### MILLIMAN REPORT

# CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits

Commercial and individual population, under age 65

Commissioned by the Maryland Health Services Cost Review Commission

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### Background

The Maryland Health Services Cost Review Commission (HSCRC) has developed methods to benchmark the cost and utilization of medical services in Maryland against other metropolitan statistical areas (MSAs) of the United States with similar population characteristics. The HSCRC engaged Abt Associates (Abt) and Milliman to assist in this benchmarking process. Under the Total Cost of Care (TCOC) Model,<sup>1</sup> the HSCRC has expanded its evaluation of medical cost from hospital costs only to all non-pharmacy components of medical cost, which includes hospital and other facility, professional, and ancillary costs. Prescription drug costs are excluded from this analysis.

To assist HSCRC in their benchmarking, we have prepared calendar year (CY) 2021 cost and utilization summaries of members under age 65 with commercial and individual health insurance, based on the Maryland All-Payer Claims Database (APCD) data and Milliman's commercial Consolidated Health Cost Guidelines Sources Database (referred to as the CHSD) data. These comparisons are contained in the exhibits and attachments to this document. The selection of benchmark MSAs for comparison to the Maryland results was performed in collaboration with Abt and the HSCRC.

Abt uses the results described in this document and contained in the associated exhibits to create comparisons between the cost and utilization from the Maryland APCD data and Milliman's experience-based benchmarks derived from the CHSD data. These results and other processes performed by Abt referenced in this report are documented separately in the Abt report, "Healthcare Cost Benchmarking for Commercial Programs: Documentation, CY2021 Data."

In general, the results presented in this report were produced using a similar methodology as our reports summarizing the CY 2017, CY 2018, and CY 2019 cost and utilization results. We updated the underlying data sources to CY 2021 for this report. More information on methodological changes may be found in the "Data sources and data processing" section of this document.

### Summary

The HSCRC defined a set of five broad geographic Maryland regions (referred to as "MD regions"). These regions are Western, Capital, Southern, Central, and Eastern Shore.<sup>2</sup> Additionally, the HSCRC defined a set of Maryland hospital service areas; each is called a Provider Service Area Plus (PSAP).

Each PSAP is defined by the HSCRC using hospital utilization rates by Maryland ZIP Code. Each ZIP Code is allocated proportionally among Maryland hospitals based on residents' utilization patterns and drive times. Utilization patterns are based on the HSCRC's study of Maryland hospitals' fiscal year 2014 and 2015 inpatient and outpatient utilization.<sup>3</sup>

Milliman summarized Maryland's CY 2021 medical cost and utilization from the Maryland APCD data by ZIP Code and aggregated the results to the county and to the PSAP level using the mapping and weightings defined by the HSCRC. In parallel, for each of the five MD regions, Abt matched multiple benchmark non-Maryland MSAs based on population, morbidity (risk score), socioeconomic, demographic, and payer mix variables. To perform the matching, Abt collected the population, socioeconomic and demographic information. To facilitate this, Milliman prepared the risk score and payer mix information.

**Figure 1** below shows the risk and benefit adjusted per member per month (PMPM) medical cost and utilization for each Maryland PSAP based on the CY 2021 Maryland APCD data. Costs are risk adjusted using the U.S. Department of Health and Human Services Hierarchical Condition Categories (HHS-HCC) 2017 platinum risk

<sup>&</sup>lt;sup>1</sup> See Maryland's Total Cost of Care Model: Background and Summary available at: https://hscrc.maryland.gov/Documents/Modernization/Total%20Cost%20of%20Care%20Model%20-%20Background%20and%20Summary\_7\_26\_17.pdf

<sup>&</sup>lt;sup>2</sup> Please see the "Healthcare Cost Benchmarking for Commercial Programs: Documentation, CY 2021 Data" report published by Abt for a map defining the five MD regions.

<sup>&</sup>lt;sup>3</sup> Based on documentation of PSAP assignment provided by the HSCRC. The assignments reflect use in the HSCRC's FY2014 and FY 2015 inpatient and outpatient hospital experience data as of July 2017.

adjustment model and benefit adjusted using the methodology described below in the *Data sources and data processing* section. The benefit adjustment adjusts for the estimated service utilization impact of variation in member cost sharing levels by area (also known as an induced utilization adjustment). Utilization is measured using relative value units (RVUs), a case-mix and severity adjusted utilization measure that is comparable across service types. Attachment A describes the RVU measure in more detail.

PSAP		MEMBER MONTHS	ALLOWED PMPM <sup>A</sup>	BENEFIT & RISK ADJ. ALLOWED PMPM <sup>A,B</sup>	RVU PMPM	BENEFIT & RISK ADJ. RVU PMPM <sup>B</sup>
1.	ANNE ARUNDEL	1,060,239	\$364.89	\$370.99	7.22	7.40
2.	SHADY GROVE	957,180	\$366.49	\$383.96	7.12	7.53
3.	FREDERICK MEMORIAL	945,803	\$361.49	\$383.14	7.10	7.60
4.	HOWARD COUNTY	915,814	\$347.79	\$371.99	7.16	7.73
5.	BALTIMORE WASHINGTON	746,868	\$377.71	\$348.14	7.44	6.93
6.	SUBURBAN	738,676	\$373.48	\$440.60	7.08	8.40
7.	UPPER CHESAPEAKE HEALTH	707,209	\$360.78	\$366.14	6.98	7.15
8.	HOLY CROSS	696,327	\$357.92	\$372.77	6.90	7.25
9.	CARROLL COUNTY	658,525	\$368.52	\$368.39	7.13	7.19
10.	UM ST. JOSEPH	509,258	\$376.54	\$371.53	7.20	7.16
11.	WASHINGTON ADVENTIST	474,525	\$370.54	\$355.56	6.90	6.69
12.	SINAI	430,111	\$468.42	\$399.98	8.24	7.11
13.	G.B.M.C.	414,008	\$361.20	\$370.80	7.00	7.25
14.	PENINSULA REGIONAL	396,355	\$383.42	\$340.50	7.48	6.70
15.	DOCTORS COMMUNITY	395,791	\$370.07	\$335.93	6.91	6.34
16.	MERITUS	394,477	\$390.10	\$357.47	7.03	6.50
17.	SOUTHERN MARYLAND	382,965	\$403.72	\$348.19	6.96	6.07
18.	CHARLES REGIONAL	381,331	\$404.08	\$367.33	7.18	6.59
19.	ST. AGNES	366,175	\$375.84	\$354.91	7.16	6.83
20.	FRANKLIN SQUARE	336,594	\$429.55	\$359.41	7.66	6.47
	APCD TOTAL <sup>c</sup>	15,524,694	\$382.49	\$367.54	7.21	6.99

### FIGURE 1: CY 2021 SUMMARY OF MARYLAND APCD DATA ALLOWED COSTS AND UTILIZTION (RVUS) BY MARYLAND PSAP – COMMERCIAL AND INDIVIDUAL POPULATION, LIMITED TO UNDER AGE 65

Data Source: Maryland All Payer Claims Database

(A) Allowed amount is the total amount of fee-for-service payments for covered medical services including the amount that the plan pays, the patient pays, and any other payer pays for covered services. Provider bonus, capitation, and risk sharing payments are not included. Prescription drug cost and utilization are also not included.

(B) Risk adjusted with the 2017 HHS-HCC model platinum risk scores and normalized to the statewide average risk. Benefit adjusted using the methodology described below in the *Data sources and data processing* section. Benefit adjusted values are normalized to a national benefit profile.

(C) APCD TOTAL includes PSAPs not displayed in Figure 1. Please see exhibits 2a and 2b for more information.

## Milliman summarized cost and utilization data for the Abt-matched non-Maryland MSAs to create an aggregated experience-based benchmark for each of the five MD regions.

**Figure 2** below shows Milliman's experience-based benchmark for each MD region. In additional to member months, allowed PMPM and RVUs PMPM, the risk and benefit adjusted PMPM medical cost and RVUs are shown. As in Figure 1, costs are risk adjusted using the HHS-HCC 2017 platinum risk adjustment model. The benefit adjustment adjusts for the estimated impact on utilization of member cost sharing levels by area (also known as an induced utilization adjustment). Utilization is measured using RVUs.

### FIGURE 2: EXPERIENCE-BASED BENCHMARK SUMMARY OF ALLOWED COSTS AND UTILIZATION (RVUS) BY MD REGION – COMMERCIAL AND INDIVIDUAL POPULATION, LIMITED TO UNDER AGE 65

MARYL	AND REGION	MEMBER MONTHS <sup>A</sup>	ALLOWED PMPM <sup>B</sup>	BENEFIT & RISK ADJ. ALLOWED PMPM <sup>C</sup>	RVU PMPM	BENEFIT & RISK ADJ. RVU PMPM <sup>C</sup>
MD1	SOUTHERN MD	60,340,175	\$448.71	\$434.64	6.20	5.97
MD2	WESTERN MD	7,107,997	\$431.62	\$396.51	6.22	5.68
MD3	EASTERN SHORE	7,722,622	\$445.00	\$401.50	6.37	5.72
MD4	NORTHERN DC SUBURBS	52,025,580	\$455.39	\$459.69	5.88	5.86
MD5	BALTIMORE AREA	82,135,977	\$450.79	\$422.85	6.37	5.95
	BENCHMARK TOTAL <sup>D</sup>	122,794,612	\$449.75	\$431.42	6.26	5.94

Data Source: Milliman Consolidated Health Sources Database

(A) Member months reported are the sum of all member months included in each region. The Benchmark Total member months is less than the sum of the five regions as some MSAs were identified as part of the benchmark basis for multiple MD regions (i.e., the sum of the member months above would result in double-counting).

(B) Allowed amount is the total amount of fee-for-service payments for covered medical services including the amount that the plan pays, the patient pays, and any other payer pays for covered services. Provider bonus, capitation, and risk sharing payments are not included. Prescription drug cost and utilization is also not included.

(C) Risk adjusted with the 2017 HHS-HCC model platinum risk scores and normalized to the APCD data statewide average risk. Benefit adjusted using the methodology described below in the Data sources and data processing section.

(D) MD region benchmarks are based on a simple average of the MSAs included in each region. The Benchmark Total is based on a member-weighted average across all the MSAs included in the MD region benchmarks.

Abt's report uses the cost and utilization results in figures 1 and 2. In addition to the risk and benefit adjustment performed by Milliman and reported above, Abt normalizes benchmark cost and utilization results for differences in median income and deep poverty percentage. The impacts of these adjustments are not included in Figure 2. The final benchmark metrics appearing in Abt's report are calculated as an average of the normalized metrics for each of the selected benchmark MSAs. As noted in the Background section of this report, please see the "Healthcare Cost Benchmarking for Commercial Programs: Documentation, CY2021 Data" report from Abt for a complete discussion of the benchmark MSA selection and normalization methodology that occurs outside of the results presented here.

### Summary exhibits

Milliman prepared a set of summary exhibits for each Maryland county and PSAP. Additionally, Milliman prepared summary exhibits of the experience-based benchmark for each Maryland region. All exhibits reflect CY 2021 fee-for-service (FFS) experience, adjusted for estimated incurred but not reported (IBNR) claims, for the commercial and individual population under age 65. Outlined below is a brief description of each exhibit.

- 1. Maryland summary by county:
  - a. Exhibit 1a summarizes the CY 2021 Maryland APCD costs and utilization (RVUs) for medical services by county. The following information is included: member months, allowed, and allowed PMPM, RVUs PMPM, and allowed per RVU. Costs and RVUs are shown for all medical services and by major service category (inpatient facility, outpatient facility, professional/other). Risk score and benefit adjusted costs and RVUs are shown in total<sup>4</sup>.
  - b. Exhibit 1b summarizes the same information on a PMPM basis and illustrates risk and benefit normalization by service category and in total.
- 2. Maryland summary by PSAP:

<sup>&</sup>lt;sup>4</sup> By normalizing RVUs by risk score, we assume that the risk score relationships capture case-mix and utilization differences, but not differences in case-mix adjusted unit price.

- a. Exhibit 2a summarizes the CY 2021 Maryland APCD costs and utilization (RVUs) for medical services by PSAP. Each PSAP includes the membership, cost, and utilization for each ZIP Code within the PSAP. Some ZIP Codes are split between multiple PSAPs using the weighting provided by the HSCRC.
- b. Exhibit 2b summarizes the same information on a PMPM basis and illustrates risk and benefit normalization by service category and in total.
- 3. Benchmark summary by MD regions and MSA: Exhibits 3a and 3b mirror exhibits 1a through 2b but show the overall benchmark totals and each MD region's benchmark. Each MD region's benchmark is an aggregate of the adjusted MSAs as selected by the HSCRC and Abt. Results reflect the normalized CY 2021 utilization and costs for medical services from Milliman's benchmark data sources.
  - a. The State of Maryland benchmark is the overall member-weighted average of all the normalized benchmark MSAs selected for inclusion in any of the five MD regions' benchmarks.
  - b. The five MD region's benchmarks are simple averages of the selected and normalized MSAs selected for the MD region.

### Data sources and data processing

### SUMMARY OF CHANGES FROM PRIOR REPORTING

For the reader's convenience, this section summarizes methodological changes since the 2017, 2018, and 2019 reports were published in 2020 and 2022. Unless otherwise noted, changes occurring in prior versions are carried forward indefinitely. These changes are discussed in more detail in the following subsections.

- 1. Changes between the 2019 and 2021 processing:
  - a. We made annual updates to the risk normalization factor, completion factors, and teaching cost estimates.
  - b. Because 2021 MarketScan data was not available at the time of the benchmark data processing to support these analyses, the MarketScan data was excluded from the 2021 benchmark results. One consequence of this exclusion is a decline in the member months reported in the benchmark exhibits. In light of this data source change, Milliman confirmed the 2021 benchmark results were reasonable and consistent with prior results. No adjustment was made to the benchmarks to account for the change in the available benchmark data sources.
  - c. Milliman is now including individual market data in the benchmarks.
  - d. Like the 2019 processing, the HSCRC provided supplemental files in addition to the claims data extracts which contained corrected and additional APR DRG information. The first of these supplemental files was provided as a SAS dataset, "ip\_claims\_drg\_review\_hscrcfinal.sas7bdat," on March 22, 2023. A second file, "hscrc\_aprdrg\_xwalk\_2021\_oct23.sas7bdat," which was used to improve the APR DRG assignment rates for the subset of inpatient claims that did not have DRGs reported in the first supplemental file, was provided on November 11, 2023. After both files' DRGs were applied, DRG availability by broad service categories appeared comparable to prior years' analyses.
  - e. In prior years, Milliman attempted to account for apparently unreported newborns in the enrollment dataset. This year, Milliman has not made such an adjustment. (This is discussed in more detail below.)
  - f. Because of observed inconsistencies between reported allowed and the sum of paid, coordination of benefit (COB), and patient paid dollars and at the direction of the HSCRC, the patient paid amount reported in the exhibits is calculated as allowed minus paid and minus COB. In prior years, the exhibits reflected the patient paid amount reported in the claims data provided by the HSCRC.

- g. For the APCD processing, and consistent with prior years, secondary ICD-10-CM codes (diagnosis codes) from the professional service claim dataset are excluded from the APCD risk adjustment process. Results including all diagnosis codes from the professional service claims dataset are included in the appendices.<sup>5</sup>
- h. Other minor processing changes including changes to the data mapping and cleaning process.
- 2. Changes between 2018 and 2019 processing:
  - a. We made annual updates to the risk normalization factor, completion factors, and teaching cost estimates.
  - b. Federal Employees Health Benefits Program (FEHBP) data is now excluded from all APCD carriers' results. In prior reports, this data was excluded for only Aetna Health Inc. Starting in 2019, FEHBP no longer submits claims to the APCD for any carriers and is therefore no longer available for inclusion.
  - c. We relied on APR DRGs contained in the APCD data provided by the HSCRC, as well as a supplemental file containing corrected DRGs for some claims, provided by the HSCRC on January 26, 2022. For prior reports, Milliman reassigned APR DRGs as part of our processing. The supplemental file used more detailed information contained in the HSCRC's case-mix hospital discharge dataset to re-assign DRGs where the HSCRC believes limitations on data contained in APCD resulted in suboptimal mapping.
  - d. The 2019 Maryland benchmarks were built on the "unversioned" APCD data. This is a change from 2018 which was built on the "versioned" data. The difference is in how a small percentage of overlapping claims are treated. The process of reconciliation with a major carrier conducted as part of the 2019 benchmarking showed that the "unversioned" data was a better match for the correct total received from the carrier.
  - e. Other minor processing changes including slight changes to the area information used to identify Maryland claims, changes to the data cleaning process, etc.
- 3. Changes between 2018 and 2017 processing:
  - a. We made annual updates to the risk normalization factor, completion factors, and teaching cost estimates.
  - b. For the purposes of risk score development, the member identifier MUID was used. For the 2017 report, PIDBDGP was used for the development of risk scores.

### MARYLAND APCD DATA

Maryland's 2021 APCD data is used to calculate the 2021 Maryland commercial and individual medical cost and utilization. As noted above, 2017 HHS-HCC risk score assignment using the APCD data suppresses secondary diagnoses from the professional claims dataset. Diagnosis codes from the claims data are mapped using the 2020 hierarchical condition category (HCC) ICD-10-CM mappings, which include ICD-10-CM codes through federal government fiscal year 2021 (i.e., through September 30, 2021). The results of this mapping are then employed in the 2017 risk adjuster. Milliman otherwise processed the APCD eligibility and detailed claims information and calculated metrics consistent with the 2021 Milliman Benchmark Database. The data used in this analysis are limited to commercial and individual members under age 65. Milliman worked with the HSCRC to perform the following steps:

1. **Import APCD data:** Import APCD data and process the eligibility and detailed claims data. We utilized the data dictionaries, guidance, and other information about the Maryland APCD data provided by the HSCRC.

<sup>&</sup>lt;sup>5</sup> Please see Appendix E for summary results which include secondary diagnoses from the professional service claims dataset. Results in Appendix E are otherwise processed in the same manner as results in Appendix C and as set out in this document.

2. Limit the APCD data to commercial and individual experience: Limit the APCD data to commercial and individual experience using the "market\_segment" field. Specifically, we limit the APCD data to the subset listed below:

FIGURE 3: MEMBE	ER MONTHS INCLUDED BY "MARKET_SEGMENT"	
MARKET_SEGMENT	DESCRIPTION	INCLUDED MEMBER MONTHS BY MARKET_SEGMENT
3	Individual Market (not sold on MHBE)	817,780
5	Private Employer Sponsored or Other Group	4,378,345
7	Public Employee – Other	6,474,070
8	Small Business Health Options Program (SHOP) not sold on MHBE	2,445,262
Α	Student Health Plan	151,907
В	Individual Market (sold on MHBE)	1,240,053
с	Small Business Health Options Program (SHOP) sold on MHBE	1,956
Missing	Other enrollment months for members identified for inclusion	16,013
Total Included		15,525,386

Individual and ASO experience are excluded for the purpose of reconciliation to financial statements (see below). Non-commercial and non-individual benefit plans are excluded: Medicaid, Medicare Advantage, and Medicare Supplement. Additionally, we understand that some self-funded employers do not submit experience data to the Maryland APCD, and therefore are not included in our APCD summaries.

Due to inconsistent reporting of FEHBP data by the APCD contributors, we also excluded FEHBP claims and membership (market\_segment = "6"). In our prior reports for CY 2017 and CY 2018, FEHBP claims and membership were excluded for Aetna Health, Inc. and Aetna Life Insurance Co. because Aetna stopped reporting FEHBP data to the APCD from October 2017 onward, and therefore the available Aetna FEHBP experience was incomplete. The primary remaining contributors of this data, CareFirst Blue Choice, Inc., CareFirst of Maryland, Inc., and Group Hospitalization and Medical Services, Inc. did not report FEHBP experience in CY 2019 or CY 2021.

- 3. Reconcile and validate the APCD data: Review the APCD data for reasonableness and compare the medical code values with current coding standards for validity and consistency. We did not audit the APCD data. To reconcile the APCD data, we compared the commercial enrollment and paid claim cost amounts for each APCD contributor to readily available carrier financial statement reports for the State of Maryland. We worked with the HSCRC to exclude payers with incomplete or invalid APCD data submissions.
- 4. Complete the APCD data for IBNR: Calculate and apply completion factors for IBNR amounts. The CY 2021 APCD data has three months of runout, so we reviewed the completion patterns for the 2017, 2018, 2019, and 2021 APCD data sets and developed an overall CY 2021 completion factor of 0.9834 (i.e., we estimate that the data is 98.34% complete). We applied the completion factors to the allowed, utilization, and RVU amounts.
- 5. Assign metrics: Process the Maryland APCD data and assign analytic measures using:
  - a. The Milliman Health Cost Guidelines<sup>™</sup> (HCG) Grouper<sup>™</sup> to assign service category and standard utilization counts,
  - b. The Milliman GlobalRVUs™ to assign RVUs to all medical services, and
  - c. The 2017 HHS-HCC platinum risk score model to assign risk score.

Additionally, benefit adjustment factors were assigned based on the observed average member cost sharing levels to adjust for the estimated impact of benefit levels on member utilization.

- 6. Remove estimated teaching costs: Remove teaching costs from the detailed APCD data using the hospital identifier in the APCD data and the HSCRC's estimate of hospital teaching costs per bed day. The HSCRC provided the estimated teaching costs per inpatient bed day for each Maryland hospital. These teaching costs were assigned for all inpatient bed days except residential treatment, normal newborn, and skilled nursing days.
- 7. **Develop cost summaries:** Tabulate results by area and service category. The area-level results include county- and PSAP-level summaries. Cost and utilization are reported by service category. Risk and benefit adjusted costs and RVUs are calculated overall for each area.

Outlined below are the defects we found with the APCD data, and how they were resolved:

- Incomplete data for some contributors: As discussed above, we compared the commercial membership and costs for each contributor to readily available financial reports. We worked with the HSCRC to review inconsistencies and the HSCRC determined the final set of payers' APCD experience to include. Kaiser Permanente was not part of the 2018 Maryland APCD data set we received, was excluded from the 2019 analyses, and continues to be excluded from the 2021 analyses.
- 2. Comparison to NAIC statements: Milliman compared APCD data to National Association of Insurance Commissioners (NAIC) Annual Statements for the Year 2021 and NAIC 2021 Supplemental Health Care Exhibit Reports. The results of these comparisons are included in Attachment B-1. The primary purpose of these comparisons is to understand the completeness of carriers' APCD data submission and to help inform the HSCRC in their discussions with carriers. As a result of the lack of agreement between these data sources, additional information was used to reconcile the APCD data used in our processes. See (3), below, for more information.
- 3. CareFirst reconciliation: Related to (2), CareFirst's APCD experience (including the data for CareFirst BlueChoice, Inc., CareFirst of Maryland, Inc., and Group Hospitalization & Medical Services, Inc.) does not reconcile to their NAIC Annual Statement for the Year 2021 or their NAIC 2021 Supplemental Health Care Exhibit Report. For these largest contributors to the APCD, the total paid dollars reported in the APCD data is approximately 8% higher than the paid amounts in the NAIC Annual Statement after accounting for prescription drug rebates. In contrast, reported member months in the APCD data are 14% higher than the member months reported in the NAIC statement. The CareFirst organizations represent approximately half of the total paid dollars included in the APCD data and the results in this report are sensitive to errors contained in this data.
  - a. In the past, the HSCRC worked directly with CareFirst to reconcile the APCD data to CareFirst's internal reporting, and the findings of this reconciliation process were implemented into the processing of the APCD data for this report.
  - b. For this processing cycle, the HSCRC provided Milliman with summary reports of CareFirst's 2021 allowed dollars which Milliman reconciled to while developing this report's APCD results.
- 4. Incomplete ICD-10-PCS (procedure code) data: The APCD contained only procedure codes in the first position and did not contain any secondary procedure code information. This defect resulted in Milliman being unable to reliably assign APR DRG groupings and, instead, relying on the APR DRGs provided by the HSCRC with limited review. It is our understanding that the APR DRGs supplied by the HSCRC were assigned based on claims data which included secondary procedure codes. This understanding is supported by our review of the supplied data and the observed distribution of APR DRGs. See item 2-c in the above Section, Data sources and data processing.
- 5. **Missing Subscriber IDs, maternity claims, and newborn claims and enrollment:** In prior years, where a maternity claim indicated a newborn and a subscriber ID did not include an associated newborn, Milliman added a newborn eligibility record to the enrollment dataset. Additionally, where no newborn claim was found, the maternity claim was assumed to be a combined mother and baby claim, and RVUs were added to the maternity claim to account for the utilization associated with the newborn.

For the 2021 reporting results, it was not possible to link newborns' enrollment or claims to the mother's maternity claim using a Subscriber ID. This difference may result in too many newborn-associated RVUs being added to the maternity claims. Moreover, because newborn enrollment records were still present in the data, but we were unable to link them with maternity or newborn claims, we did not add any newborn enrollment to the enrollment dataset. The following table summarizes our adjustments to the maternity claims. Note that the summary is based on claims before the application of the exclusions documented in Attachment B.

# FIGURE 4: COUNT OF NEWBORN AND MATERNITY CLAIMS CLAIM OR ENROLLMENT CATEGORY COUNT OF CLAIMS Maternity claims 18,816 Newborn and neonate claims in data 5,075 Newborns added (i.e., maternity claims with added RVUs) 19,011 Newborns and Neonates per Maternity Claim 1.28

Based on a benchmark rate of 1.03 babies per mother from the Health Cost Guidelines, this may represent an overstatement of newborns of approximately 24 percent. However, because of the low average service intensity of newborn claims, we estimate that this amounts to an overstatement of less than 0.01 total RVUs PMPM, or a potential RVU overstatement of 0.8 percent for inpatient services.

Attachment B-1 shows our comparison of the Maryland APCD data with CY 2021 financial statement data. Attachment B-2 details the exclusions applied to the APCD data.

Figure 5 below shows the starting allowed amounts and the allowed amounts added for the IBNR amounts.

ADJUSTMENT	ALLOWED	PERCENT OF TOTAL
Total CY 2021 medical claims	\$ 17,168,935,169	100.0%
Payer, line of business, and data quality exclusions	11,264,193,235	65.6%
Commercial and Individual Subtotal	\$ 5,904,741,934	34.4%
+ Estimated IBNR	99,771,096	0.6%
- Estimated Teaching Costs	66,328,153	0.4%
= Amounts in Summaries	\$ 5,938,184,877	34.6%

### FIGURE 5: SUMMARY OF 2021 MARYLAND APCD DATA ADJUSTMENTS

### COMMERCIAL EXPERIENCE-BASED BENCHMARK DATABASE

We developed the benchmark cost and utilization metrics from the 2021 Milliman CHSD. The CHSD contains enrollment and claims cost experience for multiple contributors including insurance companies, third party administrators (TPAs), and large employers across the United States. For CY 2021, the experience for approximately 57 million commercial insured individuals is available nationwide. We processed the CHSD eligibility and detailed claims information, and using a process consistent with the process applied to the Maryland APCD data we used:

- 1. The Milliman HCG Grouper to assign service category and standard utilization counts,
- 2. The Milliman GlobalRVUs to assign RVUs to all medical services, and
- 3. The 2017 HHS-HCC platinum risk score model<sup>6</sup> to assign risk scores.

<sup>&</sup>lt;sup>6</sup> Because the 2018 and newer HHS-HCC models require prescription drug data and Milliman has not processed or validated that data for the Maryland APCD, the 2017 HHS-HCC model was used for 2021 medical claim data risk adjustment. The 2017 HHS-HCC model requires only member demographic and diagnostic information.

Additionally, benefit adjustment factors and teaching cost adjustment were applied to the CHSD using a process consistent with the Maryland APCD data. Teaching costs were assigned based on MSA-level per day averages developed by the HSCRC, rather than by hospital, because hospital-specific identifiers were not readily available in the CHSD.

The enrollment, risk score, cost, and utilization metrics were summarized by the MSA of the individual's residence. For this analysis, the benchmark data is limited to commercially insured individuals under age 65. The reported allowed amounts reflect CY 2021 dates of service and are adjusted for the estimated IBNR claims costs, based on claims completion patterns in the data.

### **DEFINITION OF COST**

For the purposes of this analysis, cost refers to the allowed FFS payments to providers including primary insurer payments, member payments, and payments from secondary sources of coverage. Payments outside of the administrative claims data are not included. Specifically, capitation, bonus or provider risk sharing settlement payments and refunds are not included.

### SERVICE CATEGORY ASSIGNMENT

Service category was assigned using the Milliman HCG Grouper software. The HCG Grouper assigns each claim service line to a Health Cost Guidelines (HCG) service cost category based on the medical coding on the claim. In general, the following claims elements are used to assign service categories:

- Inpatient: Inpatient facility claims are identified based on the presence of room and board revenue codes and are categorized based on the diagnosis related group (DRG) present on the claim. When DRGs are unavailable, ICD diagnosis codes, ICD procedure codes (where available, see discussion above), and revenue code information is used instead.
- Outpatient: Outpatient facility claims are identified based on the presence of revenue codes on the claim or based on the provider type (e.g., ambulatory surgical center). Outpatient claims are categorized primarily based on the revenue codes and Healthcare Common Procedure Coding System (HCPCS) or Common Procedure Terminology (CPT) codes on the claim.
- 3. **Professional/other:** Professional/other claims are identified based on the lack of revenue codes or based on the provider type. Physician revenue code line items billed as part of a facility claim are categorized as professional/other. Professional/other claims are categorized primarily based on the HCPCS/CPT code, place of service, and provider type (e.g., home health provider) information.

### **RISK SCORE NORMALIZATION**

Risk scores were assigned using the 2017 HHS-HCC platinum risk score model. We understand that the HSCRC selected the HHS platinum risk score model for the following reasons:

- 1. The model is publicly available,
- 2. The model is intended to be used on individual and small group populations,
- 3. The model is concurrent (i.e., it predicts costs for the same time period as the diagnosis collection period),
- 4. The model is diagnosis-based (i.e., does not require prescription drug data), and
- 5. The model reflects an average member cost sharing of approximately 90%, which is similar to being calibrated on allowed cost and is generally consistent with the relatively rich benefit levels found in employer sponsored health plans.

The HHS platinum risk scores predict aggregate costs for all services, not costs by service category. However, we use the risk scores to normalize allowed cost and utilization (RVUs) for each major service category (inpatient,

outpatient, and professional/other). Caution should be used when interpreting these results because costs by service category may not vary linearly with risk score.

### UNIT PRICE NORMALIZATION

Case mix was measured using the Milliman *GlobalRVUs*<sup>™</sup> and Milliman *Resource Based Relative Value Scale for Hospitals*<sup>™</sup> (*RBRVS for Hospitals*<sup>™</sup>) to assign RVUs to inpatient, outpatient, and professional/ancillary services. RVUs represent the relative amount of work required for each service. Dividing allowed charges by RVUs yields a conversion factor that measures the relative case mix and severity adjusted reimbursement. An area with a higher conversion factor has higher reimbursement per unit of work than an area with a lower conversion factor.

The inpatient RVUs are assigned based on the All-Patient Refined (APR) DRG and length of stay of each admission. The outpatient RVUs are assigned based on the HCPCS/CPT code, modifier, and unit coding for each service line. The professional RVUs are assigned based on the HCPCS/CPT code, modifier, unit coding, and place of service for each service line.

Because the CHSD is comprised of multiple contributors, we reviewed the data quality for each contributor. Some contributors are excluded based on this review. For example, we excluded contributors when the International Classification of Diseases (ICD) coding was not complete enough for DRG assignment. Additionally, we reviewed the data quality for specific service categories and if insufficient information was available to assign RVUs accurately, we imputed RVUs based on the provider type and payment information for these services. For example, we imputed RVUs when specific outpatient service categories had HCPCS/CPT codes and modifiers that were not reliably populated.

Assignment of RVUs for home health services was based on high-level assumptions because detailed coding was not consistently available in the Maryland APCD data and the CHSD. This limits the accuracy of the RVUs and unit price results for this service category. Skilled nursing facility (SNF) RVUs were assigned based on length of stay.

### PLAN BENEFIT NORMALIZATION<sup>7</sup>

We have developed plan benefit normalization factors to account for allowed cost and utilization differences caused by plan design. The allowed PMPM cost factors normalize both utilization and unit price. The RVU PMPM factors normalize utilization and service intensity, but not unit price. The plan benefit factors were developed as follows:

- We calculated average coinsurance at the employer group and product level using the 2017 CHSD benchmark data.<sup>8</sup> This process effectively assumes that all members with the same product and employer have the same benefit levels, which is a simplification.
- 2. The plan benefit factors are calculated as the ratio of the risk adjusted allowed amount for each coinsurance level to the total risk adjusted amount. These factors are calculated for both allowed dollars and RVUs and by inpatient, outpatient, and professional service categories separately.
- 3. We reviewed the results with the HSCRC and made one smoothing adjustment: the coinsurance 95% plan benefit factor for professional services was increased by refining the data contributors included in the calculation.

<sup>&</sup>lt;sup>7</sup> Benefit normalization factors presented in this report may show slight differences from those published by Abt due to the order in which results were summarized for the PSAP exhibit. Milliman's benefit normalization factor is calculated based on the average paid to allowed ratio for each PSAP whereas Abt's benefit normalization factor is calculated for each ZIP Code and aggregated to the PSAP level.

<sup>&</sup>lt;sup>8</sup> We have revisited but not adjusted these factors in the interest of preserving the ability to compare risk and benefit adjusted results across time (i.e., comparing results in the 2019 report to those in this 2021 report).

Figure 6 below shows the plan benefit factors based on the 2017 CHSD benchmark data.

ICHMARK PLAN BENEFIT FACTO POPULATION, ALL MSAS, LIMITE			IENT, AND P	ROFESSION	AL COINSUR	ANCE RANG
2017 MILLIMAN		I	PLAN BENEF	IT FACTORS	5	
BENCHMARK (NATIONWIDE)		RVUS			ALLOWED	
PLAN COINSURANCE RANGE	IP	OP	PROF	IP	OP	PROF
95%+	1.142	1.061	1.070	1.216	1.063	1.050
85%-95%	1.043	1.039	1.032	1.054	1.037	1.046
75%-85%	0.992	0.987	0.989	0.973	0.995	0.986
65%-75%	0.850	0.910	0.942	0.821	0.895	0.934

To apply the normalization factors, we calculated the average overall coinsurance by area and interpolated between the plan benefit factors. For example, (values are illustrative):

- 1. For an MSA, suppose the average overall coinsurance is 84% and the risk adjusted inpatient (IP) allowed PMPM is \$100.00
- 2. We interpolate from midpoint to midpoint:
  - a. Midpoint of range [85% 95%] = 90% (high bound),
  - b. Midpoint of range [75% 85%] = 80% (low bound),
  - c. The weight given to the factors in the [85% 95%] range is (4 ÷ 10) which is calculated as (84% 80%) ÷ (90% 80%) = [(actual overall coinsurance) (low bound)] ÷ [(high bound) (low bound)], and
  - d. The weight given to the factors in the [75% 85%] range is (6 ÷ 10) which is calculated as 1 (4 ÷ 10).
- 3. The plan benefit factor is  $[(4 \div 10) \times (1.054)] + [(6 \div 10) \times (0.973)] = 1.0054$ .
- The plan benefit adjusted IP allowed is calculated as (risk adjusted IP allowed PMPM) ÷ (interpolated plan benefit factor) = \$100 ÷ 1.0054 = \$99.46.

Using the benefit factors developed from the CHSD, we have calculated the benefit normalization factors by area for both the CHSD benchmark results and the Maryland APCD data.

**Figure 7** below shows the impact of risk and plan benefit adjusting the allowed PMPMs on the 2021 CHSD benchmark MSAs:

- 1. The blue line is the original allowed PMPM,
- 2. The green line is the risk adjusted allowed PMPM, which has a flatter slope than the original unadjusted allowed PMPM line, and
- 3. The red line is the risk and plan benefit adjusted allowed PMPM.

The horizontal axis is the unadjusted allowed PMPM and the vertical axis is the adjusted allowed PMPM (i.e., risk adjusted for the green series and line or risk and benefit adjusted for the red series and line). For the original series (in blue), as no adjustment is applied to allowed dollars, the unadjusted and adjusted amounts are always equal.

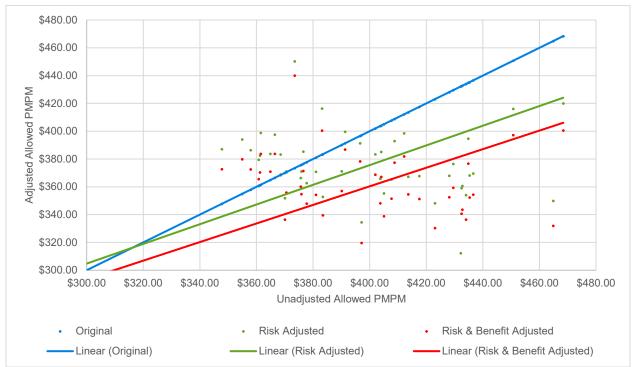


FIGURE 7: SCATTERPLOT OF APCD DATA ALLOWED PMPM FOR EACH PSAP, RISK ADJUSTED ALLOWED PMPM, AND RISK & PLAN BENEFIT ADJUSTED ALLOWED PMPM, FROM 2021 BENCHMARK EXHIBIT 2

This figure shows that after normalizing for risk score, the allowed PMPM moves towards the average allowed PMPM across all areas with limited exceptions – resulting in a more horizontal linear fit line. The results are similar for RVUs PMPM, but the benefit normalization has a less significant effect in that case.

### Data reliance and limitations

The 2021 benchmark and Maryland APCD data processed and summarized data have been prepared for the internal use of the Maryland HSCRC and Abt Associates. This information is intended solely for educational purposes and presents information of a general nature. It is not intended to guide or determine any specific individual situation and persons should consult qualified professionals before taking specific actions. Milliman does not intend to benefit or create a legal duty to any third-party recipient of its work.

In preparation of our analysis, we relied upon the accuracy of data and information gathered from or provided to us by the Centers for Medicare and Medicaid Services (CMS), HHS, and our data partners. We have not audited this information, although we have reviewed it for reasonableness. If the underlying data or information is inaccurate or incomplete, the results of our analysis may likewise be inaccurate or incomplete.

We have also relied on the data and other information provided by the HSCRC for this analysis. We have performed a limited review of this data and other information and checked for reasonableness and consistency. We have not found material defects in the data or information used other than those described in this report, which also describes how those defects were addressed to enable this analysis to be reliably performed. If there are other material defects in the data or other information, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable or for relationships that are materially inconsistent. Such a review was beyond the scope of this assignment.

Guidelines issued by the American Academy of Actuaries require actuaries to include their professional qualifications in all actuarial communications. Peter Hallum, Mark Franklin, Lu Miao, and Charlie Mills are members of the American Academy of Actuaries and meet the qualification standards for performing the analyses in this report.

### List of attachments

Exhibits 1 - 3: APCD and Benchmark Experience Summaries

Attachment A: Milliman Whitepaper: Milliman GlobalRVUs

Attachment B: APCD Data RECONCILIATION AND EXCLUSIONS

Attachment C: Exhibits 1 – 3, APCD and Benchmark Experience Summaries (Inclusive of SECONDARY PROFESSIONAL CLaims diagnoses)



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### Glossary of terms

### **TERMS AND DESCRIPTIONS**

Annual Admits per 1,000 - Calculated as (annual admit counts) ÷ (annual member months) x 12,000.

Average Length of Stay - Calculated as (annual day counts) ÷ (annual admit counts).

**Annual Utilization per 1,000 –** Calculated as (annual utilization counts) ÷ (annual member months) x 12,000. The utilization measure varies by service type (e.g., days, visits, procedures).

**Average Allowed per Service –** Calculated as (annual allowed total) ÷ (annual utilization counts). The utilization measure varies by service type (e.g., days, visits, procedures).

Allowed PMPM – This is calculated as (annual allowed total) ÷ (annual member months).

RVU – Relative Value Unit is a measure for the care severity and is comparable across all service categories.

**RVU PMPM –** This is calculated as (annual RVU total) ÷ (annual member months).

Unit Price – This is calculated as (annual allowed total) ÷ (annual RVU total).

**Patient Pay Utilization per 1,000 –** Calculated as (annual utilization counts where patient paid) ÷ (annual member months) x 12,000. The utilization measure varies by service type (e.g., days, visits, procedures).

**Average Patient Pay –** Calculated as (annual patient paid total) ÷ (annual utilization counts). The utilization measure varies by service type (i.e., days, visits, procedures).

Patient Pay PMPM - Calculated as (annual patient paid total) ÷ (annual member months).

Paid PMPM - Calculated as (annual paid total) ÷ (annual member months).

**COB PMPM** – Coordination of benefit claims allowed dollars and it is calculated as (annual allowed totals for COB claim type) ÷ (annual member months).

**Risk Score –** 2017 model HHS-HCC Platinum risk score (calculated based on 2021 diagnosis and membership information).

**Benefit Normalization Factor –** Benefit richness factor based on member coinsurance. A higher factor indicates richer benefits and higher expected utilization.

APCD - Maryland's All Payer Claims Database.

**CHSD –** Milliman's Consolidated Health Cost Guidelines (HCGs) Sources Database (CHSD): A comprehensive, longitudinal, health care experience data containing detailed enrollment and medical claims data.

**PSAP –** Provider Service Area Plus: each PSAP is a hospital service area made up by a group of ZIP Codes. If two or more hospitals shares a ZIP Code, the experience for the ZIP Code is allocated between the hospitals.

### Exhibit 1a Exhibit 1a CY 2021 Milliman Benchmark and Maryiand All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 12/2021, Paid through 3/2022 (Adjusted to Estimated Ultimate Incurred) Summary of Experience by Maryland Region, County, and MSA Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical elipbility with valid risk scores, i.e., the risk score shown equals total risk score over total Medical.
 (2) Completion factor used: 0.9834. Risk adjusted allowed dollars are risk normalized to the statewide Maryland risk score of 1.4034.
 (3) The plan benefit factors for the total amonts are calculated based on the combined construction level.
 (4) Teachin bospital amounts are reamoved from investerial allowed and paid amounts (accept SNF, newtorm, and residential treatments) based on the FV2017 per diem rates (trended to FV2021 with an annual rate 2.25% based on the file "IME for ICC Jsts") at the provider level for file were calculated to maryland TSC Con 2011/2019 mand<sup>2</sup> "total time for commoval" encoursed of SMF 12-00 Jsts". For benchmark results, this adjustment was made at the MSA level.

		Member Mor	ths and Risk			Total Allow	wed (2)					Allowed F	MPM (2)					RVUs PI	APM (2)				Allowed	Per RVU	
Desies	or County Name and County FIPS ID	Medical MMs	2017 HHS Model Platinum Risk Score (1)	Inpatient	Teaching Adiustment (4)	Inpatient w/ Teaching Adiustment	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Dest ( Other	Total	Total - Risk Adiusted	Total - Risk & Benefit Adjusted (3)	Inpatient	Outpatient	Dest / Other	Total	Total - Risk	Total - Risk & Benefit Adjusted (3)	Inpatient	Outpatient	Deef / Others	Total
Region	for County Name and County Fir 5 ib	INEGICAL MINIS	Score (1)	inpatient	Adjustment (4)	Adjustment	Outpatient	FI01/ Other	Total	Inpatient	Outpatient		Total	Aujusteu	Aujusted (3)	Inpatient	Outpatient	FIOI / Other	TUIdi	Aujusteu	Adjusted (5)	Inpadent	Outpatient	FIGI / Oulei	Total
Total -	All Counties	15,525,386	1.403	\$1,249,434,285	\$66,328,153	\$1,183,106,133	\$1,477,332,959	\$3,277,745,786	\$5,938,184,877	\$76.20	\$95.16	\$211.12	\$382.48	\$382.48	\$367.53	0.87	1.31	5.02	7.21	7.21	6.99	\$87.46	\$72.59	\$42.03	\$53.08
MD1	MD1 (Southern MD)	2,653,324	1.482	\$228,627,538	\$10,221,233	\$218,406,305	\$255,874,369	\$549,681,151	\$1,023,961,825	\$82.31	\$96.44	\$207.17	\$385.92	\$365.32	\$349.24	0.90	1.23	4.81	6.93	6.56	6.34	\$91.95	\$78.49	\$43.09	\$55.67
MD2	MD2 (Western MD)	614,558	1.546	\$57,629,514	\$1,639,458	\$55,990,056	\$72,102,959	\$118,535,852	\$246,628,867	\$91.11	\$117.32	\$192.88	\$401.31	\$364.22	\$348.78	0.99	1.62	4.46	7.08	6.42	6.21	\$91.61	\$72.29	\$43.25	\$56.71
MD3	MD3 (Eastern Shore)	994,372	1.479	\$88,194,435	\$3,796,867	\$84,397,569	\$107,924,389	\$201,452,972	\$393,774,930	\$84.88	\$108.54	\$202.59	\$396.00	\$375.73	\$361.66	0.96	1.50	5.02	7.49	7.10	6.90	\$88.26	\$72.22	\$40.33	\$52.88
MD4	MD4 (Northern DC Suburbs)	3,712,601	1.259	\$243,178,302	\$10,292,694	\$232,885,608	\$288,178,564	\$839,672,174	\$1,360,736,346	\$62.73	\$77.62	\$226.17	\$366.52	\$408.43	\$394.83	0.69	1.10	5.30	7.09	7.90	7.70	\$90.48	\$70.83	\$42.69	\$51.72
MD5	MD5 (Baltimore Area)	7,550,531	1.425	\$631,804,496	\$40,377,901	\$591,426,595	\$753,252,678	\$1,568,403,637	\$2,913,082,910	\$78.33	\$99.76	\$207.72	\$385.81	\$380.02	\$364.87	0.93	1.40	5.01	7.33	7.22	7.00	\$84.37	\$71.51	\$41.46	\$52.61
24001	Allegany	165,840	1.689	\$16,557,467	\$323,575	\$16,233,892	\$23,847,837	\$29,163,803	\$69,245,532	\$97.89	\$143.80	\$175.86	\$417.54	\$346.92	\$329.30	1.10	1.83	4.42	7.35	6.11	5.86	\$88.72	\$78.46	\$39.80	\$56.78
24003	Anne Arundel	1,619,970	1.386	\$125,258,930	\$6,428,790	\$118,830,140	\$135,745,937	\$344,877,938	\$599,454,015	\$73.35	\$83.80	\$212.89	\$370.04	\$374.71	\$361.16	0.87	1.24	5.21	7.32	7.41	7.21	\$83.94	\$67.64	\$40.88	\$50.55
24005	Baltimore	2,182,215	1.463	\$195,896,310	\$13,460,172	\$182,436,137	\$230,175,687	\$464,155,189	\$876,767,014	\$83.60	\$105.48	\$212.70	\$401.78	\$385.49	\$369.64	1.01	1.49	5.01	7.51	7.20	6.97	\$82.84	\$71.02	\$42.44	\$53.52
24009	Calvert	295,694	1.444	\$22,154,983	\$952,747	\$21,202,236	\$28,856,463	\$62,439,856	\$112,498,555	\$71.70	\$97.59	\$211.16	\$380.46	\$369.61	\$353.08	0.77	1.24	4.84	6.86	6.66	6.43	\$93.25	\$78.47	\$43.60	\$55.49
24011		95,424	1.510	\$9,424,684	\$519,304	\$8,905,380	\$11,788,588	\$19,599,891	\$40,293,859	\$93.32	\$123.54	\$205.40	\$422.26	\$392.38	\$374.65	0.97	1.68	4.92	7.58	7.04	6.79	\$95.90	\$73.48	\$41.73	\$55.73
24013		611,249	1.354	\$43,755,867	\$2,330,896	\$41,424,971	\$58,204,286	\$124,596,877	\$224,226,134	\$67.77	\$95.22	\$203.84	\$366.83	\$380.27	\$365.90	0.78	1.50	4.83	7.11		7.15	\$87.40	\$63.47	\$42.17	\$51.59
24015 24017	Cecil Charles	211,959 382.006	1.432 1.473	\$21,964,071 \$35,784,460	\$712,629 \$1,568,460	\$21,251,443 \$34,216,000	\$27,560,371 \$38,299,029	\$35,245,461 \$81,997,522	\$84,057,275 \$154,512,551	\$100.26 \$89.57	\$130.03 \$100.26	\$166.28 \$214.65	\$396.57 \$404.48	\$388.70 \$385.43	\$375.72 \$367.42	0.96	1.52 1.31	4.09 4.92	6.58 7.18	6.45 6.85	6.28 6.59	\$104.10 \$92.98	\$85.55 \$76.80	\$40.62 \$43.66	\$60.30 \$56.30
24017	Dorchester	72.343	1.473	\$5,790,088	\$1,568,460 \$203,731	\$5,586,358	\$9.572.663	\$14,792,859	\$154,512,551 \$29,951,880	\$77.22	\$100.26	\$214.65	\$404.48	\$363.63	\$348.74			4.92	7.10	6.84	6.62	\$92.90	\$68.68	\$43.00	\$53.13
24019	Frederick	950.476	1.275	\$68,736,313	\$203,731	\$66,174,370	\$68,232,708	\$209.370.924	\$343,778,002	\$69.62	\$71.79	\$204.46	\$361.69	\$303.03	\$382.88	0.90	1.93 1.05	4.97	7.10	7.81	7.59	\$89.39	\$68.59	\$41.76	\$50.94
24021	Garrett	58.912	1.638	\$5,736,735	\$48.659	\$5.688.076	\$11.071.036	\$8.619.176	\$25.378.288	\$96.55	\$187.92	\$146.31	\$430.78	\$368.98	\$354.63	0.77	2.18	3.57	6.62	5.58	5.40	\$125.46	\$86.33	\$40.97	\$66.10
24025	Harford	797.254	1.344	\$60,472,251	\$3,140,118	\$57,332,133	\$74,194,095	\$160.616.759	\$292,142,987	\$71.91	\$93.06	\$201.46	\$366.44	\$382.64	\$368.36	0.85	1.33	4.89	7.06	7.37	7.16	\$84.82	\$70.09	\$41.23	\$51.89
24027	Howard	1.006.125	1.247	\$64,489,442	\$4,350,018	\$60,139,423	\$76,921,693	\$209.590.875	\$346.651.991	\$59.77	\$76.45	\$208.31	\$344.54	\$387.73	\$373.63	0.72	1.15	5.24	7.11	8.00	7.78	\$83.17	\$66.65	\$39.72	\$48.46
24029		64,158	1.503	\$7,928,408	\$446.517	\$7,481,890	\$7.848.004	\$12,408,182	\$27,738,075	\$116.62	\$122.32	\$193.40	\$432.34	\$403.72	\$386.85	1.16	1.34	4.45	6.96	6.50	6.29	\$100.11	\$90.95	\$43.44	\$62.10
24031	Montgomery	2,762,125	1.254	\$174,441,989	\$7,730,751	\$166,711,238	\$219,945,856	\$630,301,250	\$1,016,958,344	\$60.36	\$79.63	\$228.19	\$368.18	\$412.08	\$399.00	0.66	1.11	5.31	7.08	7.93	7.74	\$90.92	\$71.56	\$43.01	\$51.99
24033	Prince Georges	1,719,228	1.508	\$148,532,190	\$6,469,033	\$142,063,156	\$162,822,697	\$351,730,290	\$656,616,143	\$82.63	\$94.71	\$204.59	\$381.92	\$355.44	\$339.59	0.90	1.20	4.82	6.91	6.43	6.21	\$92.12	\$79.23	\$42.45	\$55.26
24035	Queen Anne's	177,907	1.335	\$14,910,568	\$546,340	\$14,364,228	\$16,489,028	\$37,187,931	\$68,041,187	\$80.74	\$92.68	\$209.03	\$382.45	\$402.03	\$386.14	0.95	1.38	5.04	7.37	7.74	7.51	\$85.02	\$67.34	\$41.47	\$51.92
24037	Saint Mary's	256,396	1.370	\$22,155,906	\$1,230,993	\$20,924,913	\$25,896,180	\$53,513,483	\$100,334,576	\$81.61	\$101.00	\$208.71	\$391.33	\$400.83	\$388.00	0.93	1.32	4.53	6.78	6.95	6.77	\$87.95	\$76.54	\$46.04	\$57.71
24039	Somerset	45,984	1.765	\$5,322,607	\$196,926	\$5,125,681	\$5,551,310	\$9,234,839	\$19,911,830	\$111.47	\$120.72	\$200.83	\$433.02	\$344.30	\$326.19	1.40	1.68	5.02	8.10	6.44	6.17	\$79.73	\$71.73	\$40.01	\$53.45
24041	Talbot	111,100	1.451	\$9,510,275	\$522,653	\$8,987,622	\$12,655,838	\$24,850,451	\$46,493,910	\$80.90	\$113.91	\$223.68	\$418.49	\$404.72	\$391.74	0.83	1.65	5.43	7.91	7.65	7.46	\$97.62	\$69.11	\$41.19	\$52.92
24043	Washington	389,806	1.472	\$35,335,312	\$1,267,224	\$34,068,089	\$37,184,087	\$80,752,872	\$152,005,047	\$87.40	\$95.39	\$207.16	\$389.95	\$371.88	\$357.69	0.98	1.45	4.61	7.04	6.72	6.52	\$88.99	\$65.79	\$44.93	\$55.37
24045	Wicomico	253,609	1.482	\$20,852,907	\$921,559	\$19,931,348	\$26,083,936	\$50,124,321	\$96,139,605	\$78.59	\$102.85	\$197.64	\$379.09	\$358.84	\$345.42	0.96	1.42	5.08	7.45	7.06	6.85	\$81.97	\$72.54	\$38.92	\$50.86
24047	Worcester	173,847	1.488	\$14,454,899	\$439,837	\$14,015,062	\$17,935,023	\$33,254,498	\$65,204,583	\$80.62	\$103.17	\$191.29	\$375.07	\$353.61	\$344.79	0.89	1.40	4.96	7.25	6.84	6.71	\$90.25	\$73.72	\$38.58	\$51.72
24510	Baltimore City	1,121,759	1.661	\$119,967,625	\$9,955,278	\$110,012,347	\$150,450,609	\$229,320,538	\$489,783,494	\$98.07	\$134.12	\$204.43	\$436.62	\$368.81	\$351.55	1.17	1.63	4.87	7.68	6.49	6.24	\$83.64	\$82.07	\$41.97	\$56.87

### Marvland APCD (Marvland MSAs)

		Member Mont	ths and Risk			Total Allov	red (2)					Allowed F	MPM (2)					RVUs PM	IPM (2)				Allowed I	Per RVU	
		2	017 HHS Model			Inpatient w/									Total - Risk &						Total - Risk &				
			Platinum Risk		Teaching	Teaching								Total - Risk	Benefit					Total - Risk	Benefit				
MSA	MSA Name	Medical MMs	Score	Inpatient	Adjustment (4)	Adjustment	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Adjusted	Adjusted (3)	Inpatient	Outpatient I	Prof / Other	Total	Adjusted	Adjusted (3)	Inpatient	Outpatient	Prof / Other	Total
12580	Baltimore-Columbia-Towson, MD	7,516,479	1.422	\$624,750,993	\$40,211,613	\$584,539,380	\$742,181,335	\$1,570,346,107	\$2,897,066,822	\$77.77	\$98.74	\$208.92	\$385.43	\$380.26	\$365.03	0.93	1.39	5.04	7.36	7.26	7.03	\$83.80	\$70.98	\$41.48	\$52.40
15680	California-Lexington Park, MD	256,396	1.370	\$22,155,906	\$1,230,993	\$20,924,913	\$25,896,180	\$53,513,483	\$100,334,576	\$81.61	\$101.00	\$208.71	\$391.33	\$400.83	\$388.00	0.93	1.32	4.53	6.78	6.95	6.77	\$87.95	\$76.54	\$46.04	\$57.71
19060		165,840	1.689	\$16,557,467	\$323,575	\$16,233,892	\$23,847,837	\$29,163,803	\$69,245,532	\$97.89	\$143.80	\$175.86	\$417.54	\$346.92	\$329.30	1.10	1.83	4.42	7.35	6.11	5.86	\$88.72	\$78.46	\$39.80	\$56.78
24999	Non-MSA Area, MD	401,937	1.527	\$38,390,189	\$1,740,864	\$36,649,325	\$52,936,128	\$80,270,559	\$169,856,012	\$91.18	\$131.70	\$199.71	\$422.59	\$388.31	\$372.95	0.92	1.74	4.80	7.45	6.85	6.64	\$99.09	\$75.90	\$41.62	\$56.70
25180	Hagerstown-Martinsburg, MD	389,806	1.472	\$35,335,312	\$1,267,224	\$34,068,089	\$37,184,087	\$80,752,872	\$152,005,047	\$87.40	\$95.39	\$207.16	\$389.95	\$371.88	\$357.69	0.98	1.45	4.61	7.04	6.72	6.52	\$88.99	\$65.79	\$44.93	\$55.37
41540	Salisbury, MD	473,440	1.512	\$40,630,413	\$1,558,321	\$39,072,091	\$49,570,269	\$92,613,658	\$181,256,018	\$82.53	\$104.70	\$195.62	\$382.85	\$355.30	\$342.91	0.98	1.44	5.03	7.44	6.91	6.72	\$84.44	\$72.87	\$38.90	\$51.44
23224	Silver Spring-Frederick-Rockville, MD	3,712,601	1.259	\$243,178,302	\$10,292,694	\$232,885,608	\$288,178,564	\$839,672,174	\$1,360,736,346	\$62.73	\$77.62	\$226.17	\$366.52	\$408.43	\$394.83	0.69	1.10	5.30	7.09	7.90	7.70	\$90.48	\$70.83	\$42.69	\$51.72
47894	Washington-Arlington-Alexandria, MD	2,396,928	1.494	\$206,471,632	\$8,990,240	\$197,481,392	\$229,978,189	\$496,167,668	\$923,627,249	\$82.39	\$95.95	\$207.00	\$385.34	\$361.84	\$345.57	0.89	1.22	4.84	6.95	6.52	6.30	\$92.39	\$78.72	\$42.79	\$55.46
48864	Wilmington, MD	211,959	1.432	\$21,964,071	\$712,629	\$21,251,443	\$27,560,371	\$35,245,461	\$84,057,275	\$100.26	\$130.03	\$166.28	\$396.57	\$388.70	\$375.72	0.96	1.52	4.09	6.58	6.45	6.28	\$104.10	\$85.55	\$40.62	\$60.30

Exhibit 1b CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 1/2022, I (Adjusted to Estimated Utilimate Incurred) Plan Benefit Normalization Factors by Maryland Region, County, and MSA Commercial and Individual LOSs, Limited to Members Under Age & Eleculade Precorption Drugs)

(1) Linearly interpolated between coinsurance ranges.

CY2021 Miliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits

	P	er Months. Risk an Coinsurance 017 HHS Model	Plan		U Plan Benefi ization Facto			d Plan Benef ation Factor			Allowed	PMPM		Risk	Adjusted All	owed PMPM	(2)	Benefit	Risk Adius Adiusted Alle	ted and wed PMPM	(2) (3)		RVU PMPI	M		B	isk Adi RVU PMP	M (2)	B	Risk Adius nefit Adi RVU	
		Platinum Risk	Coinsurance																												
n or County Name and County FIPS ID	Medical MMs	Score	Range	Inpatient	Outpatient F	rot / Other	Inpatient O	utpatient Pr	tot / Other	npatient (4)	Outpatient	Prof / Other	Total	Inpatient (4)	Outpatient	Prot / Other	Total	Inpatient (4)	Outpatient i	Prot / Other	Total	Inpatient O	lutpatient Prof	/ Other	Total	Inpatient C	Outpatient Prof / 0	ther Iotal	Inpatient	Outpatient I	Prot / Other
All Counties	15,525,386	1.403	85%-95%	1.039	1.035	1.029	1.047	1.034	1.041	\$76.20	\$95.16	\$211.12	\$382.48	\$76.20	\$95.16	\$211.12	\$382.48	\$72.75	\$92.06	\$202.72	\$367.53	0.87	1.31	5.02	7.21	0.87	1.31	5.02 7	1 0.84	1.27	4.88
MD1 (Southern MD)	2,653,324	1.482	85%-95%	1.045	1.040	1.032	1.056	1.037	1.046	\$82.31	\$96.44	\$207.17	\$385.92	\$77.92	\$91.29	\$196.11	\$365.32	\$73.78	\$88.01	\$187.45	\$349.24	0.90	1.23	4.81	6.93	0.85	1.16	4.55 6.		1.12	4.41
MD2 (Western MD)	614,558	1.546	85%-95%	1.042	1.039	1.031	1.053	1.036	1.045	\$91.11	\$117.32	\$192.88	\$401.31	\$82.69	\$106.48	\$175.06	\$364.22	\$78.56	\$102.76	\$167.47	\$348.78	0.99	1.62	4.46	7.08	0.90	1.47	4.05 6.		1.42	3.92
MD3 (Eastern Shore)	994,372	1.479		1.038	1.034	1.027	1.045	1.032	1.040	\$84.88	\$108.54	\$202.59	\$396.00	\$80.53	\$102.98	\$192.22	\$375.73	\$77.04	\$99.74	\$184.87	\$361.66	0.96	1.50	5.02	7.49	0.91	1.43	4.77 7.		1.38	4.64
MD4 (Northern DC Suburbs) MD5 (Baltimore Area)	3,712,601 7,550,531	1.259 1.425		1.034 1.040	1.030 1.036	1.024	1.039	1.029	1.035 1.042	\$62.73 \$78.33	\$77.62 \$99.76	\$226.17 \$207.72	\$366.52 \$385.81	\$69.90 \$77.15	\$86.50 \$98.26	\$252.03 \$204.60	\$408.43 \$380.02	\$67.28 \$73.57	\$84.04 \$95.01	\$243.50 \$196.29	\$394.83 \$364.87	0.69	1.10 1.40	5.30 5.01	7.09 7.33	0.77	1.22 1.37	5.90 7 4.94 7		1.19 1.33	5.77 4.80
Allegany	165.840	1.689	85%-95%	1.061	1.043	1.039	1.084	1.042	1.047	\$97.89	\$143.80	\$175.86	\$417.54	\$81.33	\$119.48	\$146.11	\$346.92	\$75.04	\$114.69	\$139.58	\$329.30	1.10	1.83	4.42	7.35	0.92	1.52	3.67 6.	1 0.86	1.46	3.53
Anne Arundel	1,619,970	1.386	85%-95%	1.036	1.032	1.026	1.043	1.031	1.038	\$73.35	\$83.80	\$212.89	\$370.04	\$74.28	\$84.85	\$215.58	\$374.71	\$71.21	\$82.28	\$207.67	\$361.16	0.87	1.24	5.21	7.32	0.88	1.25	5.27 7		1.21	5.14
Baltimore	2,182,215	1.463	85%-95%	1.041	1.037	1.030	1.051	1.035	1.044	\$83.60	\$105.48	\$212.70	\$401.78	\$80.21	\$101.20	\$204.08	\$385.49	\$76.35	\$97.76	\$195.52	\$369.64	1.01	1.49	5.01	7.51	0.97	1.43	4.81 7.		1.37	4.67
Calvert	295,694	1.444	85%-95%	1.047	1.040	1.034	1.061	1.038	1.046	\$71.70	\$97.59	\$211.16	\$380.46	\$69.66	\$94.81	\$205.14	\$369.61	\$65.68	\$91.34	\$196.06	\$353.08	0.77	1.24	4.84	6.86	0.75	1.21	4.71 6.		1.16	4.55
Caroline	95,424 611,249	1.510	85%-95%	1.048	1.041	1.034	1.062	1.038	1.046	\$93.32	\$123.54 \$95.22	\$205.40 \$203.84	\$422.26	\$86.72 \$70.25	\$114.80 \$98.71	\$190.86 \$211.31	\$392.38 \$380.27	\$81.66	\$110.57 \$95.58	\$182.41	\$374.65	0.97	1.68	4.92	7.58	0.90	1.56	4.57 7. 5.01 7		1.50	4.42
Cecil	211.959		85%-95%	1.034	1.034	1.028	1.040	1.030	1.040	\$100.26	\$130.03	\$166.28	\$396.57	\$98.27	\$127.44	\$162.98	\$388.70	\$94.53	\$123.79	\$157.40	\$375.72	0.96	1.52	4.09	6.58	0.94	1.49	4.01 6.		1.45	3.92
Charles	382.006	1.473		1.051	1.041	1.035	1.067	1.039	1.046	\$89.57	\$100.26	\$214.65	\$404.48	\$85.35	\$95.54	\$204.54	\$385.43	\$80.01	\$91.95	\$195.46	\$367.42	0.96	1.31	4.92	7.18	0.92	1.24	4.68 6.		1.19	4.53
Dorchester	72,343	1.598	85%-95%	1.041	1.038	1.031	1.051	1.036	1.044	\$77.22	\$132.32	\$204.48	\$414.03	\$67.82	\$116.22	\$179.59	\$363.63	\$64.52	\$112.23	\$171.99	\$348.74	0.90	1.93	4.97	7.79	0.79	1.69	4.37 6.		1.63	4.24
Frederick	950,476	1.275	85%-95%	1.038	1.034	1.027	1.045	1.033	1.040	\$69.62	\$71.79	\$220.28		\$76.61	\$78.99		\$397.99		\$76.50		\$382.88	0.78	1.05	5.27		0.86	1.15	5.80 7	1 0.83	1.11	5.65
Garrett Harford	58,912 797,254	1.638		1.040	1.036	1.029	1.049	1.034	1.043	\$96.55	\$187.92	\$146.31	\$430.78	\$82.70	\$160.96	\$125.32	\$368.98	\$78.83	\$155.61	\$120.19	\$354.63	0.77	2.18	3.57	6.52 7.06	0.66	1.86	3.06 5. 5.10 7.		1.80	2.97 4.97
Hanord	1.006.125	1.344	85%-95% 85%-95%	1.037 1.036	1.034	1.027	1.045	1.032	1.040	\$71.91 \$59.77	\$93.06 \$76.45	\$201.46 \$208.31	\$366.44 \$344.54	\$75.09 \$67.27	\$97.18 \$86.04	\$210.37 \$234.42	\$382.64 \$387.73	\$71.86 \$64.47	\$94.13 \$83.41	\$202.36 \$225.76	\$368.36 \$373.63	0.85	1.33 1.15	4.89 5.24	7.00	0.89	1.39 1.29	5.90 8.		1.34 1.25	4.97
Kent	64.158	1.503	85%-95%	1.035	1.033	1.020	1.043	1.032	1.038	\$116.62	\$122.32	\$193.40	\$432.34	\$108.90	\$114.23	\$180.60	\$403.72	\$103.59	\$110.31	\$172.95	\$386.85	1.16	1.34	4.45	6.96	1.09	1.25	4.16 6.		1.20	4.03
Montgomery	2,762,125	1.254	85%-95%	1.032	1.028	1.023	1.037	1.028	1.033	\$60.36	\$79.63	\$228.19	\$368.18	\$67.55	\$89.12	\$255.40	\$412.08	\$65.16	\$86.69	\$247.16	\$399.00	0.66	1.11	5.31	7.08	0.74	1.25	5.94 7.	3 0.72	1.21	5.81
Prince Georges	1,719,228	1.508	85%-95%	1.046	1.040	1.033	1.058	1.038	1.046	\$82.63	\$94.71	\$204.59	\$381.92	\$76.90	\$88.14	\$190.40	\$355.44	\$72.67	\$84.95	\$181.98	\$339.59	0.90	1.20	4.82	6.91	0.83					
Queen Anne's	177,907	1.335		1.039	1.036	1.029	1.048	1.034	1.042	\$80.74	\$92.68	\$209.03	\$382.45	\$84.87	\$97.43	\$219.73	\$402.03	\$80.99	\$94.24	\$210.92	\$386.14	0.95	1.38	5.04	7.37	1.00	1.45	5.30 7.		1.40	5.15
Saint Mary's Somerset	256,396 45 984	1.370 1.765	85%-95% 85%-95%	1.033	1.029	1.023	1.037	1.028	1.034	\$81.61 \$111.47	\$101.00 \$120.72	\$208.71 \$200.83	\$391.33 \$433.02	\$83.59 \$88.63	\$103.45 \$95.99	\$213.78 \$159.68	\$400.83 \$344.30	\$80.59 \$81.56	\$100.60 \$92.10	\$206.80 \$152.53	\$388.00 \$326.19	0.93	1.32 1.68	4.53 5.02	6.78 8.10	0.95	1.35	4.64 6. 3.99 6.		1.31 1.28	4.54
			85%-95%	1.003		1.040	1.038		1.047	\$80.90		\$200.83	\$418.49	\$78.24	\$110.17	\$216.32	\$404.72	\$75.41	\$107.12	\$209.22	\$391.74	0.83	1.65	5.43	7.01	0.80		5.25 7.		1.65	E 42
Talbot Washington	389,806	1.472	85%-95%	1.038	1.034	1.028	1.046	1.033	1.040	\$87.40	\$95.39	\$207.16	\$389.95	\$83.35	\$90.97	\$197.56	\$371.88	\$79.69	\$88.08	\$189.92	\$357.69	0.98	1.45	4.61	7.04	0.94	1.38	4.40 6	2 0.90	1.34	4.28
Wicomico	253,609	1.482	85%-95%	1.038	1.034	1.027	1.045	1.032	1.040	\$78.59	\$102.85	\$197.64	\$379.09	\$74.39	\$97.36	\$187.09	\$358.84	\$71.18	\$94.30	\$179.94	\$345.42	0.96	1.42	5.08	7.45	0.91	1.34	4.81 7.		1.30	4.68
Worcester	173,847	1.488	85%-95%	1.026	1.022	1.018	1.027	1.023	1.026	\$80.62	\$103.17	\$191.29	\$375.07	\$76.01	\$97.26	\$180.34	\$353.61	\$73.99	\$95.06	\$175.74	\$344.79	0.89	1.40	4.96	7.25	0.84	1.32	4.68 6.		1.29	4.59
Baltimore City	1,121,759	1.661	85%-95%	1.052	1.041	1.035	1.068	1.039	1.046	\$98.07	\$134.12	\$204.43	\$436.62	\$82.84	\$113.29	\$172.68	\$368.81	\$77.53	\$109.01	\$165.01	\$351.55	1.17	1.63	4.87	7.68	0.99	1.38	4.11 6.	9 0.94	1.33	3.97

	Member	r Months. Risk.	and	RV	/U Plan Benefit		Allo	wed Plan Bene	fit										Risk Adius												Risk Adjuste	ed and	
	Pla	an Coinsurance		Norma	alization Factor	s (1)	Norma	lization Factor	rs (1)		Allowed	PMPM		. B	isk Adj Allow	ed PMPM (2)		Benefit	Adjusted All	owed PMPM	(2) (3)		RVU PMP	M			Risk Adj RVU I	PMPM (2)		Ber	nefit Adj RVU F	PMPM (2) (3)	
		17 HHS Model	Plan																														
	P	Platinum Risk	Coinsurance																														
MSA Name and ID	Medical MMs	Score	Range	Inpatient	Outpatient Pr	rof / Other	Inpatient	Outpatient P	rof / Other	Inpatient		Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Inpatient	Outpatient I	Prof / Other	Total	Inpatient C	utpatient Pro	of / Other	Total	Inpatient	Outpatient Pr	of / Other	Total	Inpatient (	Outpatient Pr	rof / Other	Total
12580 Baltimore-Columbia-Towson, MD	7,516,479	1.422	85%-95%	1.040	1.036	1.029	1.049	1.034	1.043	\$77.77	\$98.74	\$208.92	\$385.43	\$76.72	\$97.42	\$206.12	\$380.26	\$73.14	\$94.18	\$197.71	\$365.03	0.93	1.39	5.04	7.36	0.92	1.37	4.97	7.26	0.88	1.32	4.83	7.03
15680 California-Lexington Park, MD	256,396	1.370	85%-95%	1.033	1.029	1.023	1.037	1.028	1.034	\$81.61	\$101.00	\$208.71	\$391.33	\$83.59	\$103.45	\$213.78	\$400.83	\$80.59	\$100.60	\$206.80	\$388.00	0.93	1.32	4.53	6.78	0.95	1.35	4.64	6.95	0.92	1.31	4.54	6.77
19060 Cumberland, MD	165,840	1.689	85%-95%	1.061	1.043	1.039	1.084	1.042	1.047	\$97.89	\$143.80	\$175.86	\$417.54	\$81.33	\$119.48	\$146.11	\$346.92	\$75.04	\$114.69	\$139.58	\$329.30	1.10	1.83	4.42	7.35	0.92	1.52	3.67	6.11	0.86	1.46	3.53	5.86
24999 Non-MSA Area, MD	401,937	1.527	85%-95%	1.040	1.036	1.029	1.049	1.034	1.042	\$91.18	\$131.70	\$199.71	\$422.59	\$83.78	\$121.02	\$183.51	\$388.31	\$79.89	\$117.01	\$176.05	\$372.95	0.92	1.74	4.80	7.45	0.85	1.59	4.41	6.85	0.81	1.54	4.28	6.64
25180 Hagerstown-Martinsburg, MD	389,806	1.472	85%-95%	1.038	1.034	1.028	1.046	1.033	1.040	\$87.40	\$95.39	\$207.16	\$389.95	\$83.35	\$90.97	\$197.56	\$371.88	\$79.69	\$88.08	\$189.92	\$357.69	0.98	1.45	4.61	7.04	0.94	1.38	4.40	6.72	0.90	1.34	4.28	6.52
41540 Salisbury, MD	473,440	1.512	85%-95%	1.035	1.031	1.025	1.041	1.030	1.037	\$82.53	\$104.70	\$195.62	\$382.85	\$76.59	\$97.17	\$181.54	\$355.30	\$73.54	\$94.29	\$175.08	\$342.91	0.98	1.44	5.03	7.44	0.91	1.33	4.67	6.91	0.88	1.29	4.55	6.72
23224 Silver Spring-Frederick-Rockville, MD	3,712,601	1.259	85%-95%	1.034	1.030	1.024	1.039	1.029	1.035	\$62.73	\$77.62	\$226.17	\$366.52	\$69.90	\$86.50	\$252.03	\$408.43	\$67.28	\$84.04	\$243.50	\$394.83	0.69	1.10	5.30	7.09	0.77	1.22	5.90	7.90	0.75	1.19	5.77	7.70
47894 Washington-Arlington-Alexandria, MD	2,396,928	1.494	85%-95%	1.047	1.040	1.033	1.060	1.038	1.046	\$82.39	\$95.95	\$207.00	\$385.34	\$77.36	\$90.10	\$194.38	\$361.84	\$72.99	\$86.81	\$185.78	\$345.57	0.89	1.22	4.84	6.95	0.84	1.14	4.54	6.52	0.80	1.10	4.40	6.30
48864 Wilmington, MD	211,959	1.432	85%-95%	1.034	1.030	1.024	1.040	1.030	1.035	\$100.26	\$130.03	\$166.28	\$396.57	\$98.27	\$127.44	\$162.98	\$388.70	\$94.53	\$123.79	\$157.40	\$375.72	0.96	1.52	4.09	6.58	0.94	1.49	4.01	6.45	0.91	1.45	3.92	6.28

# Exhibit 2a CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 1/2022, 1 All through 1/2022 (Adjusted to Estimated Ultimate Incurred) Summary of Experience by PSAP Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical eligibility with walf risk scores, i.e., the risk score shown equals total risk score over total Medical. (2) Completion factor used: 0.9534. Risk adjusted allowed dollars are risk normalized to the statewide Maryland risk score over total Medical. (3) The plan benefit factors for the total amounts are acculated based on the combined coinsurance level. (4) Teaching hospital amounts are removed from Inspatient allowed and paid amounts (accept SNF, newborn, and residential treatments) based on the FY2017 per diem rates (trended to FY2021 with an annual rate 2.25% based on the file "IME for ICC.xisx") at the provider level from file ware accepted from Maryland FSCR on 1211/2019 mand\* Hospital fair for commercial removed of CME 12-09.dsx". For benchmark results, this adjustment was made at the MSA level. (5) Cost and utilization data are appreciable for acch hospital FNIPM as calculated FSAP is based on the 2.07 based. The D Code is (Notspital FSAP, the cost and utilization walks are a scale and able are used are acceled and a the scale of the scale of

	Member Mo	nths and Risk			Total All	owed (2)					Allowed F	PMPM (2)					RVUs PN	APM (2)				Allowed Pe	r RVU	
		2017 HHS Model Platinum Risk		Teaching	Inpatient w/ Teaching								Total - Risk	Total - Risk & Benefit					T Total - Risk	otal - Risk & Benefit				
Hospital Name and Medicare ID (5)	Medical MMs	Score (1)	Inpatient	Adjustment (4)	Adjustment	Outpatient	Prof / Other	Total	Innationt	Outpatient	Prof / Other	Total	Adjusted	Adjusted (3)	Innatient	Outpatient P	rof / Other			Henefit Adjusted (3)	Innatient	Outpatient Pr	rof / Other	Total
Hospital Harris and Medicate ID (b)	mouldar mind	00010 (1)	inpution	/ ajastinant (4)	rajabanoni	Ouplaidin	THUT OUND	1 Otda	inpution	Outputient	rior/outor	1 Oldi	rajabida	/10/05/00 (0)	Inputern	oupuion 1	Ion outer	1 Otda	/ alabida /	alabica (o)	inpution	Duputon 11	di / Oliloi	Total
Total - All PSAPs	15,524,694	1.403	\$1,249,390,401	\$66,326,120	\$1,183,064,281	\$1,477,300,380	\$3,277,621,307	\$5,937,985,969	\$76.21	\$95.16	\$211.12	\$382.49	\$382.49	\$367.54	0.87	1.31	5.02	7.21	7.21	6.99	\$87.47	\$72.59	\$42.03	\$53.08
210023 ANNE ARUNDEL	1,060,239	1.334	\$74,529,738	\$3,298,751	71,230,988	\$88,017,187	\$227,622,756	\$386,870,931	\$67.18	\$83.02	\$214.69	\$364.89	\$383.86	\$370.99	0.77	1.25	5.20	7.22	7.60	7.40	\$87.57	\$66.46	\$41.25	\$50.54
210061 ATLANTIC GENERAL	71,404	1.437	\$6,427,895	\$186,827	6,241,068	\$7,593,580	\$12,986,686	\$26,821,334	\$87.41	\$106.35	\$181.88	\$375.63	\$366.89	\$360.61	0.93	1.47	4.76	7.16	7.00	6.91	\$94.32	\$72.18	\$38.17	\$52.43
210043 BALTIMORE WASHINGTON	746,868	1.460	\$62,998,509	\$3,652,348	59,346,161	\$64,660,508	\$158,091,757	\$282,098,427	\$79.46	\$86.58	\$211.67	\$377.71	\$362.93	\$348.14	0.99	1.26	5.19	7.44	7.15	6.93	\$80.16	\$68.65	\$40.78	\$50.74
210013 BON SECOURS	23,678	1.860	\$2,998,581	\$279,616	2,718,965	\$3,718,527	\$4,569,741	\$11,007,234	\$114.83	\$157.05	\$193.00	\$464.87	\$350.80	\$332.86	1.57	1.83	4.64	8.04	6.06	5.81	\$73.15	\$85.90	\$41.61	\$57.85
210039 CALVERT 210033 CARROLL COUNTY	296,369 658,525	1.446	\$22,316,073 \$49,951,946	\$953,442 \$3,515,916	21,362,632 46,436,030	\$28,950,202 \$62,437,595	\$62,610,130 \$133,807,553	\$112,922,963 \$242.681.178	\$72.08 \$70.52	\$97.68 \$94.81	\$211.26 \$203.19	\$381.02 \$368.52	\$369.78 \$382.94	\$353.25 \$368.39	0.77	1.24	4.85	6.86 7.13	6.66	6.43 7.19	\$93.14 \$86.66	\$78.46 \$63.61	\$43.60 \$42.15	\$55.51 \$51.72
210035 CARROLL COUNTY 210035 CHARLES REGIONAL	381.331	1.472	\$35.623.370	\$1,567,765	34.055.604	\$38,205,290	\$81.827.248	\$154.088.142	\$70.52 \$89.31	\$94.61	\$203.19	\$404.08	\$385.33	\$367.33	0.96	1.49	4.02	7.13	6.85	6.59	\$93.04	\$76.81	\$42.15	\$56.29
210035 CHARLES REGIONAL 210030 CHESTERTOWN	85.473	1.447	\$9.743.610	\$495.076	9.248.534	\$10.273.104	\$15,707,324	\$35,228,962	\$108.20	\$100.19	\$214.56	\$404.06	\$399.77	\$383.15	1.08	1.30	4.91	6.70	6.49	6.28	\$100.53	\$90.08	\$43.00	\$61.56
210051 DOCTORS COMMUNITY	395.791	1.478	\$30,713,851	\$1.514.262	29,199,589	\$35.792.647	\$81,477,364	\$146,469,600	\$73.78	\$90.43	\$205.86	\$370.07	\$355.77	\$335.93	0.81	1.17	4.93	6.91	6.56	6.34	\$91.52	\$77.23	\$41.74	\$53.56
210037 EASTON	322.635	1.460	\$27.655.923	\$1,362,153	26.293.770	\$37.337.287	\$68,257,883	\$131.888.940	\$81.50	\$115.73	\$211.56	\$408.79	\$392.85	\$377.26	0.87	1.66	5.10	7.63	7.33	7 11	\$93.25	\$69.81	\$41.48	\$53.57
210015 FRANKLIN SQUARE	336.594	1.601	\$28,732,672	\$1,470,389	27,262,282	\$37,484,890	\$79.835.843	\$144,583,015	\$80.99	\$111.37	\$237.19	\$429.55	\$376.53	\$359.41	1.03	1.63	5.00	7.66	6.71	6.47	\$78.30	\$68.45	\$47.45	\$56.07
210005 FREDERICK MEMORIAL	945.803	1.274	\$68,162,608	\$2,553,827	65.608.782	\$67,720,532	\$208,569,513	\$341.898.826	\$69.37	\$71.60	\$220.52	\$361.49	\$398.25	\$383.14	0.78	1.04	5.28	7.10	7.83	7.60	\$89.09	\$68.62	\$41.75	\$50.89
210060 FT. WASHINGTON	87.788	1.653	\$9,536,506	\$257,707	9,278,799	\$10,809,668	\$18,123,821	\$38,212,289	\$105.70	\$123.13	\$206.45	\$435.28	\$369.59	\$353.54	1.07	1.35	4.74	7.17	6.08	5.88	\$98.74	\$91.03	\$43.53	\$60.74
210044 G.B.M.C.	414,008	1.324	\$30,327,448	\$1,985,144	28,342,303	\$38,386,678	\$82,811,358	\$149,540,339	\$68.46	\$92.72	\$200.02	\$361.20	\$382.96	\$370.80	0.81	1.36	4.83	7.00	7.43	7.25	\$84.49	\$67.98	\$41.41	\$51.57
210017 GARRETT COUNTY	48,677	1.576	\$4,099,681	\$26,940	4,072,742	\$9,119,148	\$6,942,197	\$20,134,086	\$83.67	\$187.34	\$142.62	\$413.63	\$368.35	\$355.64	0.68	2.18	3.49	6.35	5.65	5.49	\$123.17	\$85.94	\$40.88	\$65.16
210056 GOOD SAMARITAN	183,047	1.721	\$17,046,122	\$1,217,554	15,828,568	\$23,437,497	\$40,180,143	\$79,446,208	\$86.47	\$128.04	\$219.51	\$434.02	\$353.88	\$336.24	1.13	1.63	5.35	8.11	6.62	6.34	\$76.44	\$78.54	\$41.01	\$53.49
210034 HARBOR	86,265	1.654	\$9,498,821	\$689,057	8,809,764	\$10,897,246	\$17,952,899	\$37,659,909	\$102.12	\$126.32	\$208.11	\$436.56	\$370.43	\$355.26	1.31	1.63	5.06	8.00	6.79	6.57	\$77.93	\$77.40	\$41.17	\$54.58
210006 HARFORD	94,712	1.467	\$8,536,437	\$392,316	8,144,121	\$10,785,573	\$19,143,230	\$38,072,924	\$85.99	\$113.88	\$202.12	\$401.99	\$384.50	\$369.83	0.98	1.48	4.98	7.44	7.11	6.90	\$88.01	\$77.10	\$40.58	\$54.07
210065 HC-GERMANTOWN	137,825	1.265	\$9,143,035	\$400,867	8,742,168	\$10,034,793	\$30,140,211	\$48,917,172	\$63.43	\$72.81	\$218.69	\$354.92	\$393.61	\$379.36	0.66	1.05	5.18	6.90	7.65	7.44	\$95.77	\$69.08	\$42.18	\$51.43
210004 HOLY CROSS	696,327	1.299	\$47,198,582	\$1,977,126	45,221,457	\$52,508,877	\$151,497,041	\$249,227,375	\$64.94	\$75.41	\$217.57	\$357.92	\$386.52	\$372.77	0.72	1.02	5.15	6.90	7.45	7.25	\$90.00	\$73.74	\$42.21	\$51.88
210029 HOPKINS BAYVIEW MED CTR	140,591	1.633	\$15,931,072	\$1,210,220	14,720,852	\$17,291,914	\$28,177,467	\$60,190,233	\$104.71	\$122.99	\$200.42	\$428.12	\$367.98	\$352.54	1.32	1.62	4.64	7.57	6.51	6.29	\$79.59	\$76.00	\$43.21	\$56.54
210048 HOWARD COUNTY	915,814	1.263	\$59,722,982	\$3,928,371	55,794,610	\$70,146,649	\$192,567,222	\$318,508,481	\$60.92	\$76.59	\$210.27	\$347.79	\$386.35	\$371.99	0.73	1.14	5.29	7.16	7.95	7.73	\$83.37	\$67.20	\$39.78	\$48.60
210009 JOHNS HOPKINS	160,005	1.565	\$15,029,834	\$1,254,446	13,775,388	\$20,297,985	\$31,163,356	\$65,236,730	\$86.09	\$126.86	\$194.77	\$407.72	\$365.61	\$351.85	1.07	1.59	4.61	7.27	6.52	6.33	\$80.35	\$79.99	\$42.22	\$56.08
210055 LAUREL REGIONAL	0	0.000	\$0	\$0	0	\$0	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0.00	n/a	\$0.00	0.00	0.00	0.00	0.00	n/a	0.00	\$0.00	\$0.00	\$0.00	\$0.00
210064 LEVINDALE 210045 MCCREADY		1.522	\$9,781 \$834.877	\$591	9,190	\$9,774	\$18,405 \$1.699.821	\$37,369	\$110.85 \$95.69	\$117.89	\$222.00	\$450.74 \$432.19	\$415.55	\$396.75	1.22	1.54	5.30 5.02	8.07	7.44		\$90.85 \$80.76	\$76.42 \$71.04	\$41.85 \$40.27	\$55.87
210045 MCCREADY 210008 MERCY	8,403 177,050	1.939 1.684	\$834,877 \$18,653,181	\$30,821 \$1,533,267	804,056 17,119,914	\$1,127,819 \$23,633,029	\$1,699,821 \$35,868,350	\$3,631,696 \$76,621,294	\$95.69 \$96.70	\$134.22 \$133.48	\$202.29 \$202.59	\$432.19 \$432.77	\$312.71 \$360.58	\$296.83 \$343.56	1.18 1.18	1.89	4.85	8.10 7.67	5.86	5.61 6.14	\$80.76	\$81.77	\$40.27 \$41.76	\$53.37 \$56.44
210008 MERCH 210001 MERITUS	394.477	1.473	\$35,909,017	\$1,333,267	34.633.677	\$37.696.263	\$81.554.083	\$153.884.023	\$96.70	\$95.56	\$202.59	\$432.77	\$300.56	\$357.47	0.98	1.65	4.60	7.07	6.70	6.50	\$89.57	\$65.78	\$41.76	\$55.45
210018 MONTGOMERY GENERAL	251.180	1.288	\$15,287,832	\$614.885	14.672.947	\$23,350,491	\$58,220,855	\$96,244,293	\$58.42	\$92.96	\$231.79	\$383.17	\$417.46	\$401.58	0.69	1.45	5.42	7.32	7.98	7.75	\$84.36	\$77.12	\$42.73	\$52.32
210040 NORTHWEST	235.621	1.549	\$25,095,775	\$1,724,953	23.370.822	\$27,917,461	\$51,172,460	\$102,460,742	\$99.19	\$118.48	\$217.18	\$434.85	\$394.05	\$376.05	1.18	1.56	5.20	7.93	7 19	6.93	\$84.29	\$76.13	\$41.79	\$54.84
210019 PENINSULA REGIONAL	396.355	1.521	\$33,595,099	\$1,343,103	32.251.996	\$41,280,347	\$78,436,684	\$151,969.027	\$81.37	\$104.15	\$197.89	\$383.42	\$353.79	\$340.50	0.98	1.43	5.07	7.48	6.90	6.70	\$82.88	\$73.04	\$39.00	\$51.25
210003 PRINCE GEORGE	233.152	1.671	\$21,354,559	\$857.357	20,497,202	\$25,419,656	\$46,675,784	\$92,592,642	\$87.91	\$109.03	\$200.19	\$397.13	\$333.52	\$318.72	1.01	1.35	4.68	7.05	5.92	5.71	\$86.74	\$80.54	\$42.77	\$56.34
210057 SHADY GROVE	957,180	1.293	\$63,674,506	\$3,033,307	60,641,199	\$73,953,164	\$216,199,166	\$350,793,529	\$63.35	\$77.26	\$225.87	\$366.49	\$397.81	\$383.96	0.69	1.12	5.32	7.12	7.73	7.53	\$91.92	\$69.28	\$42.49	\$51.47
210012 SINAI	430,111	1.567	\$54,484,509	\$3,173,449	51,311,060	\$53,178,471	\$96,981,389	\$201,470,920	\$119.30	\$123.64	\$225.48	\$468.42	\$419.47	\$399.98	1.28	1.59	5.37	8.24	7.38	7.11	\$93.19	\$77.62	\$41.97	\$56.81
210062 SOUTHERN MARYLAND	382,965	1.549	\$38,283,352	\$1,474,890	36,808,462	\$39,244,936	\$78,558,879	\$154,612,277	\$96.11	\$102.48	\$205.13	\$403.72	\$365.83	\$348.19	1.01	1.26	4.70	6.96	6.31	6.07	\$95.12	\$81.62	\$43.69	\$58.00
210011 ST. AGNES	366,175	1.420	\$29,888,988	\$2,799,759	27,089,228	\$38,642,704	\$71,890,799	\$137,622,731	\$73.98	\$105.53	\$196.33	\$375.84	\$371.31	\$354.91	0.90	1.42	4.84	7.16	7.07	6.83	\$82.36	\$74.27	\$40.56	\$52.49
210028 ST. MARY	256,396	1.370	\$22,155,906	\$1,230,993	20,924,913	\$25,896,180	\$53,513,483	\$100,334,576	\$81.61	\$101.00	\$208.71	\$391.33	\$400.83	\$388.00	0.93	1.32	4.53	6.78	6.95	6.77	\$87.95	\$76.54	\$46.04	\$57.71
210022 SUBURBAN	738,676	1.162	\$41,715,232	\$1,832,850	39,882,382	\$61,023,544	\$174,974,289	\$275,880,214	\$53.99	\$82.61	\$236.88	\$373.48	\$450.87	\$440.60	0.58	1.15	5.34	7.08	8.54	8.40	\$92.35	\$71.62	\$44.36	\$52.76
210063 UM ST. JOSEPH	509,258	1.371	\$40,088,996	\$2,680,175	37,408,822	\$50,099,690	\$104,249,321	\$191,757,832	\$73.46	\$98.38	\$204.71	\$376.54	\$385.52	\$371.53	0.88	1.41	4.91	7.20	7.37	7.16	\$83.65	\$69.71	\$41.73	\$52.33
210038 UMMC MIDTOWN	47,404	1.689	\$5,470,419	\$464,732	5,005,687	\$6,350,719	\$9,143,716	\$20,500,122	\$105.60	\$133.97	\$192.89	\$432.45	\$359.40	\$340.95	1.27	1.57	4.61	7.45	6.19	5.93	\$83.23	\$85.17	\$41.87	\$58.06
210032 UNION HOSPITAL OF CECIL	192,592	1.421	\$20,018,418	\$642,405	19,376,013	\$25,177,565	\$31,828,329	\$76,381,907	\$100.61	\$130.73	\$165.26	\$396.60	\$391.54	\$378.47	0.96	1.53	4.06	6.54	6.46	6.29	\$105.02	\$85.62	\$40.71	\$60.60
210024 UNION MEMORIAL	199,074	1.594	\$17,746,959	\$1,516,763	16,230,195	\$24,097,841	\$42,795,013	\$83,123,050	\$81.53 \$92.04	\$121.05	\$214.97	\$417.55	\$367.48 \$355.58	\$351.04 \$339.16	0.97	1.51	5.18	7.66	6.74 6.27	6.50	\$84.24	\$80.08	\$41.51	\$54.52 \$56.69
210002 UNIVERSITY OF MARYLAND 210049 UPPER CHESAPEAKE HEALTH	100,964 707,209	1.598 1.332	\$10,275,890 \$52,191,206	\$983,539 \$2,729,183	9,292,350 49,462,023	\$13,060,049 \$64,244,137	\$18,541,317 \$141,443,416	\$40,893,715 \$255,149,576	\$92.04 \$69.94	\$129.35 \$90.84	\$183.64 \$200.00	\$405.03 \$360.78	\$355.58	\$339.16	1.19 0.83	1.54 1.31	4.42 4.84	7.15 6.98	6.27	6.04 7.15	\$77.39 \$84.02	\$84.21 \$69.22	\$41.55 \$41.33	\$56.69
210049 UPPER CRESAPEARE REALT R 210016 WASHINGTON ADVENTIST	474.525	1.403	\$38,536,082	\$2,729,103	36.687.739	\$40,189,438	\$98,952,224	\$175.829.401	\$09.94	\$90.64	\$200.00	\$300.76	\$370.69	\$355.56	0.83	1.31	4.04	6.90	6.90	6.69	\$92.16	\$77.05	\$42.01	\$53.69
210016 WASHINGTON ADVENTIST 210027 WESTERN MARYLAND	474,525	1.403	\$18,194,520	\$1,040,343	17.849.226	\$25,799,724	\$30,840,783	\$74,489,733	\$101.37	\$146.53	\$208.55	\$423.06	\$348.54	\$330.72	1.11	1.85	4.90	7.35	6.06	5.80	\$92.10	\$79.13	\$42.01	\$57.54
			\$10,104,020	40-10,204		ψ£0,7 00,7 24	400,040,700	wi 4,400,100	4101.07	ψ140.00	e	Q-20.00	4040.04	4000.12			4.03		0.00	0.00	401.41	<b>\$10.10</b>	200.00	401.04

# Exhibit 2b CY 2021 Milliman Benchmark and Maryiand All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 12021 through 12/2021, Paid through 3/2022 (Adjusted to Estimated Ultimate incurred) Plan Benefit Normalization Factors by PSAP Commercial and Individual COSE, Jimiled to Memore Judier Agé 65 (Excludes Prescription Drugs)

(1) ) book) (singulated between outcards regoon. (2) Risk signed and been services and the services of the se

Member Months, Risk, and	RVII Plan Benefit	Allowed Plan Benefit
For each hospital's PSAP, the cost and utilization values are calculated as the sum of the PSAP ZIP Codes of (c	ost or utilization value at the ZIP Code) x (hospital % sha	re at the ZIP Code).

				/U Plan Benefit			d Plan Benefit ation Factors (1)			Allowed	PMPM		Rist	Adjusted A	lowed PMPM	(2)	Benefit	Risk Adjus Adjusted All		(2) (3)		RVU P	мрм			Risk Adi RVU	PMPM (2)		Ben	Risk Adjuster efit Adi RVU P				
		2017 HHS Model		Plan																														
Hospital Name and Medicare ID (5)	Medical MMs	Platinum Risk Score	Plan Coinsurance	Coinsurance Range	Incatient	Outpatient P	Prof / Other	Inpatient (	utpatient Prof /	Other Int	patient (4) C	utratient	Prof / Other	Total	Inpatient (4)	Outratient	Prof / Other	Total	Innatient (4)	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Innatient	Outpatient F	nof / Other	Total	Inpatient (	Outpatient Pro	of / Other	Total
								-																										
Total - All PSAPs	15,524,694	1.403	89.2%	85%-95%	1.039	1.035	1.029	1.047	1.034	1.041	\$76.21	\$95.16	\$211.12	\$382.49	\$76.21	\$95.16	\$211.12	\$382.49	\$72.75	\$92.07	\$202.72	\$367.54	0.87	1.31	5.02	7.21	0.87	1.31	5.02	7.21	0.84	1.27	4.88	6.99
210023 ANNE ARUNDEL	1,060,239	1.334	88.2%	85%-95%	1.034	1.030	1.024	1.039	1.029	1.035	\$67.18	\$83.02	\$214.69	\$364.89	\$70.68	\$87.33	\$225.85	\$383.86	\$68.00	\$84.84	\$218.15	\$370.99	0.77	1.25	5.20	7.22	0.81	1.31	5.47	7.60	0.78	1.28	5.35	7.40
210061 ATLANTIC GENERAL	71,404	1.437		85%-95%	1.019	1.015	1.012	1.016		1.018	\$87.41	\$106.35	\$181.88	\$375.63	\$85.37	\$103.87	\$177.65	\$366.89	\$84.00	\$102.09	\$174.52	\$360.61	0.93	1.47	4.76	7.16	0.91	1.44	4.65	7.00	0.89	1.42	4.60	6.91
210043 BALTIMORE WASHINGTON 210013 BON SECOURS	746,868 23.678	1.460	89.5% 91.8%	85%-95% 85%-95%	1.040	1.037	1.030	1.050		1.043	\$79.46 \$114.83	\$86.58 \$157.05	\$211.67 \$193.00	\$377.71 \$464.87	\$76.35 \$86.65	\$83.19 \$118.51	\$203.39 \$145.64	\$362.93 \$350.80	\$72.74 \$79.97	\$80.40 \$113.76	\$195.00 \$139.12	\$348.14 \$332.86	0.99	1.26 1.83	5.19 4.64	7.44	0.95	1.21	4.99 3.50	7.15	0.92	1.17	4.84	6.93 5.81
210013 BON SECONS 210039 CALVERT	296,369	1.660		85%-95%	1.061	1.043	1.039	1.064	1.042	1.047	\$114.03	\$157.05	\$193.00	6904.07	\$00.00 \$60.00	\$110.01	\$140.04 \$205.02	\$300.80	\$75.57 CCE CC	\$113.70	\$130.12	\$353.25	0.77		4.04	0.04	0.75		3.30	0.00	0.72	1.32	3.37	6.43
210032 CARROLL COUNTY	658.525	1.350		85%-95%	1.038	1.034	1.028	1.046	1.033	1.040	\$70.52	\$94.81	\$203.19	\$368.52	\$73.27	\$98.52	\$211.14	\$382.94	\$70.05	\$95.39	\$202.95	\$368.39	0.81	1.49	4.82	7.13	0.85	1.55	5.01	7.40	0.81	1.50	4.87	7.19
210035 CHARLES REGIONAL	381.331	1.472			1.051	1.041	1.035	1.067		1.046	\$89.31	\$100.19	\$214.58	\$404.08	\$85.16	\$95.54	\$204.63	\$385.33	\$79.83	\$91.96	\$195.55	\$367.33	0.96	1.30	4.91	7.18	0.92	1.24	4.69	6.85	0.87	1.19	4.53	6.59
210030 CHESTERTOWN	85.473	1 447		85%-95%	1.041	1.038	1.030	1.051		1.040	\$108.20	\$120.19	\$183.77	\$412.16	\$104.95	\$116.58	\$178.24	\$399.77	\$99.85	\$112.59	\$170.71	\$383.15	1.08	1.33	4.28	6.70	1.04	1.29	4.16	6.49	1.00	1.25	4.03	6.28
210051 DOCTORS COMMUNITY	395,791	1.478		85%-95%	1.044	1.040	1.032	1.056		1.046	\$73.78	\$90.43	\$205.86	\$370.07	\$70.04	\$85.86	\$195.44	\$351.34	\$66.34	\$82.78	\$186.81	\$335.93	0.81	1.17	4.93	6.91	0.77	1.11	4.68	6.56	0.73	1.07	4.54	6.34
210037 EASTON				85%-95%		1.036			1.034													\$377.26									0.81			7.11
210015 FRANKLIN SQUARE	336,594	1.601	90.6%	85%-95%	1.049	1.041	1.034	1.064		1.046	\$80.99	\$111.37	\$237.19	\$429.55	\$71.00	\$97.62	\$207.91	\$376.53	\$66.72	\$94.00	\$198.70	\$359.41	1.03	1.63	5.00	7.66	0.91	1.43	4.38	6.71	0.86	1.37	4.24	6.47
210005 FREDERICK MEMORIAL	945.803	1.274	89.0%	85%-95%	1.038	1.034	1.027	1.045	1.032	1.040	\$69.37	\$71.60	\$220.52	\$361.49	\$76.42	\$78.88	\$242.95	\$398.25	\$73.11	\$76.40	\$233.64	\$383.14	0.78	1.04	5.28	7.10	0.86	1.15	5.82	7.83	0.83	1.11	5.66	7.60
210060 FT. WASHINGTON	87,788	1.653	90.0%	85%-95%	1.043	1.039	1.032	1.054	1.037	1.046	\$105.70	\$123.13	\$206.45	\$435.28	\$89.74	\$104.55	\$175.29	\$369.59	\$85.15	\$100.83	\$167.56	\$353.54	1.07	1.35	4.74	7.17	0.91	1.15	4.03	6.08	0.87	1.10	3.90	5.88
210044 G.B.M.C.	414,008	1.324		85%-95%	1.032	1.029	1.023	1.037		1.034	\$68.46	\$92.72	\$200.02	\$361.20	\$72.58	\$98.30	\$212.07	\$382.96	\$69.99	\$95.61	\$205.19	\$370.80	0.81	1.36	4.83	7.00	0.86	1.45	5.12	7.43	0.83	1.41	5.01	7.25
210017 GABRETT COUNTY	48,677	1.576		85%-95%	1.036	1.032	1.026	1.043		1.038	\$83.67	\$187.34	\$142.62	\$413.63	\$74.51	\$166.83	\$127.01	\$368.35		\$161.80	\$122.38	\$355.64	0.68	2.18	3.49	6.35	0.60	1.94		5.65	0.58	1.88	3.03	5.49
210056 GOOD SAMARITAN	183,047	1.721			1.061	1.043	1.039	1.084		1.047	\$86.47	\$128.04	\$219.51	\$434.02	\$70.51	\$104.40	\$178.98	\$353.88	\$65.06	\$100.22	\$170.97	\$336.24	1.13	1.63	5.35	8.11	0.92	1.33	4.36	6.62	0.87	1.27	4.20	6.34
210034 HARBOR	86,265	1.654		85%-95%	1.041	1.037	1.030	1.050		1.044	\$102.12	\$126.32	\$208.11	\$436.56	\$86.65	\$107.19	\$176.59	\$370.43	\$82.50	\$103.55	\$169.21	\$355.26	1.31	1.63	5.06	8.00	1.11	1.38	4.29	6.79	1.07	1.34	4.16	6.57
210006 HARFORD	94,712	1.467		85%-95%	1.038	1.035	1.028	1.046		1.041	\$85.99	\$113.88	\$202.12	\$401.99	\$82.25	\$108.92	\$193.33	\$384.50	\$78.60	\$105.44	\$185.78	\$369.83	0.98	1.48	4.98	7.44	0.93	1.41	4.76	7.11	0.90	1.37	4.63	6.90
210065 HC-GERMANTOWN	137,825	1.265		85%-95%	1.036	1.032	1.026	1.043	1.031	1.038	\$63.43	\$72.81	\$218.69	\$354.92	\$70.34	\$80.75	\$242.52	\$393.61	\$67.44	\$78.29	\$233.62	\$379.36	0.66	1.05	5.18	6.90	0.73	1.17	5.75	7.65	0.71	1.13	5.60	7.44
210004 HOLY CROSS 210029 HOPKINS BAYVIEW MED CTR	696,327 140,591	1.299	88.0%	85%-95%	1.036	1.032	1.026	1.042	1.031	1.037	\$104.71		\$217.57	\$428.12	\$90.00	\$105.72	\$234.95	\$367.98	\$67.29 \$85.57	\$102.06	\$226.47 \$164.91	\$352.54	1.32	1.02	0.1D 4.64	6.90	0.78	1.10	3.99	6.51	0.75	1.07	3.87	6.29
210029 HOPKINS BATVIEW MED CTR 210048 HOWARD COUNTY	915.814	1.263		85%-95%	1.042	1.033	1.027	1.045		1.045	\$60.92	\$122.99 \$76.59	\$210.42	\$347.79	\$67.68	\$85.09	\$233.58	\$386.35	\$64.79	\$82.44	\$224.76	\$371.99	0.73	1.14	5.29	7.57	0.81	1.39	5.87	7.95	0.78	1.23	5.72	7.73
210048 HOWARD COUNTY 210009 JOHNS HOPKINS	915,814	1.263	88.9%	85%-95%	1.037	1.033	1.027	1.045		1.039	\$86.09	\$76.59	\$210.27 \$194.77	\$407.72	\$77.20	\$85.09	\$233.58	\$365.61	\$64.79	\$82.44	\$224.76		1.07	1.14	4.61	7.16	0.81	1.2/	4.14	6.52	0.78	1.23	4.03	6.33
210005 LAUREL REGIONAL	100,005	0.000		00%-00%	n/a	n/a	n/a	n/a	n/a	n/a	\$0.00	\$120.00	\$0.00	\$0.00	a//.20	a113.76 n/a	a1/4.00 n/a	\$0.00	a/ 3.61 n/a	arro.rb nla	a107.09	\$0.00	0.00	0.00	0.00	0.00	0.96	n/a	+.1+ n/a	0.02	0.93 n/a	n/a	4.03 n/a	0.00
210064 LEVINDALE	83			85%-95%	1.047	1 040	1 0 2 2	1.060		1.046	\$110.85		\$222.00	\$450.74				\$415.55	\$96.42		\$195.61	\$396.75	1 22	1.64	5 30	8.07	1.12	1.42	4.89	7.44	1.07		4.73	7.17
210045 MCCREADY	8.403	1.939			1.062	1044	1.039	1.085		1.047	\$95.69	\$134.22	\$202.29	\$432.19	\$69.23	\$97.11	\$146.37	\$312.71	\$63.81	\$93.20	\$139.82	\$296.83	1.18	1.89	5.02	8.10	0.86	1.37	3.63	5.86	0.81	1.31	3.50	5.61
210008 MERCY	177.050	1.684	91.0%	85%-95%	1.053	1.042	1.036	1.070		1.047	\$96.70	\$133.48	\$202.59	\$432.77	\$80.57	\$111.22	\$168.79	\$360.58	\$75.28	\$106.99	\$161.29		1.18	1.63	4.85	7.67	0.99	1.36	4.04	6.39	0.94	1.31	3.90	6.14
210001 MERITUS	394,477	1.473	89.0%	85%-95%	1.038	1.034	1.028	1.046	1.033	1.040	\$87.80	\$95.56	\$206.74	\$390.10	\$83.65	\$91.05	\$196.97	\$371.67	\$79.97	\$88.15	\$189.34	\$357.47	0.98	1.45	4.60	7.03	0.93	1.38	4.38	6.70	0.90	1.34	4.27	6.50
210018 MONTGOMERY GENERAL	251,180	1.288		85%-95%	1.038	1.035	1.028	1.046		1.041	\$58.42	\$92.96	\$231.79	\$383.17	\$63.64	\$101.28	\$252.53	\$417.46	\$60.83	\$98.05	\$242.70	\$401.58	0.69	1.21	5.42	7.32	0.75	1.31	5.91	7.98	0.73	1.27	5.75	7.75
210040 NORTHWEST	235,621	1.549	90.6%	85%-95%	1.049	1.041	1.034	1.063	1.038	1.046	\$99.19	\$118.48	\$217.18	\$434.85	\$89.88	\$107.37	\$196.80	\$394.05	\$84.56	\$103.40	\$188.08	\$376.05	1.18	1.56	5.20	7.93	1.07	1.41	4.71	7.19	1.02	1.36	4.55	6.93
210019 PENINSULA REGIONAL	396,355	1.521	89.0%		1.038	1.034	1.027	1.045		1.040	\$81.37	\$104.15	\$197.89	\$383.42	\$75.08	\$96.10	\$182.60	\$353.79	\$71.82	\$93.08	\$175.60	\$340.50	0.98	1.43	5.07	7.48	0.91	1.32	4.68	6.90	0.87	1.27	4.56	6.70
210003 PRINCE GEORGE	233,152	1.671	90.3%	85%-95%	1.046	1.040	1.033	1.058		1.046	\$87.91	\$109.03	\$200.19	\$397.13	\$73.83	\$91.56	\$168.13	\$333.52	\$69.78	\$88.25	\$160.69	\$318.72	1.01	1.35	4.68	7.05	0.85	1.14	3.93	5.92	0.81	1.09	3.81	5.71
210057 SHADY GROVE	957,180	1.293	88.4%	85%-95%	1.035	1.031	1.025	1.041		1.037	\$63.35	\$77.26	\$225.87	\$366.49	\$68.77	\$83.87	\$245.18	\$397.81	\$66.05	\$81.40	\$236.51	\$383.96	0.69	1.12	5.32	7.12	0.75	1.21	5.77	7.73	0.72	1.17	5.63	7.53
210012 SINAI	430,111	1.567		85%-95%	1.049	1.041	1.034	1.064		1.046	\$119.30	\$123.64	\$225.48	\$468.42	\$106.83	\$110.72	\$201.92	\$419.47	\$100.40	\$106.61	\$192.97	\$399.98	1.28	1.59	5.37	8.24	1.15	1.43	4.81	7.38	1.09	1.37	4.65	7.11
210062 SOUTHERN MARYLAND				85%-95%	1.054		1.036	1.072	1.040			\$102.48		\$403.72	\$87.09	\$92.86		\$365.83		\$89.31		\$348.19	1.01	1.26	4.70	6.96	0.92		4.25	6.31	0.07		4.11	6.07
210011 ST. AGNES	366,175	1.420		85%-95%	1.046	1.040	1.033	1.059		1.046	\$73.98	\$105.53	\$196.33	\$375.84	\$73.09	\$104.26	\$193.96	\$371.31	\$69.04	\$100.48	\$185.39	\$354.91	0.90	1.42	4.84	7.16	0.89	1.40	4.78	7.07	0.85	1.35	4.63	6.83
210028 ST. MARY 210022 SUBURBAN	256,396 738.676	1.370		85%-95% 85%-95%	1.033	1.029	1.023	1.037		1.034	\$81.61 \$53.99	\$101.00 \$82.61	\$208.71 \$236.88	\$391.33 \$373.48	\$83.59 \$65.18	\$103.45 \$99.73	\$213.78 \$285.96	\$400.83 \$450.87	\$80.59 \$63.65	\$100.60 \$97.63	\$206.80 \$279.32	\$388.00 \$440.60	0.93	1.32	4.53 5.34	6.78 7.08	0.95	1.35 1.39	4.64	6.95 8.54	0.92	1.31	4.54	6.77 8.40
210022 SUBURBAN 210063 UM ST. JOSEPH	509.258	1.162	86.3%	85%-95%	1.024	1.020	1.016	1.024		1.024	\$73.46	\$98.38	\$236.88	\$376.54	\$75.21	\$99.73	\$285.96	\$450.87 \$385.52	\$03.00	\$97.63	\$279.32		0.58	1.15	4.91	7.08	0.71	1.39	5.02	7.37	0.69	1.37	4.89	7.16
210083 UMMC MIDTOWN	47,404	1.689		85%-95%	1.057	1.033	1.028	1.044		1.0.30	\$105.60	\$133.07	\$102.80	\$432.45	\$97.76	\$111.34	\$160.30	\$350.02	\$80.95		\$201.82	\$340.95	1.27	1.91	4.91	7.45	4.05	1.94	3.02	6 10	0.07	1.25	3.68	5.93
210032 UNION HOSPITAL OF CECIL	192.592	1,421	88.2%		1.034	1.030	1.024	1.040	1.029	1.035	\$100.61	\$130.73	\$165.26	\$396.60	\$99.32	\$129.06	\$163.15	\$391.54	\$95.54	\$125.36	\$157.57	\$378.47	0.96	1.53	4.06	6.54	0.95	1.51	4.01	6.46	0.91	1.46	3.91	6.29
210024 UNION MEMORIAL	199.074	1.594	90.5%	85%-95%	1.048	1.040	1.034	1.061		1.046	\$81.53	\$121.05	\$214.97	\$417.55	\$71.75	\$106.54	\$189.19	\$367.48	\$67.60	\$102.63	\$180.82	\$351.04	0.97	1.51	5.18	7.66	0.85	1.33	4.56	6.74	0.81	1.28	4.41	6.50
210002 UNIVERSITY OF MARYLAND	100.964	1.598		85%-95%	1.051	1.041	1.035	1.066		1.046	\$92.04	\$129.35	\$183.64	\$405.03	\$80.80	\$113.56	\$161.22	\$355.58	\$75.78	\$109.31	\$154.07	\$339.16	1.19	1.54	4.42	7.15	1.04	1.35	3.88	6.27	0.99	1.30	3.75	6.04
210049 UPPER CHESAPEAKE HEALTH	707.209	1.332			1.037	1.033	1.027	1.044		1.039	\$69.94	\$90.84	\$200.00	\$360.78	\$73.69	\$95.71	\$210.72	\$380.11	\$70.57	\$92.75	\$202.82		0.83	1.31	4.84	6.98	0.88	1.38	5.10	7.36	0.85	1.34	4.97	7.15
210016 WASHINGTON ADVENTIST		1.403							1.035																									
210027 WESTERN MARYLAND	176,075	1.703	91.9%	85%-95%	1.062	1.044	1.039	1.085	1.042	1.047	\$101.37	\$146.53	\$175.16	\$423.06	\$83.52	\$120.72	\$144.30	\$348.54	\$77.01	\$115.86	\$137.85	\$330.72	1.11	1.85	4.39	7.35	0.91	1.53	3.62	6.06	0.86	1.46	3.48	5.80

# Exhibit 3a CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits CHBD Claims Incurred 1/2021 through 12/2021 (Adjusted to Estimated Utilmate Incurred) Summary of Experience by Maryland Region and MSA Commercial and Individual LOBs, Limited to Members Under Age 55 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical eligibility with valid risk scores, i.e. the risk score shown equals total risk score over total Medical.
 (2) Maryland regional benchmark totals are based on an average of the benchmark MSA results. The total across all MSAs is a member-weighted average across all MSAs is used in the regional benchmarks.
 (3) Mormalized to 2021 APCD data for all Maryland counses which has a risk score of 14033.
 (4) Teaching hospital amounts are removed from inpatient allowed and paid amounts (except SMF, newborn, and residential treatments) based on the FY2017 per diem rates (trended to FY2021 with an annual rate 2.25%) at the provider level from file we received from Maryland HSCRS on 1211/12019 ramed<sup>4</sup> for hospital file for counserial areas and to MESA level.

		Member Monti	hs and Risk			Total Al	lowed				AI	lowed PMPM				RV	Us PMPM				Allowed Pe	r RVU	
	-		2017 HHS Model			Inpatient w/									-								
MSA	MSA Name (2)	Medical MMs	Platinum Risk Score (1)	Inpatient	Teaching Hospital Adjustment	Teaching Adjustment (4)	Outpatient	Prof / Other	Total	Inpatient (4)	Ordeneticent	Deef / Other	Total	Total - Risk Adiusted (3)	less etilest	Outpatient Pro	of / Others		tal - Risk usted (3)	Inpatient	Outpatient P	of / Other	Total
MOA	MSA Name (2)	Medical Minis	30018(1)	Inpatient	Adjustment	Aujustment (4)	Outpatient	Plot / Other	TOtal	Inpatient (4)	Outpatient	PIOL/ Outlet	TOTAL	Adjusted (3)	inpatient	Outpatient Pro	or / Other	Total Adj	usieu (3)	inpatient	Outpatient P	IOI / Other	Total
All	All MSAs in this Exhibit	122,794,612	1.499							\$110.51	\$148.66	\$190.58	\$449.75	\$420.95	0.98	1.48	3.81	6.26	5.86	\$113.13	\$100.51	\$50.08	\$71.83
MD1	MD1 (Southern MD)	60,340,175	1.465							\$108.22	\$145.74	\$194.75	\$448.71	\$429.84	0.94	1.49	3.78	6.20	5.94	\$115.61	\$97.85	\$51.53	\$72.32
MD2	MD2 (Western MD)	7,107,997	1.544							\$115.24	\$157.63	\$158.75	\$431.62	\$392.38	1.10	1.66	3.46	6.22	5.65	\$105.11	\$94.92	\$45.87	\$69.41
MD3	MD3 (Eastern Shore)	7,722,622	1.562							\$114.95	\$163.94	\$166.10	\$445.00	\$399.89	1.11	1.67	3.59	6.37	5.72	\$103.47	\$97.92	\$46.33	\$69.85
MD4	MD4 (Northern DC Suburbs) MD5 (Baltimore Area)	52,025,580	1.395 1.491							\$110.15	\$147.94	\$197.30	\$455.39 \$450.79	\$458.05	0.86	1.38	3.64	5.88 6.37	5.92	\$127.95	\$107.11	\$54.22 \$51.03	\$77.43 \$70.82
MD5	MDS (Balumore Area)	82,135,977	1.491							\$105.19	\$150.23	\$195.36	\$450.79	\$424.19	0.99	1.55	3.83		5.99	\$106.33	\$97.08	\$51.03	
10900	Allentown-Bethlehem-Easton, PA-NJ	2,825,123	1.675	\$333,966,858	\$9,653,371	\$324,313,487	\$620,843,586	\$443,393,876		\$114.80	\$219.76	\$156.95	\$491.50	\$411.84	1.18	2.09	3.57	6.84	5.73	\$97.20	\$104.91	\$44.01	\$71.83
11244	Anaheim-Santa Ana-Irvine, CA	2,306,165	1.280	\$226,043,580	\$3,128,325	\$222,915,255	\$248,279,838	\$276,254,217	\$747,449,310	\$96.66	\$107.66	\$119.79	\$324.11	\$355.31	0.59	0.85	2.61	4.05	4.44	\$164.42	\$126.55	\$45.82	\$79.97
12060	Atlanta-Sandy Springs-Alpharetta, GA	7,944,026	1.465	\$1,017,566,311	\$10,977,313	\$1,006,588,999	\$1,357,735,772	\$1,487,654,291	\$3,851,979,061	\$126.71	\$170.91	\$187.27	\$484.89	\$464.55	0.89	1.51	3.41	5.81	5.56	\$142.10	\$113.51	\$54.95	\$83.52
12260	Augusta-Richmond County, GA-SC	497,893	1.545	\$45,653,347	\$2,344,783	\$43,308,564	\$63,733,198	\$70,955,475	\$177,997,237	\$86.98	\$128.01	\$142.51	\$357.50	\$324.71	1.05	1.53 1.82	3.44	6.03	5.48	\$82.63 \$82.56	\$83.47	\$41.38 \$41.48	\$59.29 \$67.40
13140 14010	Beaumont-Port Arthur, TX Bloomington, IL	336,657 670,236	1.768	\$37,826,223 \$58,325,428	\$425,939 \$484.004	\$37,400,285 \$57.841,425	\$66,543,305 \$111,799,808	\$51,504,366 \$143,008,655	\$155,447,955 \$312,649,888	\$111.09 \$86.30	\$197.66 \$166.81	\$152.99 \$213.37	\$461.74 \$466.48	\$366.39 \$442.86	1.35	1.64	3.69 4.52	6.85 6.97	5.44 6.62	\$106.70	\$108.82 \$101.41	\$47.20	\$66.88
14454	Boston MA	2.772.650	1.469	\$282,081,422	\$22,055,336	\$260,026,086	\$409,899,903	\$600,852,091	\$1,270,778,081	\$93.78	\$147.84	\$216.71	\$458.33	\$437.68	1.06	1.66	3.68	6.40	6.11	\$88.36	\$89.14	\$58.96	\$71.67
14860	Bridgeport-Stamford-Norwalk, CT	457.162	1.357	\$58,971,370	\$2,754,851	\$56,216,518	\$77,212,518	\$102,778,592	\$236,207,629	\$122.97	\$168.90	\$224.82	\$516.68	\$534.49	0.92	1.51	4.10	6.53	6.76	\$134.39	\$111.60	\$54.79	\$79.10
15764	Cambridge-Newton-Framingham, MA	3,943,987	1.424	\$345,398,710	\$20,904,384	\$324,494,327	\$563,416,243	\$846,682,641	\$1,734,593,211	\$82.28	\$142.85	\$214.68	\$439.81	\$433.44	0.92	1.68	3.67	6.27	6.18	\$89.49	\$84.99	\$58.55	\$70.18
15804	Camden, NJ	1,331,998	1.571	\$162,222,531	\$5,462,934	\$156,759,596	\$212,477,430	\$266,950,313	\$636,187,339	\$117.69	\$159.52	\$200.41	\$477.62	\$426.61	1.08	1.57	3.94	6.59	5.89	\$108.72	\$101.54	\$50.85	\$72.43
16984	Chicago-Naperville-Evanston, IL	2,565,671	1.405	\$218,500,355	\$13,042,897	\$205,457,458	\$404,531,584	\$487,368,068	\$1,097,357,110	\$80.08	\$157.67	\$189.96	\$427.71	\$427.11	0.91	1.45	4.23	6.59	6.58	\$87.98	\$108.77	\$44.95	\$64.94
17660	Coeur d'Alene, ID	580,703	1.354	\$49,608,323	\$50,421	\$49,557,902	\$74,194,096	\$85,327,454	\$209,079,451	\$85.34	\$127.77	\$146.94	\$360.05	\$373.07	0.83	1.42	2.92	5.17	5.36	\$103.02	\$90.12	\$50.28	\$69.66
18880	Crestview-Fort Walton Beach-Destin, FL	124,317	1.729	\$17,022,020	\$36,159	\$16,985,860	\$24,748,759	\$20,009,671	\$61,744,290	\$136.63	\$199.08	\$160.96	\$496.67	\$403.06	1.28	2.22	3.52	7.03	5.70	\$106.34	\$89.67	\$45.70	\$70.68 \$69.67
19124 19300	Dallas-Plano-Irving, TX Daphne-Fairhope-Foley, AL	17,754,048 81,779	1.549 1.517	\$2,099,708,621 \$6,126,180	\$25,284,549 \$64,932	\$2,074,424,072 \$6.061.247	\$2,756,630,209 \$8,182,143	\$3,390,180,047 \$13,479,447	\$8,221,234,328 \$27,722,837	\$116.84 \$74.12	\$155.27 \$100.05	\$190.95 \$164.83	\$463.06 \$339.00	\$419.52 \$313.65	1.08 1.05	1.37 1.70	4.19 4.12	6.65 6.87	6.02 6.36	\$107.96 \$70.57	\$113.25 \$58.85	\$45.54 \$39.98	\$69.67 \$49.32
19300	Daprine-Faimope-Poley, AL Davenport-Moline-Rock Island, IA-IL	1.215.959	1.471	\$85,464,624	\$2,822,783	\$82.641.841	\$176,086,423	\$210.984.793	\$469.713.058	\$74.12	\$100.05	\$104.03	\$386.29	\$368.46	0.91	1.76	3.38	6.05	5.78	\$74.59	\$30.03	\$59.90	\$63.80
21060	Elizabethtown-Fort Knox, KY	60.912	1.602	\$6,663,389	\$86,017	\$6,577,372	\$9,495,833	\$8,649,036	\$24,722,241	\$107.98	\$155.89	\$141.99	\$405.87	\$355.63	1.28	1.75	3.52	6.55	5.74	\$84.38	\$88.97	\$40.36	\$61.96
22744	Fort Lauderdale-Pompano Beach-Sunrise, FL	1,108,095	1.726	\$119,016,224	\$1,066,230	\$117,949,993	\$158,431,438	\$156,412,739	\$432,794,171	\$106.44	\$142.98	\$141.15	\$390.58	\$317.57	1.30	1.81	3.15	6.26	5.09	\$82.16	\$78.78	\$44.86	\$62.42
23104	Fort Worth-Arlington-Grapevine, TX	7,429,739	1.626	\$1,014,047,318	\$6,964,170	\$1,007,083,147	\$1,286,011,786	\$1,417,100,976	\$3,710,195,909	\$135.55	\$173.09	\$190.73	\$499.37	\$430.90	1.20	1.44	4.13	6.76	5.83	\$113.36	\$120.50	\$46.20	\$73.86
25540	Hartford-East Hartford-Middletown, CT	679,254	1.411	\$71,678,615	\$3,514,921	\$68,163,695	\$102,251,937	\$128,179,200	\$298,594,831	\$100.35	\$150.54	\$188.71	\$439.59	\$437.32	0.90	1.52	3.72	6.14	6.11	\$111.01	\$98.99	\$50.74	\$71.55
25940	Hilton Head Island-Bluffton, SC	79,296	1.530	\$10,132,050	\$289,159	\$9,842,891	\$14,045,561	\$11,589,332	\$35,477,784	\$124.13	\$177.13	\$146.15	\$447.41	\$410.23	1.23	1.74	3.51	6.49	5.95	\$100.73	\$101.60	\$41.61	\$68.96
26420	Houston-The Woodlands-Sugar Land, TX	6,083,178	1.551	\$714,393,115	\$11,683,826	\$702,709,289	\$878,482,298	\$947,316,507	\$2,528,508,094	\$115.52	\$144.41	\$155.73	\$415.66	\$376.15	1.14	1.38	3.66	6.18	5.59	\$101.03	\$104.97	\$42.51	\$67.24
27900	Joplin, MO	153,462	1.565	\$25,248,243	\$130,988	\$25,117,255	\$29,604,062	\$18,580,277	\$73,301,594	\$163.67	\$192.91	\$121.07	\$477.65	\$428.26	1.45	1.95	2.65	6.05	5.43	\$112.69	\$99.07	\$45.65	\$78.93
28740	Kingston, NY Lafayette, LA	55,370 1,409,654	1.521 1.577	\$9,566,199 \$156,973,672	\$139,173 \$1,044,939	\$9,427,025 \$155,928,733	\$6,907,913 \$200,525,907	\$11,717,264 \$252,243,916	\$28,052,202 \$608,698,556	\$170.26 \$110.61	\$124.76 \$142.25	\$211.62 \$178.94	\$506.63 \$431.81	\$467.32 \$384.22	0.99	1.20 1.67	3.85 4.10	6.04 6.98	5.57 6.21	\$172.01 \$91.60	\$104.02	\$55.00 \$43.62	\$83.92 \$61.89
29180 29404	Lalayette, LA Lake County-Kenosha County, IL-WI	398.747	1.437	\$36,852,623	\$1.081.110	\$35,771,514	\$74,050,491	\$84.683.597	\$194,505,602	\$89.71	\$142.25	\$212.37	\$487.79	\$304.22	0.90	1.60	4.10	6.71	6.55	\$99.32	\$85.29 \$115.81	\$50.57	\$72.73
30980	Longview. TX	197,739	1.835	\$21,078,281	\$121,014	\$20,957,267	\$53,552,786	\$34,409,557	\$108,919,609	\$105.98	\$270.83	\$174.02	\$550.83	\$421.25	1.31	2.38	3.76	7.45	5.69	\$80.79	\$113.96	\$46.30	\$73.97
31180	Lubbock, TX	113,342	1.521	\$10,223,322	\$190,559	\$10,032,763	\$20,146,954	\$14,820,469	\$45,000,186	\$88.52	\$177.75	\$130.76	\$397.03	\$366.30	1.06	1.59	3.26	5.90	5.44	\$83.78	\$112.06	\$40.14	\$67.29
31340	Lynchburg, VA	100,679	1.529	\$10,505,595	\$147,654	\$10,357,942	\$14,695,114	\$13,232,636	\$38,285,692	\$102.88	\$145.96	\$131.43	\$380.27	\$349.11	0.82	1.31	3.08	5.21	4.78	\$126.09	\$111.50	\$42.62	\$73.01
33460	Minneapolis-St. Paul-Bloomington, MN-WI	8,174,198	1.382	\$769,365,116	\$14,483,947	\$754,881,169	\$863,894,738	\$1,777,879,123	\$3,396,655,030	\$92.35	\$105.69	\$217.50	\$415.53	\$421.89	0.86	1.34	3.48	5.67	5.76	\$107.90	\$79.00	\$62.56	\$73.28
33860	Montgomery, AL	106,327	1.545	\$10,173,530	\$34,570	\$10,138,960	\$8,365,438	\$16,561,596	\$35,065,993	\$95.36	\$78.68	\$155.76	\$329.79	\$299.47	1.15	1.51	3.97	6.63	6.02	\$83.03	\$52.05	\$39.19	\$49.71
33874	Montgomery County-Bucks County-Chester County, PA	6,600,651	1.643	\$700,515,002	\$28,572,210	\$671,942,791	\$829,584,830	\$1,192,058,654	\$2,693,586,276	\$101.80	\$125.68	\$180.60	\$408.08	\$348.57	1.11	1.66	4.10	6.86	5.86	\$91.66	\$75.94	\$44.09	\$59.47
34940 35004	Naples-Marco Island, FL Nassau County-Suffolk County, NY	143.873 1.903.919	1.688 1.593	\$15,729,931 \$357,198,967	\$202,096 \$14,513,050	\$15,527,835 \$342,685,917	\$25,089,236 \$297,634,723	\$23,156,903 \$502,298,813	\$63,773,975 \$1,142,619,454	\$107.93 \$179.99	\$174.38 \$156.33	\$160.95 \$263.82	\$443.27 \$600.14	\$368.56 \$528.56	1.13 1.09	2.30 1.36	3.36 4.81	6.80 7.26	5.65 6.40	\$95.54 \$164.77	\$75.73 \$114.59	\$47.85 \$54.90	\$65.22 \$82.64
35084	Newark, NJ-PA	1.378.824	1.556	\$154,967,057	\$4.870.482	\$150.096.575	\$194,944,306	\$326.573.913	\$671.614.794	\$108.86	\$141.38	\$236.85	\$487.09	\$439.18	0.98	1.48	4.42	6.89	6.21	\$111.29	\$95.31	\$53.53	\$70.74
35300	New Haven-Milford, CT	302.001	1.492	\$41.301.057	\$4,012,102	\$37,288,956	\$57,134,274	\$61.094.566	\$155,517,795	\$123.47	\$189.19	\$202.30	\$514.96	\$484.47	1.00	1.79	3.84	6.63	6.23	\$123.85	\$105.47	\$52.73	\$77.71
35614	New York-Jersey City-White Plains, NY-NJ	8,999,017	1.497	\$1,382,963,971	\$99,271,302	\$1,283,692,668	\$1,364,058,273	\$2,144,417,283	\$4,792,168,224	\$142.65	\$151.58	\$238.29	\$532.52	\$499.28	0.97	1.41	4.33	6.71	6.30	\$146.42	\$107.44	\$55.04	\$79.31
36084	Oakland-Berkeley-Livermore, CA	1,156,740	1.155	\$144,457,681	\$1,565,125	\$142,892,556	\$183,923,070	\$210,254,996	\$537,070,622	\$123.53	\$159.00	\$181.77	\$464.30	\$564.09	0.59	0.95	3.07	4.61	5.60	\$209.22	\$167.81	\$59.16	\$100.70
37100	Oxnard-Thousand Oaks-Ventura, CA	378,073	1.355	\$47,069,860	\$343,117	\$46,726,744	\$45,322,138	\$67,686,060	\$159,734,941	\$123.59	\$119.88	\$179.03	\$422.50	\$437.63	0.83	1.02	3.67	5.51	5.71	\$149.21	\$117.90	\$48.79	\$76.62
37460	Panama City, FL	62,610	1.752	\$6,964,965	\$50,735	\$6,914,230	\$9,475,133	\$11,415,087	\$27,804,450	\$110.43	\$151.34	\$182.32	\$444.09	\$355.79	1.31	1.92	4.00	7.24	5.80	\$84.29	\$78.66	\$45.56	\$61.37
37900 39300	Peoria, IL Providence-Warwick, RI-MA	1,446,268 1,959,197	1.492 1.611	\$154,527,592 \$195.053.874	\$3,723,320 \$14,421,041	\$150,804,273 \$180,632,833	\$320,293,087 \$259,207,890	\$241,825,991 \$352,187,909	\$712,923,350 \$792.028.632	\$104.27 \$92.20	\$221.46 \$132.30	\$167.21 \$179.76	\$492.94 \$404.26	\$463.54 \$352.10	0.93	1.67 1.83	3.67 3.76	6.27 6.68	5.89 5.82	\$112.03 \$84.50	\$132.68 \$72.31	\$45.59 \$47.79	\$78.66 \$60.50
40220	Providence-warwick, REMA Roanoke VA	1,959,197	1.611	\$195,053,874 \$18,782,431	\$14,421,041 \$435,523	\$180,632,833 \$18,346,908	\$259,207,890 \$20,424,102	\$352,187,909 \$20,360,567	\$792,028,632 \$59,131,577	\$92.20	\$132.30 \$141.44	\$1/9.76	\$404.26	\$352.10	1.09	1.83	3.76	5.47	5.82	\$84.50 \$124.26	\$72.31 \$110.39	\$47.79 \$44.49	\$50.50
41740	San Diego-Chula Vista-Carlsbad, CA	3.535.147	1.219	\$339,932,917	\$7,194,265	\$332,738,652	\$375,244,678	\$511,788,210	\$1,219,771,540	\$94.12	\$106.15	\$144.77	\$345.04	\$397.08	0.64	0.99	2.86	4.49	5.17	\$146.70	\$106.97	\$50.67	\$76.83
41884	San Francisco-San Mateo-Redwood City, CA	680.819	1.164	\$87,605,683	\$3,394,160	\$84,211,523	\$148,597,626	\$153,617,004	\$386,426,153	\$123.69	\$218.26	\$225.64	\$567.59	\$684.41	0.61	1.17	3.18	4.96	5.99	\$203.01	\$186.36	\$70.87	\$114.33
41940	San Jose-Sunnvvale-Santa Clara, CA	1.624.094	1.214	\$212.687.527	\$3.702.891	\$208,984,636	\$293.872.447	\$258.692.794	\$761.549.878	\$128.68	\$180.95	\$159.28	\$468.91	\$541.85	0.63	1.04	2.38	4.05	4.68	\$205.65	\$173.61	\$66.90	\$115.81
42644	Seattle-Bellevue-Kent, WA	10,131,001	1.401	\$985,692,296	\$20,940,028	\$964,752,268	\$1,586,952,251	\$1,975,067,381	\$4,526,771,900	\$95.23	\$156.64	\$194.95	\$446.82	\$447.51	0.72	1.55	3.85	6.13	6.13	\$132.09	\$100.81	\$50.63	\$72.95
44100	Springfield, IL	61,331	1.469	\$6,398,420	\$220,281	\$6,178,139	\$12,295,633	\$12,614,252	\$31,088,023	\$100.73	\$200.48	\$205.67	\$506.89	\$484.20	1.06	1.54	3.66	6.25	5.97	\$95.28	\$130.57	\$56.25	\$81.12
46140	Tulsa, OK	555,042	1.676	\$58,920,524	\$781,885	\$58,138,639	\$79,427,005	\$79,776,024	\$217,341,668	\$104.75	\$143.10	\$143.73	\$391.58	\$327.85	1.37	1.65	3.50	6.51	5.45	\$76.37	\$86.88	\$41.12	\$60.11
46520	Urban Honolulu, HI	1,357,665	1.425	\$147,274,242	\$179,638	\$147,094,604	\$126,853,228	\$236,090,993	\$510,038,824	\$108.34	\$93.43	\$173.89	\$375.67	\$369.97	0.78	1.17	3.70	5.65	5.56	\$139.10	\$79.59	\$47.04	\$66.49
46540	Utica-Rome, NY	58,571	1.442	\$3,918,868	\$59,691	\$3,859,176	\$8,525,523	\$9,079,763	\$21,464,462	\$65.89	\$145.56	\$155.02	\$366.47	\$356.58	0.77	1.55	3.53	5.85	5.69	\$85.96	\$93.81	\$43.92	\$62.67
47664 48424	Warren-Troy-Farmington Hills, MI West Palm Beach-Boca Raton-Boynton Beach, FL	4,431,644 934,268	1.627 1.737	\$401,779,716 \$118,793,699	\$28,207,767 \$990,663	\$373,571,950 \$117,803,036	\$517,420,113 \$126,625,745	\$776,696,465 \$161,422,110	\$1,667,688,527 \$405,850,891	\$84.30 \$126.09	\$116.76 \$135.53	\$175.26 \$172.78	\$376.31 \$434.41	\$324.57 \$350.96	1.00 1.36	1.74 1.77	3.97 3.87	6.71 7.00	5.78 5.65	\$84.69 \$92.91	\$67.09 \$76.68	\$44.15 \$44.59	\$56.12 \$62.07
48424 48620	West Palm Beach-Boca Raton-Boynton Beach, FL Wichita KS	934,268 422,382	1.435	\$65,230,311	\$990,663	\$63.920.211	\$126,625,745 \$48,450,481	\$161,422,110 \$67,892,152	\$180,262,844	\$126.09 \$151.33	\$135.53 \$114.71	\$1/2.78	\$434.41	\$350.96	1.36	1.37	3.87	5.91	5.65	\$92.91 \$118.91	\$76.68 \$83.72	\$49.24	\$62.07 \$72.25
49340	Workester, MA-CT	2.912.485	1.591	\$302,869,146	\$23,532,716	\$279.336.430	\$417.027.738	\$606.073.546	\$1.302.437.714	\$95.91	\$143.19	\$208.10	\$447.19	\$394.56	1.02	1.69	3.51	6.22	5.49	\$94.45	\$84.52	\$59.29	\$71.90
49700	Yuba City, CA	56,227	1.302	\$11,733,931	\$59,276	\$11,674,655	\$10,046,295	\$9,451,202	\$31,172,152	\$207.63	\$178.67	\$168.09	\$554.39	\$597.64	0.83	1.03	2.59	4.45	4.80	\$248.97	\$173.42	\$64.95	\$124.52

# Exhibit 3b CY 2021 Milliman Benchmark and Maranar Ali-Paver Claims Database Cost and Utilization Exhibits CHSD Claims Incurred 1/2021 throwal to 22021 Chalasted to Estimated Utilimate Incurred) Plan Beneft Normalization Factors by Marahan Resion and MSA Commercial and and individue LOBE. Limited to Netmbers Under Aces 66 Stacubers Personicion Druosi

Italiard include devices tables are based on an average of the benchmark MSA results. The total across all MSAs is a member-weighted average across all MSAs used in the resional benchmarks.
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 Italiard include tables are more than annual rate 2.5%) at the provider level from file we received from Maryland HSCR to 121/1210 mand\*/totalpath

		2017 HHS Model		U Plan Benefit			wed Plan Bene alization Factor			Allowed I	РМРМ		Risk	Adiusted Allo	owed PMPM (	31	Benefit	Risk Adius Adiusted Al	ted and llowed PMPN	A (4)		RVU PM	РМ			Risk Adi RVU P	MPM (3)		Benet	Risk Adius it Adiusted	sted and RVU PMPM (4)	n
	MSA Name (1)	Platinum Risk Score	Inpatient	Outpatient P		1	Outpatient P		Inpatient (5)			T	Inpatient (5)			<b>T</b>	Inpatient (5) C			Total	Inpatient 0			Total	land the state of	Dutpatient Pro		Total	Inpatient C		D	<b>T</b>
MSA																																10031
All	All MSAs in this Exhibit	1.499	0.964	0.987	0.993	0.951	0.985	0.983	\$110.51	\$148.66	\$190.58	\$449.75	\$103.43	\$139.14	\$178.38	\$420.95	\$108.74	\$141.24	\$181.45	\$431.42	0.98	1.48	3.81	6.26	0.91	1.38	3.56	5.86	0.95	1.40	3.59	5.94
MD1 MD2	MD1 (Southern MD) MD2 (Western MD)	1.465 1.544	0.976	1.002	0.999	0.964	0.997	0.997	\$108.22 \$115.24	\$145.74 \$157.63	\$194.75 \$158.75	\$448.71 \$431.62	\$103.67 \$104.76	\$139.61 \$143.30	\$186.56 \$144.32	\$429.84 \$392.38	\$107.50 \$108.33	\$139.99 \$143.22	\$187.15 \$144.96	\$434.64 \$396.51	0.94	1.49 1.66	3.78 3.46	6.20 6.22	0.90	1.43 1.51	3.62 3.15	5.94 5.65	0.92	1.42 1.51	3.62 3.16	5.97 5.68
MD2 MD3	MD2 (Western MD) MD3 (Eastern Shore)	1.562	0.991	1.008	1.001	0.975	1.007	1.000	\$114.95	\$163.94	\$166.10	\$445.00	\$103.30	\$143.30	\$144.32	\$399.89	\$105.93	\$146.27	\$149.30	\$401.50	1.10	1.67	3.40	6.37	1.00	1.50	3.13	5.72	1.01	1.49	3.22	5.72
MD4	MD4 (Northern DC Suburbs)	1.395	0.986	1.012	1.014	0.973	0.995	1.011	\$110.15	\$147.94	\$197.30	\$455.39	\$110.79	\$148.80	\$198.45	\$458.05	\$113.85	\$149.49	\$196.36	\$459.69	0.86	1.38	3.64	5.88	0.87	1.39	3.66	5.92	0.88	1.37	3.61	5.86
MD5	MD5 (Baltimore Area)	1.491	1.001	1.010	1.008	0.993	1.007	1.006	\$105.19	\$150.23	\$195.36	\$450.79	\$98.98	\$141.37	\$183.83	\$424.19	\$99.64	\$140.41	\$182.80	\$422.85	0.99	1.55	3.83	6.37	0.93	1.46	3.60	5.99	0.93	1.44	3.57	5.95
10900	Allentown-Bethlehem-Easton, PA-NJ	1.675	1.033	1.029	1.023	1.037	1.028	1.034	\$114.80	\$219.76	\$156.95	\$491.50	\$96.19	\$184.14	\$131.51	\$411.84	\$92.73	\$179.07	\$127.21	\$399.01	1.18	2.09	3.57	6.84	0.99	1.76	2.99	5.73	0.96	1.71	2.92	5.59
11244	Anaheim-Santa Ana-Irvine, CA Atlanta-Sandy Springs-Alpharetta, GA	1.280 1.465	1.020	1.016	1.012	1.018	1.018 1.021	1.019	\$96.66 \$126.71	\$107.66 \$170.91	\$119.79 \$187.27	\$324.11 \$484.89	\$105.96 \$121.40	\$118.02 \$163.75	\$131.32 \$179.41	\$355.31 \$464.55	\$104.13 \$118.69	\$115.92 \$160.41	\$128.88 \$175.41	\$348.92 \$454.51	0.59	0.85	2.61 3.41	4.05 5.81	0.64	0.93	2.87 3.27	4.44	0.63	0.92	2.83 3.22	4.38 5.47
12260	Augusta-Richmond County, GA-SC	1.545	1.004	1.000	0.999	0.993	1.006	1.001	\$86.98	\$128.01	\$142.51	\$357.50	\$79.01	\$116.26	\$129.44	\$324.71		\$115.62	\$129.36	\$324.51	1.05	1.53	3.44	6.03	0.96	1.39	3.13	5.48	0.95	1.39	3.13	5.47
13140	Beaumont-Port Arthur, TX	1.768	1.008	1.003	1.002	0.999	1.008	1.005	\$111.09	\$197.66	\$152.99	\$461.74	\$88.15	\$156.84	\$121.40	\$366.39	\$88.28	\$155.56	\$120.85	\$364.69	1.35	1.82	3.69	6.85	1.07	1.44	2.93	5.44	1.06	1.44	2.92	5.42
14010	Bloomington, IL	1.478	1.031	1.027	1.022	1.035	1.027	1.032	\$86.30	\$166.81 \$147.84	\$213.37	\$466.48 \$458.33	\$81.93	\$158.36 \$141.18	\$202.57	\$442.86 \$437.68	\$79.19	\$154.21 \$135.58	\$196.35 \$197.70	\$429.75	0.81	1.64	4.52 3.68	6.97	0.77	1.56 1.58	4.29 3.51	6.62	0.74	1.52	4.20 3.38	6.47
14454 14860	Boston, MA Bridgeport-Stamford-Norwalk, CT	1.469 1.357	1.060	1.043	1.038	1.081	1.041	1.047	\$93.78 \$122.97	\$147.84 \$168.90	\$216.71 \$224.82	\$458.33 \$516.68	\$89.56 \$127.21	\$141.18 \$174.72	\$206.95 \$232.57	\$437.08	\$82.85 \$123.58	\$135.56	\$226.28	\$416.13 \$520.45	0.92	1.00	4.10	6.40 6.53	0.95	1.56	4.24	6.76	0.96	1.52	4.17	5.85 6.62
15764	Cambridge-Newton-Framingham, MA	1.424	1.049	1.041	1.034	1.064	1.038	1.046	\$82.28	\$142.85	\$214.68	\$439.81	\$81.08	\$140.79	\$211.57	\$433.44	\$76.23	\$135.57	\$202.19	\$413.99	0.92	1.68	3.67	6.27	0.91	1.66	3.61	6.18	0.86	1.59	3.49	5.95
15804	Camden, NJ	1.571	1.037	1.033	1.026	1.044	1.032	1.038	\$117.69	\$159.52	\$200.41	\$477.62	\$105.12	\$142.48	\$179.01	\$426.61	\$100.73	\$138.12	\$172.37	\$411.22	1.08	1.57	3.94	6.59	0.97	1.40	3.52	5.89	0.93	1.36	3.43	5.72
16984 17660	Chicago-Naperville-Evanston, IL Coeur d'Alene, ID	1.405 1.354	1.017	1.012	1.010	1.012	1.015	1.015	\$80.08 \$85.34	\$157.67 \$127.77	\$189.96 \$146.94	\$427.71 \$360.05	\$79.97 \$88.43	\$157.45 \$132.39	\$189.69 \$152.26	\$427.11 \$373.07	\$79.00 \$92.17	\$155.08 \$134.26	\$186.92 \$155.23	\$421.00 \$381.66	0.91	1.45	4.23	6.59 5.17	0.91	1.45 1.47	4.22 3.03	6.58 5.36	0.89	1.43	4.18 3.08	6.50 5.45
18880	Crestview-Fort Walton Beach-Destin Fl	1.729	1.010	1.005	1.004	1.001	1.010	1.007	\$136.63	\$199.08	\$140.94	\$496.67	\$110.88	\$161.56	\$130.62	\$403.06	\$110.74	\$160.01	\$129.76	\$400.51	1.28	2.22	3.52	7.03	1.04	1.80	2.86	5.70	1.03	1.79	2.85	5.67
19124	Dallas-Plano-Irving, TX	1.549	1.024	1.020	1.016	1.024	1.021	1.024	\$116.84	\$155.27	\$190.95	\$463.06	\$105.86	\$140.67	\$173.00	\$419.52	\$103.37	\$137.71	\$168.99	\$410.07	1.08	1.37	4.19	6.65	0.98	1.24	3.80	6.02	0.96	1.22	3.74	5.91
.19300	Daphne-Fairhope-Foley, Al. Davenport-Moline-Rock Island, IA-IL	<u>1.517</u> 1.471	1.006 0.989	1.002	1.001 0.988	0.996	0.993	1.002	\$74.12	\$100.05	\$164.83	\$339.00	\$68.58	\$92.57 \$138.13	\$152.50 \$165.50	\$313.65	\$68.88 \$66.78	\$91,96	\$152.16	\$313.00	1.05	1.70	4.12 3.38	6.87	0.97	1.57	3.81	6.36	0.97	1.57	3.81	6.35
21060	Elizabethtown-Fort Knox, KY	1.602	1.012	1.008	1.006	1.005	1.012	1.009	\$07.96	\$144.81 \$155.89	\$173.51 \$141.99	\$386.29 \$405.87	\$94.63	\$136.60	\$105.50	\$355.63	\$94.16	\$139.03	\$108.08	\$352.47	1.28	1.76	3.52	6.55	1.12	1.66	3.23	5.74	1.11	1.52	3.07	5.70
22744	Fort Lauderdale-Pompano Beach-Sunrise, FL	1.726	1.017	1.013	1.010	1.014	1.016	1.016	\$106.44	\$142.98	\$141.15	\$390.58	\$86.55	\$116.25	\$114.77	\$317.57	\$85.37	\$114.41	\$112.96	\$312.75	1.30	1.81	3.15	6.26	1.05	1.48	2.56	5.09	1.04	1.46	2.53	5.02
23104	Fort Worth-Arlington-Grapevine, TX	1.626	1.023	1.019	1.015	1.023	1.021	1.023	\$135.55	\$173.09	\$190.73	\$499.37	\$116.96	\$149.36	\$164.58	\$430.90	\$114.32	\$146.29	\$160.88	\$421.49	1.20	1.44	4.13	6.76	1.03	1.24	3.56	5.83	1.01	1.22	3.51	5.73
25540	Hartford-East Hartford-Middletown, CT Hilton Head Island-Bluffton, SC	<u>1.411</u> 1.530	1.027	1.023	1.018	1.029	1.024	1.027	\$100.35 \$124.13	\$150.54 \$177.13	\$188.71 \$146.15	\$439.59	\$99.83 \$113.81	\$149.76 \$162.41	\$187.73 \$134.01	\$437.32 \$410.23	\$97.04 \$113.64	\$146.26 \$160.83	\$182.73	\$426.03	0.90	1.52	3.72	6.14	0.90	1.51	3.70	6.11	0.88	1.48	3.63	5.99
26420	Houston-The Woodlands-Sugar Land, TX	1.551	1.018	1.014	1.004	1.002	1.017	1.007	\$115.52	\$144.41	\$146.13	\$415.66	\$104.54	\$130.68	\$140.92	\$376.15	\$102.97	\$128.52	\$138.56	\$370.05	1.14	1.38	3.66	6.18	1.03	1.25	3.31	5.59	1.02	1.23	3.28	5.52
27900	Joplin, MO	1.565	0.938	0.958	0.971	0.916	0.958	0.966	\$163.67	\$192.91	\$121.07	\$477.65	\$146.75	\$172.96	\$108.55	\$428.26	\$160.18	\$180.62	\$112.36	\$453.15	1.45	1.95	2.65	6.05	1.30	1.75	2.38	5.43	1.39	1.82	2.45	5.66
28740	Kingston, NY	1.521	1.035	1.031	1.025	1.041	1.030	1.037	\$170.26	\$124.76	\$211.62	\$506.63	\$157.04	\$115.08	\$195.20	\$467.32		\$111.68	\$188.26	\$450.74	0.99	1.20	3.85	6.04	0.91	1.11	3.55	5.57	0.88	1.07	3.46	5.42
29180	Lafayette, LA Lake County-Kenosha County, IL-WI	1.577	0.817	0.897	0.931	0.795	0.886	0.923	\$110.61	\$142.25 \$185.71	\$178.94	\$431.81	\$98.42	\$126.57	\$159.22	\$384.22 \$476.44	\$123.80	\$142.80 \$178.54	\$172.49	\$439.09	1.21	1.67	4.10	6.98	1.07	1.48	3.65	6.21	1.31	1.65	3.92	6.89
30980	Longview, TX	1.835	1.004	1.000	0.999	0.993	1.006	1.001	\$105.98	\$270.83	\$174.02	\$550.83	\$81.05	\$207.12	\$133.08	\$421.25	\$81.60	\$205.98	\$133.01	\$420.60	1.31	2.38	3.76	7.45	1.00	1.82	2.87	5.69	1.00	1.82	2.88	5.69
31180	Lubbock, TX	1.521	0.994	0.990	0.991	0.978	0.997	0.989	\$88.52	\$177.75	\$130.76	\$397.03	\$81.67	\$163.99	\$120.64	\$366.30	\$83.53	\$164.41	\$122.00	\$369.94	1.06	1.59	3.26	5.90	0.97	1.46	3.01	5.44	0.98	1.48	3.03	5.49
31340 33460	Lynchburg, VA Minnesserie St. David Risseminates, MN MI	1.529 1.382	1.010 0.572	1.006 0.728	1.004 0.817	1.002 0.555	1.010 0.690	1.007	\$102.88 \$92.35	\$145.96 \$105.69	\$131.43	\$380.27 \$415.53	\$94.45 \$93.76	\$134.00 \$107.30	\$120.66	\$349.11 \$421.89	\$94.24 \$168.97	\$132.65 \$155.62	\$119.79	\$346.68 \$612.16	0.82 0.86	1.31	3.08 3.48	5.21	0.75	1.20	2.83	4.78	0.74	1.19	2.82 4.32	4.76 7.70
33860	Minneapolis-St. Paul-Bloomington, MN-WI Montgomery, AL	1.545	1.009	1.005	1.003	1.000	1.009	1.006	\$95.36	\$78.68	\$155.76	\$329.79	\$86.59	\$71.44	\$141.44	\$299.47	\$86.57	\$70.80	\$140.63	\$297.99	1.15	1.51	3.40	6.63	1.04	1.37	3.61	6.02	1.03	1.37	3.60	6.00
33874	Montgomery County-Bucks County-Chester County, PA	1.643	1.021	1.017	1.013	1.019	1.019	1.020	\$101.80	\$125.68	\$180.60	\$408.08	\$86.95	\$107.35	\$154.26	\$348.57	\$85.37	\$105.39	\$151.29	\$342.05	1.11	1.66	4.10	6.86	0.95	1.41	3.50	5.86	0.93	1.39	3.45	5.77
34940 35004	Naples-Marco Island, FL Nassau County-Suffolk County, NY	1.688 1.593	1.016	1.012	1.009	1.011	1.015	1.014	\$107.93	\$174.38 \$156.33	\$160.95 \$263.82	\$443.27 \$600.14	\$89.74 \$158.52	\$144.99 \$137.68	\$133.83 \$232.36	\$368.56 \$528.56	\$88.75 \$155.55	\$142.88	\$131.97 \$227.79	\$363.60 \$518.46	1.13 1.09	2.30 1.36	3.36 4.81	6.80 7.26	0.94	1.91 1.20	2.80 4.23	5.65 6.40	0.92	1.89	2.77	5.59 6.30
35084	Nassau County-Suntoix County, NY Newark, NJ-PA	1.593	1.021	1.017	1.013	1.019	1.019	1.020	\$179.99 \$108.86	\$100.33 \$141.38	\$236.85	\$600.14	\$108.02	\$137.68	\$232.36	\$528.00	\$100.00 \$94.34	\$135.13 \$123.77	\$227.79 \$206.12	\$424.23	0.98	1.30	4.81	6.89	0.96	1.20	4.23	6.40	0.85	1.18	4.18	6.04
35300	New Haven-Milford, CT	1.492	1.035	1.031	1.025	1.041	1.030	1.037	\$123.47	\$189.19	\$202.30	\$514.96	\$116.16	\$177.99	\$190.32	\$484.47	\$111.59	\$172.76	\$183.61	\$467.96	1.00	1.79	3.84	6.63	0.94	1.69	3.61	6.23	0.91	1.64	3.52	6.06
35614	New York-Jersey City-White Plains, NY-NJ	1.497	1.012	1.007	1.005	1.004	1.011	1.009	\$142.65	\$151.58	\$238.29	\$532.52	\$133.74	\$142.12	\$223.42	\$499.28	\$133.16	\$140.53	\$221.44	\$495.14	0.97	1.41	4.33	6.71	0.91	1.32	4.06	6.30	0.90	1.31	4.04	6.25
36084 37100	Oakland-Berkeley-Livermore, CA Oxnard-Thousand Oaks-Ventura, CA	1.155	1.036	1.032	1.026	1.043	1.031	1.038	\$123.53 \$123.59	\$159.00 \$119.88	\$181.77 \$179.03	\$464.30 \$422.50	\$150.08 \$128.02	\$193.18 \$124.17	\$220.83 \$185.44	\$564.09 \$437.63	\$143.96 \$124.89	\$187.36 \$121.50	\$212.81 \$181.00	\$544.13 \$427.39	0.59	0.95	3.07 3.67	4.61 5.51	0.72	1.15	3.73 3.80	5.60 5.71	0.69	1.12	3.64 3.74	5.45 5.61
	Panama City, FL		1.025	0.997	0.997	0.988	1.022	0.997	\$123.38	\$151.34	\$182.32	\$444.09	\$128.02	\$124.17	\$146.07	\$355.79	\$89.53	\$121.50	\$146.55	\$356.97	1.31	1.92	4.00	7.24	1.05	1.54	3.21	5.80	1.05	1.55	3.22	5.81
37900	Peoria, IL	1.492	1.044	1.040	1.032	1.056	1.037	1.046	\$104.27	\$221.46	\$167.21	\$492.94	\$98.05	\$208.25	\$157.23	\$463.54	\$92.87	\$200.79	\$150.29	\$443.94	0.93	1.67	3.67	6.27	0.88	1.57	3.45	5.89	0.84	1.51	3.34	5.69
39300	Providence-Warwick, RI-MA Roanoke VA	1.611 1.529	1.033	1.029	1.023	1.038	1.029	1.034	\$92.20 \$127.06	\$132.30 \$141.44	\$179.76 \$141.00	\$404.26 \$409.51	\$80.30 \$116.63	\$115.23 \$129.83	\$156.56	\$352.10 \$375.89	\$77.39 \$115.62	\$112.04 \$128.10	\$151.41 \$127.87	\$340.84 \$371.58	1.09	1.83 1.28	3.76 3.17	6.68 5.47	0.95	1.59	3.28 2.91	5.82	0.92	1.55	3.20 2.89	5.67
40220 41740	San Diego-Chula Vista-Carlsbad, CA	1.529	0.645	0.826	0.875	0.655	0.830	0.861	\$127.06	\$141.44 \$106.15	\$141.00 \$144.77	\$409.51 \$345.04	\$116.63 \$108.32	\$129.83 \$122.16	\$129.43 \$166.61	\$375.89	\$165.28	\$128.10 \$147.16	\$127.87 \$193.58	\$506.01	1.02	0.99	2.86	4.49	0.94	1.16	3.29	5.02 5.17	0.93	1.16	2.89	4.98 6.28
41884	San Francisco-San Mateo-Redwood City, CA		1.053	1.042	1.036	1.070	1.040	1.047	\$123.69	\$218.26	\$225.64	\$567.59	\$149.15	\$263.18	\$272.07	\$684.41	\$139.34	\$253.17	\$259.98	\$652.49	0.61	1.17	3.18	4.96	0.73	1.41	3.84	5.99	0.70	1.36	3.71	5.76
41940	San Jose-Sunnyvale-Santa Clara, CA	1.214	1.040	1.037	1.030	1.050	1.035	1.043	\$128.68	\$180.95	\$159.28	\$468.91	\$148.69	\$209.09	\$184.06	\$541.85	\$141.67	\$202.09	\$176.47	\$520.23	0.63	1.04	2.38	4.05	0.72	1.20	2.75	4.68	0.69	1.16	2.67	4.53
42644 44100	Seattle-Bellevue-Kent, WA Soringfield, IL	1.401 1.469	1.014	1.010	1.007	1.008	1.013	1.012	\$95.23 \$100.73	\$156.64 \$200.48	\$194.95 \$205.67	\$446.82 \$506.89	\$95.37 \$96.23	\$156.88 \$191.51	\$195.25 \$196.47	\$447.51 \$484.20	\$94.63 \$96.31	\$154.86 \$189.89	\$193.03 \$195.50	\$442.52 \$481.70	0.72	1.55 1.54	3.85 3.66	6.13 6.25	0.72	1.56 1.47	3.86 3.49	6.13 5.97	0.71	1.54 1.46	3.83 3.48	6.08 5.95
44100	Tulsa, OK	1.469	0.780	0.883	0.920	0.999	0.876	0.911	\$100.73	\$200.48 \$143.10	\$205.67 \$143.73	\$391.58	\$96.23	\$191.51 \$119.81	\$190.47 \$120.34	\$484.20 \$327.85		\$136.72	\$195.50	\$481.70	1.06	1.65	3.66	6.51	1.15	1.47	2.93	5.45	1.00	1.46	3.48	6.22
46520	Urban Honolulu, HI	1.425	1.041	1.037	1.030	1.050	1.035	1.043	\$108.34	\$93.43	\$173.89	\$375.67	\$106.70	\$92.02	\$171.26	\$369.97	\$101.62	\$88.92	\$164.15	\$354.68	0.78	1.17	3.70	5.65	0.77	1.16	3.64	5.56	0.74	1.11	3.54	5.39
46540	Utica-Rome, NY	1.442	1.019	1.015	1.011	1.016	1.017	1.018	\$65.89	\$145.56	\$155.02	\$366.47	\$64.11	\$141.63	\$150.84	\$356.58		\$139.24	\$148.24	\$350.59	0.77	1.55	3.53	5.85	0.75	1.51	3.43	5.69	0.73	1.49	3.40	5.62
47664 48424	Warren-Troy-Farmington Hills, MI West Palm Beach-Boca Raton-Bovnton Beach, FL	1.627 1.737	1.018 1.013	1.014	1.011	1.014	1.017 1.012	1.017	\$84.30 \$126.09	\$116.76 \$135.53	\$175.26 \$172.78	\$376.31 \$434.41	\$72.71 \$101.87	\$100.70 \$109.50	\$151.16 \$139.59	\$324.57 \$350.96	\$71.67 \$101.20	\$99.07 \$108.15	\$148.70 \$138.12	\$319.44 \$347.47	1.00 1.36	1.74	3.97 3.87	6.71 7.00	0.86	1.50 1.43	3.42 3.13	5.78 5.65	0.84	1.48 1.42	3.39 3.11	5.71 5.61
48620	West Paint Beach-boca Raton-boynton Beach, PE Wichita, KS	1.435	0.982	0.982	0.985	0.963	0.989	0.982	\$151.33	\$114.71	\$160.74	\$426.78	\$148.02	\$112.20	\$157.22	\$417.43	\$153.68	\$113.50	\$160.08	\$427.25	1.30	1.37	3.26	5.91	1.24	1.34	3.13	5.78	1.00	1.36	3.24	5.87
.49340	Worcester, MA-CT	1.591	1.056	1.042	1.037	1.075	1.040	1.047	\$95.91	\$143.19	\$208.10	\$447.19	\$84.62	\$126.33	\$183.60	\$394.56	\$78.68	\$121.43	\$175.42	\$375.53	1.02	1.69	3.51	6.22	0.90	1.49	3.10	5,49	0.85	1.43	2,99	5.27
49700	Yuba City, CA	1.302	1.033	1.029	1.023	1.038	1.029	1.034	\$207.63	\$178.67	\$168.09	\$554.39	\$223.83	\$192.61	\$181.20	\$597.64	\$215.66	\$187.25	\$175.21	\$578.13	0.83	1.03	2.59	4.45	0.90	1.11	2.79	4.80	0.87	1.08	2.73	4.68

Attachment A: MILLIMAN WHITE PAPER

# Milliman GlobalRVUs

Will Fox, FSA, MAAA Ed Jhu, FSA, MAAA Charlie Mills, FSA, MAAA

### What are GlobalRVUs?<sup>1</sup>

GlobalRVUs are a relative value unit system covering the entire range of services, from hospital to physician, durable medical equipment (DME) to lab, even pharmacy. Use of Relative Value Units (RVUs) is a common practice with payment schedules. The RVUs define cost relativities between services enabling entire schedules to be easily compared. The most well-known examples of this are Medicare's physician RBRVS and Medicare's inpatient diagnosis-related group (DRG) weights. These RVU systems are limited since they focus on a particular type of provider, such as physician or inpatient hospital, and do not relate services across provider types. GlobalRVUs solve this disconnect by providing an RVU system that covers all healthcare services.

GlobalRVUs permit different services to be combined for analysis and have a wide variety of applications, including:

- Analyzing claims experience. GlobalRVUs allow you to separate unit cost versus utilization efficiency.
- Evaluating provider contracts. GlobalRVUs allow for unit cost aggregation of hospital and physician services.
- Developing episodes of care and bundled payments. GlobalRVUs allow the user to understand and remove the unit cost biases in the experience data.
- Setting and analyzing global risk targets, particularly across multiple provider organizations with differing contract structures, such as accountable care organizations. GlobalRVUs can be used to analyze opportunities for improvement—for example, identifying high-cost specialists or hospitals in the experience data.

Allowed dollar claims data can be normalized with GlobalRVUs to put the services on a common basis permitting this range of analyses. If charges are not available, GlobalRVUs can still be used as a proxy for charge levels, allowing for different types of utilization efficiency analyses (e.g., episodes and PMPM) and case mix studies.



An added advantage of GlobalRVUs in utilization analyses is that, since potentially confidential average charges are not being used, results can be released externally without breaching confidentiality provisions. The RVUs have taken the place of the allowed charges, thus removing the limitations that might be placed on distributing the analysis.

### About GlobalRVUs

GlobalRVUs consist of three separate components:

- Medicare physician RVUs. Physician claims are assigned GlobalRVUs based on Medicare's fee schedules, including DME, lab, ambulance and anesthesia. For services paid using Medicare's RBRVS RVUs for physicians, the GlobalRVUs are equal to Medicare's RVUs. The RVU adjudication process reflects Medicare's claim adjudication rules to adjust the assigned RVUs for modifiers, multiple procedure discounting, and bundling.
- RBRVS for Hospitals<sup>™</sup>. RBRVS for Hospitals is a proprietary Milliman product that contains a RVU schedule for hospitals that is consistent with Medicare's physician RVU schedule. A more detailed description of RBRVS for Hospitals is available on the Milliman website.<sup>2</sup>
- **Prescription drug RVUs.** Prescription drug RVUs are developed based upon average wholesale price (AWP) information. AWP is assigned to each claim by National Drug Code (NDC), adjusted for discounts, dispensing fees and anticipated rebates, then converted to an RVU that is consistent with Medicare's physician RVUs and the RBRVS for Hospitals RVUs.

2

<sup>1</sup> Milliman solutions: GlobalRVUs. http://milliman.com/GlobalRVUs

Milliman RBRVS for Hospitals. http://www.milliman.com/expertise/ healthcare/products-tools/rbrvs/pdfs/milliman-rbrvs-for-hospitals.pdf

### Using GlobalRVUs

### TABLE A: CALCULATING A CONVERSION FACTOR

Once RVUs are assigned to services, conversion factors are calculated by dividing total dollars by the RVUs. This can be done by individual procedure or aggregated at any level, even in total across all services.

### TABLE A: CALCULATING A CONVERSION FACTOR

	ALLOWED CHARGES	GLOBAL RVUS
INPATIENT SERVICES APR 047-1	\$8,000	131.583
OUTPATIENT SERVICES 82441 74150	\$20 \$425	.0241 3.600
PROFESSIONAL SERVICES 99284	\$122	3.370
PRESCRIPTION DRUGS 00037580030	\$62	1.477
TOTAL	\$8,629	140.271
CONVERSION FACTOR (ALLOWED CHARGES/RVUS)		\$61.52

### TABLE B: BENCHMARKING PROVIDER CONTRACTS BY CARRIER

Once conversion factors are calculated, they can be compared and analyzed. Due to the multiple applications of GlobalRVUs, a variety of analyses may be performed. Two examples are provided below.

### TABLE B: BENCHMAKING PROVIDER CONTRACTS BY CARRIER

For this example, different types of provider contracts are evaluated for multiple carriers and benchmarked to a base contract. Using GlobalRVUs, average conversion factors are calculated for inpatient, outpatient, and physician services, and can be combined for an overall comparison between carriers. The GlobalRVUs provide case-mix adjustment across contracts with different service mixes without requiring claims under one contract to be repriced under a different contract.

### TABLE C: COMPARISON OF DELIVERY SYSTEMS

For this example, the claims experience for six provider groups is normalized with the GlobalRVUs to isolate unit cost and utilization differences. Conversion factors are calculated as the average allowed charge per RVU. These conversion factors are then benchmarked relative to the area average, thus showing the unit price difference between groups. When this relativity is divided out of the starting allowed PMPM, the adjusted allowed

	BASE	CARR	RIER 1	CARR	IER 2
TYPE OF SERVICE	CONVERSION FACTOR	CONVERSION FACTOR	RELATIVE TO BASE	CONVERSION FACTOR	RELATIVE TO BASE
FACILITY INPATIENT	\$62.40	\$65.58	1.05	\$66.58	1.07
FACIILITY OUTPATIENT	\$64.09	\$64.23	1.00	\$68.23	1.06
PROFESSIONAL	\$55.98	\$57.25	1.02	\$62.07	1.11
TOTAL	\$60.09	\$61.52	1.02	\$65.10	1.08

### **TABLE C: COMPARISION OF DELIVERY SYSTEMS**

PRIMARY CARE GROUP	RISK-ADJUSTED PMPM ALLOWED	RELATIVE COST	PMPM RVUS	UTILIZATION EFFICIENCY	CONVERSION FACTOR	RELATIVE UNIT PRICE
AREA AVERAGE	\$373.70	1.000	6.175	1.000	\$60.52	1.000
GROUP A	\$344.38	0.922	6.196	1.004	\$55.58	0.918
GROUP B	\$421.67	1.128	6.447	1.044	\$65.41	1.081
GROUP C	\$344.95	0.923	5.902	0.956	\$58.45	0.966
GROUP D	\$371.92	0.995	6.042	0.979	\$61.56	1.017
GROUP E	\$366.31	0.980	5.908	0.957	\$62.00	1.024
GROUP F	\$393.11	1.052	6.439	1.043	\$61.05	1.009

PMPM between groups represents differences in resource utilization. This is shown in the last column benchmarked relative to the area average. Note that the utilization efficiency can also be derived directly from the PMPM RVUs if no allowed charge information is available.

### Implementing GlobalRVUs

The GlobalRVUs can be easily attached to any data set using Milliman software. In addition to an interface to run the RVU assignment software, we provide a series of reports, available through Microsoft Excel, that allow you to review the quality of the data input, ensure that the RVUs have been properly assigned, and review the results of the RVU assignments.

# C Milliman

Milliman is among the world's largest providers of actuarial and related products and services. The firm has consulting practices in life insurance and financial services, property & casualty insurance, healthcare, and employee benefits. Founded in 1947, Milliman is an independent firm with offices in major cities around the globe.

### milliman.com

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### Attachment B-1

### CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits

Cr 2021 Mulliman Benchmark and Maryland Ali-Payer Claims Data 2021 Maryland APCO - Data Validation Summary of Membership, Medical Paid, and Medical Paid PMPM Comparison of Maryland APCD and NAIC Annual Statement Limited to Commercial Line of Business (1)

Γ	P020	P030		P820	P870	P500	P520		P130	P131	P132		P160	P180	P320	
	Aetna Life	Aetna Health, Inc.	Aetna Subtotal	UnitedHealthcare Insurance Co.	United Healthcare of the Mid-Atlantic, Inc. HBX	MAMSI Life and Health Ins. Co.	MD-Individual Practice Association, Inc.	United Subtotal	CareFirst BlueChoice, Inc.	CareFirst of Marvland, Inc.	Group Hospitalization & Medical Services, Inc. (GHMSI)	CareFirst Subtotal	Cigna Health & Life Insurance Co., Inc.	Connecticut General Life Ins. Co.	Golden Rule Insurance Co.	Total
Member Months	insurance co.	Acuta ricatut, inc.	Aetha Subtotai	insurance co.	IIIC. HDA	fiediul Illa. 00.	Association, inc.	United Subtotal	Dideonoice, inc.	waryiana, mo.	Inc. (or mor)	Carer nat Subtotal	110.	00.	insurance co.	rotai
APCD	425,133	240,797	665,930	1,706,185	112,761	169,651	0	1,988,597	3,727,384	132,067	400,403	4,259,854	1,192,134	421,909	0	8,528,424
NAIC Annual Statement (2)	n/a	143,492	143,492	n/a	93,585	168,881	n/a	262,466	3,288,983	136,360	299,700	3,725,043	n/a	n/a	n/a	4,131,001
Difference	n/a	97,305	522,438	n/a	19,176	770	n/a	1,726,131	438,401	-4,293	100,703	534,811	n/a	n/a	n/a	4,397,423
% Difference	n/a	67.8%	364.1%	n/a	20.5%	0.5%	n/a	657.7%	13.3%	-3.1%	33.6%	14.4%	n/a	n/a	n/a	106.4%
Total Paid Medical and Rx - Exclusions																
APCD - Medical and Rx	\$998.350.698	\$118.235.222	\$1,116,585,920	\$1.556.007.491	\$39.399.037	\$76.844.019	\$0	\$1.672.250.547	\$2,113,897,036	\$2,800,503,198	\$1,246,971,146	\$6,161,371,380	\$1,140,362,522	\$187.351.891	\$7.305.577	\$10.285.227.837
Excluded - MA, Med Sup, Unknown	\$452,682,988	\$3,282,365	\$455,965,353	\$7,733,306	\$0	\$0	\$0	\$7,733,306	\$60,815	\$77,132,407	\$8,271,376	\$85,464,598	\$0	\$0	\$123,619	\$549,286,876
Excluded - ASO, FEB	\$340,334,986	\$2,810,931	\$343,145,917	\$751,876,767	\$0	\$0	\$0	\$751,876,767	\$15,840	\$2,067,486,701	\$603,204,457	\$2,670,706,998	\$601,598,975	\$10,716,580	\$0	\$4,378,045,237
Excluded - No Membership	\$26,029,699	\$5,393,524	\$31,423,223	\$71,536,475	\$2,610,325	\$4,475,798	\$0	\$78,622,598	\$121,034,470	\$107,696,861	\$49,301,776	\$278,033,107	\$34,860,565	\$8,925,054	\$0	\$431,864,547
Excluded - IND	\$6,049,439	\$0	\$6,049,439	\$0	\$0	\$0	\$0	\$0	\$925,474,281	\$218,206,259	\$134,932,192	\$1,278,612,732	\$0	\$0	\$7,181,958	\$1,291,844,129
Paid Medical and Rx and NAIC Annual S																
APCD - Medical (2)	\$130,922,320	\$83,485,379	\$214,407,699	\$535,793,587	\$26,422,188	\$53,470,909	\$0	\$615,686,684	\$830,865,061	\$206,463,564	\$299,479,105	\$1,336,807,730	\$337,838,302	\$105,127,188	\$0	\$2,609,867,602
APCD - Rx	\$42,331,266	\$23,263,023	\$65,594,289	\$189,067,356	\$10,366,524	\$18,897,312	\$0	\$218,331,192	\$236,446,569	\$123,517,406	\$151,782,240	\$511,746,215	\$166,064,680	\$62,583,070	\$0	\$1,024,319,446
Rx Rebate Estimate (3)	27%	28%	27%	n/a	39%	35%	n/a	5%	30%	26%	26%	28%	28%	n/a	n/a	
APCD - Total (Net of Rx Rebates)	\$161,971,325	\$100,137,806	\$262,109,131	\$724,860,943	\$32,785,467	\$65,660,941	\$0	\$823,307,351	\$996,841,381	\$297,391,295	\$411,443,057	\$1,705,675,733	\$456,809,369	\$167,710,258	\$0	\$3,415,611,842
NAIC Annual Statement (4)	\$174,999,153	\$60,984,355	\$235,983,508	\$0	\$28,298,318	\$66,223,249	\$0	\$94,521,567	\$1,295,180,441	\$55,148,440	\$132,828,360	\$1,483,157,241	\$487,924,324	\$175,628	\$0	\$2,301,762,268
Difference % Difference	(\$13,027,828) -7,4%	\$39,153,451 64.2%	\$26,125,623	\$724,860,943	\$4,487,149	(\$562,308)	\$0	\$728,785,784	(\$298,339,060) -23.0%	\$242,242,855 439,3%	\$278,614,697	\$222,518,492 15.0%	(\$31,114,955) -6.4%	\$167,534,630	\$0 p/a	\$1,113,849,574
% Difference	-7.4%	64.2%	11.1%	n/a	15.9%	-0.8%	n/a	771.0%	-23.0%	439.3%	209.8%	15.0%	-6.4%	95391.8%	n/a	48.4%
Paid Medical and Rx PMPM																
APCD (3)	\$380.99	\$415.86	\$393.60	\$424.84	\$290.75	\$387.04	n/a	\$414.01	\$267.44	\$2,251.82	\$1,027.57	\$400.41	\$383.19	\$397.50	n/a	\$400.50
NAIC Annual Statement (4)	n/a	\$425.00	n/a	n/a	\$302.38	\$392.13	n/a	\$360.13	\$393.79	\$404.43	\$443.20	\$398.16	n/a	n/a	n/a	\$396.67
Difference	n/a	(\$9.14)	n/a	n/a	(\$11.63)	(\$5.09)	n/a	\$53.89	(\$126.36)	\$1,847.39	\$584.37	\$2.25	n/a	n/a	n/a	\$3.82
% Difference	n/a	-2.2%	n/a	n/a	-3.8%	-1.3%	n/a	15.0%	-32.1%	456.8%	131.9%	0.6%	n/a	n/a	n/a	1.0%

Notes: 1) For the APCD, commercial claims are identified by the market segment data field. The following types are considered commercial:

market segment

8 C

16 Identities of the markets beginners data Description Private Employee Sponsored or Other Group Public Employee - Other Small Business Options Program (SHOP) not sold on MHBE Small Business Options Program (SHOP) sold on MHBE Small Business Options Program

Incurred in CY 2021, paid through March 2022. From the 2021 annual data file received on 1204/2022. Excludes claim records with no corresponding membership.
 Rx beate estimated from the supplemental healthcare exhibit part 1 from lines 22 and 23 for the small and large groups (jines of business.
 Rx beate estimated from the supplemental healthcare exhibit part 1 from lines 22 and 23 for the small and large groups (jines of business.
 Stanted for location of the strange in reserve). For the following carries, we used APCD member months because NAIC member month values are unavailable. Aetha Life Insurance Co., UnitedHealthcare Insurance Co., and Cigna Health.

### Attachment B-2 CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits 2021 Maryland APCD - Data Validation

Summary of Data Exclusions Paid Amounts By Payers

Paid Amounts Paid Amo Payers Included in Attachment B-1 Payers Excluded from Attachment B-1 Pnum D020 P030 P820 P870 P500 P160 P180 D220 P520 P824 T02 Group State Farr Mutual Cigna Health & ited Healthc Connecticut MD-Individual CFA, LLC/CareFi rrington Healt Actes Life of the Mid MAMELLIG CoroEirot of spitaliz Coldon Bulk Practice The Learni CoroEirot Crown Ronof -Payer Name Percented Raw Total (Medical + Rx) tna Health, Inc \$147.800.141 Inc. (GHMSI) \$1.535.918.047 UMR, Inc. \$25.025.433 Maryland, Inc. \$3,497,034,612 Co. \$230.114.473 Company \$14.631.119 All \$12,793,287,416 Insurance Co. \$1,215,668.00 Insurance Co. \$1,984,840,21 \$97 760 405 SlueChoice, Inc. \$2.520.610.516 CO., INC. SQ 400 36 \$40 714 780 \$5.085.10 \$3,676,85 Modia \$1,015,558,458 \$528,424,841 \$118,809,867 \$58,123,635 \$1,631,740,523 \$973,940,392 \$36,738,100 \$21,179,051 \$74,387,776 \$45,098,818 \$1,883,202,253 \$984,257,648 \$2,918,534,183 \$1,527,156,668 \$1,281,438,397 \$602,109,795 1,035,316,911 \$493,248,681 \$153,712,775 \$61,195,750 \$8,472,541 \$4,435,857 \$7,518,810 \$2,913,633 ¢5,000,1 \$29,909,314 \$15,667,382 \$1,913,930 \$531,383 \$14,631,11 \$7,675,99 \$0 \$0 \$24,948,863 \$14,934,713 \$10,241,919,015 \$5,343,595,464 \$5,085,195 Inst Prof \$808 044 605 \$487 133 617 \$60,686,232 \$657 800 131 \$15 559 049 \$20 288 058 \$1 301 377 515 \$679 328 603 \$542,068,230 \$92 517 024 \$4 036 684 \$4,605,178 \$2 383 971 \$14 241 932 \$0 \$1,382,547 \$6,955,12 ŝ \$10.014.150 \$4 808 323 55 \$76 570 Rx \$200 109 547 \$28,990,274 \$353,099,693 \$12,976,689 \$23 372 629 \$637 408 263 \$578 500 429 \$254 479 65 \$381 417 414 \$76 401 698 \$792.07 -\$0 \$2 551 368 40 \$10.241.919.01 Medical Only Exclude Service Dates not in CY 2021 \$1.015.558.458 \$185,754,174 \$118.809.867 \$23,785,947 \$1.631.740.523 \$342,783,693 \$36.738.100 \$8,637,204 \$74.387.776 \$16,634,172 \$1.883.202.253 \$2.918.534.183 \$373,653,732 \$574,526,854 \$1.281.438.397 \$249,814,068 1.035.316.911 \$153.712.775 \$36.263.689 \$8.472.541 \$1,742,029 \$0 \$0 \$7.518.810 \$1,852,293 \$5.085.195 \$1,101,280 \$29.909.314 \$6,997,215 \$1.913.930 \$447,708 \$14.631.119 \$2,876,646 \$0 \$24.948.863 \$4,620,098 \$238.324.688 \$2.069.815.49 \$1,288,956,830 \$28,100,896 \$6,730,512 \$3,983,915 \$22,912,099 \$11,754,473 \$8,172,103,525 ubtotal (Starting Point) \$829,804,284 \$95 023 920 \$57,753,604 \$1,509,548,521 \$2,344,007,329 \$1,031,624,329 \$796,992,223 \$117 449 086 \$5,666,51 \$1,466,222 \$20,328,765 \$0 \$0 \$0 laim Detail Exclusions Institutional Data BillType Exclusions Professional Non-OP claims Routine Dental and Orthodontic Capitated Claims \$22,163,949 \$2,851,02 \$74,369,142 \$1,397,575 \$4,156,7 \$17,774,902 \$97,311,731 \$30,086,6 \$2,031,750 \$3,479,808 \$33,836 \$396,08 \$70,06 \$544,07 \$51 \$360,30 \$171,4 \$257,199,62 \$0 \$147,025 \$40,516 \$0 \$14,106 \$0 \$42,776 \$0 \$75 \$75 \$0 \$1,861,396 \$0 \$0 \$8,976 \$0 \$44 \$0 \$0 \$3,479,474 \$1,996,98 \$6,356 \$57,03 \$4,313 \$18,753 \$7,637,31 \$40,51 After Claim Detail Exclusion \$807.452.794 \$92,158,785 \$1,214,544,912 \$26,703,277 \$53 596 758 \$1.488.294.145 \$2.244.834.202 \$000 540 720 \$794.951.497 \$113 062 022 \$6 696 676 \$0 \$5.213.39 \$3 013 847 \$22 368 027 \$1.465.703 \$11.389.85 \$20 138 558 \$7.907.226.074 \$0 \$0 Ornhan Claims \$9 203 298 \$2 775 885 \$11 642 987 \$281.089 \$125.838 \$10 600 744 \$12 296 297 \$6 614 277 \$26 683 634 \$1 615 756 \$18 246 \$0 \$216.83 \$17 452 \$418 963 \$626.53 \$89.76 \$241 286 \$83 468 88 \$0 sr \$1,202,901,925 \$1,477,693,401 \$2,232,537,905 \$6.678.430 \$21,949,064 \$11.300.09 \$7.823.757.189 After Orphan Claim Exclusion \$798.249.496 \$89.382.900 \$26,422,188 \$53,470,920 \$992.926.452 \$768.267.863 \$112.347.166 \$0 \$4,996,55 \$3.896.395 \$839,166 \$0 \$19.897.272 nitial LOB exclusions Medicare Advantage Medicare Supplement \$366.756.649 \$3.003.707 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$369,760,356 \$86,720,840 \$0 \$18,950 \$0 \$77,113,803 \$0 \$1,207,891 ə، \$8,256,577 \$123,619 \$1.202.901.925 \$26.422.188 \$53.470.920 \$1.477.674.451 \$2.155.424.102 \$984.669.875 \$768.267.863 \$112.347.166 \$6.554.811 \$4.996.555 \$2.688.504 \$21.949.064 \$11.300.09 \$19.897.272 \$7.367.275.993 After Medicare Exclusion: \$431.492.847 \$86.379.193 \$0 \$839,166 \$0 on-Maryland Residents \$11,746,995 \$3,915,00 \$557,852,452 \$5,081,867 \$16,564,416 \$146,147,287 \$234,964,665 \$154,253,17 \$205,017,614 \$36,838,708 \$1,152,056 \$0 \$9,97 \$4,054,56 \$17,88 \$1,157,428 \$1,378,774,084 After Non-Maryland Exclusion \$419,745,852 \$82,464,189 \$645.049.473 \$21.340.321 \$36,906,504 \$1,331,527,164 \$1,920,459,437 \$830,416,700 \$563,250,249 \$75,508,458 \$5,402,755 \$0 \$4,986,58 \$2,688,504 \$17,894,499 \$839,166 \$11,282,210 \$18,739,844 \$5,988,501,909 LOB Exclusions FEHB (1) sn \$0 ŝn sn sn ¢۵ \$8 631 350 \$8 631 350 \$0 \$0 sn After FEHB Exclusions \$419 745 852 \$82 464 189 \$645.049.473 \$21 340 321 \$36 906 504 \$1 331 527 164 \$1 920 459 437 \$830 416 700 \$563 250 249 \$75 508 458 \$5 402 755 \$0 \$4,986,58 \$2 688 504 \$17 894 499 \$839 166 \$11 282 210 \$10 108 485 \$5,979,870,550 \$0 \$0 Evolute 65 and Over Members \$30,803,040 \$7 777 627 \$78.005.740 \$2 108 317 \$1 800 768 \$75 300 734 \$250 753 210 \$99.061.10/ \$74 744 203 \$5 555 655 \$42.073 \$0 \$311 \$1 014 345 \$2.457.160 ¢0 \$36 122 \$1 556 55 sn \$1 435 314 \$641,650,382 After 65 and Over Exclusion \$566 953 724 \$1 256 217 430 \$1 669 706 227 \$5 360 682 \$0 \$4 986 273 \$1 674 159 \$15 437 330 \$803.044 \$9 725 66 \$5 338 220 169 \$379 852 812 \$74 686 562 \$19 232 004 \$35,096,736 \$731 355 596 \$488 505 956 \$69,952,803 \$0 \$0 \$8,673,171 Other Party Liability \$9,725,660 \$50,636,134 \$959.090 \$17.284.683 \$508.754 \$1,917,149 \$9.397.815 \$2.596.03 \$5.278.329 \$210.234 \$1.828 \$0 \$405.385 \$14,965 \$251.59 \$1.905.524 \$139.37 \$0 \$0 \$39,712 alid Data \$3,068 \$60 \$0 \$674 \$0 (\$1,41 \$0 \$0 (\$1,21 S \$4,962 Zero Allowed Missing Mem \$3 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 dditional Non-Maryland Resident (\$8,938) \$137,103 \$16,013 \$35 \$11 \$7,513,196 \$8,388,639 \$3,163,977 \$182,845 (\$3,11) \$1,027 \$0 sc \$0 \$21 \$19,390,816 otal Exclusions \$836 765 345 \$73 502 27 \$1 435 187 188 \$30,991,574 \$64 569 204 \$1 273 823 431 \$1 845 114 899 \$810 322 46 \$933 689 543 \$160 369 464 \$3 905 373 \$4 651 25 \$3,411,03 \$14 882 33 \$2 888 77 \$14 631 11 \$16 391 995 \$7 525 097 26 en Final Included (2) \$378,902,66 \$74.297.86 \$549,653,028 \$18,723,215 \$33,191,201 \$1,246,787,085 \$1,651,919,713 \$725,595,58 \$483.044.782 \$69.745.009 \$5,359,240 \$1,674,159 \$15.026.98 \$788.07 \$8,633,438 \$5,268,190,151 \$4,848,11 Individual Only \$33 191 201 Final Included - Commercial and ASO Only \$372,875,901 \$74 297 862 \$545 791 443 \$18 723 215 \$633,454,543 \$1,496,493,998 \$641,573,41 \$483 044 782 \$69 745 009 \$1 674 1 \$15 026 98 \$788.07 \$8 633 438 \$4 395 314 02 \$3,861,585 Unknown I OB \$0 \$3,861,585 \$0 \$0 \$0 ŝ \$0 45.7% 78.2% 66.6% 57.5% 82.6% 70.5% 70.3% 60.6% 59.4% 42.0% 65.6% 53.7% 42.5% % Included of 2021 Total Medical 42.6% 79.6% 0.0% 85.6% 0.0% 0.0% 64.5% 0.0% 1,229,826 118,502 1,547,75 23,60 57,53 47,90 Included Member Months 1,761,713 93,767 4,632,141 3,748,095 1,658,960 35,1 15,525,3 Included PMPN \$308.09 \$327.75 \$312.00 \$199.65 \$280.09 \$269.16 \$440 74 \$468.81 \$291 17 \$228 23 \$227.06 \$0.00 \$84 26 \$217.88 \$313 68 \$132.83 \$0.00 \$351.93 \$339.33

Notes: 1) We are excluding FEHB members which are members with market segment = 6. 2) These are the data that Milliman will be using for commercial benchmarking. We are only processing medical claims

Appendix C - Exhibit 1a CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 12/2021, Paid through 3/2022 (Adjusted to Estimated Ultimate Incurred)

Summary of Experience by Maryland Region Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical eligibility with valid risk scores, i.e. the risk score shown equals total risk score over total Medical.
 (2) Completion factor used: 0.9834. Risk adjusted allowed dollars are risk normalized to the statewide Maryland risk score over total Medical.
 (3) The pian benefit factors for the total amounts are calculated based on the combined consumone level.
 (4) Teaching hospital amounts are removed from Ingatient allowed and paid amounts (except SNF, newborn, and residential treatments) based on the FY2017 per diem rates (trended to FY2021 with an annual rate 2.25% based on the file "IME for ICC x/sx") at the provider level from file vare covier from Maryland HSCR on 12/11/2019 named "Hospital If lead commercial emoval of GME 12:09 x/sx". For benchmark results, this adjustment was made at the MSA level.

		Member Mo	nths and Risk			Total Allo	owed (2)					Allowed I	PMPM (2)					RVUs P	MPM (2)				Allowed	Per RVU
			2017 HHS Model Platinum Risk		Teaching	Inpatient w/ Teaching								Total - Risk	Total - Risk & Benefit					Total - Risk	Total - Risk & Benefit			
Region	Name	Medical MMs	Score (1)	Inpatient	Adjustment (4)	Adjustment	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Adjusted	Adjusted (3)	Inpatient O	utpatient Prof	Other	Total	Adjusted	Adjusted (3)	Inpatient	Outpatient	Prof / Other Total
Total - A	II Regions	15,525,386	1.674	\$1,249,434,285	\$66,328,153	\$1,183,106,133	\$1,477,332,959	\$3,277,745,786	\$5,938,184,877	\$76.20	\$95.16	\$211.12	\$382.48	\$382.48	\$367.53	0.87	1.31	5.02	7.21	7.21	6.99	\$87.46	\$72.59	\$42.03 \$53.08
MD1 MD2 MD3 MD4	MD1 (Southern MD) MD2 (Western MD) MD3 (Eastern Shore) MD4 (Northern DC Suburbs)	2,653,324 614,558 994,372 3,712,601	1.767 1.895 1.782 1.507	\$228,627,538 \$57,629,514 \$88,194,435 \$243,178,302	\$10,221,233 \$1,639,458 \$3,796,867 \$10,292,694	\$218,406,305 \$55,990,056 \$84,397,569 \$232,885,608	\$255,874,369 \$72,102,959 \$107,924,389 \$288,178,564	\$549,681,151 \$118,535,852 \$201,452,972 \$839,672,174	\$246,628,867 \$393,774,930	\$82.31 \$91.11 \$84.88 \$62.73	\$96.44 \$117.32 \$108.54 \$77.62	\$207.17 \$192.88 \$202.59 \$226.17	\$385.92 \$401.31 \$396.00 \$366.52	\$365.47 \$354.39 \$371.81 \$406.92	\$349.38 \$339.37 \$357.89 \$393.37	0.90 0.99 0.96 0.69	1.23 1.62 1.50	4.81 4.46 5.02 5.30	6.93 7.08 7.49 7.09	6.56 6.25 7.03 7.87	6.34 6.04 6.83 7.67	\$91.95 \$91.61 \$88.26 \$90.48	\$78.49 \$72.29 \$72.22 \$70.83	\$43.09 \$55.67 \$43.25 \$56.71 \$40.33 \$52.88 \$42.69 \$51.72
MD5	MD5 (Baltimore Area)	7,550,531	1.690	\$631,804,496	\$40,377,901	\$591,426,595	\$753,252,678	\$1,568,403,637	\$2,913,082,910	\$78.33	\$99.76	\$207.72	\$385.81	\$382.06	\$366.83	0.93	1.40	5.01	7.33	7.26	7.04	\$84.37	\$71.51	\$41.46 \$52.61

Appendix C - Exhibit 1b CY 2021 Milliman Benchmark and Maryland Ali-Payer Claims Satabase Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 12/2021, Pali Utimate Utimate Incurred) Pian Benefit Normalization Factors by Maryland Region Commercial and Individual LOSs, Limite of twembers Under Age 85 (Excludes Prescription Drugs)

(1) Linearly intercolated between coinsurance nances. (2) Risk adjusted amounts are normalized to all of Mayland, which has a 2017 HHS Platinum risk score of 1.673522. (3) Risk adjusted amounts are removed from Inspatient allowed and paid amount). (benefit normalization factor). (4) Teaching hospital amounts are removed from Inspatient allowed and paid amounts (score) SW; revection, and residential treatments) based on the PY2017 per diem rates (trended to PY2021 with an annual rate 2.25% based on the file "IME for ICC.xisx") at the provider level from file received from Mayland HSCRC on Visional Encound and Color 2005 and Color Detectionative results, this adjustment was made at the MSA level.

		r Months, Risk n Coinsurance			U Plan Bene lization Fact			ed Plan Ben zation Facto			Allowed	РМРМ		Risk	Adjusted All	owed PMPN	1 (2)	Benefit	Risk Adjus Adjusted Allo		(2) (3)		RVU PI	MPM		Ri	sk Adj RVU	PMPM (2)			Risk Adjuste it Adj RVU P		3)
Region Name		2017 HHS odel Platinum Rick Score	Plan Coinsurance Range	Inpatient C	utestiont Br	rof / Othor	Innationt C	Outpatient	Prof / Other	Inpatient	Outpatient	Prof / Other	Total	Inpatient (4)	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Inpatien O	utpatien	Prof / Other	Total	Inpatien	utoatient	Prof / Other	Total	Inpatien	utpatient Pro	f / Othor	Total
Total - All Regions	15,525,386	1.674		1.039	1.035	1.029	1.047	1.034	1.041	\$76.20	\$95.16	\$211.12	\$382.48	\$76.20	\$95.16	\$211.12	\$382.48	\$72.75	\$92.06	\$202.72	\$367.53	0.87	1.31	5.02	Total	0.87	1.31	5.02	7.21	0.84	1.27		6.99
MD1 MD1 (Southern MD) MD2 MD2 (Western MD) MD3 MD3 (Eastern Shore) MD4 MD4 (Northern DC Suburbs) MD5 (Baltimore Area)	2.653.324 614,558 994,372 3,712,601 7,550,531	1.782 1.507	85%-95% 85%-95% 85%-95%	1.045 1.042 1.038 1.034 1.040	1.040 1.039 1.034 1.030 1.036	1.032 1.031 1.027 1.024 1.029	1.056 1.053 1.045 1.039 1.049	1.037 1.036 1.032 1.029 1.034	1.046 1.045 1.040 1.035 1.042	\$82.31 \$91.11 \$84.88 \$62.73 \$78.33	\$96.44 \$117.32 \$108.54 \$77.62 \$99.76	\$207.17 \$192.88 \$202.59 \$226.17 \$207.72	\$385.92 \$401.31 \$396.00 \$366.52 \$385.81	\$77.95 \$80.45 \$79.69 \$69.64 \$77.57	\$91.33 \$103.61 \$101.90 \$86.18 \$98.79	\$196.19 \$170.33 \$190.22 \$251.10 \$205.70	\$365.47 \$354.39 \$371.81 \$406.92 \$382.06	\$73.81 \$76.43 \$76.24 \$67.03 \$73.97	\$88.05 \$99.98 \$98.70 \$83.73 \$95.52	\$187.53 \$162.95 \$182.94 \$242.60 \$197.34	\$349.38 \$339.37 \$357.89 \$393.37 \$366.83	0.90 0.99 0.96 0.69 0.93	1.23 1.62 1.50 1.10 1.40	4.81 4.46 5.02 5.30 5.01	7.08 7.49 7.09	0.85 0.88 0.90 0.77 0.92	1.16 1.43 1.41 1.22 1.38	4.55 3.94 4.72 5.88 4.96	6.56 6.25 7.03 7.87 7.26	0.81 0.84 0.87 0.74 0.88	1.12 1.38 1.36 1.18 1.33	4.41 3.82 4.59 5.74 4.82	6.04 6.83 7.67

Appendix C - Exhibit 2a

CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 12/2021, Paid through 3/2022 (Adjusted to Estimated Ultimate Incurred)

Summary of Experience by PSAP

Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical eligibility with valid risk scores, i.e., the risk score shown equals total risk score over total Medical.
 (2) Completion factor used: 0.9834. Risk adjusted allowed dollars are risk normalized to the statewide Maryland risk score over total Medical.
 (3) The pinh benefit factors (risk total amounts are calculated based on the combined or clinisurance level.
 (4) Teachina hospital amounts are removed from Inpatient allowed and paid amounts (except SNF, newborn, and residential treatments) based on the FY2017 per cliem rates (trended to FY2021 with an annual rate 2.25% based on the file "IME for ICC.xisx") at the provider level from file warever from Maryland HSCR on 1211/12019 named "Hospital Factor, memicial emoval of GME 12-09.xisx". For benchmark results, this adjustment was made at the MSA level.
 (5) Cost and utilization data are acqueated for each hospital 3 Primary Service Area Plus (PSAP). The hospital PSAP, The provider level amounts are enclosed of the cost and utilization data are acqueated for the Arbit and the PSAP 21P Codes of (cost or utilization value at the 21P Code).
 (5) Cost and utilization data are acqueated for each hospital 3 PRAP, the Ocdes of (cost or utilization value at the 21P Code).
 (6) Cost and utilization data are acqueated at the sum of the PSAP 21P Codes of (cost or utilization value at the 21P Code).

	Member Months and Risk Total Allowed (2)										Allowed F	PMPM (2)					RVUs PM	IPM (2)				Allowed P	r RVU	
		2017 HHS Model			Inpatient w/									Total - Risk &						Total - Risk &				
		Platinum Risk		Teaching	Teaching								Total - Risk	Benefit					Total - Risk	Benefit				
Hospital Name and Medicare ID (5)	Medical MMs	Score (1)	Inpatient	Adjustment (4)	Adjustment	Outpatient	Prof / Other	Total	Inpatient	Outpatient	Prof / Other	Total	Adjusted	Adjusted (3)	Inpatient (	Outpatient F	Prof / Other	Total	Adjusted	Adjusted (3)	Inpatient (	Outpatient P	of / Other	Total
Total - All PSAPs	15,524,694	1.674	\$1,249,390,401	\$66,326,120	\$1,183,064,281	\$1,477,300,380	\$3,277,621,307	\$5,937,985,969	\$76.21	\$95.16	\$211.12	\$382.49	\$382.49	\$367.54	0.87	1.31	5.02	7.21	7.21	6.99	\$87.47	\$72.59	\$42.03	\$53.08
210023 ANNE ARUNDEL	1,060,239	1.592	\$74,529,738	\$3,298,751	71,230,988	\$88,017,187	\$227,622,756	\$386,870,931	\$67.18	\$83.02	\$214.69	\$364.89	\$383.64	\$370.78	0.77	1.25	5.20	7.22	7.59	7.40	\$87.57	\$66.46		\$50.54
210061 ATLANTIC GENERAL	71,404	1.720	\$6,427,895	\$186,827	6,241,068	\$7,593,580	\$12,986,686	\$26,821,334	\$87.41	\$106.35	\$181.88	\$375.63	\$365.39	\$359.13	0.93	1.47	4.76	7.16	6.97	6.88	\$94.32	\$72.18		\$52.43
210043 BALTIMORE WASHINGTON	746,868	1.755	\$62,998,509	\$3,652,348	59,346,161	\$64,660,508	\$158,091,757	\$282,098,427	\$79.46	\$86.58	\$211.67	\$377.71	\$360.09	\$345.42	0.99	1.26	5.19	7.44	7.10	6.87	\$80.16	\$68.65		\$50.74
210013 BON SECOURS	23,678 296,369	2.184 1.735	\$2,998,581 \$22,316,073	\$279.616 \$953.442	2,718,965 21 362 632	\$3,718,527	\$4,569,741 \$62,610,130	\$11,007,234 \$112,922,963	\$114.83	\$157.05 \$97.68	\$193.00 \$211.26	\$464.87 \$381.02	\$356.25 \$367.59	\$338.04	1.57	1.83 1.24	4.64	8.04	6.16 6.62	5.90	\$73.15	\$85.90		\$57.85 \$55.51
210039 CALVERT 210033 CARROLL COUNTY	296,369 658,525	1.735	\$22,316,073 \$49,951,946	\$953,442 \$3,515,916	21,362,632	\$28,950,202 \$62,437,595	\$62,610,130 \$133.807.553	\$112,922,963 \$242,681,178	\$72.08 \$70.52	\$97.68 \$94.81	\$211.26 \$203.19	\$381.02	\$367.59 \$383.70	\$351.16 \$369.12	0.77	1.24	4.85	6.86 7.13	6.62 7.42	6.39 7.20	\$93.14 \$86.66	\$78.46 \$63.61		\$55.51 \$51.72
210035 CARROLL COUNTY 210035 CHARLES REGIONAL	381.331	1.766	\$35.623.370	\$1,567,765	34.055.604	\$62,437,595 \$38,205,290	\$81.827.248	\$242,081,178 \$154.088.142	\$70.52 \$89.31	\$94.81	\$203.19	\$308.52	\$383.70	\$365.01	0.81	1.49	4.82	7.13	6.80	6.55	\$93.04	\$03.01 \$76.81		\$56.29
210030 CHESTERTOWN	85.473	1.719	\$9,743,610	\$495,076	9,248,534	\$10,273,104	\$15,707,324	\$35,228,962	\$108.20	\$120.19	\$183.77	\$412.16	\$401.26	\$384.59	1.08	1.33	4.28	6.70	6.52	6.31	\$100.53	\$90.08		\$61.56
210051 DOCTORS COMMUNITY	395,791	1.769	\$30,713,851	\$1,514,262	29,199,589	\$35,792,647	\$81,477,364	\$146,469,600	\$73.78	\$90.43	\$205.86	\$370.07	\$350.05	\$334.70	0.81	1.17	4.93	6.91	6.54	6.31	\$91.52	\$77.23		\$53.56
210037 EASTON	322.635	1 744	\$27.655.923	\$1,362,153	26,293,770	\$37.337.287	\$68,257,883	\$131.888.940	\$81.50	\$115.73	\$211.56	\$408.79	\$392.19	\$376.62	0.87	1.66	5 10	7.63	7.32	7.09	\$93.25	\$69.81		\$53.57
210015 FRANKLIN SQUARE	336,594	1.913	\$28,732,672	\$1,470,389	27,262,282	\$37,484,890	\$79.835.843	\$144,583,015	\$80.99	\$111.37	\$237.19	\$429.55	\$375.71	\$358.63	1.03	1.63	5.00	7.66	6.70	6.46	\$78.30	\$68.45		\$56.07
210005 FREDERICK MEMORIAL	945,803	1.555	\$68,162,608	\$2,553,827	65,608,782	\$67,720,532	\$208,569,513	\$341,898,826	\$69.37	\$71.60	\$220.52	\$361.49	\$389.02	\$374.27	0.78	1.04	5.28	7.10	7.64	7.43	\$89.09	\$68.62	\$41.75	\$50.89
210060 FT. WASHINGTON	87,788	1.959	\$9,536,506	\$257,707	9,278,799	\$10,809,668	\$18,123,821	\$38,212,289	\$105.70	\$123.13	\$206.45	\$435.28	\$371.89	\$355.74	1.07	1.35	4.74	7.17	6.12	5.92	\$98.74	\$91.03	\$43.53	\$60.74
210044 G.B.M.C.	414,008	1.567	\$30,327,448	\$1,985,144	28,342,303	\$38,386,678	\$82,811,358	\$149,540,339	\$68.46	\$92.72	\$200.02	\$361.20	\$385.67	\$373.43	0.81	1.36	4.83	7.00	7.48	7.30	\$84.49	\$67.98		\$51.57
210017 GARRETT COUNTY	48,677	1.802	\$4,099,681	\$26,940	4,072,742	\$9,119,148	\$6,942,197	\$20,134,086	\$83.67	\$187.34	\$142.62	\$413.63	\$384.07	\$370.82	0.68	2.18	3.49	6.35	5.89	5.73	\$123.17	\$85.94		\$65.16
210056 GOOD SAMARITAN	183,047	2.033	\$17,046,122	\$1,217,554	15,828,568	\$23,437,497	\$40,180,143	\$79,446,208	\$86.47	\$128.04	\$219.51	\$434.02	\$357.36	\$339.55	1.13	1.63	5.35	8.11	6.68	6.41	\$76.44	\$78.54		\$53.49
210034 HARBOR	86,265	1.922	\$9,498,821	\$689,057	8,809,764	\$10,897,246	\$17,952,899	\$37,659,909	\$102.12	\$126.32	\$208.11	\$436.56	\$380.07	\$364.50	1.31	1.63	5.06	8.00	6.96	6.74	\$77.93	\$77.40		\$54.58
210006 HARFORD	94,712	1.741	\$8,536,437	\$392,316	8,144,121	\$10,785,573	\$19,143,230	\$38,072,924	\$85.99	\$113.88	\$202.12	\$401.99	\$386.33	\$371.58	0.98	1.48	4.98	7.44	7.15	6.93	\$88.01	\$77.10		\$54.07
210065 HC-GERMANTOWN	137,825	1.522	\$9,143,035	\$400,867	8,742,168	\$10,034,793	\$30,140,211	\$48,917,172	\$63.43	\$72.81	\$218.69	\$354.92	\$390.36	\$376.22	0.66	1.05	5.18	6.90	7.59	7.38	\$95.77	\$69.08		\$51.43
210004 HOLY CROSS 210029 HOPKINS BAYVIEW MED CTR	696,327 140,591	1.526	\$47,198,582 \$15,931,072	\$1,977,126 \$1,210,220	45,221,457 14,720,852	\$52,508,877 \$17,291,914	\$151,497,041 \$28,177,467	\$249,227,375 \$60,190,233	\$64.94 \$104.71	\$75.41 \$122.99	\$217.57 \$200.42	\$357.92 \$428.12	\$392.58 \$371.83	\$378.62 \$356.23	0.72	1.02	5.15 4.64	6.90 7.57	7.57	7.36	\$90.00 \$79.59	\$73.74 \$76.00		\$51.88 \$56.54
210029 HOPKINS BATVIEW MEDICTR 210048 HOWARD COUNTY	915.814	1.502	\$59,722,982	\$3,928,371	55,794,610	\$70,146,649	\$192,567,222	\$318,508,481	\$60.92	\$122.99	\$200.42 \$210.27	\$428.12	\$371.83	\$356.23	0.73	1.02	4.64 5.29	7.57	0.56	7.75	\$79.59	\$76.00		\$36.54 \$48.60
210048 HOWARD COONTY 210009 JOHNS HOPKINS	160.005	1.829	\$15.029.834	\$1,254,446	13,775,388	\$20,297,985	\$31,163,356	\$65,236,730	\$86.09	\$126.86	\$194.77	\$407.72	\$387.40	\$359.04	1.07	1.14	4.61	7.10	6.65	6.46	\$80.35	\$79.99		\$56.08
210055 LAUREL REGIONAL	100,000	0.000	\$10,020,004	\$0	0	\$0	\$01,100,000	\$00,200,100	\$0.00	\$0.00	\$0.00	\$0.00	¢070.00	\$0.00	0.00	0.00	0.00	0.00	n/a	0.00	\$0.00	\$0.00	\$0.00	\$0.00
210064 LEVINDALE	83	1 810	\$9 781	\$591	9 190	\$9 774	\$18 405	\$37,369	\$110.85	\$117.89	\$222.00	\$450.74	\$416.79	\$397.93	1.22	1.54	5.30	8.07	7 46	7 20	\$90.85	\$76.42		\$55.87
210045 MCCREADY	8.403	2.319	\$834.877	\$30.821	804.056	\$1,127,819	\$1.699.821	\$3.631.696	\$95.69	\$134.22	\$202.29	\$432.19	\$311.95	\$296.10	1.18	1.89	5.02	8.10	5.84	5.60	\$80.76	\$71.04	\$40.27	\$53.37
210008 MERCY	177,050	1.971	\$18,653,181	\$1,533,267	17,119,914	\$23,633,029	\$35,868,350	\$76,621,294	\$96.70	\$133.48	\$202.59	\$432.77	\$367.36	\$350.02	1.18	1.63	4.85	7.67	6.51	6.26	\$81.70	\$81.77	\$41.76	\$56.44
210001 MERITUS	394,477	1.828	\$35,909,017	\$1,275,340	34,633,677	\$37,696,263	\$81,554,083	\$153,884,023	\$87.80	\$95.56	\$206.74	\$390.10	\$357.11	\$343.46	0.98	1.45	4.60	7.03	6.44	6.25	\$89.57	\$65.78		\$55.45
210018 MONTGOMERY GENERAL	251,180	1.542	\$15,287,832	\$614,885	14,672,947	\$23,350,491	\$58,220,855	\$96,244,293	\$58.42	\$92.96	\$231.79	\$383.17	\$415.92	\$400.10	0.69	1.21	5.42	7.32	7.95	7.72	\$84.36	\$77.12		\$52.32
210040 NORTHWEST	235,621	1.849	\$25,095,775	\$1,724,953	23,370,822	\$27,917,461	\$51,172,460	\$102,460,742	\$99.19	\$118.48	\$217.18	\$434.85	\$393.49	\$375.51	1.18	1.56	5.20	7.93	7.18	6.92	\$84.29	\$76.13		\$54.84
210019 PENINSULA REGIONAL	396,355	1.853	\$33,595,099	\$1,343,103	32,251,996	\$41,280,347	\$78,436,684	\$151,969,027	\$81.37	\$104.15	\$197.89	\$383.42	\$346.32	\$333.32	0.98	1.43	5.07	7.48	6.76	6.56	\$82.88	\$73.04		\$51.25
210003 PRINCE GEORGE	233,152	1.969	\$21,354,559	\$857,357	20,497,202	\$25,419,656	\$46,675,784	\$92,592,642	\$87.91	\$109.03	\$200.19	\$397.13	\$337.54	\$322.56	1.01	1.35	4.68	7.05	5.99	5.78	\$86.74	\$80.54		\$56.34
210057 SHADY GROVE	957,180	1.540	\$63,674,506	\$3,033,307 \$3,173,449	60,641,199	\$73,953,164 \$53,178,471	\$216,199,166 \$96,981,389	\$350,793,529 \$201,470,920	\$63.35	\$77.26	\$225.87 \$225.48	\$366.49	\$398.18	\$384.31 \$401.87	0.69	1.12 1.59	5.32 5.37	7.12	7.74 7.42	7.53	\$91.92	\$69.28		\$51.47 \$56.81
210012 SINAI 210062 SOUTHERN MARYLAND	430,111 382,965	1.860 1.850	\$54,484,509 \$38,283,352	\$3,173,449	51,311,060 36,808,462	\$39,244,936	\$78,558,879	\$154.612.277	\$119.30 \$96.11	\$123.64 \$102.48	\$225.48	\$468.42 \$403.72	\$421.44 \$365.19	\$401.87 \$347.58	1.28 1.01	1.59	4.70	8.24 6.96	6.30	7.15 6.06	\$93.19 \$95.12	\$77.62 \$81.62		\$58.00
210002 SOUTHERN MARTLAND 210011 ST AGNES	366,175	1.674	\$29,888,988	\$2,799,759	27.089.228	\$38,642,704	\$71.890.799	\$137.622.731	\$73.98	\$102.48	\$196.33	\$375.84	\$375.62	\$359.03	0.90	1.42	4.70	7 16	7.16	6.91	\$82.36	\$74.27		\$52.49
210028 ST. MARY	256.396	1.650	\$22,155,906	\$1,230,993	20,924,913	\$25,896,180	\$53,513,483	\$100,334,576	\$81.61	\$101.00	\$208.71	\$391.33	\$396.86	\$384.15	0.93	1.32	4.53	6 78	6.88	6.71	\$87.95	\$76.54		\$57.71
210022 SUBURBAN	738.676	1.389	\$41,715,232	\$1,832,850	39.882.382	\$61.023.544	\$174,974,289	\$275.880.214	\$53.99	\$82.61	\$236.88	\$373.48	\$449.99	\$439.74	0.58	1.15	5.34	7.08	8.53	8.38	\$92.35	\$71.62		\$52.76
210063 UM ST. JOSEPH	509,258	1.626	\$40,088,996	\$2,680,175	37,408,822	\$50.099.690	\$104,249,321	\$191,757,832	\$73.46	\$98.38	\$204.71	\$376.54	\$387.45	\$373.40	0.88	1.41	4.91	7.20	7.40	7.20	\$83.65	\$69.71		\$52.33
210038 UMMC MIDTOWN	47,404	1.974	\$5,470,419	\$464,732	5,005,687	\$6,350,719	\$9,143,716	\$20,500,122	\$105.60	\$133.97	\$192.89	\$432.45	\$366.60	\$347.79	1.27	1.57	4.61	7.45	6.31	6.05	\$83.23	\$85.17		\$58.06
210032 UNION HOSPITAL OF CECIL	192,592	1.696	\$20,018,418	\$642,405	19,376,013	\$25,177,565	\$31,828,329	\$76,381,907	\$100.61	\$130.73	\$165.26	\$396.60	\$391.37	\$378.31	0.96	1.53	4.06	6.54	6.46		\$105.02	\$85.62		\$60.60
210024 UNION MEMORIAL	199,074	1.849	\$17,746,959	\$1,516,763	16,230,195	\$24,097,841	\$42,795,013	\$83,123,050	\$81.53	\$121.05	\$214.97	\$417.55	\$378.00	\$361.09	0.97	1.51	5.18	7.66	6.93	6.69	\$84.24	\$80.08		\$54.52
210002 UNIVERSITY OF MARYLAND	100,964	1.864	\$10,275,890	\$983,539	9,292,350	\$13,060,049	\$18,541,317	\$40,893,715	\$92.04	\$129.35	\$183.64	\$405.03	\$363.56	\$346.77	1.19	1.54	4.42	7.15	6.41	6.17	\$77.39	\$84.21		\$56.69
210049 UPPER CHESAPEAKE HEALTH	707,209	1.573	\$52,191,206	\$2,729,183	49,462,023	\$64,244,137	\$141,443,416	\$255,149,576	\$69.94	\$90.84	\$200.00	\$360.78	\$383.76	\$369.66	0.83	1.31	4.84	6.98	7.43	7.22	\$84.02	\$69.22		\$51.66
210016 WASHINGTON ADVENTIST	474,525	1.645	\$38,536,082	\$1,848,343	36,687,739	\$40,189,438	\$98,952,224	\$175,829,401	\$77.31	\$84.69	\$208.53	\$370.54	\$377.03	\$361.65	0.84	1.10	4.96	6.90	7.02	6.80	\$92.16	\$77.05		\$53.69
210027 WESTERN MARYLAND	176,075	2.071	\$18,194,520	\$345,294	17,849,226	\$25,799,724	\$30,840,783	\$74,489,733	\$101.37	\$146.53	\$175.16	\$423.06	\$341.92	\$324.44	1.11	1.85	4.39	7.35	5.94	5.69	\$91.41	\$79.13	\$39.88	\$57.54

# Appendix C - Exhibit 2b CY 2021 Milliman Benchmark and Mayland All-Payer Claims Database Cost and Utilization Exhibits Maryland APCD: Incurred 1/2021 through 1/2020, I-paid through 3/2022 (Adjusted to Estimated Utilimate Incurred) Plan Benefit Normalization Factors by PSAP Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Linearly interpolated between colssurance ranges. (2) Risk adjusted amounts are normalized to all of Maryland, which has a 2017 HHS Platinum risk score of 1.573522. (3) Risk adjusted amounts are enclosed to all normalized as risk adjusted amounts/ (benefit normalization factor). (4) Teaching hospital amounts are removed from Inpatient allowed and patient allowed and patient assesses (For InterChanges). (5) Risk adjusted amounts are removed from Inpatient allowed and patient allowed and patient allowed and patient assesses (For InterChanges). (4) Teaching hospital amounts are removed from Inpatient allowed and patient allowed and patient and score (For InterChanges). (5) Risk adjusted and utilization data are removed from Inpatient allowed and patient and the patient and the AMSA level. (5) Cost and utilization data are expressed for each hospitals "Primar Strick Rev Pai (PSAP). The hospital PSAP, the cost and utilization value are at the 2005 (Sost (For InterChanges) provided by HSCRC from file named "All payer and Medicare PSAP 4.2 2019.stx." For each hospital SPAP, the cost and utilization value are at a calculated as the set acclusted as t

	Member Months, Risk, and RVU Plan Benefit Allowed Plan Benefit Plan Coinsurance Normalization Factors (1) Normalization Factors (1) 2017 HIS Plan							Allowed	PMPM		Risk	Adjusted All	lowed PMPM	(2)	Benefit A	Risk Adjust Adjusted Allo		(2) (3)		RVU P	MPM		Risk Adj RV	U PMPM (2)		Risk Adj Benefit Adj R	usted and VU PMPM (2	:) (3)				
		2017 HHS Model Platinum	Plan	Plan Coinsurance			Prof /			rof /	Inpatient		Prof /		Inpatient		Prof /		Inpatient		Prof /		Inpatien O				Inpatien	Prof /		Inpatien	Prof /	
Hospital Name and Medicare ID (5)	Medical MMs		Coinsurance	Range	Inpatient	Outpatient	Other	Inpatient C		ther		Outpatient	Other	Total		Outpatient	Other	Total		Outpatient	Other	Total	t t		rof / Other		t Outpatient	Other Tot		t Outpatient		Total
Total - All PSAPs	15,524,694	1.674	89.2%	85%-95%	1.039	1.035	1.029	1.047	1.034	1.041	\$76.21	\$95.16	\$211.12	\$382.49	\$76.21	\$95.16	\$211.12	\$382.49	\$72.75	\$92.06	\$202.72	\$367.54	0.87	1.31	5.02	7.21	0.87 1.31	5.02 7	.21	0.84 1.27	4.88	6.99
210023 ANNE ARUNDEL 210061 ATLANTIC GENERAL 210043 BALTIMORE WASHINGTON	1.060.239 71,404 746.868	1.592 1.720 1.755	85.3%	85%-95% 85%-95% 85%-95%	1.034 1.019 1.040	1.030 1.015 1.037	1.024 1.012 1.030	1.039 1.016 1.050	1.029 1.017 1.035	1.035 1.018 1.043	\$67.18 \$87.41 \$79.46	\$83.02 \$106.35 \$86.58	\$214.69 \$181.88 \$211.67	\$364.89 \$375.63 \$377.71	\$70.64 \$85.02 \$75.75	\$87.28 \$103.45 \$82.54	\$225.72 \$176.92 \$201.80	\$383.64 \$365.39 \$360.09	\$67.96 \$83.66 \$72.17	\$84.79 \$101.67 \$79.77	\$218.03 \$173.80 \$193.48	\$370.78 \$359.13 \$345.42	0.77 0.93 0.99	1.25 1.47 1.26	5.20 4.76 5.19	7.22 7.16 7.44	0.81 1.31 0.90 1.43 0.94 1.20	4.64 6	7.59 8.97 7.10	0.78 1.28 0.88 1.41 0.91 1.16		6.88
210013 BON SECOURS 210039 CALVERT 210033 CARROLL COUNTY	23,678 296,369 658,525	2.184 1.735 1.607	91.8% 90.4%	85%-95% 85%-95% 85%-95%	1.061 1.047 1.038	1.043 1.040 1.034	1.039 1.034 1.028	1.084 1.061 1.046	1.042 1.038 1.033	1.047 1.046 1.040	\$114.83 \$72.08 \$70.52	\$157.05 \$97.68 \$94.81	\$193.00 \$211.26 \$203.19	\$464.87 \$381.02 \$368.52	\$88.00 \$69.54 \$73.42	\$120.35 \$94.24 \$98.72	\$147.90 \$203.81 \$211.56	\$356.25 \$367.59 \$383.70	\$81.22 \$65.57 \$70.19	\$115.53 \$90.79 \$95.58	\$141.29 \$194.79 \$203.35	\$338.04 \$351.16 \$369.12	1.57 0.77 0.81	1.83 1.24 1.49	4.64 4.85 4.82	8.04 6.86 7.13	1.20 1.40 0.75 1.20 0.85 1.55	3.55 6 4.67 6	5.16 5.62	1.13 1.34 0.71 1.15 0.82 1.50		5.90 6.39
210035 CHARLES REGIONAL	381,331	1.766	90.8%	85%-95%	1.051	1.041	1.035	1.067	1.039	1.046	\$89.31	\$100.19	\$214.58	\$404.08	\$84.63	\$94.94	\$203.34	\$382.90	\$79.32	\$91.38	\$194.31 \$171.35	\$365.01 \$384.59	0.96	1.30	4.91	7.18	0.91 1.24	4.66 6	.80 3.52	0.87 1.19	4.50	6.55
210030 CHESTERTOWN 210051 DOCTORS COMMUNITY 210037 EASTON	85.473 395,791 322.635	1.719 1.769 1.744	90.1%	85%-95% 85%-95% 85%-95%	1.041 1.044 1.040	1.038 1.040 1.036	1.030 1.032 1.029	1.051 1.056 1.049	1.035 1.037 1.034	1.044 1.046 1.042	\$108.20 \$73.78 \$81.50	\$120.19 \$90.43 \$115.73	\$183.77 \$205.86 \$211.56	\$412.16 \$370.07 \$408.79	\$105.34 \$69.78 \$78.19	\$117.01 \$85.54 \$111.03	\$178.91 \$194.72 \$202.97	\$401.26 \$350.05 \$392.19	\$100.23 \$66.10 \$74.55	\$113.01 \$82.48 \$107.35	\$171.35 \$186.12 \$194.72	\$384.59 \$334.70 \$376.62	1.08 0.81 0.87	1.33 1.17 1.66	4.28 4.93 5.10	6.70 6.91 7.63	1.05 1.30 0.76 1.11 0.84 1.59	4.67 6	5.52 5.54 7.32	1.01 1.25 0.73 1.07 0.81 1.53	4.05 4.52 4.75	6.31
210015 FRANKLIN SQUARE 210005 FREDERICK MEMORIAL	336,594 945,803	1.913 1.555	89.0%	85%-95%	1.049 1.038	1.041 1.034	1.034 1.027	1.064 1.045	1.039 1.032	1.046 1.040	\$80.99 \$69.37	\$111.37 \$71.60	\$237.19 \$220.52	\$429.55 \$361.49	\$70.84 \$74.65	\$97.41 \$77.05	\$207.46 \$237.32	\$375.71 \$389.02	\$66.57 \$71.41	\$93.79 \$74.63	\$198.26 \$228.23	\$358.63 \$374.27	1.03 0.78	1.63 1.04	5.00 5.28	7.66 7.10	0.90 1.42 0.84 1.12	5.68 7	3.70 7.64	0.86 1.37 0.81 1.09	5.53	7.43
210060 FT. WASHINGTON 210044 G.B.M.C.	87,788 414,008	1.959 1.567		85%-95% 85%-95%	1.043 1.032	1.039	1.032 1.023	1.054 1.037	1.037 1.028	1.046 1.034	\$105.70 \$68.46	\$123.13 \$92.72	\$206.45 \$200.02	\$435.28 \$361.20	\$90.30 \$73.10	\$105.20 \$99.00	\$176.38 \$213.58	\$371.89 \$385.67	\$85.68 \$70.49	\$101.46 \$96.29	\$168.60 \$206.65	\$355.74 \$373.43	1.07 0.81	1.35 1.36	4.74 4.83	7.17 7.00	0.91 1.16 0.87 1.46		5.12 7.48	0.88 1.11 0.84 1.42	3.93 5.04	
210017 GARRETT COUNTY 210056 GOOD SAMARITAN	48.677 183,047	1.802	91.9%		1.036 1.061	1.032 1.043	1.026 1.039	1.043 1.084	1.031 1.042	1.038	\$83.67 \$86.47	\$187.34 \$128.04	\$142.62 \$219.51	\$413.63 \$434.02	\$77.69 \$71.20	\$173.95 \$105.43	\$132.43 \$180.74	\$384.07 \$357.36	\$74.51 \$65.70	\$168.71 \$101.20	\$127.60 \$172.65	\$370.82 \$339.55	0.68	2.18 1.63	3.49 5.35	6.35 8.11	0.63 2.02 0.93 1.34		5.89 5.68	0.61 1.96		6.41
210034 HARBOR 210006 HARFORD	86.265 94,712	1.922 1.741	89.1%	85%-95% 85%-95%	1.041 1.038	1.037 1.035	1.030 1.028	1.050 1.046	1.035 1.033	1.044 1.041	\$102.12 \$85.99	\$126.32 \$113.88	\$208.11 \$202.12	\$436.56 \$401.99	\$88.91 \$82.64	\$109.98 \$109.44	\$181.18 \$194.25	\$380.07 \$386.33	\$84.65 \$78.98	\$106.25 \$105.94	\$173.61 \$186.67	\$364.50 \$371.58	1.31 0.98	1.63 1.48	5.06 4.98	8.00 7.44	1.14 1.42 0.94 1.42	4.79 7	5.96 7.15	1.10 1.37 0.90 1.37	4.66	6.93
210065 HC-GERMANTOWN 210004 HOLY CROSS 210029 HOPKINS BAYVIEW MED CTR	137,825 696,327 140,591	1.522 1.526 1.927	88.6%	85%-95% 85%-95% 85%-95%	1.036 1.036 1.042	1.032 1.032 1.038	1.026 1.026 1.031	1.043 1.042 1.052	1.031 1.031 1.036	1.038 1.037 1.045	\$63.43 \$64.94 \$104.71	\$72.81 \$75.41 \$122.99	\$218.69 \$217.57 \$200.42	\$354.92 \$357.92 \$428.12	\$69.76 \$71.23 \$90.94	\$80.08 \$82.71 \$106.82	\$240.52 \$238.64 \$174.07	\$390.36 \$392.58 \$371.83	\$66.88 \$68.35 \$86.47	\$77.65 \$80.24 \$103.13	\$231.69 \$230.03 \$166.63	\$376.22 \$378.62 \$356.23	0.66 0.72 1.32	1.05 1.02 1.62	5.18 5.15 4.64	6.90 6.90 7.57	0.73 1.16 0.79 1.12 1.14 1.41	5.65 7	7.59 7.57 8.58	0.70 1.12 0.76 1.09 1.10 1.35	5.51	7.36
210048 HOWARD COUNTY 210009 JOHNS HOPKINS	915,814 160,005	1.502 1.829	89.0%	85%-95% 85%-95%	1.037 1.038	1.033 1.034	1.027 1.028	1.045 1.046	1.032 1.033	1.039 1.040	\$60.92 \$86.09	\$76.59 \$126.86	\$210.27 \$194.77	\$347.79 \$407.72	\$67.86 \$78.78	\$85.32 \$116.08	\$234.22 \$178.22	\$387.40 \$373.08	\$64.97 \$75.32	\$82.66 \$112.40	\$225.37 \$171.32	\$373.00 \$359.04	0.73 1.07	1.14 1.59	5.29 4.61	7.16 7.27	0.81 1.27 0.98 1.45	4.22 6	7.97 5.65	0.78 1.23 0.94 1.40	4.11	6.46
210055 LAUREL REGIONAL 210064 LEVINDALE 210045 MCCREADY	0 83 8.403	0.000 1.810 2.319	90.4%	n/a 85%-95% 85%-95%	n/a 1.047 1.062	n/a 1.040 1.044	n/a 1.033 1.039	n/a 1.060 1.085	n/a 1.038 1.042	n/a 1.046 1.047	\$0.00 \$110.85 \$95.69	\$0.00 \$117.89 \$134.22	\$0.00 \$222.00 \$202.29	\$0.00 \$450.74 \$432.19	n/a \$102.50 \$69.07	n/a \$109.01 \$96.88	n/a \$205.27 \$146.01	\$0.00 \$416.79 \$311.95	n/a \$96.71 \$63.65	n/a \$105.04 \$92.98	n/a \$196.19 \$139.48	\$0.00 \$397.93 \$296.10	0.00 1.22 1.18	0.00 1.54 1.89	0.00 5.30 5.02	0.00 8.07 8.10	n/a n/a 1.13 1.43 0.86 1.36	4.90 7	0.00 7.46 5.84	n/a n/a 1.08 1.37 0.81 1.31	n/a 4.75 3.49	7.20
210045 MCCREADT 210008 MERCY 210001 MERITUS	177,050 394,477	2.319 1.971 1.828	91.0%	85%-95% 85%-95%	1.053	1.044 1.042 1.034	1.039	1.065	1.042	1.047	\$95.69 \$96.70 \$87.80	\$134.22 \$133.48 \$95.56	\$202.29 \$202.59 \$206.74	\$432.19 \$432.77 \$390.10	\$82.08 \$80.37	\$90.00 \$113.31 \$87.48	\$140.01 \$171.97 \$189.26	\$367.36 \$357.11	\$76.70 \$76.84	\$109.00 \$84.70	\$164.33 \$181.93	\$350.02 \$343.46	1.18	1.63	4.85 4.60	7.67 7.03	0.00 1.30 1.00 1.39 0.90 1.33	4.12 6	5.64 5.51 5.44	0.95 1.33 0.86 1.29		6.26
210001 MERITOS 210018 MONTGOMERY GENERAL 210040 NORTHWEST	251,180 235.621	1.542	89.1%	85%-95% 85%-95%	1.038	1.034	1.028	1.046	1.033	1.040	\$58.42 \$99.19	\$92.96 \$118.48	\$231.79 \$217.18	\$383.17 \$434.85	\$63.41 \$89.75	\$100.91 \$107.21	\$251.60 \$196.52	\$415.92 \$393.49	\$60.61 \$84.44	\$97.69 \$103.26	\$241.80 \$187.82	\$400.10 \$375.51	0.69	1.21	5.42	7.32	0.75 1.31	5.89 7	.95 .18	0.72 1.26	5.73 4.55	7.72
210019 PENINSULA REGIONAL 210003 PRINCE GEORGE	396.355 233,152	1.853 1.969	90.3%	85%-95% 85%-95%	1.038 1.046	1.034 1.040	1.027 1.033	1.045 1.058	1.033 1.038	1.040 1.046	\$81.37 \$87.91	\$104.15 \$109.03	\$197.89 \$200.19	\$383.42 \$397.13	\$73.50 \$74.72	\$94.07 \$92.67	\$178.75 \$170.15	\$346.32 \$337.54	\$70.31 \$70.62	\$91.11 \$89.31	\$171.90 \$162.63	\$333.32 \$322.56	0.98 1.01	1.43 1.35	5.07 4.68	7.48 7.05	0.89 1.29 0.86 1.15	3.98 5	5.76 5.99	0.85 1.25 0.82 1.11	3.85	6.56 5.78
210057 SHADY GROVE 210012 SINAI 210062 SOUTHERN MARYLAND	957,180 430,111 382,965	1.540 1.860 1.850	90.6%	85%-95% 85%-95% 85%-95%	1.035 1.049 1.054	1.031 1.041 1.042	1.025 1.034 1.036	1.041 1.064 1.072	1.030 1.039 1.040	1.037 1.046 1.047	\$63.35 \$119.30 \$96.11	\$77.26 \$123.64 \$102.48	\$225.87 \$225.48 \$205.13	\$366.49 \$468.42 \$403.72	\$68.83 \$107.33 \$86.94	\$83.94 \$111.24 \$92.70	\$245.40 \$202.87 \$185.56	\$398.18 \$421.44 \$365.19	\$66.11 \$100.88 \$81.13	\$81.47 \$107.11 \$89.15	\$236.73 \$193.88	\$384.31 \$401.87 \$347.58	0.69 1.28 1.01	1.12 1.59 1.26	5.32 5.37 4.70	7.12 8.24 6.96	0.75 1.21 1.15 1.43 0.91 1.14	4.83 7	7.74 7.42 8.30	0.72 1.18 1.10 1.38 0.87 1.09		7.15
210082 SOUTHERN MARTLAND 210011 ST. AGNES 210028 ST. MARY	366,175 256,396	1.674	90.3%		1.046	1.042	1.038	1.072 1.059 1.037	1.038	1.047	\$73.98 \$81.61	\$105.53 \$101.00	\$196.33 \$208.71	\$375.84 \$391.33	\$73.94 \$82.77	\$105.47 \$102.43	\$105.30 \$196.22 \$211.67	\$375.62 \$396.86	\$69.84 \$79.79	\$101.65 \$99.61	\$187.54 \$204.76	\$359.03 \$384.15	0.90	1.42	4.84 4.53	7.16	0.91 1.14 0.90 1.42 0.94 1.34	4.84 7	7.16 5.88	0.86 1.37 0.91 1.30	4.68	6.91
210022 SUBURBAN 210063 UM ST. JOSEPH	738.676 509,258	1.389	86.3%	85%-95% 85%-95%	1.024	1.020	1.016	1.024	1.021	1.024	\$53.99 \$73.46	\$82.61 \$98.38	\$236.88 \$204.71	\$373.48 \$376.54	\$65.05 \$75.59	\$99.54 \$101.23	\$285.40 \$210.64	\$449.99 \$387.45	\$63.52 \$72.43	\$97.44 \$98.13	\$278.77 \$202.84	\$439.74 \$373.40	0.58	1.15	5.34	7.08	0.70 1.39 0.90 1.45	6.43 8	3.53 7.40	0.69 1.36 0.87 1.41		8.38
210038 UMMC MIDTOWN 210032 UNION HOSPITAL OF CECIL	47,404 192,592	1.974 1.696	88.2%	85%-95% 85%-95%	1.062 1.034	1.044 1.030	1.039 1.024	1.084 1.040	1.042 1.029	1.047	\$105.60 \$100.61	\$133.97 \$130.73	\$192.89 \$165.26	\$432.45 \$396.60	\$89.52 \$99.28	\$113.57 \$129.01	\$163.52 \$163.08	\$366.60 \$391.37	\$82.57 \$95.50	\$109.01 \$125.31	\$156.20 \$157.50	\$347.79 \$378.31	1.27 0.96	1.57 1.53	4.61 4.06	7.45 6.54	1.08 1.33 0.95 1.51	4.01 6	3.31 3.46	1.01 1.28 0.91 1.46		6.29
210024 UNION MEMORIAL 210002 UNIVERSITY OF MARYLAND	199,074 100,964	1.849	90.8%	85%-95% 85%-95%	1.048	1.040	1.034	1.061	1.038	1.046	\$81.53 \$92.04	\$121.05 \$129.35	\$214.97 \$183.64	\$417.55 \$405.03	\$73.81 \$82.61	\$109.58 \$116.11	\$194.61 \$164.84	\$378.00 \$363.56	\$69.54 \$77.48	\$105.56 \$111.76	\$185.99 \$157.53	\$361.09 \$346.77	0.97	1.51 1.54	5.18 4.42	7.66	0.88 1.37 1.07 1.38	3.97 6	3.93 3.41	0.84 1.32 1.02 1.32	3.83	6.17
210049 UPPER CHESAPEAKE HEALTH 210016 WASHINGTON ADVENTIST 210027 WESTERN MARYLAND	707,209 474,525 176,075	1.573 1.645 2.071	89.5%	85%-95% 85%-95% 85%-95%	1.037 1.040 1.062	1.033 1.037 1.044	1.027 1.030 1.039	1.044 1.050 1.085	1.032 1.035 1.042	1.039 1.043 1.047	\$69.94 \$77.31 \$101.37	\$90.84 \$84.69 \$146.53	\$200.00 \$208.53 \$175.16	\$360.78 \$370.54 \$423.06	\$74.39 \$78.67 \$81.93	\$96.63 \$86.18 \$118.43	\$212.74 \$212.19 \$141.57	\$383.76 \$377.03 \$341.92	\$71.25 \$74.95 \$75.54	\$93.64 \$83.29 \$113.67	\$204.77 \$203.42 \$135.23	\$369.66 \$361.65 \$324.44	0.83 0.84 1.11	1.31 1.10 1.85	4.84 4.96 4.39	6.98 6.90 7.35	0.89 1.40 0.85 1.12 0.90 1.50	5.05 7	7.43 7.02 5.94	0.85 1.35 0.82 1.08 0.84 1.43	4.90	6.80

Appendix C - Exhibit 3a CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits CHSD Claims Incurred 1/2021 through 12/2021 (Adjusted to Estimated Ultimate Incurred) Summary of Experience by Maryland Region Commercial and Individual LOBs, Limited to Members Under Age 65 (Excludes Prescription Drugs)

(1) Risk Score is calculated based on Medical eligibility with valid risk scores, i.e. the risk score shown equals total risk score over total Medical.
 (2) Maryland regional benchmark totals are based on an average of the benchmark MSA results. The total across all MSAs is a member-weighted average across all MSAs used in the regional benchmarks.
 (3) Normalized to 2021 APCD data for all Maryland counties which has a risk score of 173522.
 (4) Teaching hospital amounts are removed from Inpatient allowed and paid amounts (except SWF, newborn, and residential treatments) based on the FY2017 per diem rates (trended to FY2021 with an annual rate 2.25%) at the provider level from file we received from Maryland HSCR to 71/21/2019 named "Hospital file".

		Member Mor	nths and Risk	Total Allowed						Allowed PMPM						R	Us PMPM		Allowed Per RVU				
MSA	MSA Name (2)	Medical MMs	2017 HHS Model Platinum Risk Score (1)	Inpatient	Teaching Hospital Adjustment	Inpatient w/ Teaching Adjustment (4)	Outpatient	Prof / Other	Total	Inpatient (4)	Outpatient I	Prof / Other		Total - Risk Adjusted (3)	Inpatient	Outpatient P	rof / Other		Total - Risk Adjusted (3)	Inpatient	Outpatient F	Prof / Other	Total
All	All MSAs in this Exhibit	122,794,612	1.499							\$110.51	\$148.66	\$190.58	\$449.75	\$502.01	0.98	1.48	3.81	6.26	6.99	\$113.13	\$100.51	\$50.08	\$71.83
MD1 MD2 MD3 MD4 MD5	MD1 (Southern MD) MD2 (Western MD) MD3 (Eastern Shore) MD4 (Northern DC Suburbs) MD5 (Baltimore Area)	60,340,175 7,107,997 7,722,622 52,025,580 82,135,977	1.465 1.544 1.562 1.395 1.491							\$108.22 \$115.24 \$114.95 \$110.15 \$105.19	\$145.74 \$157.63 \$163.94 \$147.94 \$150.23	\$194.75 \$158.75 \$166.10 \$197.30 \$195.36	\$448.71 \$431.62 \$445.00 \$455.39 \$450.79	\$512.61 \$467.94 \$476.89 \$546.26 \$505.87	0.94 1.10 1.11 0.86 0.99	1.49 1.66 1.67 1.38 1.55	3.78 3.46 3.59 3.64 3.83	6.20 6.22 6.37 5.88 6.37	7.09 6.74 6.83 7.05 7.14	\$115.61 \$105.11 \$103.47 \$127.95 \$106.33	\$97.85 \$94.92 \$97.92 \$107.11 \$97.08	\$51.53 \$45.87 \$46.33 \$54.22 \$51.03	\$72.32 \$69.41 \$69.85 \$77.43 \$70.82

# Appendix C - Exhibit 3b CY 2021 Milliman Benchmark and Maryland All-Payer Claims Database Cost and Utilization Exhibits CHSD Claims Incurred 1/2021 Wrough 1/2022 (Aquisted to Estimated Utilmate incurred) Pan Benefit Normalization Factors by Maryland Region Commercial and Individual LOSs, Linited to Kembers Under gales SEcucidaes Prescription Drugs)

Moderal decays benchmark (bills are based on an average of the benchmark MSA results. The total across all MSAs is a member-weighted average across all MSAs used in the resional benchmarks.
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		2017 HHS Model	RVU Plan Benefit Normalization Factors (2)			Allowed Plan Benefit Normalization Factors (2)			Allowed PMPM				Risk Adjusted Allowed PMPM (3)				Risk Adiusted and Benefit Adiusted Allowed PMPM (4)					RVU PN	ИРМ		Ri	sk Adi RVU	PMPM (3)		Risk Adiusted and Benefit Adiusted RVU PMPM (4)			
		Platinum Risk			Prof /			Prof /	Inpatient		Prof /		Inpatient		Prof /		Inpatient		Prof /				Prof /				Prof /				Prof /	
MSA	MSA Name (1)	Score	Inpatient	Outpatient	Other	Inpatient	Outpatient	Other	(5)	Outpatient	Other	Total	(5)	Outpatient	Other	Total	(5)	Outpatient	Other	Total	Inpatient C	lutpatient	Other	Total	Inpatient C	lutpatient	Other	Total	Inpatient O	utpatient	Other	Total
All	All MSAs in this Exhibit	1.499	0.964	0.987	0.993	0.951	0.985	0.983	\$110.51	\$148.66	\$190.58	\$449.75	\$123.35	\$165.94	\$212.72	\$502.01	\$129.68	\$168.43	\$216.39	\$514.50	0.98	1.48	3.81	6.26	1.09	1.65	4.25	6.99	1.13	1.67	4.28	7.08
MD1 MD2 MD3 MD4 MD5	MD2 (Western MD)	1.465 1.544 1.562 1.395 1.491	0.976 0.982 0.991 0.986 1.001	1.002 1.001 1.008 1.012 1.010	0.999 0.997 1.001 1.014 1.008	0.964 0.967 0.975 0.973 0.993	0.997 1.001 1.007 0.995 1.007	0.997 0.996 1.000 1.011 1.006	\$108.22 115.24 114.95 110.15 105.19	\$145.74 157.63 163.94 147.94 150.23	\$194.75 158.75 166.10 197.30 195.36	\$448.71 431.62 445.00 455.39 450.79	\$123.63 124.93 123.19 132.13 118.04	\$166.49 170.90 175.69 177.46 168.59	\$222.49 172.11 178.01 236.67 219.23	\$512.61 467.94 476.89 546.26 505.87	\$128.20 129.19 126.33 135.77 118.83	\$166.95 170.80 174.44 178.27 167.44	\$223.18 172.87 178.05 234.17 218.01	\$518.33 472.87 478.82 548.21 504.27	0.94 1.10 1.11 0.86 0.99	1.49 1.66 1.67 1.38 1.55	3.78 3.46 3.59 3.64 3.83	6.20 6.22 6.37 5.88 6.37	1.07 1.19 1.19 1.03 1.11	1.70 1.80 1.79 1.66 1.74	4.32 3.75 3.84 4.37 4.30	7.09 6.74 6.83 7.05 7.14	1.10 1.21 1.20 1.05 1.11	1.70 1.80 1.78 1.64 1.72	4.32 3.76 3.84 4.31 4.26	7.12 6.77 6.82 6.99 7.09