4%	26.1%	16.7%	-16.8%	83.3%	

Summary of Historical Rx Claims Broken Out by Rx Category - HDHP

Size	Product Type	Rolling 12 End Date YYYYMM	Rx Category	Allowed	Member Months	Allowed PMPM	Rolling 12 Allowed Trend
Large	HDHP	201510	1 Generic	\$462,256	31,603	\$14.63	N/A
Large	HDHP	201511	1 Generic	\$422,203	29,680	\$14.23	N/A
Large	HDHP	201512	1 Generic	\$368,463	27,814	\$13.25	N/A
Large	HDHP	201601	1 Generic	\$342,208	26,682	\$12.83	N/A
Large	HDHP	201602	1 Generic	\$317,483	25,449	\$12.48	N/A
Large	HDHP	201603	1 Generic	\$291,887	24,202	\$12.06	N/A
Large	HDHP	201604	1 Generic	\$262,426	22,840	\$11.49	N/A
Large	HDHP	201605	1 Generic	\$237,406	21,473	\$11.06	N/A
Large	HDHP	201606	1 Generic	\$211,842	20,183	\$10.50	N/A
Large	HDHP	201607	1 Generic	\$178,587	17,819	\$10.02	N/A
Large	HDHP	201608	1 Generic	\$163,853	17,581	\$9.32	N/A
Large	HDHP	201609	1 Generic	\$134,977	16,316	\$8.27	N/A
Large	HDHP	201610	1 Generic	\$112,820	15,077	\$7.48	-48.8%
Large	HDHP	201611	1 Generic	\$104,641	14,151	\$7.39	-48.0%
Large	HDHP	201612	1 Generic	\$97,499	13,251	\$7.36	-44.5%
Large	HDHP	201701	1 Generic	\$96,906	13,024	\$7.44	-42.0%
Large	HDHP	201702	1 Generic	\$96,283	12,862	\$7.49	-40.0%
Large	HDHP	201703	1 Generic	\$96,186	12,690	\$7.58	-37.2%
Large	HDHP	201704	1 Generic	\$98,022	12,639	\$7.76	-32.5%
Large	HDHP	201705	1 Generic	\$102,612	12,569	\$8.16	-26.2%
Large	HDHP	201706	1 Generic	\$104,196	12,508	\$8.33	-20.6%
Large	HDHP	201707	1 Generic	\$106,724	12,474	\$8.56	-14.6%
Large	HDHP	201708	1 Generic	\$108,935	12,446	\$8.75	-6.1%
Large	HDHP	201709	1 Generic	\$111,507	12,399	\$8.99	8.7%
Large	HDHP	201710	1 Generic	\$111,355	12,363	\$9.01	20.4%
Large	HDHP	201510	2 Brand	\$445,547	31,603	\$14.10	N/A
Large	HDHP	201511	2 Brand	\$400,158	29,680	\$13.48	N/A
Large	HDHP	201512	2 Brand	\$334,321	27,814	\$12.02	N/A
Large	HDHP	201601	2 Brand	\$323,370	26,682	\$12.12	N/A
Large	HDHP	201602	2 Brand	\$295,536	25,449	\$11.61	N/A
Large	HDHP	201603	2 Brand	\$277,047	24,202	\$11.45	N/A
Large	HDHP	201604	2 Brand	\$257,124	22,840	\$11.26	N/A
Large	HDHP	201605	2 Brand	\$239,489	21,473	\$11.15	N/A
Large	HDHP	201606	2 Brand	\$219,368	20,183	\$10.87	N/A
Large	HDHP	201607	2 Brand	\$192,132	17,819	\$10.78	N/A
Large	HDHP	201608	2 Brand	\$181,468	17,581	\$10.32	N/A
Large	HDHP	201609	2 Brand	\$164,863	16,316	\$10.10	N/A
Large	HDHP	201610	2 Brand	\$137,525	15,077	\$9.12	-35.3%
Large	HDHP	201611	2 Brand	\$128,072	14,151	\$9.05	-32.9%
Large	HDHP	201612	2 Brand	\$117,462	13,251	\$8.86	-26.3%
Large	HDHP	201701	2 Brand	\$114,344	13,024	\$8.78	-27.6%
Large	HDHP	201702	2 Brand	\$114,636	12,862	\$8.91	-23.3%
Large	HDHP	201703	2 Brand	\$113,207	12,690	\$8.92	-22.1%
Large	HDHP	201704	2 Brand	\$120,786	12,639	\$9.56	-15.1%
Large	HDHP	201705	2 Brand	\$124,985	12,569	\$9.94	-10.8%
Large	HDHP	201706	2 Brand	\$130,100	12,508	\$10.40	-4.3%
Large	HDHP	201707	2 Brand	\$132,296	12,474	\$10.61	-1.6%
Large	HDHP	201708	2 Brand	\$131,802	12,446	\$10.59	2.6%
Large	HDHP	201709	2 Brand	\$130,307	12,399	\$10.51	4.0%
Large	HDHP	201710	2 Brand	\$134,556	12,363	\$10.88	19.3%

Summary of Historical Rx Claims Broken Out by Rx Category - HDHP

Size	Product Type	Rolling 12 End Date YYYYMM	Rx Category	Allowed	Member Months	Allowed PMPM	Rolling 12 Allowed Trend
Large	HDHP	201510	3 Specialty	\$596,979	31,603	\$18.89	N/A
Large	HDHP	201511	3 Specialty	\$569,832	29,680	\$19.20	N/A
Large	HDHP	201512	3 Specialty	\$543,144	27,814	\$19.53	N/A
Large	HDHP	201601	3 Specialty	\$518,724	26,682	\$19.44	N/A
Large	HDHP	201602	3 Specialty	\$499,111	25,449	\$19.61	N/A
Large	HDHP	201603	3 Specialty	\$472,636	24,202	\$19.53	N/A
Large	HDHP	201604	3 Specialty	\$458,331	22,840	\$20.07	N/A
Large	HDHP	201605	3 Specialty	\$449,713	21,473	\$20.94	N/A
Large	HDHP	201606	3 Specialty	\$428,174	20,183	\$21.21	N/A
Large	HDHP	201607	3 Specialty	\$325,937	17,819	\$18.29	N/A
Large	HDHP	201608	3 Specialty	\$290,970	17,581	\$16.55	N/A
Large	HDHP	201609	3 Specialty	\$287,821	16,316	\$17.64	N/A
Large	HDHP	201610	3 Specialty	\$260,424	15,077	\$17.27	-8.6%
Large	HDHP	201611	3 Specialty	\$257,054	14,151	\$18.17	-5.4%
Large	HDHP	201612	3 Specialty	\$213,765	13,251	\$16.13	-17.4%
Large	HDHP	201701	3 Specialty	\$218,743	13,024	\$16.80	-13.6%
Large	HDHP	201702	3 Specialty	\$211,454	12,862	\$16.44	-16.2%
Large	HDHP	201703	3 Specialty	\$200,633	12,690	\$15.81	-19.0%
Large	HDHP	201704	3 Specialty	\$191,566	12,639	\$15.16	-24.5%
Large	HDHP	201705	3 Specialty	\$179,889	12,569	\$14.31	-31.7%
Large	HDHP	201706	3 Specialty	\$168,435	12,508	\$13.47	-36.5%
Large	HDHP	201707	3 Specialty	\$164,466	12,474	\$13.18	-27.9%
Large	HDHP	201708	3 Specialty	\$161,098	12,446	\$12.94	-21.8%
Large	HDHP	201709	3 Specialty	\$155,787	12,399	\$12.56	-28.8%
Large	HDHP	201710	3 Specialty	\$158,257	12,363	\$12.80	-25.9%

Summary of Historical Rx Claims Broken Out by Rx Category - Non-HDHP

Size	Product Type	Rolling 12	Rx Category	Allowed	Member Months	Allowed PMPM	Rolling 12
		End Date YYYYMM					Allowed Trend
Large	Non-HDHP	201510	1 Generic	\$368,089	17,151	\$21.46	N/A
Large	Non-HDHP	201511	1 Generic	\$367,179	16,839	\$21.81	N/A
Large	Non-HDHP	201512	1 Generic	\$357,807	16,534	\$21.64	N/A
Large	Non-HDHP	201601	1 Generic	\$358,475	16,498	\$21.73	N/A
Large	Non-HDHP	201602	1 Generic	\$358,888	16,451	\$21.82	N/A
Large	Non-HDHP	201603	1 Generic	\$352,731	16,436	\$21.46	N/A
Large	Non-HDHP	201604	1 Generic	\$353,804	16,428	\$21.54	N/A
Large	Non-HDHP	201605	1 Generic	\$352,868	16,383	\$21.54	N/A
Large	Non-HDHP	201606	1 Generic	\$353,050	16,378	\$21.56	N/A
Large	Non-HDHP	201607	1 Generic	\$322,148	15,018	\$21.45	N/A
Large	Non-HDHP	201608	1 Generic	\$350,173	16,407	\$21.34	N/A
Large	Non-HDHP	201609	1 Generic	\$340,526	16,402	\$20.76	N/A
Large	Non-HDHP	201610	1 Generic	\$341,243	16,378	\$20.84	-2.9%
Large	Non-HDHP	201611	1 Generic	\$343,302	16,399	\$20.93	-4.0%
Large	Non-HDHP	201612	1 Generic	\$345,702	16,411	\$21.07	-2.7%
Large	Non-HDHP	201701	1 Generic	\$345,550	16,325	\$21.17	-2.6%
Large	Non-HDHP	201702	1 Generic	\$345,526	16,232	\$21.29	-2.4%
Large	Non-HDHP	201703	1 Generic	\$344,844	16,148	\$21.36	-0.5%
Large	Non-HDHP	201704	1 Generic	\$339,376	16,064	\$21.13	-1.9%
Large	Non-HDHP	201705	1 Generic	\$336,936	15,730	\$21.42	-0.6%
Large	Non-HDHP	201706	1 Generic	\$328,952	15,364	\$21.41	-0.7%
Large	Non-HDHP	201707	1 Generic	\$319,524	14,970	\$21.34	-0.5%
Large	Non-HDHP	201708	1 Generic	\$309,865	14,578	\$21.26	-0.4%
Large	Non-HDHP	201709	1 Generic	\$299,949	14,192	\$21.14	1.8%
Large	Non-HDHP	201710	1 Generic	\$290,944	13,821	\$21.05	1.0%
Large	Non-HDHP	201510	2 Brand	\$275,262	17,151	\$16.05	N/A
Large	Non-HDHP	201511	2 Brand	\$274,765	16,839	\$16.32	N/A
Large	Non-HDHP	201512	2 Brand	\$278,883	16,534	\$16.87	N/A
Large	Non-HDHP	201601	2 Brand	\$295,098	16,498	\$17.89	N/A
Large	Non-HDHP	201602	2 Brand	\$304,720	16,451	\$18.52	N/A
Large	Non-HDHP	201603	2 Brand	\$311,921	16,436	\$18.98	N/A
Large	Non-HDHP	201604	2 Brand	\$327,798	16,428	\$19.95	N/A
Large	Non-HDHP	201605	2 Brand	\$341,734	16,383	\$20.86	N/A
Large	Non-HDHP	201606	2 Brand	\$344,386	16,378	\$21.03	N/A
Large	Non-HDHP	201607	2 Brand	\$324,491	15,018	\$21.61	N/A
Large	Non-HDHP	201608	2 Brand	\$362,043	16,407	\$22.07	N/A
Large	Non-HDHP	201609	2 Brand	\$371,309	16,402	\$22.64	N/A
Large	Non-HDHP	201610	2 Brand	\$376,329	16,378	\$22.98	43.2%
Large	Non-HDHP	201611	2 Brand	\$380,954	16,399	\$23.23	42.4%
Large	Non-HDHP	201612	2 Brand	\$385,965	16,411	\$23.52	39.4%
Large	Non-HDHP	201701	2 Brand	\$376,380	16,325	\$23.06	28.9%
Large	Non-HDHP	201702	2 Brand	\$373,091	16,232	\$22.98	24.1%
Large	Non-HDHP	201703	2 Brand	\$371,216	16,148	\$22.99	21.1%
Large	Non-HDHP	201704	2 Brand	\$368,716	16,064	\$22.95	15.0%
Large	Non-HDHP	201705	2 Brand	\$359,189	15,730	\$22.83	9.5%
Large	Non-HDHP	201706	2 Brand	\$349,368	15,364	\$22.74	8.1%
Large	Non-HDHP	201707	2 Brand	\$340,674	14,970	\$22.76	5.3%
Large	Non-HDHP	201708	2 Brand	\$335,121	14,578	\$22.99	4.2%
Large	Non-HDHP	201709	2 Brand	\$322,938	14,192	\$22.75	0.5%
Large	Non-HDHP	201710	2 Brand	\$320,756	13,821	\$23.21	1.0%

Summary of Historical Rx Claims Broken Out by Rx Category - Non-HDHP

Size	Product Type	Rolling 12		Allowed	Member Months	Allowed PMPM	Rolling 12 Allowed Trend
		End Date YYYYMM	Rx Category				
Large	Non-HDHP	201510	3 Specialty	\$728,142	17,151	\$42.45	N/A
Large	Non-HDHP	201511	3 Specialty	\$704,251	16,839	\$41.82	N/A
Large	Non-HDHP	201512	3 Specialty	\$705,128	16,534	\$42.65	N/A
Large	Non-HDHP	201601	3 Specialty	\$730,378	16,498	\$44.27	N/A
Large	Non-HDHP	201602	3 Specialty	\$742,229	16,451	\$45.12	N/A
Large	Non-HDHP	201603	3 Specialty	\$764,686	16,436	\$46.53	N/A
Large	Non-HDHP	201604	3 Specialty	\$706,043	16,428	\$42.98	N/A
Large	Non-HDHP	201605	3 Specialty	\$684,003	16,383	\$41.75	N/A
Large	Non-HDHP	201606	3 Specialty	\$695,184	16,378	\$42.45	N/A
Large	Non-HDHP	201607	3 Specialty	\$633,110	15,018	\$42.16	N/A
Large	Non-HDHP	201608	3 Specialty	\$673,006	16,407	\$41.02	N/A
Large	Non-HDHP	201609	3 Specialty	\$645,704	16,402	\$39.37	N/A
Large	Non-HDHP	201610	3 Specialty	\$600,684	16,378	\$36.68	-13.6%
Large	Non-HDHP	201611	3 Specialty	\$635,145	16,399	\$38.73	-7.4%
Large	Non-HDHP	201612	3 Specialty	\$656,766	16,411	\$40.02	-6.2%
Large	Non-HDHP	201701	3 Specialty	\$651,129	16,325	\$39.89	-9.9%
Large	Non-HDHP	201702	3 Specialty	\$704,367	16,232	\$43.39	-3.8%
Large	Non-HDHP	201703	3 Specialty	\$696,219	16,148	\$43.11	-7.3%
Large	Non-HDHP	201704	3 Specialty	\$733,114	16,064	\$45.64	6.2%
Large	Non-HDHP	201705	3 Specialty	\$747,757	15,730	\$47.54	13.9%
Large	Non-HDHP	201706	3 Specialty	\$752,642	15,364	\$48.99	15.4%
Large	Non-HDHP	201707	3 Specialty	\$739,958	14,970	\$49.43	17.3%
Large	Non-HDHP	201708	3 Specialty	\$710,343	14,578	\$48.73	18.8%
Large	Non-HDHP	201709	3 Specialty	\$760,033	14,192	\$53.55	36.0%
Large	Non-HDHP	201710	3 Specialty	\$761,229	13,821	\$55.08	50.2%

Summary of Historical Rx Claims Broken Out by Rx Category - Total

Size	Product Type	Rolling 12	Rx Category	Allowed	Member Months	Allowed PMPM	Rolling 12
		End Date YYYYMM					Allowed Trend
Large	All	201510	1 Generic	\$830,345	48,754	\$17.03	N/A
Large	All	201511	1 Generic	\$789,382	46,519	\$16.97	N/A
Large	All	201512	1 Generic	\$726,270	44,348	\$16.38	N/A
Large	All	201601	1 Generic	\$700,683	43,180	\$16.23	N/A
Large	All	201602	1 Generic	\$676,370	41,900	\$16.14	N/A
Large	All	201603	1 Generic	\$644,618	40,638	\$15.86	N/A
Large	All	201604	1 Generic	\$616,231	39,268	\$15.69	N/A
Large	All	201605	1 Generic	\$590,274	37,856	\$15.59	N/A
Large	All	201606	1 Generic	\$564,892	36,561	\$15.45	N/A
Large	All	201607	1 Generic	\$500,735	32,837	\$15.25	N/A
Large	All	201608	1 Generic	\$514,026	33,988	\$15.12	N/A
Large	All	201609	1 Generic	\$475,503	32,718	\$14.53	N/A
Large	All	201610	1 Generic	\$454,063	31,455	\$14.44	-15.2%
Large	All	201611	1 Generic	\$447,943	30,550	\$14.66	-13.6%
Large	All	201612	1 Generic	\$443,202	29,662	\$14.94	-8.8%
Large	All	201701	1 Generic	\$442,455	29,349	\$15.08	-7.1%
Large	All	201702	1 Generic	\$441,808	29,094	\$15.19	-5.9%
Large	All	201703	1 Generic	\$441,030	28,838	\$15.29	-3.6%
Large	All	201704	1 Generic	\$437,398	28,703	\$15.24	-2.9%
Large	All	201705	1 Generic	\$439,548	28,299	\$15.53	-0.4%
Large	All	201706	1 Generic	\$433,148	27,872	\$15.54	0.6%
Large	All	201707	1 Generic	\$426,248	27,444	\$15.53	1.9%
Large	All	201708	1 Generic	\$418,800	27,024	\$15.50	2.5%
Large	All	201709	1 Generic	\$411,456	26,591	\$15.47	6.5%
Large	All	201710	1 Generic	\$402,299	26,184	\$15.36	6.4%
Large	All	201510	2 Brand	\$720,809	48,754	\$14.78	N/A
Large	All	201511	2 Brand	\$674,923	46,519	\$14.51	N/A
Large	All	201512	2 Brand	\$613,204	44,348	\$13.83	N/A
Large	All	201601	2 Brand	\$618,468	43,180	\$14.32	N/A
Large	All	201602	2 Brand	\$600,256	41,900	\$14.33	N/A
Large	All	201603	2 Brand	\$588,969	40,638	\$14.49	N/A
Large	All	201604	2 Brand	\$584,922	39,268	\$14.90	N/A
Large	All	201605	2 Brand	\$581,223	37,856	\$15.35	N/A
Large	All	201606	2 Brand	\$563,754	36,561	\$15.42	N/A
Large	All	201607	2 Brand	\$516,623	32,837	\$15.73	N/A
Large	All	201608	2 Brand	\$543,511	33,988	\$15.99	N/A
Large	All	201609	2 Brand	\$536,171	32,718	\$16.39	N/A
Large	All	201610	2 Brand	\$513,854	31,455	\$16.34	10.5%
Large	All	201611	2 Brand	\$509,026	30,550	\$16.66	14.8%
Large	All	201612	2 Brand	\$503,426	29,662	\$16.97	22.7%
Large	All	201701	2 Brand	\$490,724	29,349	\$16.72	16.7%
Large	All	201702	2 Brand	\$487,727	29,094	\$16.76	17.0%
Large	All	201703	2 Brand	\$484,423	28,838	\$16.80	15.9%
Large	All	201704	2 Brand	\$489,502	28,703	\$17.05	14.5%
Large	All	201705	2 Brand	\$484,174	28,299	\$17.11	11.4%
Large	All	201706	2 Brand	\$479,468	27,872	\$17.20	11.6%
Large	All	201707	2 Brand	\$472,970	27,444	\$17.23	9.5%
Large	All	201708	2 Brand	\$466,922	27,024	\$17.28	8.0%
Large	All	201709	2 Brand	\$453,245	26,591	\$17.05	4.0%
Large	All	201710	2 Brand	\$455,312	26,184	\$17.39	6.4%

Summary of Historical Rx Claims Broken Out by Rx Category - Total

Size	Product Type	Rolling 12		Allowed	Member Months	Allowed PMPM	Rolling 12
		End Date YYYYMM	Rx Category				Allowed Trend
Large	All	201510	3 Specialty	\$1,325,121	48,754	\$27.18	N/A
Large	All	201511	3 Specialty	\$1,274,083	46,519	\$27.39	N/A
Large	All	201512	3 Specialty	\$1,248,271	44,348	\$28.15	N/A
Large	All	201601	3 Specialty	\$1,249,102	43,180	\$28.93	N/A
Large	All	201602	3 Specialty	\$1,241,340	41,900	\$29.63	N/A
Large	All	201603	3 Specialty	\$1,237,322	40,638	\$30.45	N/A
Large	All	201604	3 Specialty	\$1,164,374	39,268	\$29.65	N/A
Large	All	201605	3 Specialty	\$1,133,716	37,856	\$29.95	N/A
Large	All	201606	3 Specialty	\$1,123,358	36,561	\$30.73	N/A
Large	All	201607	3 Specialty	\$959,048	32,837	\$29.21	N/A
Large	All	201608	3 Specialty	\$963,975	33,988	\$28.36	N/A
Large	All	201609	3 Specialty	\$933,525	32,718	\$28.53	N/A
Large	All	201610	3 Specialty	\$861,108	31,455	\$27.38	0.7%
Large	All	201611	3 Specialty	\$892,199	30,550	\$29.20	6.6%
Large	All	201612	3 Specialty	\$870,531	29,662	\$29.35	4.3%
Large	All	201701	3 Specialty	\$869,871	29,349	\$29.64	2.5%
Large	All	201702	3 Specialty	\$915,821	29,094	\$31.48	6.3%
Large	All	201703	3 Specialty	\$896,852	28,838	\$31.10	2.1%
Large	All	201704	3 Specialty	\$924,680	28,703	\$32.22	8.6%
Large	All	201705	3 Specialty	\$927,646	28,299	\$32.78	9.5%
Large	All	201706	3 Specialty	\$921,077	27,872	\$33.05	7.6%
Large	All	201707	3 Specialty	\$904,424	27,444	\$32.96	12.8%
Large	All	201708	3 Specialty	\$871,441	27,024	\$32.25	13.7%
Large	All	201709	3 Specialty	\$915,820	26,591	\$34.44	20.7%
Large	All	201710	3 Specialty	\$919,486	26,184	\$35.12	28.3%



MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - December 31, 2018

- Exhibit 1 -- Summary of Medical Coplans Offered
- Exhibit 2a -- 3Q 2018 Pricing Trend Assumptions
- Exhibits 2b-2d -- 3Q 2018 Rx Paid Trend Development
- Exhibit 2e -- 4Q 2018 Pricing Trend Assumptions
- Exhibits 2f-2h -- 4Q 2018 Rx Paid Trend Development
- Exhibit 3a -- 3Q 2018 Claim Projection and Proposed Rate Change
- Exhibit 3b -- 4Q 2018 Claim Projection and Proposed Rate Change
- Exhibit 4a -- Medical Manual Rates
- Exhibit 4b -- Medical Rider Rates
- Exhibit 4c -- Rx Rider Rates

Exhibit 1 -- Summary of Medical Coplans Offered

Large Group VT HMO AR44 Rate Filing
 For Effective Dates Beginning Between July 1, 2018 - December 31, 2018

HMO Coplan	2018 Coplan	2017 Coplan	Product Type	In-Network Benefits										Pharmacy
				PCP	SCP	IP (Med/Surg)	ER	OP Surg	DME	Amb	Ded	Coins.	OOP Max	
VT3HMO087ZLN	VE2-087	VE087L	HMO	\$25	\$40	\$500	\$100	\$150	50%	\$100	\$0	0%	\$5,300	Riders Available
VT3HMO089ZLN	VE2-089	VE089L	HMO	\$30	\$50	\$1,000	\$100	\$150	50%	\$100	\$0	0%	\$5,300	Riders Available
VT3HMO091ZLE	VE2-091	VE091L	HyHMO	\$20	\$20	20%	\$100	20%	50%	20%	\$3,000	20%	\$5,300	Riders Available
VT3HMO092ZLE	VE2-092	VE092L	HyHMO	\$20	\$20	20%	\$100	20%	50%	20%	\$1,000	20%	\$2,000	Riders Available
VT3HMO093ZLE	VE2-093	VE093L	HyHMO	\$20	\$20	20%	\$100	20%	50%	20%	\$2,000	20%	\$4,000	Riders Available
VT3HMO095ZLE	VE2-095	VE095L	HyHMO	\$25	\$40	20%	\$100	20%	50%	20%	\$1,000	20%	\$3,000	Riders Available
VT3HMO100ZLE	VE2-100	VE100L	HyHMO	\$25	\$40	20%	\$100	20%	50%	20%	\$2,000	20%	\$4,000	Riders Available
VT3HMO101ZLE	VE2-101	VE101L	HyHMO	\$25	\$40	20%	\$100	20%	50%	20%	\$3,000	20%	\$5,300	Riders Available
VT3HMO103ZLE	VE2-103	VE103L	HyHMO	\$30	\$50	20%	\$100	20%	50%	20%	\$1,000	20%	\$3,000	Riders Available
VT3HMO107ZLE	VE2-107	VE107L	HyHMO	\$30	\$50	20%	\$100	20%	50%	20%	\$3,000	20%	\$5,300	Riders Available
VT3HMO110ZLE	VE2-110	VE110L	HyHMO	\$30	\$30	20%	\$200	20%	50%	20%	\$2,000	20%	\$5,300	Riders Available
VT3HMO116ZLE	VE2-116	VE116L	HyHMO	\$30	\$50	\$0	\$200	\$0	50%	\$0	\$5,000	0%	\$5,300	Riders Available
VT3HMO117ZLE	VE2-117	VE117L	HyHMO	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$5,000	0%	\$5,000	Riders Available
VT3HMO118ZLE	VE2-118	N/A	HyHMO	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	0%	\$4,000	Riders Available
VT3HDH01AXL	VEHD2-01	VEHD-01L	HDHMOagg	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500	0%	\$2,500	\$10/\$30/\$50
VT3HDH02AXL	VEHD2-02	VEHD-02L	HDHMOagg	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500	0%	\$3,500	\$10/\$30/\$50
VT3HDH07AXL	VEHD2-07	VEHD-07L	HDHMOagg	20%	20%	20%	20%	20%	20%	20%	\$1,500	20%	\$3,000	20%/20%/40%
VT3HDH08AXL	VEHD2-08	VEHD-08L	HDHMOagg	20%	20%	20%	20%	20%	20%	20%	\$2,000	20%	\$4,000	20%/20%/40%
VT3HDH09AXL	VEHD2-09	VEHD-09L	HDHMOagg	20%	20%	20%	20%	20%	20%	20%	\$2,500	20%	\$5,000	20%/20%/40%
VT3HDH15AXL	VEHD2-15	VEHD-15L	HDHMOagg	20%	20%	20%	20%	20%	20%	20%	\$2,500	20%	\$5,000	50%
VT3HDH17AXL	VEHD2-17	VEHD-17L	HDHMOagg	\$30	\$50	\$500	\$150	\$200	50%	\$150	\$2,500	0%	\$5,000	\$10/\$30/\$50
VT3HDH19EXLE	VEHD2-19	VEHD-19L	HDHMO	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$5,000	0%	\$5,000	\$0 after Deductible
VT3HDH41EXLE	VEHD2-41	VEHD-41L	HDHMO	\$0	\$0	\$0	\$0	\$0	0%	\$0	\$2,600	0%	\$2,600	\$0 after Deductible
VT3HDH43EXLE	VEHD2-43	VEHD-43L	HDHMO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	0%	\$4,000	\$0 after Deductible
VT3HDH46AXL	VEHD2-46	VEHD-46L	HDHMOagg	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	0%	\$3,000	\$0 after Deductible
VT3HDH50EXLE	VEHD2-50	VEHD-50L	HDHMO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,550	0%	\$6,550	\$0 after Deductible
VT3HDH51EXLE	VEHD2-51	N/A	HDHMO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,650	0%	\$6,650	\$0 after Deductible
VT3HDH52AXL	N/A	N/A	HDHMOagg	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000	30%	\$6,000	30%/30%/50%
VT3HDH53EXLE	N/A	N/A	HDHMO	0	0	\$0	\$0	\$0	0%	\$0	\$7,350	0%	\$7,350	\$0 after Deductible

Exhibit 2a -- Pricing Trend Assumptions -- 3Q Projection

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

Experience Period:	November 1, 2016 - October 31, 2017
Rating Period:	July 1, 2018 - June 30, 2019

Months of Trend	2017	2018	2019	Total
	2	12	6	20

Medical Trend Summary

2017 Annual Trend

	% of Allowed			
	Claims	Unit Cost	Utilization	Total
IP	22.4%	4.2%	0.0%	4.2%
OP and Other Med	46.3%	3.9%	0.0%	3.9%
PHY	31.3%	-2.4%	0.0%	-2.4%
Medical Total		2.0%	0.0%	2.0%

2018 Annual Trend

	% of Allowed			
	Claims	Unit Cost	Utilization	Total
IP	22.5%	5.0%	0.0%	5.0%
OP and Other Med	46.4%	4.7%	0.0%	4.7%
PHY	31.1%	-2.6%	0.0%	-2.6%
Medical Total		2.5%	0.0%	2.5%

2019 Annual Trend

	% of Allowed			
	Claims	Unit Cost	Utilization	Total
IP	23.0%	5.0%	0.0%	5.0%
OP and Other Med	47.4%	4.7%	0.0%	4.7%
PHY	29.5%	-2.6%	0.0%	-2.6%
Medical Total		2.6%	0.0%	2.6%

Leveraging Impact - Large Group Non-HDHP Fee-For-Service Medical Claims

Member Months	13,821				
	Allowed	Coinsurance	Copay	Deductible	Paid*
Experience Period:	\$471.54	\$12.35	\$17.30	\$26.36	\$415.54
20 Months of Trend:	1.041	1.041	1.000	1.000	1.046
Projection Period:	\$491.05	\$12.86	\$17.30	\$26.36	\$434.54
Allowed Trend (Annual)	2.5%				
Paid Trend (Annual)		2.7%			
Leveraging (Annual)		0.3%			

Leveraging Impact - Large Group HDHP Fee-For-Service Medical Claims

Member Months	12,363				
	Allowed	Coinsurance	Copay	Deductible	Paid*
Experience Period:	\$362.40	\$8.41	\$0.00	\$78.27	\$275.71
20 Months of Trend:	1.041	1.041	1.000	1.014	1.049
Projection Period:	\$377.39	\$8.75	\$0.00	\$79.37	\$289.26
Allowed Trend (Annual)	2.5%				
Paid Trend (Annual)		2.9%			
Leveraging (Annual)		0.4%			

Leveraging Impact - Large Group Fee-For-Service Medical Claims

	Allowed	Coinsurance	Copay	Deductible	Paid*
Experience Period:	\$420.01	\$10.49	\$9.13	\$50.87	\$349.52
20 Months of Trend:	1.041	1.041	1.000	1.010	1.047
Projection Period:	\$437.38	\$10.92	\$9.13	\$51.39	\$365.94
Allowed Trend (Annual)	2.5%				
Paid Trend (Annual)		2.8%			
Leveraging (Annual)		0.3%			

ignores impact of removing high cost claims and replacing with pooling charge. Paid projection will not tie out to FFS claim projection on Tab 30 unless these adjustments are taken into account.

Rx Trend Summary

	2017 Trend		2018 Trend		2019 Trend	
	Unit Cost	Utilization	Unit Cost	Utilization	Unit Cost	Utilization
Generic	-8.3%	0.8%	-0.4%	2.7%	4.6%	3.1%
Brand	9.9%	-4.4%	14.9%	2.5%	12.5%	1.4%
Specialty	10.9%	9.6%	6.9%	7.5%	10.6%	7.4%

Exhibit 2b -- Rx Trend Development - 3Q
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MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

Experience Period: November 1, 2016 - October 31, 2017

Paid Through: February 28, 2018

Member Months with Rx Benefit: 26,184

Rx Claim Information	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	9,209	776	124	10,108
Experience Period Allowed PMPM	\$15.36	\$17.39	\$35.12	\$67.87
Experience Period Deductible PMPM	\$2.11	\$0.91	\$0.41	\$3.42
Experience Period Copay PMPM	\$2.49	\$1.35	\$0.20	\$4.04
Experience Period Coinsurance PMPM	\$0.50	\$0.49	\$2.57	\$3.57
Experience Period Cost Sharing PMPM	\$5.10	\$2.75	\$3.18	\$11.03
Experience Period Paid PMPM	\$10.27	\$14.63	\$31.94	\$56.84
Annual Util Trend	1.026	1.015	1.077	1.026
Annual Unit Cost Trend	1.002	1.137	1.084	1.086
Annual Deductible Trend	1.008	1.008	1.008	1.008
Annual Paid Trend	1.033	1.174	1.170	1.147
Months of Trend to Q3 2018	20	20	20	20
Projected Scripts / 1000 as of Q3 2018	9,614	795	140	10,549
Projected Allowed PMPM as of Q3 2018	\$16.11	\$22.06	\$45.44	\$83.60
Projected Deductible PMPM	\$2.14	\$0.92	\$0.41	\$3.47
Projected Copay PMPM	\$2.60	\$1.39	\$0.22	\$4.21
Projected Coinsurance PMPM	\$0.53	\$0.62	\$3.33	\$4.48
Projected Cost Sharing PMPM as of Q3 2018	\$5.26	\$2.93	\$3.97	\$12.16
Projected Paid PMPM as of Q3 2018	\$10.85	\$19.13	\$41.47	\$71.44

Exhibit 2c -- Rx Trend Development - Non-HDHP 3Q

MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

Experience Period: November 1, 2016 - October 31, 2017
Paid Through: February 28, 2018
Member Months with Rx Benefit: 13,821

Rx Claim Information	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	10,824	978	180	11,982
Experience Period Allowed PMPM	\$21.05	\$23.21	\$55.08	\$99.34
Experience Period Deductible PMPM	\$0.00	\$0.00	\$0.00	\$0.00
Experience Period Copay PMPM	\$4.51	\$2.44	\$0.37	\$7.33
Experience Period Coinsurance PMPM	\$0.51	\$0.59	\$4.88	\$5.98
Experience Period Cost Sharing PMPM	\$5.03	\$3.03	\$5.25	\$13.31
Experience Period Paid PMPM	\$16.03	\$20.18	\$49.83	\$86.03
Annual Util Trend	1.026	1.015	1.077	1.026
Annual Unit Cost Trend	1.002	1.137	1.084	1.107
Annual Deductible Trend	1.000	1.000	1.000	1.000
Annual Paid Trend	1.029	1.170	1.168	1.143
Months of Trend to Q3 2018	20	20	20	20
Projected Scripts / 1000 as of Q3 2018	11,301	1,002	203	12,506
Projected Allowed PMPM as of Q3 2018	\$22.07	\$29.45	\$71.26	\$122.77
Projected Deductible PMPM	\$0.00	\$0.00	\$0.00	\$0.00
Projected Copay PMPM	\$4.71	\$2.51	\$0.42	\$7.64
Projected Coinsurance PMPM	\$0.54	\$0.75	\$6.31	\$7.59
Projected Cost Sharing PMPM as of Q3 2018	\$5.25	\$3.25	\$6.73	\$15.23
Projected Paid PMPM as of Q3 2018	\$16.82	\$26.19	\$64.53	\$107.54

Exhibit 2d -- Rx Trend Development - HDHP 3Q

MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

Experience Period: November 1, 2016 - October 31, 2017
Paid Through: February 28, 2018
Member Months: 12,363

Rx Claim Information	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	7,402	550	61	8,014
Experience Period Allowed PMPM	\$9.01	\$10.88	\$12.80	\$32.69
Experience Period Deductible PMPM	\$4.46	\$1.93	\$0.86	\$7.25
Experience Period Copay PMPM	\$0.22	\$0.13	\$0.00	\$0.36
Experience Period Coinsurance PMPM	\$0.49	\$0.38	\$0.00	\$0.87
Experience Period Cost Sharing PMPM	\$5.17	\$2.44	\$0.86	\$8.48
Experience Period Paid PMPM	\$3.83	\$8.44	\$11.94	\$24.21
Annual Util Trend	1.026	1.015	1.077	1.026
Annual Unit Cost Trend	1.002	1.137	1.084	1.054
Annual Deductible Trend	1.008	1.008	1.008	1.008
Annual Paid Trend	1.052	1.187	1.178	1.162
Months of Trend to Q3 2018	20	20	20	20
Projected Scripts / 1000 as of Q3 2018	7,728	564	69	8,361
Projected Allowed PMPM as of Q3 2018	\$9.44	\$13.81	\$16.56	\$39.81
Projected Deductible PMPM	\$4.52	\$1.96	\$0.87	\$7.35
Projected Copay PMPM	\$0.23	\$0.14	\$0.00	\$0.37
Projected Coinsurance PMPM	\$0.51	\$0.48	\$0.00	\$1.00
Projected Cost Sharing PMPM as of Q3 2018	\$5.27	\$2.58	\$0.87	\$8.72
Projected Paid PMPM as of Q3 2018	\$4.17	\$11.23	\$15.69	\$31.09

Exhibit 2e -- Pricing Trend Assumptions -- 4Q Projection

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

Experience Period:	November 1, 2016 - October 31, 2017
Rating Period:	October 1, 2018 - September 30, 2019

Months of Trend	2017	2018	2019	Total
	2	12	9	23

Medical Trend Summary

2017 Annual Trend				
% of Allowed				
	Claims	Unit Cost	Utilization	Total
IP	22.4%	4.2%	0.0%	4.2%
OP and Other Med	46.3%	3.9%	0.0%	3.9%
PHY	31.3%	-2.4%	0.0%	-2.4%
Medical Total		2.0%	0.0%	2.0%

2018 Annual Trend				
% of Allowed				
	Claims	Unit Cost	Utilization	Total
IP	22.5%	5.0%	0.0%	5.0%
OP and Other Med	46.4%	4.7%	0.0%	4.7%
PHY	31.1%	-2.6%	0.0%	-2.6%
Medical Total		2.5%	0.0%	2.5%

2019 Annual Trend				
% of Allowed				
	Claims	Unit Cost	Utilization	Total
IP	23.0%	5.0%	0.0%	5.0%
OP and Other Med	47.4%	4.7%	0.0%	4.7%
PHY	29.5%	-2.6%	0.0%	-2.6%
Medical Total		2.6%	0.0%	2.6%

Leveraging Impact - Large Group Non-HDHP Fee-For-Service Medical Claims						
	Member Months	Allowed	Coinsurance	Copay	Deductible	Paid*
	13,821					
Experience Period:		\$471.54	\$12.35	\$17.30	\$26.36	\$415.54
23 Months of Trend:		1.048	1.048	1.000	1.000	1.053
Projection Period:		\$494.20	\$12.94	\$17.30	\$26.36	\$437.60
Allowed Trend (Annual)		2.5%				
Paid Trend (Annual)						2.7%
Leveraging (Annual)						0.3%

Leveraging Impact - Large Group HDHP Fee-For-Service Medical Claims						
	Member Months	Allowed	Coinsurance	Copay	Deductible	Paid*
	12,363					
Experience Period:		\$362.40	\$8.41	\$0.00	\$78.27	\$275.71
23 Months of Trend:		1.048	1.048	1.000	1.016	1.057
Projection Period:		\$379.81	\$8.81	\$0.00	\$79.55	\$291.45
Allowed Trend (Annual)		2.5%				
Paid Trend (Annual)						2.9%
Leveraging (Annual)						0.4%

Leveraging Impact - Large Group Fee-For-Service Medical Claims					
	Allowed	Coinsurance	Copay	Deductible	Paid*
Experience Period:	\$420.01	\$10.49	\$9.13	\$50.87	\$349.52
23 Months of Trend:	1.048	1.048	1.000	1.012	1.055
Projection Period:	\$440.19	\$10.99	\$9.13	\$51.47	\$368.59
Allowed Trend (Annual)		2.5%			
Paid Trend (Annual)					2.8%
Leveraging (Annual)					0.3%

ignores impact of removing high cost claims and replacing with pooling charge. Paid projection will not tie out to FFS claim projection on Tab 3a unless these adjustments are taken into account.

Rx Trend Summary

	2017 Trend		2018 Trend		2019 Trend	
	Unit Cost	Utilization	Unit Cost	Utilization	Unit Cost	Utilization
Generic	-8.3%	0.8%	-0.4%	2.7%	4.6%	3.1%
Brand	9.9%	-4.4%	14.9%	2.5%	12.5%	1.4%
Specialty	10.9%	9.6%	6.9%	7.5%	10.6%	7.4%

Exhibit 2f -- Rx Trend Development - 4Q
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MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

Experience Period: November 1, 2016 - October 31, 2017

Paid Through: February 28, 2018

Member Months with Rx Benefit: 26,184

<u>Rx Claim Information</u>	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	9,209	776	124	10,108
Experience Period Allowed PMPM	\$15.36	\$17.39	\$35.12	\$67.87
Experience Period Deductible PMPM	\$2.11	\$0.91	\$0.41	\$3.42
Experience Period Copay PMPM	\$2.49	\$1.35	\$0.20	\$4.04
Experience Period Coinsurance PMPM	\$0.50	\$0.49	\$2.57	\$3.57
Experience Period Cost Sharing PMPM	\$5.10	\$2.75	\$3.18	\$11.03
Experience Period Paid PMPM	\$10.27	\$14.63	\$31.94	\$56.84
Annual Util Trend	1.027	1.015	1.076	1.026
Annual Unit Cost Trend	1.008	1.135	1.087	1.107
Annual Deductible Trend	1.008	1.008	1.008	1.008
Annual Paid Trend	1.042	1.172	1.172	1.150
Months of Trend to Q4 2018	23	23	23	23
Projected Scripts / 1000 as of Q4 2018	9,687	798	142	10,627
Projected Allowed PMPM as of Q4 2018	\$16.41	\$22.80	\$47.43	\$86.65
Projected Deductible PMPM	\$2.14	\$0.93	\$0.41	\$3.48
Projected Copay PMPM	\$2.62	\$1.39	\$0.23	\$4.24
Projected Coinsurance PMPM	\$0.54	\$0.64	\$3.48	\$4.66
Projected Cost Sharing PMPM as of Q4 2018	\$5.29	\$2.96	\$4.12	\$12.37
Projected Paid PMPM as of Q4 2018	\$11.12	\$19.84	\$43.32	\$74.28

Exhibit 2g -- Rx Trend Development - Non-HDHP 4Q

MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

Experience Period: November 1, 2016 - October 31, 2017

Paid Through: February 28, 2018

Member Months with Rx Benefit: 13,821

Rx Claim Information	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	10,824	978	180	11,982
Experience Period Allowed PMPM	\$21.05	\$23.21	\$55.08	\$99.34
Experience Period Deductible PMPM	\$0.00	\$0.00	\$0.00	\$0.00
Experience Period Copay PMPM	\$4.51	\$2.44	\$0.37	\$7.33
Experience Period Coinsurance PMPM	\$0.51	\$0.59	\$4.88	\$5.98
Experience Period Cost Sharing PMPM	\$5.03	\$3.03	\$5.25	\$13.31
Experience Period Paid PMPM	\$16.03	\$20.18	\$49.83	\$86.03
Annual Util Trend	1.027	1.015	1.076	1.027
Annual Unit Cost Trend	1.008	1.135	1.087	1.109
Annual Deductible Trend	1.000	1.000	1.000	1.000
Annual Paid Trend	1.037	1.168	1.171	1.146
Months of Trend to Q4 2018	23	23	23	23
Projected Scripts / 1000 as of Q4 2018	11,386	1,005	207	12,599
Projected Allowed PMPM as of Q4 2018	\$22.48	\$30.43	\$74.40	\$127.32
Projected Deductible PMPM	\$0.00	\$0.00	\$0.00	\$0.00
Projected Copay PMPM	\$4.75	\$2.51	\$0.43	\$7.69
Projected Coinsurance PMPM	\$0.55	\$0.77	\$6.59	\$7.90
Projected Cost Sharing PMPM as of Q4 2018	\$5.29	\$3.28	\$7.02	\$15.60
Projected Paid PMPM as of Q4 2018	\$17.19	\$27.15	\$67.38	\$111.72

Exhibit 2h -- Rx Trend Development - HDHP 4Q

MVP Health Care -- Q3 & Q4 2018 LG HMO Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

Experience Period: November 1, 2016 - October 31, 2017
Paid Through: February 28, 2018
Member Months: 12,363

<u>Rx Claim Information</u>	Generic	Brand	Specialty	Total
Experience Period Scripts / 1000	7,402	550	61	8,014
Experience Period Allowed PMPM	\$9.01	\$10.88	\$12.80	\$32.69
Experience Period Deductible PMPM	\$4.46	\$1.93	\$0.86	\$7.25
Experience Period Copay PMPM	\$0.22	\$0.13	\$0.00	\$0.36
Experience Period Coinsurance PMPM	\$0.49	\$0.38	\$0.00	\$0.87
Experience Period Cost Sharing PMPM	\$5.17	\$2.44	\$0.86	\$8.48
Experience Period Paid PMPM	\$3.83	\$8.44	\$11.94	\$24.21
Annual Util Trend	1.027	1.015	1.076	1.026
Annual Unit Cost Trend	1.008	1.135	1.087	1.099
Annual Deductible Trend	1.008	1.008	1.008	1.008
Annual Paid Trend	1.066	1.184	1.181	1.165
Months of Trend to Q4 2018	23	23	23	23
Projected Scripts / 1000 as of Q4 2018	7,786	566	70	8,423
Projected Allowed PMPM as of Q4 2018	\$9.62	\$14.27	\$17.29	\$41.18
Projected Deductible PMPM	\$4.53	\$1.96	\$0.88	\$7.37
Projected Copay PMPM	\$0.24	\$0.14	\$0.00	\$0.37
Projected Coinsurance PMPM	\$0.52	\$0.50	\$0.00	\$1.02
Projected Cost Sharing PMPM as of Q4 2018	\$5.29	\$2.60	\$0.88	\$8.77
Projected Paid PMPM as of Q4 2018	\$4.33	\$11.67	\$16.41	\$32.42

Exhibit 3a -- Claim Projection & Proposed Rate Change
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Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

LG HMO Claim Projection and Proposed Rate Change

Experience Period: November 1, 2016 - October 31, 2017

Completed Through: February 28, 2018

Experience Period Member Months	26,184
1) Experience Period Medical Claims PMPM	\$328.52
1a) Claims in Excess of \$100k over Experience Period	\$41.09
1b) Pooling Charge	1.0916
2) IBNR Factor	1.064
3) Experience Period Incurred Medical Claims = [1) - 1a)] * 1b) * 2)	\$333.81
4) Annual Medical Trend <i>Includes Paid Leveraging</i>	1.028
5) Months of Trend to Q3 2018	20
6) NY State HCRA Surcharge	0.25%
7) Trended Incurred Medical Claims PMPM as of Q3 2018 = [3) * 4) ^ [5) / 12]] * [1 + 6)]	\$350.37
8) Experience Period Rx Claims PMPM	\$56.84
8a) Rx Claims in Excess of \$100k over Experience Period	\$6.30
8b) Pooling Charge	1.0916
8c) Pharmacy Benefit Carve-in	\$0.35
9) Annual Rx Trend <i>Includes Paid Leveraging</i>	1.147
10) Months of Trend to Q3 2018	20
11) Trended Gross Rx Claims PMPM as of Q3 2018 = [8) - 8a) + 8c)] * 8b) * [9)] ^ [10) / 12]	\$69.82
11a) Rx Rebates	(\$18.98)
12) Trended Net Rx Claims PMPM as of Q3 2018 = 11) + 11a)	\$50.84
13) Capitations and Non-FFS Claim Expenses	\$7.15
14a) Industry Normalization Factor	0.979
14b) Impact of Membership Growth/Decline on Experience Pd Claims	0.998
15) Total Claim Cost as of Q3 2018 = [[7) + 11)] * 14a) * 14b)] + 13)	\$399.34
16) Projected Net Revenue Collected at Q2 2018 Rate Level	\$368.65
17) Proposed Quarterly Rate Change = 15) / 16) - 1	8.3%

Exhibit 3b -- Claim Projection & Proposed Rate Change
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Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

LG HMO Claim Projection and Proposed Rate Change

Experience Period: November 1, 2016 - October 31, 2017
Completed Through: February 28, 2018

Experience Period Member Months	26,184	
1) Experience Period Medical Claims PMPM	\$328.52	
1a) Claims in Excess of \$100k over Experience Period	\$41.09	
1b) Pooling Charge	1.0916	
2) IBNR Factor	1.064	
3) Experience Period Incurred Medical Claims = [1) - 1a)] * 1b) * 2)	\$333.81	
4) Annual Medical Trend <i>Includes Paid Leveraging</i>	1.028	
5) Months of Trend to Q4 2018	23	
6) NY State HCRA Surcharge	0.25%	
7) Trended Incurred Medical Claims PMPM as of Q4 2018 = [3) * 4) ^ [5) / 12]] * [1 + 6)]	\$352.91	
8) Experience Period Rx Claims PMPM	\$56.84	
8a) Rx Claims in Excess of \$100k over Experience Period	\$6.30	
8b) Pooling Charge	1.0916	
8c) Pharmacy Benefit Carve-in	\$0.35	
9) Annual Rx Trend <i>Includes Paid Leveraging</i>	1.150	
10) Months of Trend to Q4 2018	23	
11) Trended Gross Rx Claims PMPM as of Q4 2018 = [8) - 8a) + 8c)] * 8b) * [9)] ^ [10) / 12]	\$72.59	
11a) Rx Rebates	(\$19.19)	
12) Trended Net Rx Claims PMPM as of Q4 2018 = 11) + 11a)	\$53.40	
13) Capitations and Non-FFS Claim Expenses	\$7.15	
14a) Industry Normalization Factor	0.979	
14b) Impact of Membership Growth/Decline on Experience Pd Clai	0.998	
15) Total Claim Cost as of Q4 2018 = [[7) + 11)] * 14a) * 14b)] + 13)	\$404.33	
16) Projected Claim Cost Q3 2018 <i>Based on distribution of experience period members</i>	\$399.34	
17) Proposed Quarterly Rate Change = 15) / 16) - 1	<table border="1"> <tr> <td>1.2%</td> </tr> </table>	1.2%
1.2%		

Exhibit 4a -- Medical Manual Rates (Q3 2018)

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

HMO Coplan	2018 Coplan	2017 Coplan	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate	Annual Revenue Change
VT3HMO087ZLN	VE2-087	VE087L	HMO	\$463.73	8.3%	8.3%	3.8%
VT3HMO089ZLN	VE2-089	VE089L	HMO	\$449.47	8.3%	8.3%	3.8%
VT3HMO091ZLE	VE2-091	VE091L	HyHMO	\$365.39	8.3%	8.3%	3.8%
VT3HMO092ZLE	VE2-092	VE092L	HyHMO	\$418.14	8.3%	8.3%	3.8%
VT3HMO093ZLE	VE2-093	VE093L	HyHMO	\$382.49	8.3%	8.3%	3.8%
VT3HMO095ZLE	VE2-095	VE095L	HyHMO	\$401.01	8.3%	8.3%	3.8%
VT3HMO100ZLE	VE2-100	VE100L	HyHMO	\$376.76	8.3%	8.3%	3.8%
VT3HMO101ZLE	VE2-101	VE101L	HyHMO	\$359.08	8.3%	8.3%	3.8%
VT3HMO103ZLE	VE2-103	VE103L	HyHMO	\$395.30	8.3%	8.3%	3.8%
VT3HMO107ZLE	VE2-107	VE107L	HyHMO	\$355.41	8.3%	8.3%	3.8%
VT3HMO110ZLE	VE2-110	VE110L	HyHMO	\$365.39	8.3%	8.3%	3.8%
VT3HMO116ZLE	VE2-116	VE116L	HyHMO	\$356.62	8.3%	8.3%	3.8%
VT3HMO117ZLE	VE2-117	VE117L	HyHMO	\$265.19	8.3%	8.3%	3.8%
VT3HMO118ZLE	VE2-118	N/A	HyHMO	\$311.42	8.3%	N/A	N/A
VT3HDH01AXL	VEHD2-01	VEHD-01L	HDHMOagg	\$420.11	8.3%	8.3%	3.8%
VT3HDH02AXL	VEHD2-02	VEHD-02L	HDHMOagg	\$374.66	8.3%	8.3%	3.8%
VT3HDH07AXL	VEHD2-07	VEHD-07L	HDHMOagg	\$375.02	8.3%	8.3%	3.8%
VT3HDH08AXL	VEHD2-08	VEHD-08L	HDHMOagg	\$343.90	8.3%	8.3%	3.8%
VT3HDH09AXL	VEHD2-09	VEHD-09L	HDHMOagg	\$321.76	8.3%	8.3%	3.8%
VT3HDH15AXL	VEHD2-15	VEHD-15L	HDHMOagg	\$324.36	8.3%	8.3%	3.8%
VT3HDH17AXL	VEHD2-17	VEHD-17L	HDHMOagg	\$338.32	8.3%	8.3%	3.8%
VT3HDH19EXLE	VEHD2-19	VEHD-19L	HDHMO	\$308.09	8.3%	8.3%	3.8%
VT3HDH41EXLE	VEHD2-41	VEHD-41L	HDHMO	\$372.03	8.3%	7.0%	2.6%
VT3HDH43EXLE	VEHD2-43	VEHD-43L	HDHMO	\$330.32	8.3%	8.3%	3.8%
VT3HDH46AXL	VEHD2-46	VEHD-46L	HDHMOagg	\$347.52	8.3%	8.3%	3.8%
VT3HDH50EXLE	VEHD2-50	VEHD-50L	HDHMO	\$281.20	8.3%	8.3%	3.8%
VT3HDH51EXLE	VEHD2-51	N/A	HDHMO	\$279.31	8.3%	N/A	N/A
VT3HDH52AXL	N/A	N/A	HDHMOagg	\$293.72	N/A	N/A	N/A
VT3HDH53EXLE	N/A	N/A	HDHMO	\$270.37	N/A	N/A	N/A

Exhibit 4a -- Medical Manual Rates (Q4 2018)

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

HMO Coplan	2018 Coplan	2017 Coplan	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate Change	Annual Revenue Change
VT3HMO087	VE2-087	VE087L	HMO	\$469.29	1.2%	7.7%	2.8%
VT3HMO089	VE2-089	VE089L	HMO	\$454.86	1.2%	7.7%	2.8%
VT3HMO091	VE2-091	VE091L	HyHMO	\$369.77	1.2%	7.7%	2.8%
VT3HMO092	VE2-092	VE092L	HyHMO	\$423.16	1.2%	7.7%	2.8%
VT3HMO093	VE2-093	VE093L	HyHMO	\$387.08	1.2%	7.7%	2.8%
VT3HMO095	VE2-095	VE095L	HyHMO	\$405.82	1.2%	7.7%	2.8%
VT3HMO100	VE2-100	VE100L	HyHMO	\$381.28	1.2%	7.7%	2.8%
VT3HMO101	VE2-101	VE101L	HyHMO	\$363.39	1.2%	7.7%	2.8%
VT3HMO103	VE2-103	VE103L	HyHMO	\$400.04	1.2%	7.7%	2.8%
VT3HMO107	VE2-107	VE107L	HyHMO	\$359.67	1.2%	7.7%	2.8%
VT3HMO110	VE2-110	VE110L	HyHMO	\$369.77	1.2%	7.7%	2.8%
VT3HMO116	VE2-116	VE116L	HyHMO	\$360.90	1.2%	7.7%	2.8%
VT3HMO117	VE2-117	VE117L	HyHMO	\$268.37	1.2%	7.7%	2.8%
VT3HMO118	VE2-118	N/A	HyHMO	\$315.16	1.2%	N/A	N/A
VT3HDH01AX	VEHD2-01	VEHD-01L	HDHMOagg	\$425.15	1.2%	7.7%	2.8%
VT3HDH02AX	VEHD2-02	VEHD-02L	HDHMOagg	\$379.16	1.2%	7.7%	2.8%
VT3HDH07AX	VEHD2-07	VEHD-07L	HDHMOagg	\$379.52	1.2%	7.7%	2.8%
VT3HDH08AX	VEHD2-08	VEHD-08L	HDHMOagg	\$348.03	1.2%	7.7%	2.8%
VT3HDH09AX	VEHD2-09	VEHD-09L	HDHMOagg	\$325.62	1.2%	7.7%	2.8%
VT3HDH15AX	VEHD2-15	VEHD-15L	HDHMOagg	\$328.25	1.2%	7.7%	2.8%
VT3HDH17AX	VEHD2-17	VEHD-17L	HDHMOagg	\$342.38	1.2%	7.7%	2.8%
VT3HDH19EX	VEHD2-19	VEHD-19L	HDHMO	\$311.79	1.2%	7.7%	2.8%
VT3HDH41EX	VEHD2-41	VEHD-41L	HDHMO	\$376.49	1.2%	6.4%	1.6%
VT3HDH43EX	VEHD2-43	VEHD-43L	HDHMO	\$334.28	1.2%	7.7%	2.8%
VT3HDH46AX	VEHD2-46	VEHD-46L	HDHMOagg	\$351.69	1.2%	7.7%	2.8%
VT3HDH50EX	VEHD2-50	VEHD-50L	HDHMO	\$284.57	1.2%	7.7%	2.8%
VT3HDH51EX	VEHD2-51	N/A	HDHMO	\$282.66	1.2%	N/A	N/A
VT3HDH52AX	N/A	N/A	HDHMOagg	\$297.24	1.2%	N/A	N/A
VT3HDH53EX	N/A	N/A	HDHMO	\$273.61	1.2%	N/A	N/A

Exhibit 4b -- Medical Riders (Q3 2018)

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

HMO Rider	2018 Rider	2017 Rider	Description	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate
YV3HMB301L	V2-301	V301	Vision Exam 1 Every 2 Calendar Yr	HMO	\$3.75	8.4%	8.3%
MV3HMB305L	V2-305L	V305L	Advanced Infertility Services - (Large Only)	HMO	\$5.01	8.2%	8.1%
MV3HMB306L	V2-306	V306	60 Visits Outpatient Physical/Speech/Occupational Therapy	HMO	\$4.72	8.3%	8.2%
MV3HMB307L	V2-307	V307	Exclusion For Elective Abortions	HMO	(\$0.19)	5.6%	0.9%
MV3HMB309L-c	V2-309L-c	V309L-c	Outpatient X-Ray Covered At 100% (Not High Tech) - \$1000 Ded; 2x OOP Max plar	HMO	\$4.05	8.3%	8.2%
MV3HMB309L-d	V2-309L-d	V309L-d	Outpatient X-Ray Covered At 100% (Not High Tech) - \$1000 Ded; 3x OOP Max plar	HMO	\$4.66	8.4%	8.4%
MV3HMB309L-e	V2-309L-e	V309L-e	Outpatient X-Ray Covered At 100% (Not High Tech) - \$2000 Ded; 2x OOP Max plar	HMO	\$9.39	8.3%	8.4%
MV3HMB309L-f	V2-309L-f	V309L-f	Outpatient X-Ray Covered At 100% (Not High Tech) - \$2000 Ded; 3x OOP Max plar	HMO	\$9.92	8.3%	8.4%
MV3HMB309L-g	V2-309L-g	V309L-g	Outpatient X-Ray Covered At 100% (Not High Tech) - \$3000+ Ded; 2x OOP Max plar	HMO	\$13.39	8.3%	8.4%
YV3HMB310L	V2-310	V310	Annual Vision Exam - Per Calendar Yr	HMO	\$6.94	8.3%	8.4%
DV3HMB312L	V2-312	V312	Dme, External Pros/Ostomy Buy - Up To 80%	HMO	\$0.91	8.3%	7.4%
MV3HMB316L	V2-316	V316	Disposable Medical Supplies	HMO	\$1.03	8.4%	8.2%
MV3HMB317L	V2-317	V317	Changes Contract Yr To Calendar Year	HMO	\$0.00	n/a	n/a
MV3HMB356L	V2-356	V356	Deductible Carryover Rider	HMO	\$4.39	8.4%	n/a
GV3HMB700L	V2-700	V700	Domestic Partners (Same And Opp Sex)	HMO	\$0.00	n/a	n/a
YV3HHDH312L	VEHD2-312	VEHD 312	Exam & Hardware	HDHMO	0.5%	n/a	n/a
MV3HHDH305L	VHD2-305L	VHD305L	Advanced Infertility Services - (Large Only)	HDHMO	\$4.96	8.3%	8.3%
MV3HHDH306L	VHD2-306	VHD306	60 Visits Outpatient Physical/Speech/Occupational Therapy	HDHMO	\$5.04	8.4%	8.3%
MV3HHDH307L	VHD2-307	VHD307	Exclusion For Elective Abortions	HDHMO	(\$0.17)	6.3%	8.3%
MV3HHDH316L	VHD2-316	VHD316	Disposable Medical Supplies	HDHMO	\$0.67	8.1%	8.6%
MV3HHDH317L	VHD2-317	VHDC317	Changes Contract Yr To Calendar Year	HDHMO	\$0.00	n/a	n/a
YV3HHDH346L	VHD2-346	New Rider for 2018	Annual Vision Exam - Per Calendar Yr	HDHMO	\$6.94	8.3%	n/a
MV3HHDH356L	VHD2-356	VHD356L	Deductible Carryover Rider	HDHMO	\$8.78	8.3%	n/a
GV3HHDH700L	VHD700	VHD700	Domestic Partners (Same And Opp Sex)	HDHMO	\$0.00	n/a	n/a
RXVT3HHDH510L-a	VHD2-510-a	VHD510-a	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH01AXL)	HDHMO	\$1.75	8.0%	7.9%
RXVT3HHDH510L-b	VHD2-510-b	VHD510-b	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH02AXL)	HDHMO	\$4.64	8.4%	8.5%
RXVT3HHDH510L-g	VHD2-510-g	VHD510-g	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH07AXL)	HDHMO	\$2.80	8.1%	8.4%
RXVT3HHDH510L-h	VHD2-510-h	VHD510-h	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH08AXL)	HDHMO	\$3.68	8.2%	8.3%
RXVT3HHDH510L-i	VHD2-510-i	VHD510-i	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH09AXL)	HDHMO	\$5.57	8.4%	8.5%
RXVT3HHDH510L-o	VHD2-510-o	VHD510-o	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH15AXL)	HDHMO	\$3.70	8.2%	8.2%
RXVT3HHDH510L-q	VHD2-510-q	VHD510-q	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH17AXL)	HDHMO	\$4.64	8.4%	8.5%
RXVT3HHDH510L-s	VHD2-510-s	VHD510-s	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH19EXLE)	HDHMO	\$14.78	8.3%	8.4%
RXVT3HHDH510L-aa	VHD2-510-aa	VHD510-aa	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH41EXLE)	HDHMO	\$7.29	8.3%	12.6%
RXVT3HHDH510L-ac	VHD2-510-ac	VHD510-ac	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH43EXLE)	HDHMO	\$10.92	8.3%	8.3%
RXVT3HHDH510L-af	VHD2-510-af	VHD510-af	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH46AXL)	HDHMO	\$8.22	8.3%	8.2%
RXVT3HHDH510L-ak	VHD2-510-ak	VHD510-ak	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH50EXLE)	HDHMO	\$16.91	8.3%	8.4%
RXVT3HHDH510L-al	VHD2-510-al	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH51EXLE)	HDHMO	\$17.99	8.3%	n/a
RXVT3HHDH510L-am	New Rider for	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH52AXL)	HDHMO	\$6.59	n/a	n/a
RXVT3HHDH510L-an	New Rider for	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH53EXLE)	HDHMO	\$18.01	n/a	n/a

Exhibit 4b -- Medical Riders (Q4 2018)

Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

HMO Rider	2018 Rider	2017 Rider	Description	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate Change
YV3HMB301L	V2-301	V301	Vision Exam 1 Every 2 Calendar Yr	HMO	\$3.80	1.3%	8.0%
MV3HMB305L	V2-305L	V305L	Advanced Infertility Services - (Large Only)	HMO	\$5.07	1.2%	7.4%
MV3HMB306L	V2-306	V306	60 Visits Outpatient Physical/Speech/Occupational Therapy	HMO	\$4.78	1.3%	7.7%
MV3HMB307L	V2-307	V307	Exclusion For Elective Abortions	HMO	(\$0.19)	0.0%	0.0%
MV3HMB309L-c	V2-309L-c	V309L-c	Outpatient X-Ray Covered At 100% (Not High Tech) - \$1000 Ded; 2x OOP Max plar	HMO	\$4.10	1.2%	7.6%
MV3HMB309L-d	V2-309L-d	V309L-d	Outpatient X-Ray Covered At 100% (Not High Tech) - \$1000 Ded; 3x OOP Max plar	HMO	\$4.72	1.3%	7.8%
MV3HMB309L-e	V2-309L-e	V309L-e	Outpatient X-Ray Covered At 100% (Not High Tech) - \$2000 Ded; 2x OOP Max plar	HMO	\$9.50	1.2%	7.7%
MV3HMB309L-f	V2-309L-f	V309L-f	Outpatient X-Ray Covered At 100% (Not High Tech) - \$2000 Ded; 3x OOP Max plar	HMO	\$10.04	1.2%	7.7%
MV3HMB309L-g	V2-309L-g	V309L-g	Outpatient X-Ray Covered At 100% (Not High Tech) - \$3000+ Ded; 2x OOP Max plar	HMO	\$13.55	1.2%	7.7%
YV3HMB310L	V2-310	V310	Annual Vision Exam - Per Calendar Yr	HMO	\$7.02	1.2%	7.7%
DV3HMB312L	V2-312	V312	Dme, External Pros/Ostomy Buy - Up To 80%	HMO	\$0.92	1.1%	7.0%
MV3HMB316L	V2-316	V316	Disposable Medical Supplies	HMO	\$1.04	1.0%	7.2%
MV3HMB317L	V2-317	V317	Changes Contract Yr To Calendar Year	HMO	\$0.00	n/a	n/a
MV3HMB356L	V2-356	V356	Deductible Carryover Rider	HMO	\$4.44	1.1%	n/a
GV3HMB700L	V2-700	V700	Domestic Partners (Same And Opp Sex)	HMO	\$0.00	n/a	n/a
YV3HHD312L	VEHD2-312	VEHD 312	Exam & Hardware	HDHMO	0.5%	n/a	n/a
MV3HHD305L	VHD2-305L	VHD305L	Advanced Infertility Services - (Large Only)	HDHMO	\$5.02	1.2%	7.7%
MV3HHD306L	VHD2-306	VHD306	60 Visits Outpatient Physical/Speech/Occupational Therapy	HDHMO	\$5.10	1.2%	7.6%
MV3HHD307L	VHD2-307	VHD307	Exclusion For Elective Abortions	HDHMO	(\$0.17)	0.0%	6.3%
MV3HHD316L	VHD2-316	VHD316	Disposable Medical Supplies	HDHMO	\$0.68	1.5%	7.9%
MV3HHD317L	VHD2-317	VHDC317	Changes Contract Yr To Calendar Year	HDHMO	\$0.00	n/a	n/a
YV3HHD346L	VHD2-346	New Rider for 2018	Annual Vision Exam - Per Calendar Yr	HDHMO	\$7.02	1.2%	n/a
MV3HHD356L	VHD2-356	VHD356L	Deductible Carryover Rider	HDHMO	\$8.89	1.3%	n/a
GV3HHD700L	VHD700	VHD700	Domestic Partners (Same And Opp Sex)	HDHMO	\$0.00	n/a	n/a
RXVT3HHDH510L-a	VHD2-510-a	VHD510-a	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH01AXL)	HDHMO	\$1.77	1.1%	7.3%
RXVT3HHDH510L-b	VHD2-510-b	VHD510-b	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH02AXL)	HDHMO	\$4.70	1.3%	7.8%
RXVT3HHDH510L-g	VHD2-510-g	VHD510-g	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH07AXL)	HDHMO	\$2.83	1.1%	7.6%
RXVT3HHDH510L-h	VHD2-510-h	VHD510-h	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH08AXL)	HDHMO	\$3.72	1.1%	7.5%
RXVT3HHDH510L-i	VHD2-510-i	VHD510-i	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH09AXL)	HDHMO	\$5.64	1.3%	7.8%
RXVT3HHDH510L-o	VHD2-510-o	VHD510-o	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH15AXL)	HDHMO	\$3.74	1.1%	7.5%
RXVT3HHDH510L-q	VHD2-510-q	VHD510-q	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH17AXL)	HDHMO	\$4.70	1.3%	7.8%
RXVT3HHDH510L-s	VHD2-510-s	VHD510-s	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH19EXLE)	HDHMO	\$14.96	1.2%	7.7%
RXVT3HHDH510L-aa	VHD2-510-aa	VHD510-aa	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH41EXLE)	HDHMO	\$7.38	1.2%	12.0%
RXVT3HHDH510L-ac	VHD2-510-ac	VHD510-ac	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH43EXLE)	HDHMO	\$11.05	1.2%	7.7%
RXVT3HHDH510L-af	VHD2-510-af	VHD510-af	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH46AXL)	HDHMO	\$8.32	1.2%	7.6%
RXVT3HHDH510L-ak	VHD2-510-ak	VHD510-ak	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH50EXLE)	HDHMO	\$17.11	1.2%	7.7%
RXVT3HHDH510L-al	VHD2-510-al	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH51EXLE)	HDHMO	\$18.21	1.2%	n/a
RXVT3HHDH510L-am	New Rider for New Rider for 2018	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH52AXL)	HDHMO	\$6.67	1.2%	n/a
RXVT3HHDH510L-an	New Rider for New Rider for 2018	New Rider for 2018	Safe Harbor preventative Rx list for qualified HDHP's (VT3HHDH53EXLE)	HDHMO	\$18.23	1.2%	n/a

Exhibit 4c -- Rx Riders (Q3 2018)
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Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between July 1, 2018 - September 30, 2018

HMO Rider	2018 Rider	2017 Rider	Description	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate Change
RXVT3HMB500ZL V2-500	V500	V500	\$10/\$30/\$50	HMO	\$50.68	8.3%	8.3%
RXVT3HMB501ZL V2-501	V501	V501	\$10/30%/50%	HMO	\$44.45	8.3%	8.4%
RXVT3HMB502ZL V2-502	V502	V502	50%	HMO	\$39.65	8.3%	8.3%
RXVT3HMB605ZL V2-605	V605	V605	\$5/\$45/\$90 - \$250 Brand Ded	HMO	\$45.25	8.3%	8.3%
RXVT3HDH550L V2-550L	V550L	V550L	Removes MAC Pricing	HMO	\$0.83	7.8%	7.8%
RXVT3HDH551L V2-551L	V551L	V551L	Change mail copay from 2.5 to 2.0	HMO	\$0.35	9.4%	9.4%

Exhibit 4c -- Rx Riders (Q4 2018)
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Large Group VT HMO AR44 Rate Filing
For Effective Dates Beginning Between October 1, 2018 - December 31, 2018

HMO Rider	2018 Rider	2017 Rider	Description	Product Type	Net Required Revenue PMPM	Quarterly Change	Annual Manual Rate Change
RXVT3HMB500ZL V2-500	V500	V500	\$10/\$30/\$50	HMO	\$51.29	1.2%	7.7%
RXVT3HMB501ZL V2-501	V501	V501	\$10/30%/50%	HMO	\$44.98	1.2%	7.7%
RXVT3HMB502ZL V2-502	V502	V502	50%	HMO	\$40.13	1.2%	7.7%
RXVT3HMB605ZL V2-605	V605	V605	\$5/\$45/\$90 - \$250 Brand Ded	HMO	\$45.79	1.2%	7.7%
RXVT3HDH550L V2-550L	V550L	V550L	Removes MAC Pricing	HMO	\$0.84	1.2%	7.7%
RXVT3HDH551L V2-551L	V551L	V551L	Change mail copay from 2.5 to 2.0	HMO	\$0.35	0.0%	6.1%

MVP Health Plan (“MVPHP”) Experience Rated Addendum – 3Q/4Q 2018 Effective Dates

This document is an Addendum to MVP’s 3Q/4Q 2018 Manual Rate Filing and Experience Rating Formula for products sold to employer groups with 100 or more employees in the State of Vermont under MVP’s HMO license. This addendum and its appendices outline the rating factors discussed in the Experience Rating Formula. These factors are being filed as an addendum to the Manual Rate and Formula filings so they can be updated as deemed necessary by MVP without having to re-file the rating methodology.

Whenever possible, the rating factors contained herein will be based on actual MVP experience or they will be normalized to MVP’s population.

BASE MANUAL RATES

Please see Exhibits 4a (base manual rates), 4b (medical riders), and 4c (Rx riders) of the accompanying manual rate filing for the net PMPMs of plans and riders being offered by MVP for 3Q/4Q 2018 effective dates. Please See Exhibit 1 in the MVPHIC rate filing for the POS out of network riders filed on MVP Health Insurance Company for 3Q/4Q 2018 effective dates.

SIC FACTORS

The industry factors in Appendix A will be applied to the manual rates based on the employer’s industry.

DEMOGRAPHIC FACTORS

To more closely resemble the health risk of the employer’s insured population, the manual pure premium will be adjusted to reflect differences in the demographic characteristics of a specific employer group compared to MVP’s community pool for the chosen product. This demographic factor will be applied to both the base rate and riders.

With respect to the employer specific experience rate, there may be a situation where MVP will be the sole health plan offering and be required to adjust the experience to reflect anticipated health characteristics of the entire group versus just MVP’s members who were enrolled in the previous year under a slice product offering. In this situation, MVP will develop a demographic factor relative of the entire group and compare that to the demographics of their existing employer membership.

The demographic factors are in Appendix B. A per member demographic factor is calculated as the weighted average subscriber age/sex factor / weighted average subscriber average contract size.

For members that are considered to have Medicare as their primary coverage, a downward adjustment factor will be applied to the member’s demographic factor to reflect the reduced claim liability. This factor is in Appendix B.

HRA/HSA DEDUCTIBLE FUNDING FACTORS

The additional risk charge applies when a group funds a plan deductible. The charge is intended to account for the anticipated increase in utilization of services due to the resulting ‘first dollar’ coverage provided. The manual rate adjustment factors are in Appendix C.

POOLING CHARGES

Each group is charged a pooling fee and fee-for-service medical and Rx claims above the applicable attachment point are removed from their claim data. The charge is based on the following table:

Pooling Level	2018 Pooling Charge
\$80,000	11.98%
\$85,000	11.11%
\$90,000	10.37%
\$100,000	9.16%
\$125,000	7.14%
\$150,000	5.75%
\$175,000	4.70%
\$200,000	3.94%
\$250,000	2.91%
\$300,000	2.16%
\$350,000	1.68%
\$400,000	1.26%
\$450,000	0.84%
\$500,000	0.52%

Group size will be considered when selecting the appropriate pooling charge. The max pool level is the maximum amount MVP will allow for a given group size:

Avg. Subscribers	Max Pool Level
Up to 299	\$100,000
300-499	\$150,000
500-999	\$200,000
1,000-1,499	\$250,000
1,500-2,499	\$350,000
2,500 and up	\$450,000

TREND FACTORS

The following trends are used to project historical experience of the group to the proposed rating period. Exhibit 1 and Exhibit 2 are developed by applying the appropriate pro-rated calendar year trend factors from the midpoint of the experience period to the midpoint of the rating period. Paid trends are calculated by multiplying the applicable allowed trend times the leveraging factor.

Year	Allowed Medical Trend	Pharmacy Trend
2017	2.0%	10.2%
2018	2.5%	12.9%
2019 & Beyond	2.6%	15.3%

Annual Leveraging Factor	0.3%
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NETWORK ADJUSTMENT FACTOR

This adjustment reflects changes with respect to the differences in network providers, contractual provider reimbursement rates, the degree of medical management for MVP versus other carriers, gatekeeper versus no gatekeeper, and referral versus open access. For those accounts enrolled in MVP, this factor will primarily represent differences in provider contractual arrangements. If the experience is coming from another carrier, the adjustment may reflect all of the items above. MVP will make every effort to develop actuarial adjustments that properly determine the appropriate factor to reflect the expected experience of the group.

The development of such a factor will be documented in the underwriter's group file and will be made available to in Insurance Department's actuaries and/or examiners on request.

BENEFIT ADJUSTMENT FACTOR

The purpose of the benefit adjustment is to reflect any difference between the benefits inherent in the group's historical claims experience period and the group's expected benefit plan for the prospective benefit period. This includes medical benefits and pharmacy benefits.

Based on filed manual rates, the underwriter will determine the value of the benefit adjustment factor by analyzing the actuarial equivalent difference in benefits. As it relates to a new group having experience from another carrier, the underwriter will use their best efforts to match up prior benefits to a currently filed benefit to determine the actuarial equivalent difference in benefits. In some cases, this may require interpolating between two manual rates, extrapolating from the filed manual rates, using other sources such as the Milliman USA guidelines, or other internal pricing models.

Other adjustments in this category may include benefit mandates. That is, mandated benefits that will be included in the future benefits, but not reflected in the group's experience.

The development of such a factor will be documented in the underwriter's group file and will be made available to in Insurance Department's actuaries and/or examiners on request.

PHARMACY REBATE FACTOR

Pharmacy rebates are received periodically. The pharmacy rebate factor of 0.79 is used to account for this reduction in pharmacy costs and reflects MVP's estimated pharmacy rebates received for 2018 dates of service. This reduction will only apply if the paid pharmacy claims do not already reflect pharmacy rebates. In the case where the employer group is not a MVP group, the underwriter will determine if the claims data provided includes or excludes rebates from the other carrier.

PERIOD WEIGHT

Period Weight is determined by the underwriter. The underwriters follow a general protocol for deriving the weights to apply for the Period Weight portion of the experience rating formula. Most groups are rated using 12 months of historical data and therefore, the period weights are not applicable. For the smaller of the large groups, the underwriter will consider extending the historical look back to 24 months if the data is available in order to provide a more stable block of data from which to do the rating. In these cases, the underwriter will generally give an 80% weight to the most recent 12 months of data and a 20% weight to the prior period of data. These weights may vary and could be 50% / 50% if the underwriter feels more weight should be given to the older data. This may be the case if the current 12 months are exceptionally higher or lower than the prior period.

CREDIBILITY WEIGHT

Based on MVP's product guidelines for offering a prospective experience rate, an employer must have (or project) a minimum of 100 eligible employees for the proposed rating period. However, consistent with industry rating practices, smaller sized experience rated groups should not be considered as producing 100% credible claims information. To protect the employer from significant rate fluctuation from year to year, MVP will be applying a credibility weight to the group's claim experience.

In determining a group's quoted rate, a weight will be given to the group's claims experience based on the number of member months in the experience period. The complement of the weight will be applied to the manual rate. The blended rate is one that will be quoted to the employer group. Below are the base credibility weightings:

Member Month Range	Credibility Factor
0 to 599	0%
600 to 2,400	20%
2,401 to 3,700	30%
3,701 to 4,900	40%
4,901 to 6,100	50%
6,101 to 7,300	60%
7,301 to 8,500	70%
8,501 to 9,700	80%
9,701 to 12,200	90%
12,201 and over	100%

These experience credibility weightings can be adjusted downward based on the underwriter's judgment in the following circumstances:

The employer group has provided less than 12 months of incurred claims data or data is not provided for all services or employees – Generally, a minimum of one full calendar year of incurred claims data for all populations and covered services included in the quote is desired to underwrite a case. In the event less than 12 months of data is available, the underwriter can adjust the credibility table downward, not to be less than 0%.

The employer group has had membership change by 50% or more since the experience period – With a significant membership change, the historical claims experience may no longer represent the group's current population. If the membership has changed by more than 50% from the experience period to the rating period, the underwriter may override the table above to reduce credibility downward, not to be less than 0%.

The most recent experience data provided is too old – Generally, from the mid-point of the experience period to the mid-point of the rating period should not be older than 24 months. If the more recent period of data is older than 24 months, the underwriter may adjust the credibility table downward, not to be less than 0%.

MVP may also make an upward adjustment to the table if the group has a favorable group risk assessment. The credibility percentage will never exceed 100%.

UNDERWRITING JUDGMENT/GROUP RISK ASSESSMENT

Underwriting judgment will be used by the underwriter in determining inputs to the rating formula or to modify the result depending on the circumstances of the case, the data available, or the quality of the available data.

Adjustments may be made due to items such as poor claim and enrollment experience data being presented for new groups, the group's claim trend being historically different than the averages, variability in claims experience, participation levels/group size changes, plan sponsor contribution levels, number of plan offerings, plan sponsor and covered population stability, and plan sponsor persistency. Adjustments may be both positive and negative, but will not be larger than 10% in either direction.

NETWORK ACCESS FEES AND OTHER FEES

MVP has a contracted network access fee with a rental network in the event a group has members that live outside of MVP's service area. The net access fee is \$0 PEPM for just those subscribers who live outside of the service area.

COVERED LIVES ASSESSMENT

This is a New York State assessment passed on to groups in premium rates. The following table reflects actual 2018 assessment rates provided by the state of New York.

Region	2018 Actual	
	Individual	Family
New York City	\$14.03	\$46.29
Long Island	\$4.98	\$16.45
Northern Metro	\$2.88	\$9.49
Northeastern	\$3.29	\$10.87
Utica/Watertown	\$0.69	\$2.29
Central	\$4.58	\$15.12
Rochester	\$8.58	\$28.30
Western	\$3.07	\$10.12

MVP will calculate the CLA with the group information that is available. For example, on a new business case, the number of single contracts by location may not be available. In that case, the CLA may have to be estimated based on the group's overall number single and family contracts and assume the same ratio exists in each region.

HCRA ASSESSMENT

This is another New York State assessment based on Hospital claims. A charge of 0.25% will be applied to the experience of new business quotes; this is consistent with the amount reflected in the manual portion of the rate.

RETENTION EXPENSES

Non-claim cost expenses must be added to the premium rates and can be per member per month (PMPM) charges, percent of paid claim charges, or percent of premium charges. The following tables reflect the retention loads:

Percent of Premium Retention:

General Administration = 9.7%

Bad Debt = 0.25%

Broker Loads = group specific

Percent of Premium Taxes/Fees:

Premium Tax = 0.0%

Contribution to Surplus = 2.0%

VT Vaccine Assessment = 0.5%

Insurer Tax = 1.0% for 2018 coverage dates; 0.0% for 2019 coverage dates

Percent of Paid Claim Surcharges:

VT Paid Claims Surcharge = 0.999%

PMPM Retention

PMPM = \$0

PMPM Taxes/Assessments:

Comparative Effectiveness Research Tax = \$0.21

EMPLOYER SPECIFIC PREMIUM RATES

The experience rating formula filing details the calculation of employer specific premium rates by using employer specific information. In the event the employer group cannot supply sufficient information to calculate employer specific conversion factors, the following community load ratios will be used:

- Single=1.0
- Double=2.0
- Family 2 tier=2.5
- Family 3 tier=2.6
- Family 4 tier= 2.8
- Parent Child 4 tier= 1.9

RETROSPECTIVE RATING

The risk charges for a group choosing to be rated retrospectively are outlined below:

(NO DEFICIT CARRY FORWARD/80% SURPLUS REFUND FOR GROUPS 251+, 50% REFUND FOR GROUPS LESS THAN 251)

- Groups with 1,000+ enrolled subscribers = 1.020
- Groups with 251-999 enrolled subscribers = 1.020
- Groups with 51-250 enrolled subscribers = 1.020

MINIMUM PREMIUM FUNDING ARRANGMENTS

The following table shows the Claims Fluctuation Margin (CFM) available for groups of different sizes. The appropriate level of CFM will depend on the group’s size and risk assessment. Groups that are smaller with a higher risk assessment will have a higher CFM. Because of the risk involved with minimum premium funding, at the smaller group size, the underwriter will use judgment to determine if minimum premium funding is allowed.

Group Size	CFM
100-249	120%, 125%, or 130%
249-499	115%, 120%, or 125%
500-999	110%, 115%, or 120%
1,000+	105%, 110%, or 115%

NEW BUSINESS DISCOUNT

Due to the variances in information available for use in rating prospects, MVP is introducing the following additional adjustments to be used in developing new business proposals. The discount will apply to currently insured accounts that will offer MVP on a total replacement basis and have non-Medicare retiree enrollment of less than 5% of the total group enrollment.

Rate reduction of 5.0% will be applied if group meets the following criteria:

- *Demographic Factor <=1.10
- *Participation >70% of total employees being offered coverage
- *Employer Contribution > =50% of single rate of richest plan to all plans/tiers
- *Employer Deductible Funding not greater than 70% of the In-Network Deductible
- *One carrier prior 2 years
- *For accounts with <100 enrolled contracts quoted without claims data, documented incumbent Carrier Initial Renewal <12% (not from a rate cap)

Rate reduction of 8.0% will be applied if group meets the above list in addition to the following:

- *Employer Deductible Funding not greater than 50% of the In-Network Deductible
- *Enrollment decline of less than 15% in past 12 months
- *One carrier for prior 3 years

Discount Recovery:

Year 1 Discount	Year 2 Discount	Year 3 Discount
5.0%	3.5%	2.0%
8.0%	6.0%	4.0%

Employer groups will be required to provide documentation showing the criteria are met or sign an affidavit supporting the statement.

ACTUARIAL CERTIFICATION

I believe the rating factors described herein are consistent with industry norms, follows sound actuarial and underwriting principals, and the rating factors used and documented in the Experience Rating Addendum are reasonable relative to MVP's book of business and industry norms.

I have reviewed the provisions of Vermont Insurance Law. It is my opinion that this rating formula complies with the requirements of those provisions.



Eric Bachner, ASA
Senior Actuarial Analyst
MVP Health Care

Certification of Compliance

I hereby certify that I have reviewed the applicable filing requirements for this filing and the filing complies with all applicable statutory and regulatory provisions for the state of Vermont.

Print Name: Karla Austen **Title:** Chief Financial Officer & Executive Vice President

Signature: 

Date: 03/23/2018