

Workers' Compensation Provider Reimbursement Recommendations All Service Types

Prepared for: Nevada Division of Industrial Relations

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1. INTRODUCTION

The Nevada Division of Industrial Relations (DIR) requires assistance evaluating and revising its current Medical Fee Schedule (MFS). Based on the Request for Proposal (RFP) 3088, Milliman has analyzed prevailing reimbursement for Medicare, commercial, and Workers' Compensation (Workers' Comp). This report provides Milliman's recommendations for updating the MFS. Milliman's analysis is based in part on data provided by the National Council on Compensation Insurance (NCCI), The data provided by NCCI included a summary of Nevada Workers' Comp statewide utilization and payments by procedure, which, where possible, has been used to weight results and to reflect the Nevada-specific Workers' Comp mix of services. In 2002, Milliman performed a similar analysis is being updated, not only to include recent reimbursement information, but also to consider updated methodologies and additional services. As requested in the RFP, the analysis includes the following services:

- > Physician
- Hospital and Other Inpatient Services
- Dental Services
- Ambulatory Surgery Centers
- Miscellaneous Services
 - o Emergency
 - o Ambulance
 - o Pharmacy
 - o Alcohol/Drug Testing
 - Drug Detoxification
 - o Home Health
 - o Durable Medical Equipment (DME) including Prosthetics/Orthotics
 - o Permanent Partial Disability Evaluations
 - Independent Medical Exams

- Functional Capacity Evaluations
- o Work Hardening Programs
- o Back School

Market Considerations

The competing interests of stakeholders in the Workers' Comp system complicate the creation of an appropriate fee schedule. Among the issues are:

- 1) Providers seek a premium to treat Workers' Comp patients because of the regulatory framework and the perception of additional reporting requirements and scrutiny.
- 2) Employees want to ensure that they have access to the providers that they need to receive the treatment that their condition requires.
- 3) Employers seek to restrain provider payment levels, since the cost of Workers' Comp claims is a business expense.

Regulators seek to balance these competing interests, and have other issues to address as well. A healthy Workers' Comp system provides appropriate care to injured workers, and encourages business growth, and hence job growth.

Commercial fee schedule analysis provides a good starting point for the development of a Workers' Comp fee schedule. Such analysis, however, must recognize the difference in the delivery system and in the treated population. For example, care provided to Workers' Comp patients tends to be less organized than care delivered by commercial or Medicare Advantage delivery systems, in part because of the nature of the conditions treated. Health payers have developed provider networks, incorporating provider incentive payment systems and provider evaluation processes. Workers' Comp payers traditionally have lagged behind their commercial counterparts, in part because of the different regulatory environment.

The differences between the delivery systems notwithstanding, the methodology used to develop commercial fee schedules serves as a good starting point for delivery of fee schedules for Workers' Comp programs.

Maximum Allowable vs. Paid Amounts

Workers' Comp claims are administered through Nevada payers. Frequently, payers will reimburse providers under existing contracts with those providers and the payment may be lower than the MFS. This is consistent with the use of the MFS as a maximum allowable payment basis where all payments under that schedule are less than or equal to the state schedule. Note that this can be seen in the nationwide Workers' Comp benchmarking data set where the reported paid amounts are occasionally lower than allowed (as discussed in Section 2 of this report), which should not be the case since member cost sharing is not permitted on Workers' Comp claims, but rather because allowed likely represents the MFS maximum and paid likely represents additional reductions due to local payer contracts. For this reason, the paid amount from the nationwide Workers' Comp data is used as the proxy for actual allowed in this analysis. For the commercial and Medicare benchmark data, the allowed amounts are used as is, since the difference between allowed and paid in these data sets generally represents member cost sharing, rather than provider contractual adjustments.

In evaluating market reimbursement, the MFS was compared to the market reimbursement information. The recommendations were based heavily on our analysis of commercial reimbursement levels, recognizing that the final payment to Workers Comp providers under payer contracts, may not equal the commercial level.

Deliverables

Through the course of this analysis, several analyses have been provided to the DIR representing the different deliverables specified under the RFP. The first was a physician benchmarking analysis provided on September 4, 2014. The second, provided on October 24th, contained benchmarking and recommendations for all types of service indicated above with the exception of Physician and a subset of the Miscellaneous Services categories. The last analysis, sent on December 9th, contained benchmarking and recommendations for Physician and the remaining Miscellaneous Services categories. This current analysis represents the final recommendations for all types of service specified in the RFP.

Impact of Recommendations

We note that our recommendations result in significant changes to the maximum reimbursement for many categories of care. This is attributable, in part, to the migration to Resource-Based Relative Value Scale (RBRVS) units from the current Relative Values for Physicians units, but primarily to the significant time lapse since the most recent update. The DIR should consider whether a change of this magnitude would create dislocations in the State's Workers' Compensation delivery system and employer community. If so, the DIR could phase in the recommended changes over sufficient time to reduce disruption.

It is our understanding that the DIR has taken steps since the last full update to the MFS to maintain the timeliness of the schedule. We recommend that the State fully reevaluate and update its fee schedule more frequently to prevent such dislocations.

2. Physician Benchmarking and Recommendations Including Substance Abuse

Reimbursement for physician services was analyzed at the CPT/HCPCS procedure code level and by the current MFS categories, with the addition of a category for Substance Abuse. The analysis followed the same approach for all categories:

- > Anesthesia
- > Surgery
- Radiology
- Pathology & Lab
- Evaluation and Management
- ➢ Medicine
- Substance Abuse

Physician reimbursement is typically based on the use of relative value units (RVUs), which represent expected payment differences between procedures based on the complexity and type of service performed. A conversion factor is multiplied by the RVUs for a particular service to determine the ultimate dollar reimbursement. Under this structure, the two components needed to determine a physician fee schedule are: (1) selecting an appropriate catalogue of RVUs and (2) setting the conversion factor used to scale those RVUs to ultimate reimbursement levels. We provide recommendations for both of these items in this section. In addition to physician services, we recommend using the same RVU schedules and conversion factor methodology for Substance Abuse services.

Current MFS reimbursement is based on proprietary Relative Values for Physicians (RVP) RVUs, which are maintained and published by Optum. For this analysis we evaluated the data under both RVP and the CMS RBRVS RVUs, which are used to determine Medicare reimbursement. For Anesthesia, both the MFS and RBRVS use RVUs from the American Society of Anesthesiologists.

Utilizing the physician payment data provided by NCCI, amounts paid under the MFS were compared to the MFS on a composite RVP conversion factor basis. Each composite value represents the average conversion factor that would have to be applied to the RBRVS units for all the procedures in that service category to match the aggregate allowed amount across all services in that service category. Note that this reproduces the allowed amount only in total, and the results for any procedure could vary. Table 2.1 provides this comparison:

Table 2.1Physician Allowed RVP Conversion Factor ComparisonMFS Schedule Versus Actual Paid Amounts

	Schedule/Data Set		
Service		NCCI Actual	Reduction
Category	MFS	Paid	from MFS
Anesthesia	\$74.40	\$39.33	47%
Surgery	\$213.20	\$65.22	69%
Radiology	\$38.62	\$11.74	70%
Pathology & Lab	\$22.91	\$8.40	63%
Evaluation & Management	\$10.01	\$4.26	57%
Medicine	\$10.01	\$4.28	57%

As can be seen from Table 2.1, the amounts paid under the MFS are considerably less than the MFS levels, with actual paid of less than half the MFS for every service category (other than Anesthesia). This is consistent with the use of the MFS as a maximum allowable schedule, as described in the Introduction, as well as payers utilizing their own provider contracts for these services. Since the benchmark data sets represent actual allowed amounts and not maximum allowables, the amount paid under the MFS is compared to the benchmarks for this analysis. Note that the MFS General Medicine category has been split into Evaluation and Management and Medicine for the comparisons in this section.

Table 2.2 shows a comparison of the MFS RVP conversion factors to the Medicare fee schedule and the Nevada commercial and nationwide Workers' Comp benchmark datasets.

	Schedule/Data Set			
Service	Service NCCI		Nevada	Nationwide
Category	Actual Paid	Medicare	Commercial	Workers' Comp
Anesthesia	\$39.33	\$23.09	\$52.48	\$52.48
Surgery	\$65.22	\$54.17	\$85.93	\$90.22
Radiology	\$11.74	\$8.30	\$10.88	\$12.40
Pathology & Lab	\$8.40	\$6.38	\$7.59	\$7.97
Evaluation & Management	\$4.26	\$7.61	\$8.22	\$8.66
Medicine	\$4.28	\$5.78	\$8.86	\$8.17

Table 2.2Physician Allowed RVP Conversion Factor Comparison2012 Data Trended to 2014

Table 2.2 shows how the Nevada Workers' Comp payments relate to the benchmark datasets and to Medicare. As can be seen from these results:

- NCCI actual paid is significantly lower than Nevada commercial and nationwide Workers' Comp reimbursement for all service categories, with the exception of Radiology and Pathology & Lab.
- ➢ For the other categories NCCI actual paid varies between roughly one half of Nevada commercial for Evaluation & Management and Medicine to three quarters of Nevada commercial for Anesthesia and Surgery.
- > Nationwide Workers' Comp is fairly close to Nevada commercial for all service categories.

It is important to note that RVP-based conversion factors cannot be compared between service categories since the underlying RVUs are not on the same basis. For example, the large Surgery conversion factor does not necessarily indicate that Surgery is paid more than the other services since the RVUs are scaled differently. Unlike the RVP RVUs, RBRVS RVUs do produce conversion factors that can be compared between service categories, because the RBRVS RVUs are set consistently across all service categories, with the exception of Anesthesia.

Table 2.3 shows the same comparison as Table 2.2 on an RBRVS RVU basis.

	Schedule/Data Set			
Service	NCCI		Nevada	Nationwide
Category	Actual Paid	Medicare	Commercial	Workers' Comp
Anesthesia*	\$39.33	\$23.09	\$52.48	\$52.48
Surgery	\$45.52	\$35.82	\$64.19	\$62.21
Radiology	\$58.25	\$35.82	\$50.07	\$52.12
Pathology & Lab	\$26.40	\$35.82	\$48.08	\$40.42
Evaluation & Management	\$21.72	\$35.82	\$38.92	\$33.45
Medicine	\$28.30	\$35.82	\$81.16	\$33.83

Table 2.3Physician Allowed RBRVS Conversion Factor Comparison2012 Data Trended to 2014

* Anesthesia CFs are the same between Tables 2.2 and 2.3 since RBRVS and the MFS use RVUs from the American Society of Anesthesiologists.

A comparison of Tables 2.2 and 2.3 shows that the relative relationships between benchmarking sources are generally similar within each service category row between the two tables, with the exception of the Pathology & Lab service category. In Table 2.3, the composite conversion factor for NCCI actual paid (i.e., Workers' Comp allowed) is lower than the corresponding composite factor conversion factor for Nevada commercial for our analysis using the RBRVS-based conversion factors (with the exception of Radiology). In Table 2.2, using the RVP-based conversion factors, the corresponding Workers' Comp factor is higher than for commercial. This is driven by differences in the underlying RVU systems and the fact that the conversion factors provided are averages for each category. We note that pathology services comprise a relatively small portion of the total. As mentioned above, comparisons between categories cannot be performed with RVP-based conversion factors.

Table 2.4 shows NCCI actual paid and Nevada commercial as a percentage of Medicare reimbursement.

	Nevada		
Service	Workers' Comp	NCCI	Nevada
Category	Distribution*	Actual Paid	Commercial
Anesthesia	1%	170%	227%
Surgery	5%	127%	179%
Radiology	8%	163%	140%
Pathology & Lab	8%	74%	134%
Evaluation & Management	23%	61%	109%
Medicine	55%	79%	226%

Table 2.4Physician Allowed RBRVS Conversion Factor Comparison
Relative to 2014 Medicare Reimbursement

* Distribution sums to 100%.

Maximum Allowable Reimbursement

The conversion factors considered in this section are based on market averages. For professional services, the DIR is interested in setting maximum allowable reimbursement that would act as an upper limit on reimbursement. All amounts over the maximum allowable would be dropped down to the maximum allowable level, but all amounts below the maximum allowable level would remain the same and not have to be adjusted. For example, if the maximum allowable level were set at the 75th percentile based on the distribution of allowed amounts. That means that fees for 75% of the physicians would remain as is while the top 25% of physicians would be adjusted down to the 75th percentile level.

By limiting the highest physicians to the maximum allowable, the average payment is lower than if there was no maximum allowable. Table 2.5 provides an example of the impact of a maximum allowable schedule on the average payment.

	Current	Maximum	Adjusted
Doctor	Payment	Allowable	by Maximum
1	\$130.00	\$82.00	\$82.00
2	\$95.00	\$82.00	\$82.00
3	\$87.00	\$82.00	\$82.00
4	\$82.00	\$82.00	\$82.00
5	\$73.00	\$82.00	\$73.00
6	\$65.00	\$82.00	\$65.00
7	\$62.00	\$82.00	\$62.00
8	\$55.00	\$82.00	\$55.00
9	\$45.00	\$82.00	\$45.00
10	\$40.00	\$82.00	\$40.00
	Average Payout	\$73.40	
	Average Payou	\$66.80	
Decrease in Average Payout from			
Using the Maximum			9.0%

Table 2.5Sample Maximum Allowable Adjustment
and Impact on Average Payout

The current payment column represents a sample distribution of payments for ten doctors. A maximum allowable level of \$82.00 is applied such that payments over that level are paid at the maximum. All payments below that level remain unchanged. The average payout is calculated before and after the maximum is applied and the reduction determined. Table 2.5 shows that the use of this maximum causes a reduction of 9.0% to the average payout in this example. These values are illustrative only,

To estimate the appropriate maximum allowable levels, the distribution of commercial allowed charges was looked at for a set of high-volume procedure codes. The impact on total payout was estimated for using different percentile levels as the maximum. A final adjustment is recommended below to develop the maximum allowable schedule.

Recommendations

We recommend setting professional conversion factors at 120% of the Nevada commercial market reimbursement to produce a maximum allowable schedule. This adjustment is in the range of the 70th to 75th percentile from the Nevada commercial data distribution. We estimate that these maximum allowable levels would produce a reduction of around 8% in the average payment according to the commercial data distribution. Actual reduction for Workers' Comp claims will most likely be less than 8% because the historical Workers' Comp paid reimbursement in our NCCI data has been lower than commercial reimbursement and would be less impacted by the maximum allowable.

Table 2.6 shows the recommendations under RVP and RBRVS RVU bases after adjusting to maximum allowable levels. This recommendation represents a significant decrease from the current MFS maximum allowable schedule, but an increase from the amounts actually paid under the MFS. Given that payers can be expected to utilize their own provider contracts for Workers' Comp claims, it is likely the payout under a schedule using commercial reimbursement levels will continue to be much lower than those commercial levels.

Table 2.6				
Recommended Maximum Allowable Conversion Factors				
Under RVP and RBRVS				

Service	Recomme	ended CFs
Category	RVP	RBRVS
Anesthesia	\$52.44	\$62.98
Surgery	\$103.11	\$77.03
Radiology	\$13.05	\$60.08
Pathology & Lab	\$9.10	\$57.69
Evaluation & Management	\$9.86	\$46.70
Medicine	\$10.63	\$97.37
Substance Abuse	\$10.63	\$97.37
(set equal to Medicine)		

Additionally, we recommend transitioning to an RBRVS RVU basis. RBRVS has several advantages over RVP, including provider and carrier familiarity because of its prevalence in Medicare payment system. Since RBRVS is maintained by CMS, annual updates will be available for the DIR to use and keep the schedule current.

For Substance Abuse services we recommend using the same methodology used for physician services. RVUs should be assigned based on the procedure code and modifier and the appropriate conversion factor from Table 2.6 should be used to determine reimbursement levels. Substance Abuse and Mental Health services are often considered together and can be reimbursed under the same methodology.

3. RELATIVE VALUE UNITS

Prior to this project, Milliman developed a product called GlobalRVUs[™] that has been used for the benchmarking and recommendations for several service types analyzed for the DIR. The GlobalRVUs are a relative value unit (RVU) system that covers the entire range of medical and prescription drug services, including hospital and physician. These RVUs are on a similar relative basis to RBRVS units so that RVUs for the different service types are comparable to each other. For example, the RVUs assigned to an inpatient admission versus a physician office visit represent the expected cost differences between those services. This is an attribute consistent with Medicare's RBRVS that has all physician service types on the same relative basis, but the GlobalRVUs expand the concept to apply to all healthcare services (which excludes Dental). This differs from RVP whose RVUs are on a different basis between major physician service types.

GlobalRVUs have also been defined relative to Medicare's RBRVS. In fact, the physician portion of GlobalRVUs is based on RBRVS and uses its RVUs directly so the RVUs developed for other types of services are therefore consistent with RBRVS. The following link describes the GlobalRVUs in more detail:

http://us.milliman.com/uploadedFiles/Solutions/Products/2011-globalrvus-whitepaper.pdf

Exhibit 1 provides GlobalRVUs for physician services excluding Anesthesia which is assumed to remain on the same basis as the MFS that uses RVUs from the American Society of Anesthesiologists (ASA). RBRVS also uses ASA RVUs. Note that other factors are reflected in reimbursement for anesthesia, including time and patient status. The MFS reimburses physician on an RVU basis and we are recommending the DIR move from RVP RVUs to RBRVS, which are consistent with GlobalRVUs, and which are more universally adopted.

4. HOSPITAL AND OTHER INPATIENT SERVICES

Reimbursement for hospital and other inpatient services was analyzed at the detailed DRG level and by the following categories specified in the combination of the current MFS and the RFP:

- Medical-Surgical Categories
 - <u>Short-Term Acute Care</u> Short-term acute care facilities were identified in the Medicare benchmark data using the facility's Medicare ID. Since the data does not identify individual hospitals, acute care facilities were identified as those with an average length of stay of less than 25 days.
 - <u>Long-Term Acute Care</u> Long-term acute care facilities were identified in the Medicare benchmark data using the facility's Medicare ID. The commercial and Workers' Comp data does not identify individual hospitals, so long-term acute care facilities were identified as those with an average length of stay of at least 25 days.
 - o <u>Observation Care</u> Observation is identified by revenue code 0762.
 - <u>Step-Down Units</u> Step-down units include both intensive care and cardiac step down units. These were identified by revenue codes 0206 and 0214.
 - <u>Medical-Surgical Cardiac Care</u> Cardiac care unit stays were identified by revenue codes 0210 to 0213, and 0219.
 - <u>Medical-Surgical Intensive Care</u> Intensive care unit stays were identified by revenue codes 0174, 0175, 0200 to 0204 and 0207 to 0209.
- ▶ <u>Burn Care</u> Burn care admits were identified by DRGs 927 to 929 and 933 to 935.
- Psychiatric Care Substance Abuse and Mental Health admits were identified by DRGs 880 to 887 and 894 to 897.
- ▶ <u>Rehabilitation Care</u> Rehabilitation admits were identified by DRGs 945 and 946.
- Skilled Nursing Facility Care Skilled Nursing Facility admits were identified by provider type.

Average per diems for these categories were calculated from each of the benchmark data sets. The service mix from each of the three benchmark utilization distributions (i.e., Nevada Medicare, Nevada commercial and nationwide Workers' Comp) was used to weight the benchmark and MFS per diems together for comparison to Medicare. We performed this comparison using different service mixes because the populations in the benchmark data sets differ notably from each other. By repeating the comparison for each service mix we could better assess the stability of the results.

To test the impact of using the full set of DRGs for these services versus those typically used just with Workers' Comp, we also limited all of the datasets to a set of DRGs common within workers' comp (based on the DRGs included in Washington state's workers' comp MFS). We found that the results were similar using these reduced datasets, therefore, the full set of DRGs was used in order to increase the credibility of the results. Once total per diems were calculated under all the service mixes, they were compared to Medicare. Table 4.1 shows the results of the comparisons:

Table 4.1Nevada Workers' Comp and BenchmarkPer Diem ReimbursementEstimated Percent of Nevada Medicare

		Benchmark Dataset	
		Nevada	Nationwide
Service Mix	MFS	Commercial	Workers' Comp
Nevada Commercial	141%	260%	311%
Nevada Medicare	131%	245%	278%
NW Workers' Comp	142%	240%	277%
Range of Estimated			
% of Medicare	131% to 142%	240% to 260%	277% to 311%

As can be seen, although the percent of Medicare varies somewhat based on the service mix used, it is in a reasonably consistent range. For example, the MFS percent of Medicare varies from 131% using Nevada Medicare utilization to 142% using Nationwide Workers' Comp utilization, with the commercial range falling below Nationwide Workers' Comp. Medicare reimbursement is also in a reasonably consistent range, with the percent of Medicare varying from 240% to 260%.

Table 4.1 also shows that:

The existing Nevada Workers' Comp MFS is consistently lower than both Nevada commercial, and nationwide Workers' Comp levels, and is consistently higher than Nevada Medicare reimbursement. Relative reimbursement between the benchmark data sets and MFS is fairly consistent regardless of the service mix used for the calculation. The rank order of the relative reimbursement is unchanged moving across the three bases.

Table 4.2 shows the average per diems for the detailed service categories:

	Average Allowed Per Diem ⁽¹⁾		
	Nevada	Nevada	Nationwide
Category	Medicare	Commercial	Workers' Comp
Medical-Surgical			
Short-Term Acute Care	\$3,025	\$4,661	\$5,274
Long-Term Acute Care	\$1,727	N/A	N/A
Observation	\$3,978	\$5,059	N/A
Step-Down Units	\$2,715	\$6,463	N/A
Cardiac Care Unit	\$3,580	N/A	N/A
Intensive Care Unit	\$3,442	\$7,031	N/A
Burn Care	\$1,735	N/A	N/A
Psychiatric Care	\$972	\$1,150	N/A
Rehabilitation Care	\$1,804	\$1,144	N/A
Skilled Nursing Facility	\$565	\$950	N/A

Table 4.2Average Per Diem Rate by Inpatient Category2012 Data Trended to 2014

1) Nevada Commercial data was not credible for Long-Term Acute Care, Cardiac Care Unit and Burn Care. Nationwide Workers' Comp data was only credible for Short-Term Acute Care..

As Table 4.2 shows:

- Per diem reimbursement for long-term acute care is about 57% of short term, with observation care at higher levels.
- Relative reimbursement for step down units varies significantly between the Medicare and commercial datasets. For Medicare, step down unit reimbursement is roughly 90% of short term acute care, but for commercial step down unit reimbursement is nearly 140% of short term, which is considered a more reasonable relationship given the increased severity of services expected in a Step-Down Unit.
- Medicare per diems are consistently and significantly lower than commercial levels for all categories except for rehabilitation.

Short term acute per diem reimbursement for the nationwide Workers' Comp population is 13% higher than the Nevada commercial levels, and nearly 175% of Nevada Medicare.

However, as mentioned above it is important to consider the difference in service mix between these populations when comparing per diem reimbursement levels.

Recommendations

We recommend a total reimbursement level of 250% of Medicare; the midpoint of the commercial reimbursement range in Table 4.1 (240% to 260%). This represents a total increase of 77% (250% / 141% - 1) over the current MFS inpatient schedule evaluated with the Nevada commercial service mix (141% in Table 4.1). Table 2.3 shows the recommended allowed per diems by category. These are the commercial per diems shown in Table 4.2 adjusted slightly to return the total 250% of Medicare target. The commercial benchmark data was not credible for Long-Term Acute Care, Cardiac Care Unit, and Burn Care. For these three categories the recommended allowed per diem is 250% of the Nevada Medicare levels.

	Allowed
Category	Per Diems
Medical-Surgical	
Short-Term Acute Care	\$4,695
Long-Term Acute Care	\$4,317
Observation	\$5,096
Step-Down Units	\$6,510
Cardiac Care Unit	\$8,950
Intensive Care Unit	\$7,083
Burn Care	\$4,337
Psychiatric Care	\$1,158
Rehabilitation Care	\$1,153
Skilled Nursing Facility	\$957

Table 4.3Recommended Allowed Per Diems

Alternate DRG Methodology

We also recommend that the State consider an alternate reimbursement methodology, such as reimbursement at a multiple of Medicare levels, or at least DRG-level payments. MFS' current structure has two primary drawbacks:

- 1) Broad payment categories, and
- 2) Per diem reimbursement.

For item 1), the use of DRG payments means the payment will be more specific to the type of service performed. The use of broad payment categories can produce under or over payments for hospitals depending on their case mix. Aligning the payment with the type of service performed will remove some of this case mix bias.

For item 2), per diem reimbursement rewards the provider for longer lengths of stay. The use of case rate payments on a DRG basis provides a single payment for the entire stay and does not incentivize the provider to keep the patient longer than necessary.

We understand there are concerns with moving to a Medicare-based reimbursement system due to the administrative difficulties inherent with Medicare. Many payers avoid those complexities by using a simplified version of Medicare, focusing primarily on the use of a base rate applied to CMS' DRG weights – an approach very similar to the use of conversion factors with RVUs that the MFS applies for physician services. The 250% of Medicare target recommendation could be applied directly to these simpler DRG-based payments. This DRG basis will be very familiar to the majority of payers due to their familiarity with Medicare which can help ease the transition to the new payment methodology.

Table 4.4 provides a sample calculation for DRG and per diem-based payments. It uses the Short-Term Acute recommended per diem of \$4,695 from Table 4.3. For the DRG payment, an assumed DRG base rate of \$12,000 is used for illustrative purposes along with the FY2015 Medicare weight for the sample DRG:

Table 4.4Per Diem and DRG-Based Payment ExampleDRG 906 – Hand Procedures for InjuriesAssumed 3 Day Length of Stay (LOS)

 $\frac{\text{Per Diem Payment}}{\text{Per Diem x LOS} = $4,695 \text{ x } 3 = $14,085}$

<u>DRG-Based Payment</u> Base Rate x Weight for DRG 906 = \$12,000 x 1.1789 = \$14,147

This examples shows similar payments under both methods for illustrative purposes, but payments for other DRGs could vary notably from the MFS per diem approach. This is due to DRG payments being specific to the type of admission rather than a broad category of service. DRG reimbursement more appropriately reflects the service performed by the hospital.

This example represents the simplest form of the DRG-based payment calculation, where all that is needed are the DRG weights (published each year by CMS) and a base rate. Medicare has additional adjustments for factors such as geography, low volume, Value-Based Purchasing, and others. Frequently, provider contracts do not incorporate these additional adjustments in order to keep the payment process simple. The DIR may choose to do the same, or incorporate some of Medicare's additional adjustments in order to refine the payment to represent those additional parameters.

5. DENTAL SERVICES

The Dental benchmarking and recommendations focused primarily on commercial reimbursement levels. Dental claims information was not available from the benchmark databases and the MFS does not specify dental payment levels. Instead, target reimbursement was developed using a combination of two data sources:

- ➤ Milliman Health Cost Guidelines[™] (HCGs), Dental Volume Milliman's HCGs incorporate over 50 years of research and consulting practice into an industry gold standard used by insurers, managed care organizations, and third-party administrators to estimate expected claim costs and model health care utilization. More than 100 insurers rely on our proprietary methodologies and comprehensive data, compiled from published and unpublished, private and public data sources, to adjust national average healthcare costs for specific geographic areas, benefits, reimbursement structures, and plan characteristics.
- Milliman Dental Discount Model The discount model provides discounts by American Dental Association (ADA) procedure code and class. The model was developed using calendar year 2011 data from a combination of Milliman client data and Fairhealth data.

Statewide Nevada billed charges by ADA code were determined from the Dental HCGs and the statewide commercial discounts applied. This produced a schedule of estimated commercial reimbursement which is provided in Exhibit 2. We recommend the DIR use this schedule for Dental services in the MFS.

6. AMBULATORY SURGERY CENTERS

Reimbursement for Ambulatory Surgical Centers (ASCs) was analyzed using the current structure in the MFS which pays using the nine ASC service groupings. Under this system, surgical HCPCS codes map to these groupings and a payment is received for each mapped procedure performed during a surgery. If multiple surgical services are performed during a single surgery, payment reductions apply for the additional procedures.

This system was last used by Medicare in 2007 and then replaced by Medicare's current Outpatient Prospective Payment System (OPPS). Many institutions continue to use the ASC groupings for reimbursement, and have maintained the HCPCS to ASC group mappings, updating them for new surgical codes. One such institution is the State of Nevada Medicaid program, which was used as a reference point in the ASC benchmarking analysis. Table 6.1 shows a comparison of the payments by ASC for the MFS and the State of Nevada Medicaid fee schedule:

ASC	State of Nevada		MFS as %
Group	MFS ⁽¹⁾	Medicaid ⁽²⁾	of Medicaid
ASC 1	\$771.27	\$399.60	193%
ASC 2	\$988.78	\$535.20	185%
ASC 3	\$1,194.83	\$612.00	195%
ASC 4	\$1,478.14	\$756.00	196%
ASC 5	\$1,572.61	\$860.40	183%
ASC 6	\$1,854.49	\$991.20	187%
ASC 7	\$1,923.19	\$1,167.60	165%
ASC 8	\$1,923.19	\$1,194.00	161%
ASC 9	\$1,923.19	\$1,606.80	120%
Unknown ⁽³⁾	\$1,923.19	\$1,194.00	161%

Table 6.1 Comparison of MFS and Medicaid ASC Schedules

1) Workers' Comp pays the initial procedure at 100%, second at 50%, and subsequent ones at 25%.

2) Medicaid pays the initial procedure at 100%, second at 50%, third at 25%, fourth at 10%, and subsequent ones at 5%.

3) A payment for unknown (i.e., unmapped) surgical procedures was not available in the MFS. The state confirmed the use of the ASC 9 payment amount for this category.

With the exception of ASC 9, the Workers' Comp schedule is roughly 60% to 95% higher than Medicaid. The difference in final payments is even larger than this comparison suggests since Medicaid has greater payment reductions for multiple procedures than the MFS.

The benchmarking data does not contain ASC-level information, so ASC amounts were not available to compare directly to the MFS. Instead, each data set was repriced to the MFS and state Medicaid schedules. The total payout from that repricing was compared to the trended amounts in the data and an overall relativity was determined. This relativity indicates how payments in the benchmark databases compare to the ASC schedules. Table 6.2 provides a summary of these results:

Table 6.2MFS and Medicaid ASC SchedulesRelative to Benchmark Data Sets

	(a)	(b)	(c) = (a) / (b)
	State of	f Nevada	MFS
			Relative to
Benchmark Data Set	MFS	Medicaid	Medicaid
Nevada Medicare	158%	92%	172%
Nevada Commercial	62%	33%	189%

Table 6.2 shows how payments for the State and Medicaid schedules relate to the Medicare and commercial benchmark databases; for example, the MFS is approximately 62% of commercial reimbursement and 158% of Medicare. Dividing the MFS relativities by the Medicaid relativities for each data set provides an estimate of how the MFS pays relative to Medicaid. As can be seen, the Workers' Comp schedule ranges from 72% to 89% higher than Medicaid, depending on the data set used for the analysis. The different mix of services in the Medicare and commercial data sets drives the difference in the MFS-to-Medicaid relativities. The nationwide Workers' Comp data set did not have sufficiently credible ASC claims experience to use.

Table 6.3 restates the relativities in Table 6.2 on a percent of Medicare basis. This produced a range for the commercial data since it was estimated using the MFS and the Medicaid schedules.

Table 6.3MFS, Medicaid and Commercial Relative to Medicare

	Estimated % of
	Medicare
MFS	158%
Medicaid	92%
Nevada Commercial	253% to 279%

As can be seen, Medicaid reimbursement is below Medicare, which is fairly common for state Medicaid programs. Commercial ASC reimbursement is notably higher, in the range of 253% to 279%, with 253% representing the value estimated with the MFS.

Recommendations

We recommend a target reimbursement level of 250% of Medicare; approximately the commercial level estimated using the MFS. This represents a total increase of 58% (250% / 158% - 1) over the current MFS ASC schedule.

Additionally, we recommend the DIR base ASC reimbursement on the Medicaid ASC payment methodology to return the 250% of Medicare target. This is equivalent to 272% of the Medicaid schedule. Unlike the current MFS, the Medicaid ASC schedule differentiates payments for the higher-level ASCs and maintains a HCPCS mapping for the Unknown category (described in the Methodology section). The DIR can utilize these aspects in the updated ASC schedule. Table 6.4 contains a summary of the amounts under this recommendation:

Equivalent to 250% of Medicare Overall					
ASC	Recommended	% of Current	% of		
Group	ASC Schedule	MFS	Medicaid		
ASC 1	\$918.48	119%	230%		
ASC 2	\$1,230.16	124%	230%		
ASC 3	\$1,406.68	118%	230%		
ASC 4	\$1,737.67	118%	230%		
ASC 5	\$1,977.63	126%	230%		
ASC 6	\$2,278.28	123%	230%		
ASC 7	\$2,683.73	140%	230%		
ASC 8	\$2,744.41	143%	230%		
ASC 9	\$3,693.24	192%	230%		
Unknown	\$2,744.41	143%	230%		

Table 6.4Recommended ASC ReimbursementBased on Medicaid Payment Relativities by ASCEquivalent to 250% of Medicare Overall

Note that If DIR adopts this schedule, the Medicaid multiple procedure discount methodology would need to be implemented to achieve the estimated percent of Medicare indicated here.

7. PHARMACY

Reimbursement for pharmacy was analyzed at the National Drug Code (NDC) level and in total for brand drugs and generic drugs. The commercial and nationwide Workers' Comp benchmark datasets were compared to one another, to the NCCI pharmacy payment amounts and to the September 2014 Average Wholesale Price (AWP) schedule published by MediSpan. The Medicare benchmark database does not include pharmacy data and was excluded from the analysis.

Due to the different components of utilization for pharmaceuticals such as drug units, number of scripts and days supply, all allowed amounts analyzed in this study were converted to a units per package basis consistent with the MediSpan AWP schedule. Rebates are not part of the claims data or reimbursement terms analyzed, and therefore are not considered in this analysis. We are effectively assuming that the same rebates would be provided for workers' comp scripts as for other types.

MFS reimbursement for pharmacy is the lesser of 100% of AWP and Usual and Customary (U&C) charges plus a \$10.01 dispensing fee. Information was not available for U&C levels in Nevada so a comparison was done between 100% AWP and the average ingredient costs by NDC from the benchmark databases.

Table 7.1 shows a high level summary comparing average charge for commercial and nationwide Workers' Comp reimbursement to AWP, weighted with the state NCCI utilization by NDC code.

2012 data trended to 2014						
			Charge P	er Script	Avg Charge	
		State	Allowed	Average	Discount	
Dataset	Brand/Generic	Utilization	Average	AWP	From AWP	
Nevada	Brand	16,954	\$457.98	\$705.02	35%	
Commercial	Generic	75,782	\$94.23	\$496.97	81%	
Workers' Comp	Brand	15,242	\$440.87	\$684.54	36%	
Nationwide	Generic	72,163	\$78.42	\$428.90	82%	
NCCI Actual Paid	Brand	16,952	\$445.36	\$705.02	37%	
NUCI Actual Palu	Generic	75,781	\$282.69	\$496.97	43%	

Table 7.1Pharmacy Average Allowed Compared to AWPExcludes Dispensing Fees2012 data trended to 2014

As Table 7.1 shows, average charges for all three data sets are lower than AWP for both brand and generic drugs. Nevada commercial and nationwide Workers' Comp discounts from AWP are similar, with generic discounts of around 80% and brand around 35%. The NCCI Actual Paid has a similar brand discount, but generic is significantly different with average charges that are more than double the commercial and nationwide Workers' Comp schedule, producing a discount of 43% of AWP.

The difference between AWP and NCCI Actual Paid in Table 7.1 demonstrates that amounts lower than AWP are typical. Whether this difference is driven by lower payer contracts like physician reimbursement or by lower provider U&C amounts cannot be determined.. However this AWP maximum allowable may be driving the high payments for generic drugs.

Other states' Workers' Comp medical fee schedules appear to use varied forms of pharmacy reimbursement:

- Arizona has a separate maximum for brand and generic, with AWP less five percent for brand and AWP less fifteen percent for generic.
- California follows the Medi-Cal fee schedule with a \$7.25 surcharge.
- ▶ Utah pays at cost plus 15%.

Recommendations

AWP is still commonly used in the marketplace although its amounts are frequently discounted. To maintain consistency, we recommend the DIR continue using AWP as the schedule basis, but employ discounts to achieve reimbursement levels similar to the commercial and nationwide Workers' Comp levels shown in 7.1.

For brand drugs, discounts already appear to be fairly consistent with the market; however, discounts on generic drugs are half the market resulting in considerably higher payments for Nevada Workers' Comp. Based on this, we recommend separate reimbursement terms for brand and generic drugs:

- ➢ Brand reimbursement: lesser of 100% of AWP and U&C
- ➢ Generic reimbursement: lesser of 80% of AWP and U&C

This approach of varying reimbursement between brand and generic is commonly used amongst Pharmacy Benefit Managers (PMBs). Using 80% of AWP may not necessarily achieve the same discounts shown for commercial Nevada and nationwide Workers' Comp, but it should bring the payout closer and additional discounts may be built in over time as the DIR moves closer to market reimbursement for pharmacy.

Dispensing Fees

We compared dispensing fees for the Nevada Commercial and the Nationwide Workers' Comp data to the current MFS reimbursement. For the mix of drugs utilized in the NCCI data, dispensing fees are similar between the two benchmarks with an average of \$7.72 for Commercial and \$7.91 for Nationwide Workers' Comp. The current MFS dispensing fee of \$10.01 is notably higher than these benchmarks. We recommend reducing MFS dispensing fees to \$7.91 to be consistent with Commercial reimbursement.

Pharmacy Compounding

Pharmacy compounds submitted to payers should be adjudicated as a single Rx with all ingredients combined and not with each ingredient billed separately. There are override codes used to inform the payer of compounded claims to reimburse specifically for the covered products, and to exclude payment for any non-covered excluded items (e.g., sterile water, Diluents, compounding vehicles, etc). Depending on each specific contract, the payer should reimburse based upon the covered products submitted plus any compounding fees negotiated under their contract. Given the special nature of compounds, we recommend the DIR not have explicit provisions for these in the pharmacy schedule, but instead rely on the local payer contracts.

8. AMBULANCE, DME AND PROSTHETICS

Ambulance, DME and Prosthetics reimbursement was analyzed using Milliman GlobalRVUsTM. The GlobalRVUs are a system of relative value units (RVUs) developed by Milliman to cover the entire range of medical and prescription drug services, including hospital and physician in the same RVU system. GlobalRVUs are described in more detail in the Relative Value Units section.

Ambulance

Utilizing the GlobalRVUs, average conversion factors for Ambulance were calculated for all of the benchmarking data sets using a methodology analogous to the physician benchmarking. Since the RVUs normalize for the expected cost differences between the services, the conversion factors represent the pure price difference between the data sets and can be compared directly in the same manner that conversion factors were compared for the professional benchmarking. Note that the MFS does not contain amounts for Ambulance services so only the benchmarking data was compared. Table 8.1 has a summary of the calculated conversion factors:

Table 8.1
Ambulance Allowed Conversion Factor Comparison
2012 Data Trended to 2014

	Allowed
	Conversion
Benchmark Data Set	Factor
Nevada Medicare	\$43.01
Nevada Commercial	\$142.88
Nationwide Workers' Comp	\$74.30

Based on Table 8.1, commercial reimbursement is approximately 332% of Medicare (\$142.88 / \$43.01). This commercial percent of Medicare for Ambulance is higher than the commercial percent of Medicare for all other service categories analyzed. Due to this magnitude, we recommend a lower target at 250% percent of Medicare to be more consistent with the other services analyzed. We are also recommending the DIR base reimbursement on Medicare and apply the 250% target directly to Medicare's allowable amounts for Ambulance services.

DME and Prosthetics

Table 8.2 shows benchmarking results for DME and Prosthetics. Credible benchmark data was available for these categories, so, using GlobalRVUs, average conversion factors were developed from the Nevada commercial and nationwide Workers' Comp data.

Table 8.2DME ReimbursementGlobalRVUs Allowed Conversion Factors

	Nevada	Nationwide
Service Category	Commercial	Workers' Comp
DME	\$34.04	\$31.17
Prosthetics	\$39.65	\$59.45

DME reimbursement are fairly similar for the Nevada commercial and nationwide Workers' Comp, but, Prosthetics nationwide reimbursement is roughly 50% higher than commercial. The MFS currently pays DME at cost plus 20%. We do not have benchmark data on DME costs, so we were not able to compare DME reimbursement to the benchmark results.

For DME and Prosthetics, we recommend the DIR follow a similar RVU-based reimbursement approach using the GlobalRVUs for DME and Prosthetics along with the commercial conversion factors shown in Table 8.2 to calculate reimbursement. Exhibit 3 contains GlobalRVUs for each of the DME and Prosthetics procedure codes.

Given the additional complexity of preparing Custom Orthotics, we recommend defining reimbursement for these services as 20% higher than the Prosthetics level. Keying off the commercial conversion factor in Table 8.2, this means payment using a conversion factor of \$47.58 (1.2 x \$39.65), when RBRVS units are available. For custom orthotics without RBRVS units assigned, we recommend maintaining the existing basis (Medicare plus 40%). We observe that this is a relatively new and rapidly changing service category. It may be several years before sufficient data exists upon which to base reliable reimbursement recommendations.

9. INDEPENDENT MEDICAL EXAMS AND PERMANENT PARTIAL DISABILITY

The DIR requested consideration be given to how Independent Medical Exams (IMEs) and Permanent Partial Disability Exams (PPDs) are reimbursed. We note that the payment for independent medical examinations is not a normal component of Medicare's RBRVS. We have examined the payment systems for a number of states and have concluded that it could be advantageous for the payment for IME's to be split into three components:

- 1) Review and Report
- 2) Additional review needed for a complex case; and
- 3) A complexity factor

Review and Report

The first component should include and examination of the patient, a review of up to 50 pages of medical records, and the preparation of an appropriate report. We recommend that the base rate be set in the range of \$500 to \$600, to be set based on input from stakeholders.

Additional Review Needed for Complex Cases

The second component recognizes the quantity of work required to review a complex case. We note that, at times, a straightforward case will have very lengthy medical records that require extensive time to review. We believe the most logical way to quantify the amount of work required is the actual page count of the file that is reviewed by the physician. The current alternative of including the time spent reviewing records can and has been difficult to verify. The page count can instead be measured accurately by the scanner of the payer requesting the review.

We recommend that a blended rate be used, since there is a wide spectrum of types of medical records to review, reflecting a wide disparity in the density of detail, and hence a variation in the effort required to review. Some types of medical records would include dense information, such as seen in consultant's reports. At the other end of the spectrum is a hospital record, which includes the vast amount of information recorded in the hourly management of a hospitalized patient. By using a blended rate between the two extreme types of files, a fair, reasonable and accurate compensation rate may be established. Since both the payer and the consultant are aware of the exact size of the file, disagreements should be minimized.

Having examined payments for IMEs in other states, we recommend that the rate be \$250 per 100 to 200 pages of medical records, beyond the initial 50 pages included in the base rate. The exact number should be determined by the DIR, with input from stakeholders.

Complexity Factor

The complexity of each case can be reflected in a modification of the first payment (for Review and Report). One potential approach is to reflect the complexity in the number of body parts pertinent to each claim, beyond the first. The modifier could be either an add-on or a multiplier of the first payment factor. Considering each method, we believe an add-on would be preferable and would lead to greater uniformity and to fewer disagreements. We specifically recommend an additional additive factor of between 20% and 50% (to be determined in discussions with stakeholders) of the original Review and Report charge for the third accepted body part. We recommend that an additive factor of between 10% and 30% for each additional body part beyond the third. It is our understanding that you have defined what may be counted as a body part with sufficient clarify and that setting a maximum to the total complexity payment is not necessary.

The additive complexity factors would be added to the sum of the base and "additional" medical record compensation to achieve the final payment.

PPDs

Regarding payment for PPDs, modifications may not be desired. If changes are made however, we believe the above methodology would work well for the payment of PPDs as well.

10.REMAINING MISCELLANEOUS SERVICES

Emergency Room

Outpatient facility Emergency Room (ER) cases follow five different severity levels. To reflect the Nevada-specific Workers' Comp service mix, ER case counts by severity level from the NCCI data were used to weight together average allowed charges from each of the benchmark data sets. Table 10.1 provides a summary of these calculations:

Case Rates by ER Severity Level 2012 Data Trended to 2014					
	NCCI State				
ER Severity	Utilization	Nevada	Nevada	Nationwide	
Level	Distribution	Medicare	Commercial	Workers' Comp	
1	12%	\$74.87	\$292.38	\$108.23	
2	23%	\$194.50	\$496.96	\$195.21	
3	46%	\$479.09	\$912.16	\$471.27	
4	18%	\$1,170.80	\$1,592.55	\$813.04	
5	2%	\$2,755.96	\$2,655.16	\$1,478.77	
Average Weighted w/ State \$539.0			\$902.74	\$448.03	
Utilization Distribution					
Relative to Medicare100%167%83%					

Table 10.1Emergency Room Allowed Average Charge ComparisonCase Rates by ER Severity Level2012 Data Trended to 2014

As can be seen, using the State service mix, average Nevada allowed commercial reimbursement is 167% of Medicare (\$902.74 / \$539.01). The MFS used a different structure for ER reimbursement. Payments are on an hourly basis with a payment for the first hour, then a lower rate for each subsequent hour. In order to estimate comparable allowed amounts under the MFS, we used an assumption of a five-hour average length of ER cases. This produced an estimated case rate under the MFS of \$480.90 as shown in Table 10.2. If the assumption were lowered to four hours, the estimated MFS case rate would drop to \$400.74. Alternatively, if the time assumption were increased to six hours, the estimated MFS case rate would increase to \$561.06.

for MFS Schedule Amounts						
MFS Fee Assumed Total						
Payment Level per Hour Hours Fees						
1st ER Hour	\$160.26	1	\$160.26			
Each Add'l Hour \$80.16 4 \$320.64						
Case Rate Estimate5\$480.90						

Table 10.2Emergency Room Case Rate Estimatefor MFS Schedule Amounts

This estimated MFS case rate is 89% of Medicare (\$480.90 / \$539.01 - 1). To achieve reimbursement comparable to the estimated commercial levels, we recommend increasing the MFS hourly fees by 88% (\$902.74 / \$480.90) while maintaining the same relationship between the first hour and subsequent hour payments. This assumes an average ER stay of 5 hours. It is important to note that this recommendation is highly dependent on the hours assumption for the average length of an ER case. We recommend soliciting stakeholder input on this recommendation.

Home Health Care

Similar to ER, Home Health Care has an hourly basis for reimbursement under the MFS. The same general approach was followed, first calculating average reimbursement from the benchmark databases and then estimating the MFS reimbursement on the same basis. Since Home Health does not have severity levels, the average reimbursement per visit was calculated from each benchmark database, with the exception of Nevada Medicare where claims experience was not reliable. Results are shown in Table 10.3:

Table 10.3Home Health Allowed Charges per Visit2012 Data Trended to 2014

	Allowed	
	Charges	
Benchmark Data Set	per Visit	
Nevada Commercial	\$116.19	
Nationwide Workers' Comp	\$82.09	

Table 10.4 shows the development of the estimated allowed per visit for the MFS:

Table 10.4 Home Health per Visit Estimate for MFS Schedule Amounts

	NCCI State		MFS	Fee
	Visit	Assumed	Payment	
Payment Level	Distribution	Hours	Basis	Amount
Skilled home health care, less than 2 hours	14%	N/A	Visit	\$111.61
Certified nursing assistant care, less than 2 hours	2%	N/A	Visit	\$54.38
Skilled home health care, greater than 2 hours	22%	4	Hour	\$55.81
Certified nursing assistant care, greater than 2 hours	63%	4	Hour	\$27.20
Estimated Allowed per Visit		5		\$133.41

The estimated MFS rate per visit is \$133.41 under the assumptions that the visits greater than two hours last an average of four hours. If the assumption were lowered to three hours, the estimated MFS rate per visit would drop to \$104.03. Alternatively, if the time assumption were increased to five hours, the estimated MFS rate per visit would increase to \$162.78.

The \$133.41 estimate is approximately 115% of the commercial average (\$133.41 / \$116.19). To achieve the commercial reimbursement level, we recommend a decrease in the MFS fees of approximately 13% (1 – \$116.19 / \$133.4) while maintaining the same relationship between the four payment categories. Again though, this recommendation is highly dependent on the visit length assumption for Home Health visits over two hours. We recommend soliciting stakeholder input on this recommendation.

Functional Capacity Evaluations, Work Hardening and Back School

First, we identified the CPT code ranges to represent each of the miscellaneous service categories described in the RFP. Functional Capacity Exams are highly individualized and do not have CPT code representations. Because our benchmarking methodology relies on a CPT code representation we excluded these services from the analysis. CPT codes were identified for Work Hardening and Back School.

None of the benchmark datasets contain sufficient Workers' Comp data for to perform a full benchmark analysis of these services. However we were able to estimate reimbursement using the RVP RVU assignments for these codes. The recommended commercial conversion factors from Section 2 of this report were multiplied by the RVP RVUs to estimate commercial reimbursement for these codes. In case the DIR elects to follow the recommendation to use RBRVS, RBRVS-based RVUs were estimated for these codes by looking at the relationship between the RVP and RBRVS Medicine commercial conversion factor for the appropriate service category (General Medicine).

Table 10.5 shows the CPT codes identified for each of miscellaneous service, the assigned RVP RVUs, and the estimated RBRVS RVUs and estimated commercial allowed average charge for each service.

			Estimated	Estimated
		RVP	RBRVS	Commercial
Service Category	CPT Code	RVUs	RVUs	Allowed
Work Hardening	97545	24.00	7.88	\$639
	97546	12.00	3.94	\$320
Back School	97537	7.50	2.46	\$200

Table 10.5Miscellaneous Services ReimbursementRVP and Estimated RBRVS RVUs

We recommend setting the reimbursement for Work Hardening and Back School with itemized CPT codes to an RVU and conversion factor structure similar to physician reimbursement. Specifically, we recommend the approach used in Table 10.5 of applying the RVUs in that table to the commercial Medicine conversion factors from Section 2 to calculate reimbursement. Note that the MFS currently pays Back School at \$81.57 per hour, so the Table 10.5 reimbursement results in a shift from a fixed hourly rate to a fixed \$200 flat payment.

11.BUNDLING OF CHARGES

Bundling services for payment is a common practice in the industry and can vary from the discounting of individual services when performed with other services, to full episode-based payments that cover all services (e.g., hospital, physician, drugs) related to a particular condition such as hip replacement or coronary bypass surgery.

In both instances, the intent is to lower costs by recognizing and encouraging efficiencies gained when these services are performed and/or coordinated with each other. Bundling is an improvement over regular fee-for-service (FFS) reimbursement because it discourages unnecessary services and improves coordination of care across providers. Compared to capitation, which is on the other end of the managed care spectrum from FFS reimbursement, bundling focuses on a set payment for an instance of care. It does not penalize a provider if multiple instances occur for a member but rather rewards efficiencies for each instance.

Bundling does present challenges such as determining what services can be bundled and what the bundled payment should be. These challenges are most prevalent with episode-based reimbursement since it covers all services associated with an episode. Separating the services for that episode from other non-related services can be a complex process for some conditions (e.g., diabetes). There are different grouper methodologies in the market, such as Episode Treatment Groups (ETGs), each with its own grouper software needed to determine the episode groupings.

The MFS already utilizes a simpler form of bundling with its Ambulatory Surgical Center (ASC) payment groups. When multiple reimbursable services are performed during an outpatient surgery, the non-primary services are paid at a discounted rate. The MFS currently discounts them as 50% for the second procedure and 75% for each successive procedure (ranked based on payment amount, with the procedure with the highest reimbursement level assumed to be primary). These discounts represent a type of bundling whereby the payment for the additional procedures reflects the reduced effort to perform them when done with the primary procedure.

Medicare contains multiple examples of bundling worth considering. Examples are provided below by type of service:

- Professional
 - A set of procedures in RBRVS are flagged for bundled payment only. These services are only performed along with other services and Medicare provides no separate payment for them.

- Multiple and bilateral surgeries have a payment reduction. These are identified by the modifiers on the surgical services and it is expected that the MFS already considers them.
- For surgery-related services performed preoperatively and postoperatively by the surgeon, Medicare provides no additional payments. It is assumed that the payment for the surgical procedures include these additional services.
- Outpatient The majority of Medicare outpatient services are now reimbursed on an Ambulatory Payment Classification (APC) basis. APCs are similar to the ASC payment groups in that procedures are assigned to payment categories and if multiple payment categories occur on a single claim, the non-primary procedures are discounted. However, the APC system is much more extensive and covers most outpatient services, including surgery. It is our understanding that the ASC methodology has worked well for Nevada, and we do not recommend changing to APCs, due to the complexity.
- Inpatient Inpatient facility payments are made on a Diagnostic Related Group (DRG) basis. Each inpatient admission is assigned a single DRG and receives a case payment based on that DRG that covers the entire admit. An additional, outlier payment may also occur, but admits are primarily covered by the single DRG payment.
- Bundled Payments for Care Improvement (BPCI) In 2013, Medicare began a voluntary provider program for episode-based bundling of payments. The program involved four separate models that providers could enroll in, described in Table 11.1 below:

	Model 1	Model 2	Model 3	Model 4	
Episode	All acute patients,	Selected DRGs,	Selected DRGs,	Selected DRGs, hospital plus	
Definition	all DRGs	hospital plus post	post-acute period		
		acute period	only	readmissions	
Services	Current FFS DRG	All non-hospice	All non-hospice	All non-hospice Part	
Included	payments	Part A and B	Part A and B	A and B services	
		services during	during the post-	(including hospital	
		the initial IP stay,	acute period and	and physician)	
		post-acute period	readmissions	during initial IP stay	
		and readmissions		and readmissions	
Payment	Retrospective	Retrospective	Retrospective	Prospective	

Table 11.1Description of Models under Medicare BPCI

The program continues today and is still on a voluntary basis. Provider participation varies notably between the different models, with the large majority enrolled in Model 4. If deemed successful, these programs may result in fundamental changes to Medicare payments. The DIR should monitor these programs and consider revising their schedule if necessary. The following website contains more information on the BPCI program:

http://innovation.cms.gov/initiatives/bundled-payments/

Recommendations

Our current MFS recommendations already include some bundling aspects. For physician, we recommend the use of RBRVS which identifies specific services that are bundled and have no separate payments. Additionally for physician, the DIR should consider implementing the other Medicare payments rules such as the surgery-related items regarding multiple/bilateral procedures and pre and postoperative care; however, it is likely that the local payers administering the professional are already considering these items. We recommend confirming that is the case.

For inpatient, our MFS recommendations include the use of DRGs which are a bundled case rate payment for the entire admit. DRGs encourage hospitals to be more efficient in providing the care since there is no financial incentive for a hospital to keep the patient longer than necessary. Such an incentive exists with the current MFS per diem-based payments.

Although we have no further bundling recommendations, the DIR should still consider other bundling options due to the potential savings and administrative simplifications.

12.METHODOLOGY

The data sources and steps taken in the analysis are described in detail in this section.

Data Sources

Multiple data sources were used to assess reimbursement levels in Nevada, including:

- Commercial/Workers' Comp A 2012 database with detailed commercial and Workers' Comp claims information for all areas of the country was used. The database contains allowed amounts that reflect the provider contracted amount before member cost sharing, and paid amounts after member cost sharing. Providers and payers are blinded in the data. For the state of Nevada, the commercial data was sufficiently credible to be analyzed as a separate data set in the benchmarking. The Workers' Comp data for Nevada however was not credible, so the full nationwide Workers' Comp data from the database was used.
- Medicare Fee-for-Service (FFS) –Medicare FFS data was available for 2012. The claims information contained billed, allowed and paid amounts.
- NCCI Nevada Workers' Comp The NCCI provided a summary of 2012 utilization and payments by procedure for Workers' Comp claims in Nevada. Information was at the statewide level. Due to variations in coding by the different state payers that administered the claims, the NCCI information could only be used in the analysis for a subset of the services analyzed (e.g., professional, Emergency Room).
- \blacktriangleright <u>Milliman's GlobalRVUsTM</u> This source was described in detail in the body of the report.

As requested, the billed, allowed and paid amounts from each data set are defined as follows:

- Billed Corresponds to the charges the health care provider bills for medical services provided.
- <u>Allowed</u> For commercial, the allowed amount generally represents the contracted/allowed amount agreed upon with the provider which considers the discount from billed. This would also typically be the maximum reimbursement relevant to the appropriate MFS per date of service. For Workers' Comp, some carriers may be using this field to identify the maximum amount payable under the MFS.
- Paid Reflects actual payment made to the health care provider. For commercial and Medicare, these may also be considered allowed amounts excluding member cost sharing.

Calculation Steps

The following steps were taken in the calculations:

1) Trend Claims Data Sources

The Medicare, commercial and Workers' Comp data sets represent claims incurred in 2012. The dollars in each data set were trended to 2014 using the annual trend factors shown in Table 12, below. Annual trends in the Non-Rx Trends section were used for all categories aside from pharmacy, which uses the trends from the Rx Trends section

Data Set	Billed	Allowed	Paid
Non-Rx Trends			
Nevada – Medicare FFS	7.0%	2.0%	2.5%
Nevada – Commercial	N/A	5.0%	5.5%
Nationwide – Workers' Comp	N/A	2.0%	2.5%
Rx Trends			
Nevada – Medicare FFS	N/A	N/A	N/A
Nevada – Commercial	N/A	4.0%	4.5%
Nationwide – Workers' Comp	N/A	4.0%	4.5%

Table 12Annual Trend Factors2012 to 2014

Workers' Comp trends were assumed to follow Medicare. Note that both commercial and Medicare paid trends are slightly higher than allowed due to the presence of fixed dollar cost sharing (e.g., deductibles, copays) that leverage the allowed trend up slightly.

2) Assign Relative Value Units

For the service categories where RVUs were utilized, area-specific RBRVS RVUs were assigned to the procedures for each data set. Milliman's GlobalRVUs were used to supplement the RBRVS unit values where there were gaps so that additional codes could be used in the calculations.

In addition to the RBRVS RVUs, we assigned RVP RVUs using the Optum CPT code reference tables. These RVP RVUs were used as a point of reference for comparing the MFS to benchmark datasets and to develop recommendations on an RVP basis.

3) Summarize Average Dollars by Procedure, DRG or Category

The summarization process varied based on the type of service analyzed, as described below:

Physician Services Including Substance Abuse

For the commercial, Workers' Comp and Medicare claims data sets, average dollars were summarized by procedure code (HCPCS) and modifier. For the Medicare data, this consisted of average billed, allowed and paid amounts. For commercial and Workers' Comp, only allowed and paid amounts were available for both the commercial and Workers' Comp data.

To estimate maximum allowable reimbursement levels, we analyzed the distribution of commercial allowed charges for a set of high-volume procedure codes. We calculated the distribution of allowed payments for each of these codes and then estimated the impact that applying a maximum allowable at different levels has on the final average allowed payments. Using these results, we developed an adjustment factor to transform benchmark dataset averages to our final maximum allowable recommendations.

Dental

Benchmark data was not available for Dental services, so a commercial schedule was determined through the combination of billed charges from the Milliman Health Cost Guidelines, Dental Volume and commercial discounts.

Hospital and Other Inpatient

For the commercial, Workers' Comp and Medicare claims data sets, average dollars (billed, allowed and paid) were summarized by DRG and by inpatient category (definitions provided in Section 4).

The NCCI coding available for the inpatient data was insufficient to assign category. Therefore state utilization was not used to reweight the data for this analysis. The service category results reflect the service utilization mix of the benchmark populations.

Ambulatory Surgery Centers

Ambulatory Surgery Center reimbursement was analyzed under the current structure in the state schedule where payments are made under nine ASC services groupings. This structure is based on a surgical HCPCS mapping that is in use by Nevada Medicaid.

The benchmark claims data were repriced under both the MFS and Medicaid's ASC schedule using those schedules' payment rates and multiple procedure payment reductions. This was done by assigning ASC service grouping based on HCPCS code, looking up appropriate payments from the two schedules, and applying additional payment rules as required. Note that the Medicaid schedule did not have an amount specified for unknown procedures so the amount for ASC group 8 was used based on our experience with other ASC schedules and their payment relationships.

Prescription Drug

The Medicare claims dataset was excluded from the analysis because it does not contain pharmacy claims. For the commercial, Workers' Comp and Medicare claims data sets, average dollars were summarized by NDC. For commercial and Workers' Comp, we analyzed allowed dollars net of dispensing fees for both the commercial and Workers' Comp data.

After the data were summarized, the average units per package were calculated and compared to the units per package assumed in the MediSpan AWP reference table. When necessary, the average per-prescription charges were adjusted to normalize units per script to match the AWP reference.

The NCCI utilization data for Nevada Workers' Comp was used to weight the average charges for high level summaries of brand and generic drugs in total.

We assumed that the paid amounts in the NCCI pharmacy data do not include dispensing fees. This assumption is based on the low average paid amounts that appear in the NCCI data for some drugs, which suggest that dispensing fees are excluded.

Ambulance, DME, ER and Home Health

For the commercial and Workers' Comp claims data sets, average dollars were summarized by HCPCS and modifier. For the Medicare data, this consisted of average billed, allowed and paid amounts. Only allowed and paid amounts were available for both the commercial and Workers' Comp data. We categorized claims according based on claim line level into the miscellaneous service categories using logic consistent with the Milliman *Health Cost Guidelines*. The categories included are:

- > Ambulance,
- Durable Medical Equipment,
- Emergency Room Facility, and
- ➢ Home Health

The NCCI utilization data for Nevada Workers' Comp was used to weight the average charges for each of the data sets. This reflects the state's mix of services in all of the calculations. For Ambulance and DME, the utilization mix was used to determine composite values for each RVU type/service category cell and calculate the composite conversion factors. For ER and Home Health, additional calculations and assumptions were necessary to put the MFS on a comparable basis with the summarized benchmark data.

Work Hardening and Back School

The volume of data in all of the benchmark datasets was insufficient to analyze Work Hardening and Back School. Instead, RVP RVUs were assigned at the CPT code level and applied to the Medicine conversion factors calculated in the physician analysis.

4) Develop Recommendations

The process for developing recommendations varied by type of service, but recommendations generally followed commercial reimbursement levels. Reimbursement for each benchmarking dataset was estimated as a percent of Medicare and compared to the MFS when possible. This helped gage the reasonability of the reimbursement levels and advise recommendations. Final reimbursement recommendations were then made for each type of service.

13.LIMITATIONS AND CONSIDERATIONS

Any opinions expressed in this report are solely those of the authors.

We recognize that our recommendations for some service categories reflect significant changes from existing reimbursement for those services under the existing fee schedule. While this may be partially attributable to the change in recommended relative value units for physician services, it is likely that the significant time since our prior analysis for the DIR is a major cause. We recommend that the DIR carefully evaluate the potential impact of our recommendations for the potential dislocations in services provided because of the changing reimbursement levels. We also recommend requesting input from the stakeholders in the system. The DIR may wish to implement the larger changes in stages, carefully reviewing the impact of each change before progressing to the next stage.

Any reader of this report must possess a certain level of expertise in areas relevant to this analysis to appreciate the significance of the approaches and assumptions and the impact of these approaches and assumptions on the results. The reader should be advised by their own actuaries or other qualified professionals competent in the subject matter of this report, so as to properly interpret the material.

This report is not intended to benefit third parties. Regarding the contents of this report, Milliman makes no representations or warranties to third parties. Third parties are to place no reliance upon this report that would result in the creation of any duty or liability for Milliman or its employees to third parties, under any theory of law. Third parties receiving this report must rely on their own experts to draw conclusions about the report's contents.

As documented in the report, this analysis has relied extensively on historical data. The data were reviewed for reasonableness, but no independent audits were performed. Should errors or omissions be discovered in the source data, the results of our analysis would need to be modified. Future results will differ from the historic estimates in this report.

Mr. Baldwin is a member of the American Academy of Actuaries, and meets its qualification standards to issue this report.

EXHIBITS