

WCIRB Actuarial Committee Meeting

March 16, 2021



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Agenda

- 1. AC20-08-04: Impact of Economic Slowdown on Pure Premium Rate Indications
- 2. AC21-02-02: Pandemic Impact on 2020 Development
- 3. AC21-03-01: First Quarter 2021 Review of Diagnostics
- 4. AC21-03-05: Pandemic Impact on Premium Measures
- 5. AC21-03-02: 12/31/2020 Experience Review
- 6. AC21-03-03: Review of COVID-19 Claim Diagnostics
- 7. AC21-03-04: 9/1/2021 Filing COVID-19 Claim Cost Projection



Impact of Economic Slowdown on Pure Premium Rate Indications



Impact of the Economic Slowdown on Pure Premium Rate Indications

- The magnitude of the current economic changes is unprecedented
 - Virtually all industries have been affected
 - The retail and hospitality sectors have been hardest hit
 - Changes in the industrial mix and wage level distribution can have large impacts
- For pure premium ratemaking, changes due solely to changing industrial mix should be excluded from projections
- WCIRB staff has estimated impacts of changing industrial mix and other factors for:
 - Average Wage
 - Claim Frequency
 - Claim Severity



Pure Premium Rate Indications

Impact of the Economic Slowdown on



Average Wage

- Current forecasts of average wage changes are from March 2021 UCLA and November 2020 Department of Finance
- The averages of these wage forecasts are:

2020	2021	2022	2023
7.9%	0.9%	1.8%	2.8%

- 2020 estimate artificially high due to uneven distribution of job losses by wage level
- 2021 2023 estimates lowered by projected reversals of these impacts
- Staff has developed two estimates of the impact of changing industrial mix on wage changes
 - 1) Based on BLS OES data through year end 2020
 - 2) Based on BLS QCEW wage data through 2019 and UCLA employment forecasts
- Staff has also developed a preliminary estimate of the impact of employment changes by wage level
 - Wage data at the employee level is from the American Community Survey (ACS)
 - Estimates of employment changes by wage level are from the Economic Policy Institute (EPI)



Industrial Mix Impact on Average Wage – OES Method

- This estimate is a reasonableness check of the QCEW/UCLA Method
 - This data set excludes agricultural and government employees
 - Forecasts are not available





Industrial Mix Impact on Average Wage – QCEW/UCLA Method

- This estimate uses observed industrial wage relativities from QCEW data through 2019
- These relativities are extended into the future with industrial mix determined by UCLA forecasts





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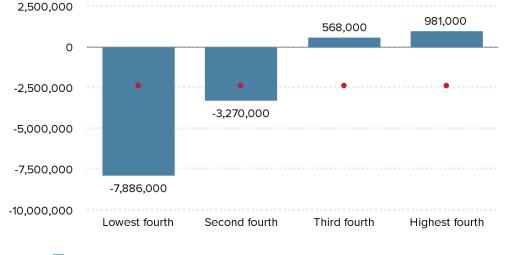
7

Impact of Wage Level Distribution

Employment changes during 2020 were not distributed evenly by wage level

Lowest-wage workers lost nearly 7.9 million jobs, while the highest-wage workers *gained* nearly a million

Employment change from 2019 to 2020, by wage level

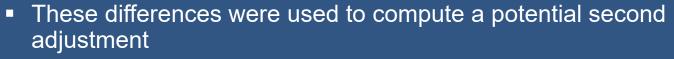




Notes: Wages adjusted for inflation using the CPI-U-RS. Employment changes in blue are calculated between 2019 and 2020 in the quartiles set by the 2019 data. Red dots reflect employment changes in 2020 if they were proportionate to the 2019 employment shares. A small amount of noise was added to the wage data when setting wage quartiles to minimize clumping at particular values to ensure equal bin size.

Source: Authors' analysis of Current Population Survey Outgoing Rotation Group microdata.

Economic Policy Institute

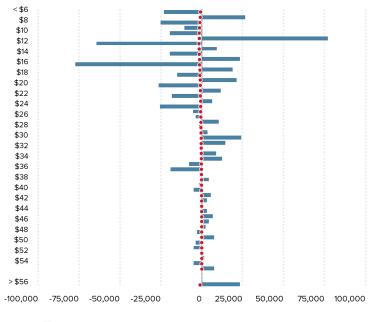


- The overall employment distribution by industry was held constant
- The distribution of employees by wage level within industries was changed to reflect this distribution
- The impact of the changing wage distribution in 2020 was estimated at +5.9% (beyond the impact of shift in industrial mix)
- This estimate is based on national data from the EPI's analysis of Current Population Survey data

Comparison With Prior Recessions

Job losses in the early 2000s recession appear unrelated to wage level

Employment change from 2001 to 2002, by wage level



Employment change (actual) • Employment change (if proportionate)

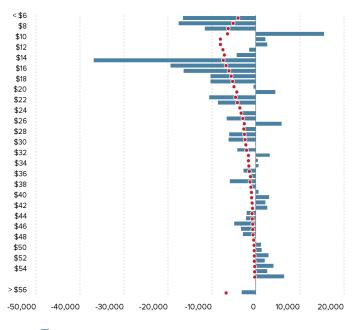
Notes: Wages are adjusted for inflation using the CPI-U-RS. The bars represent how much average employment changed, on a monthly basis, for workers in hourly "wage bands" (i.e., levels) labeled by the midpoint value of the band. For example, the bar at \$10 represents the monthly loss in jobs with hourly wages from \$7.50 to \$12.49 and the bar at \$11 represents loss in jobs with hourly wages from \$8.50 to \$13.49. (The last bar represents jobs with wages \$56 an hour or higher). This smoothing of employment into wage bands was used to clarify underlying trends. The dots are provided as benchmarks—they show how many jobs would have been lost at each wage level if jobs had contracted proportionately across the entire wage distribution. If a bar extends to the right of the zero axis, workers at that wage level actually gained jobs. If the bar extends left of the zero axis but does not extend beyond its dot, workers at that wage level lost jobs but fewer than they would have had jobs been shed proportionately to how many jobs were in that bin in 2001. Finally if the bar extends to the left of its dot, workers at that wage level lost jobs at a faster rate than would have occurred if the losses were proportionate.

Source: Authors' analysis of EPI Current Population Survey Extracts, Version 1.0.14 (2021), https://microdata.epi.org.

Economic Policy Institute

Job losses during the Great Recession are weakly related to wage level

Employment change from 2007 to 2010, by wage level



Employment change (actual) • Employment change (if proportionate)

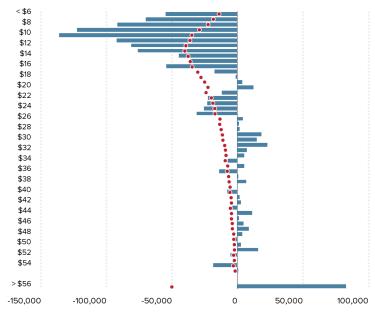
Notes: Wages are adjusted for inflation using the CPI-U-RS. The bars represent how much average employment changed, on a monthly basis, for workers in hourly "wage bands" (i.e., levels) labeled by the midpoint value of the band. For example, the bar at \$10 represents the monthly loss in jobs with hourly wages from \$7.50 to \$12.49 and the bar at \$11 represents loss in jobs with hourly wages from \$8.50 to \$13.49. (The last bar represents jobs with wages \$56 an hour or higher.) This smoothing of employment into wage bands was used to clarify underlying trends. The dots are provided as benchmarks—they show how many jobs would have been lost at each wage level if jobs had contracted proportionately across the entire wage distribution. If a bar extends to the right of the zero axis, workers at that wage level actually gained jobs. If the bar extends left of the zero axis but does not extend beyond its dot, workers at that wage level lost jobs but fewer than they would have had jobs been shed proportionately to how many jobs were in that bin in 2007. Finally if the bar extends to the left of its dot, workers at that wage level lost jobs at a faster rate than would have occurred if the losses were proportionate.

Source: Authors' analysis of EPI Current Population Survey Extracts, Version 1.0.14 (2021), https://microdata.epi.org.

Economic Policy Institute

Lower-wage workers experienced job losses in far excess of the proportionate shares

Employment change from 2019 to 2020, by wage level



Employment change (actual) • Employment change (if proportionate)

Notes: Wages are adjusted for inflation using the CPI-U-RS. The bars represent how much average employment changed, on a monthly basis, for workers in hourly "wage bands" (i.e., levels) labeled by the midpoint value of the band. For example, the bar at \$10 represents the monthly loss in jobs with hourly wages from \$7.50 to \$12.49 and the bar at \$11 represents the monthly loss in jobs with hourly wages from \$8.50 to \$13.49. (The last bar represents jobs with wages \$56 an hour or higher.) This smoothing of employment into wage bands was used to clarify underlying trends. The dots are provided as benchmarks—they show how many jobs would have been lost at each wage level if jobs had contracted proportionately across the entire wage distribution. If a bar extends to the right of the zero axis, workers at that wage level actually gained jobs. If the bar extends left of the zero axis but does not extend beyond its dot, workers at that wage level lost jobs but fewer than they would have had jobs been shed proportionately to how many jobs were in that bin in 2019. Finally if the bar extends to the left of its dot, workers at that wage level lost jobs at a faster rate than would have occurred if the losses were proportionate.

Source: Authors' analysis of EPI Current Population Survey Extracts, Version 1.0.14 (2021), https://microdata.epi.org.

Economic Policy Institute



Potential Additional Wage Level Adjustment Calculation

	(A) Unadjusted Employment Distribution	(B) Unadjusted Average Wage	(C) Wage Level Adjusted Distribution	(D) Wage Level Adjusted Wage	
Agriculture & Mining	2.4%	\$33,368	2.3%	\$35,807	
Utilities & Construction	6.9%	\$61,583	7.1%	\$64,508	
Manufacturing	8.7%	\$77,297	9.0%	\$81,152	
Wholesale	2.7%	\$66,341	2.7%	\$69,967	
Retail	10.5%	\$40,517	10.0%	\$44,364	
Transportation & Warehousing	4.6%	\$48,418	4.6%	\$51,627	
Information	2.9%	\$107,857	3.1%	\$112,641	
Finance & Insurance	3.7%	\$99,676	3.9%	\$103,408	
Real Estate	2.0%	\$75,979	2.0%	\$80,912	
Professional Services	9.0%	\$106,528	9.5%	\$110,432	
Administrative	4.4%	\$41,408	4.2%	\$44,592	
Education	9.3%	\$50,055	9.3%	\$53,810	
Health	12.6%	\$63,289	12.7%	\$67,423	
Arts & Entertainment	2.8%	\$41,517	2.7%	\$45,911	
Hospitality	8.4%	\$25,989	7.7%	\$28,367	
Other Services	4.3%	\$38,019	4.1%	\$41,241	
Public Administration	4.8%	\$66,463	5.0%	\$69,427	
Total	100.0%	\$60,643	100.0%	\$65,129	

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• Total change = $\sum (C \times D) / \sum (A \times B) - 1 = 65,129/60,643 - 1$ = 7.4%

- Change with constant industry mix = $\sum (A \times D) / \sum (A \times B) 1$ = 64,229/60,643 - 1 = 5.9%
- Implied industry mix impact = 1.074/1.059 1 = 1.4%

Average Wage Change Selections

- 1/1/2021 Filing
 - 2020 change was adjusted for the difference between average and median wage changes during prior recessions
 - Direct adjustment for industry mix was unavailable due to inconsistencies between the timing of available forecasts

	2020	2021	2022	2023
March 2020 UCLA	1.5%	2.7%	4.4%	2.6%
April 2020 DoF	1.4%	2.6%	3.1%	3.4%
Average UCLA/DoF	1.5%	2.6%	3.8%	3.0%
Median vs Avg.	-0.8%			
Selection	0.7%	2.6%	3.8%	3.0%



Potential Average Wage Change Projections

Current Forecasts

	2020	2021	2022	2023
March 2021 UCLA	9.6%	0.2%	1.7%	3.2%
November 2020 DoF	6.2%	1.7%	2.0%	2.5%
Average UCLA/DoF	7.9%	0.9%	1.8%	2.8%
Industry Mix Adjustment	-1.9%	0.4%	0.1%	-0.1%
Indication from Average	5.9%	1.3%	1.9%	2.7%
Indication from UCLA	7.5%	0.6%	1.8%	3.1%
Potential Wage Level Adjustment*	-5.9%	3.4%	2.2%	0.6%
Both Adjustments from Average	-0.4%	4.8%	4.1%	3.4%
Both Adjustments from UCLA	1.2%	4.0%	4.0%	3.7%

- *Measured 5.9% wage level impact in 2020 is assumed to fully unwind.
 - 55% in 2021
 - 35% in 2022
 - 15% in 2023

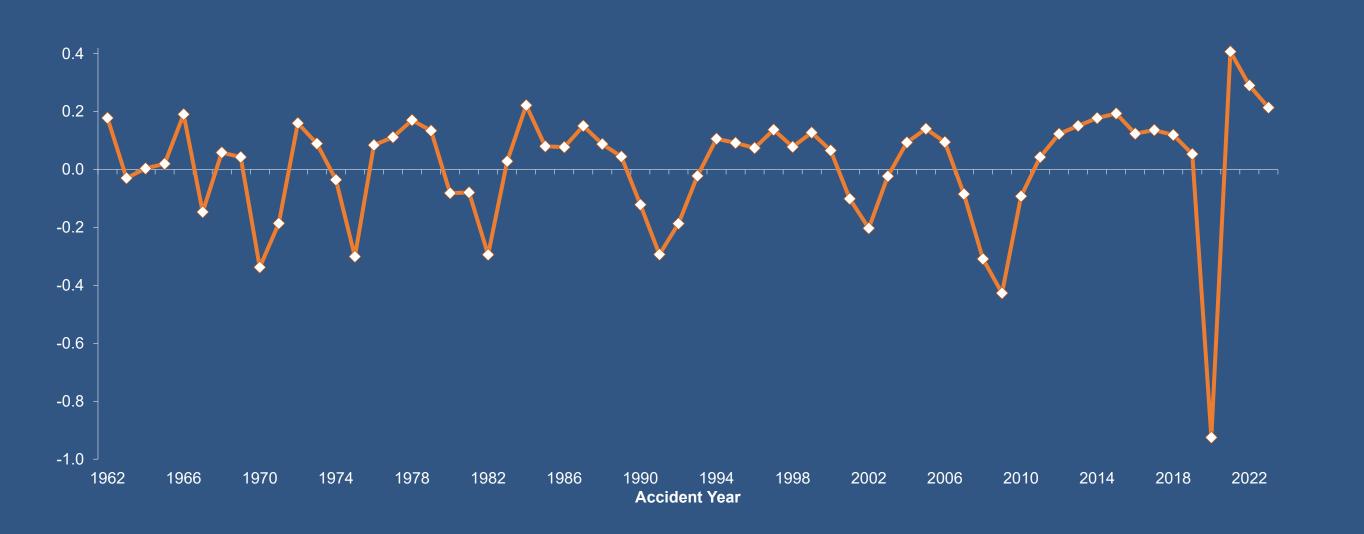


Claim Frequency

- The WCIRB frequency model predicts frequency changes that are adjusted for industrial mix
 - No separate adjustment is required
- Model predicted frequency changes are dependent on changes in economic conditions
 - Economic Variables: directly measure forecast economic changes
 - Cumulative Injury Index: has shown correlation with the economy during prior recessions
- The 2020 change in the economic variables is by far the largest of the series



Change in Economic Variables





Economic Variable Adjustments

- The WCIRB investigated potential caps of changes in the economic variables for the 1/1/2021 filing
- All caps of the economic variables worsened model fit
- No cap was selected
 - For reference: model fits with tested caps

Сар	0.10	0.15	0.20	0.25	0.30	0.35	0.40	Max Obs 0.4266
# capped (out of 58)	30	17	8	6	3	1	1	0
R-Squared	0.527	0.538	0.550	0.559	0.565	0.565	0.566	0.566
Reduction	-6.8%	-4.9%	-2.9%	-1.1%	-0.2%	-0.1%	0.0%	0.0%
p-value of Econ Vars	0.131	0.079	0.046	0.030	0.023	0.023	0.022	0.022



Cumulative Injury Index

- Changes in the cumulative injury index are the most predictive element of the model
- No change in the cumulative injury index is normally assumed in the model
 - Past investigations of proxies and time series models were unsuccessful
 - Modeling will be revisited using transactional indemnity data
- The cumulative injury index increased significantly during previous recessions
- For the 1/1/2021 filing, an average of the latest two recession changes in the index were selected for projections
 - The resulting projections are shown below

	Assumed Change in C	umulative Injury Index		Frequency Change		
AY	None	Two Recession Average			Two Recession Average	
2020	0.000	0.109		-11.4%	-6.8%	
2021	0.000	-0.004		2.4%	2.3%	
2022	0.000	0.000		1.2%	1.2%	
2023	0.000	0.000		0.3%	0.3%	

- The 2020 change estimate is now available using aggregate data
- Given the limited impact on the 2021 projection and a lack of evidence of a large change in cumulative injury claims manifesting, staff does not recommend making this adjustment in the 9/1/21 Filing



Change in Frequency Due to Industrial Mix





Claim Severity

- WCIRB has developed estimates of changes in claim frequency due to industrial mix
- Estimates are based on USR data, where available
- For future years, historic industry severity relativities are used and count distributions are adjusted using forecasts of employment changes
 - This method implicitly assumes that industry frequency and severity relativities will continue
- These adjustments would be applied to data used to select trends



Change in Severity Due to Industrial Mix

Source: UCLA Anderson Forecast and USR Data





02

Pandemic Impact on 2020 Development



Pandemic Impact on 2020 Development

Loss Development in 2020

- First quarter 2020 development comparable to prior quarters
- Second quarter 2020 development impacted by slower claim activity during pandemic
 - Decrease in paid development
 - Increase in case reserves
 - Slowdown in claim settlement rates for AYs 2019 and prior
- Third quarter 2020 development showed somewhat of a more "typical" pattern
 - Claim settlement rates continued to emerge at lower levels
- Fourth quarter 2020 development similar to third quarter with more "typical" pattern



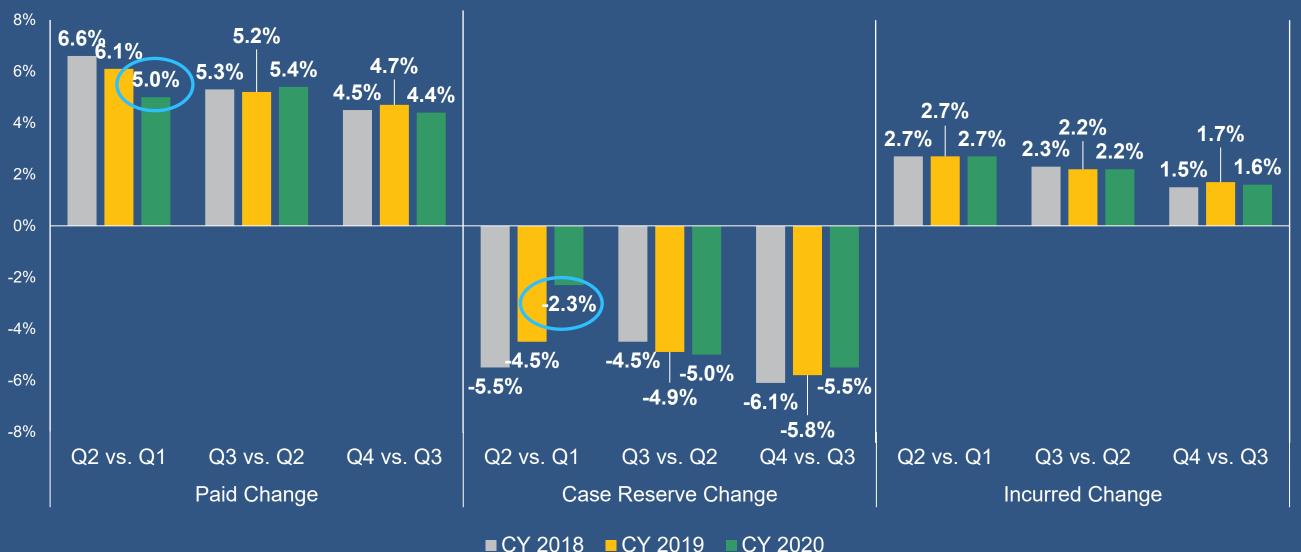
Quarterly Indemnity Change – 2nd through 6th Least Mature AYs (Exhibit 1.1)



Pandemic Impact on 2020 Development



Quarterly Medical Change – 2nd through 6th Least Mature AYs (Exhibit 1.2)



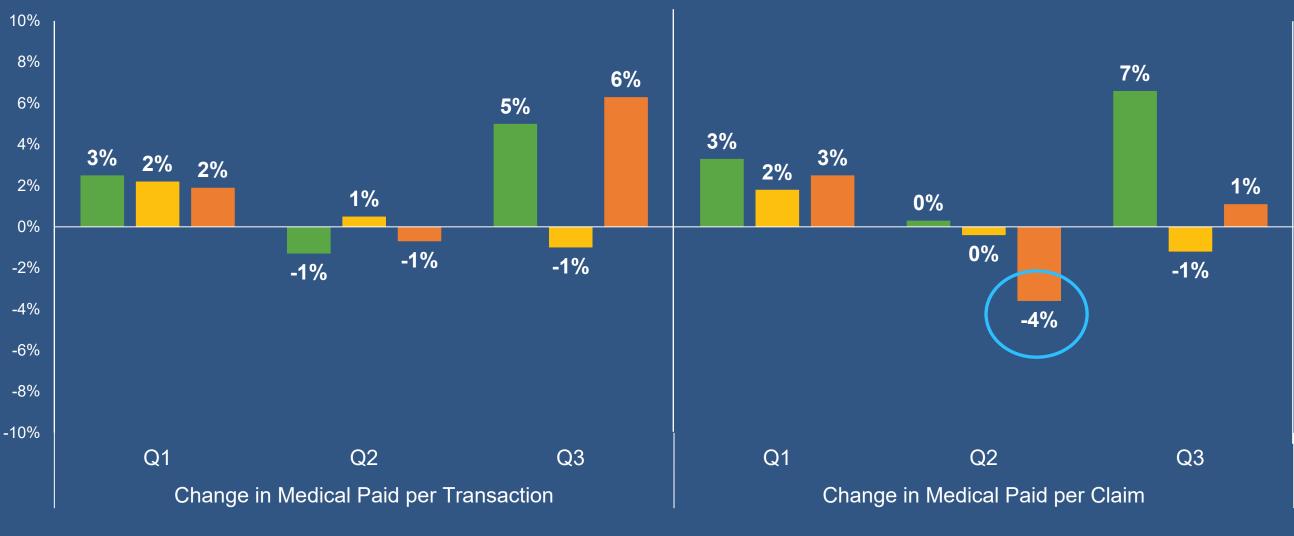


Quarterly Medical Payments – Change from Same Quarter of Prior Year – Excluding Most Recent Accident Year (Exhibit 4.1)





Quarterly Medical Payments – Change from Same Quarter of Prior Year – Excluding Most Recent Accident Year (Exhibit 4.2)

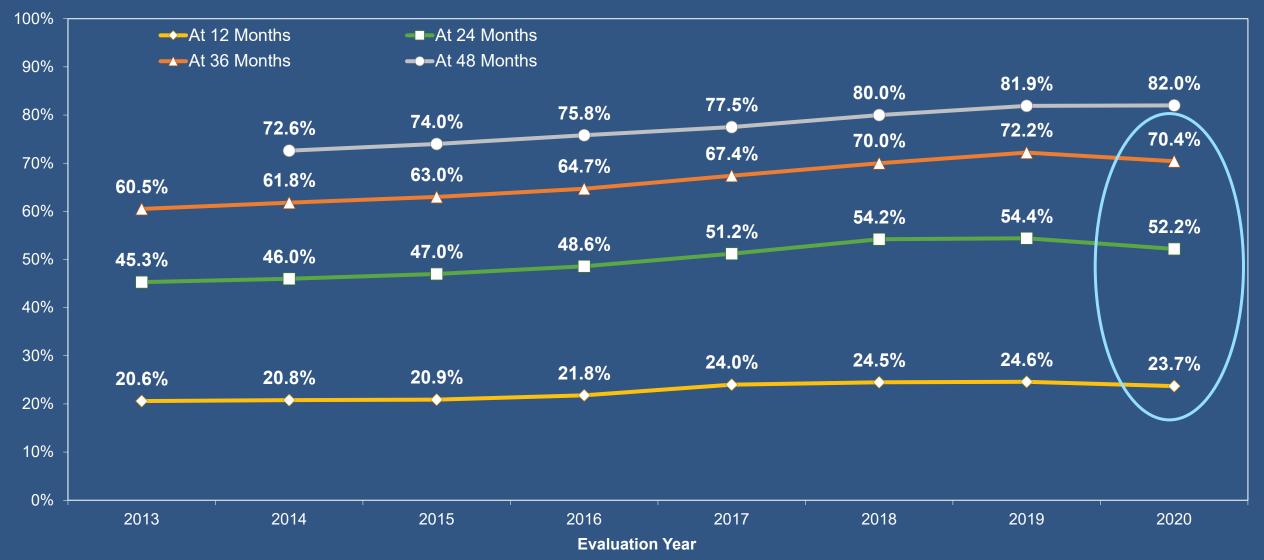


2017-18 2018-19 2019-20



Estimated Ultimate Indemnity Claim Settlement Ratios (Exhibit 7)

As of December 31, 2020

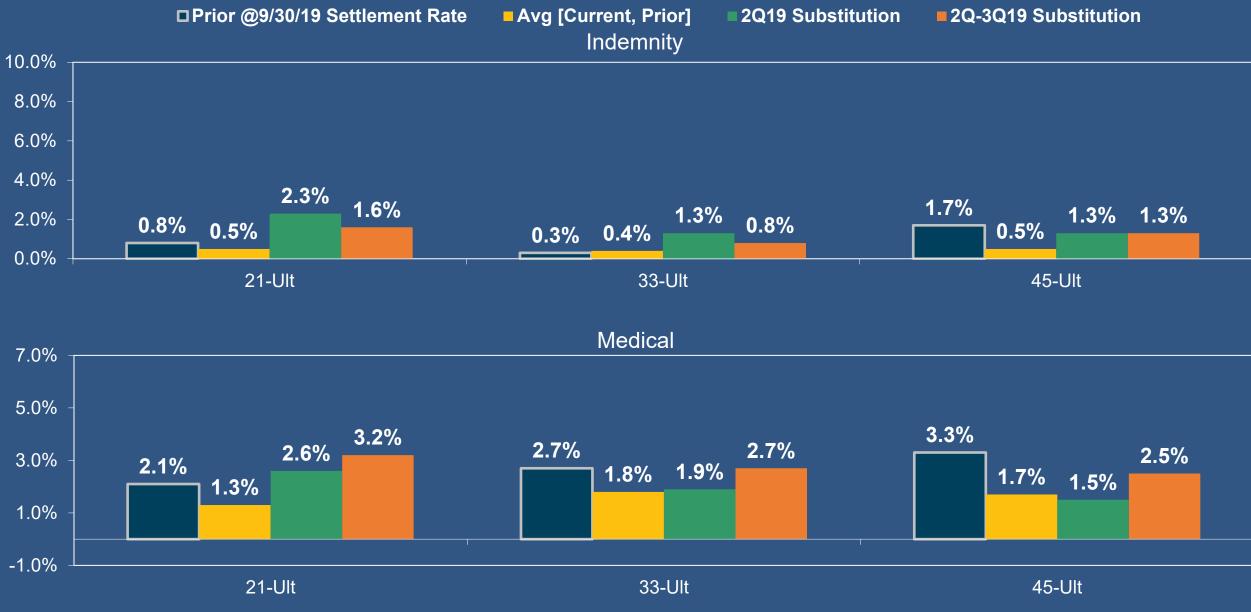






Impact Compared to Current CDF – After Reflecting Claim Settlement Adjustments (Exhibit 10.3)

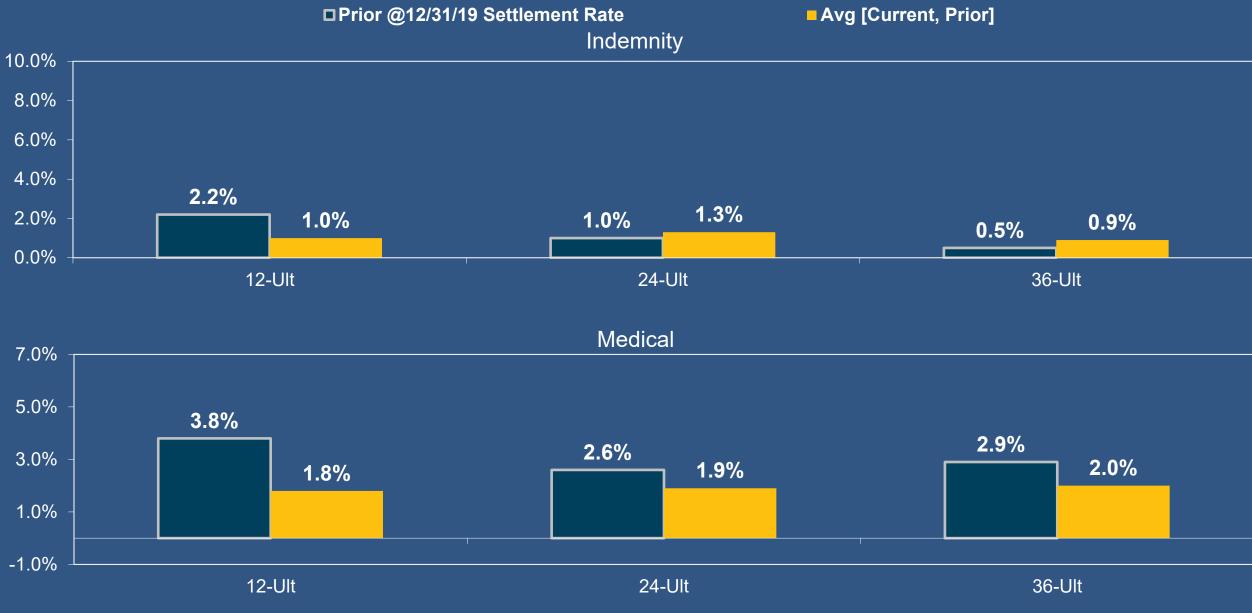
As of September 30, 2020





Impact Compared to Current CDF – After Reflecting Claim Settlement Adjustments – Updated with 4Q 2020 Experience

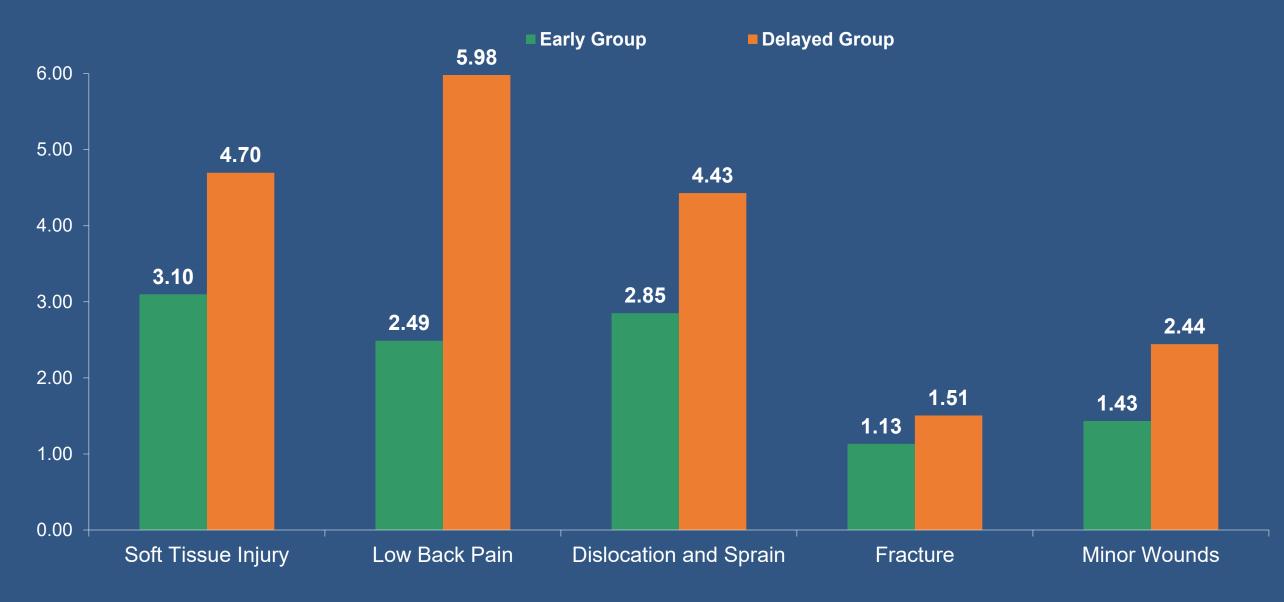
As of December 31, 2020





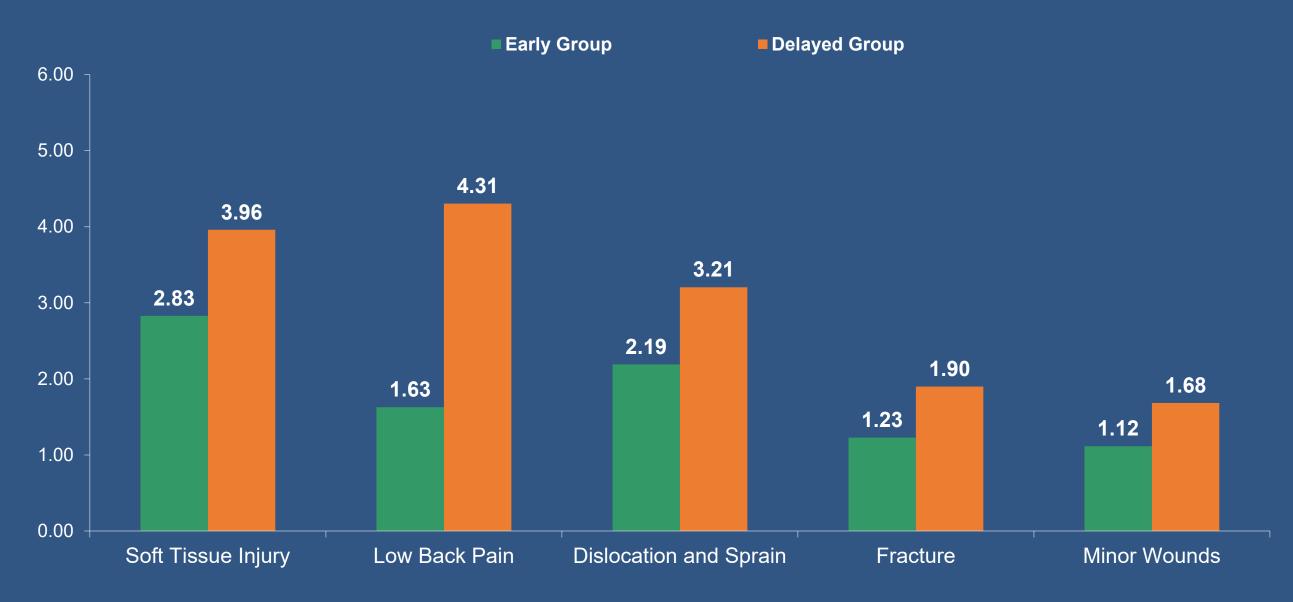
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Impact of Delays in Initial Treatment – Development of Median Paid Indemnity from 18 Months to 54 Months





Impact of Delays in Initial Treatment – Development of Median Paid Medical from 18 Months to 54 Months



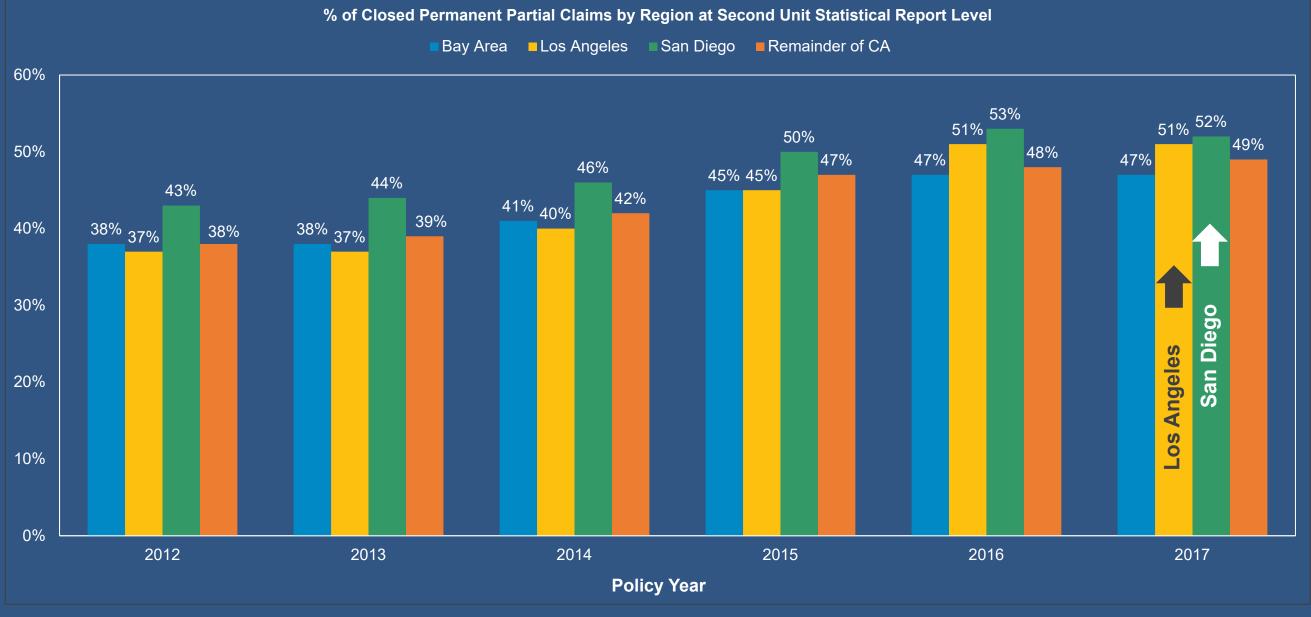


03

First Quarter 2021 Review of Diagnostics



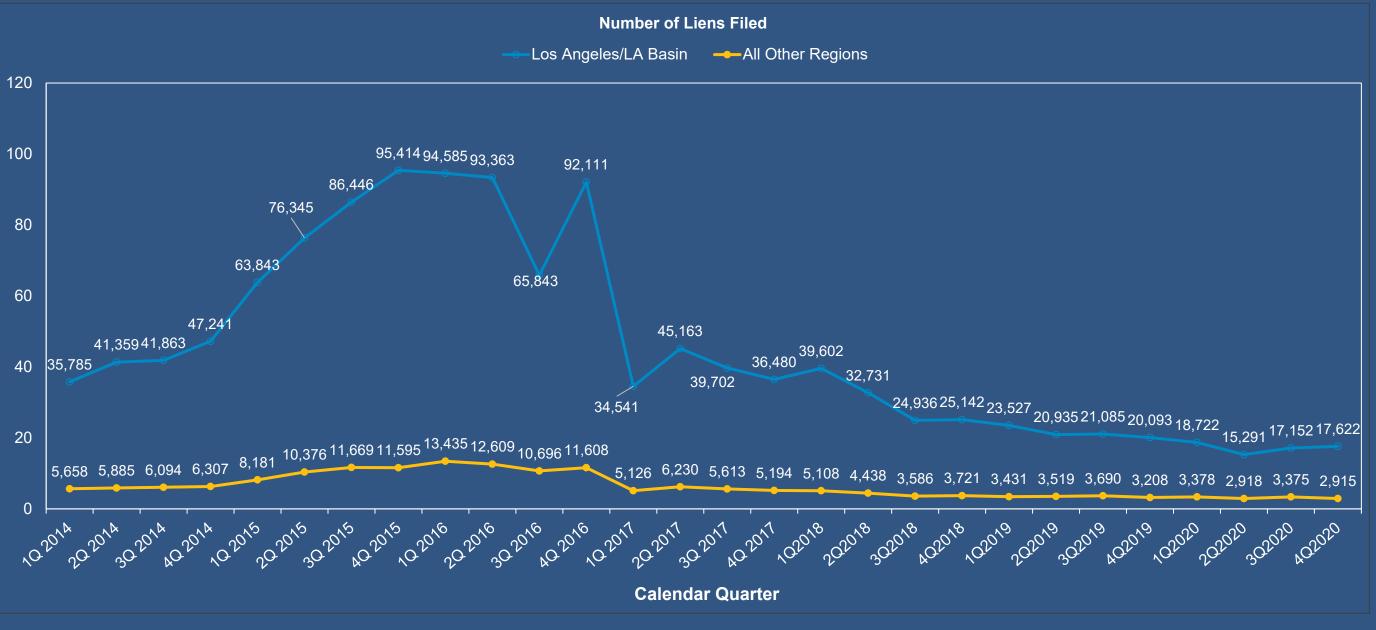
Percentage of PPD Claims Closed by Region (Exhibit M5)





31

Filed Lien Counts (Exhibit M9.2)

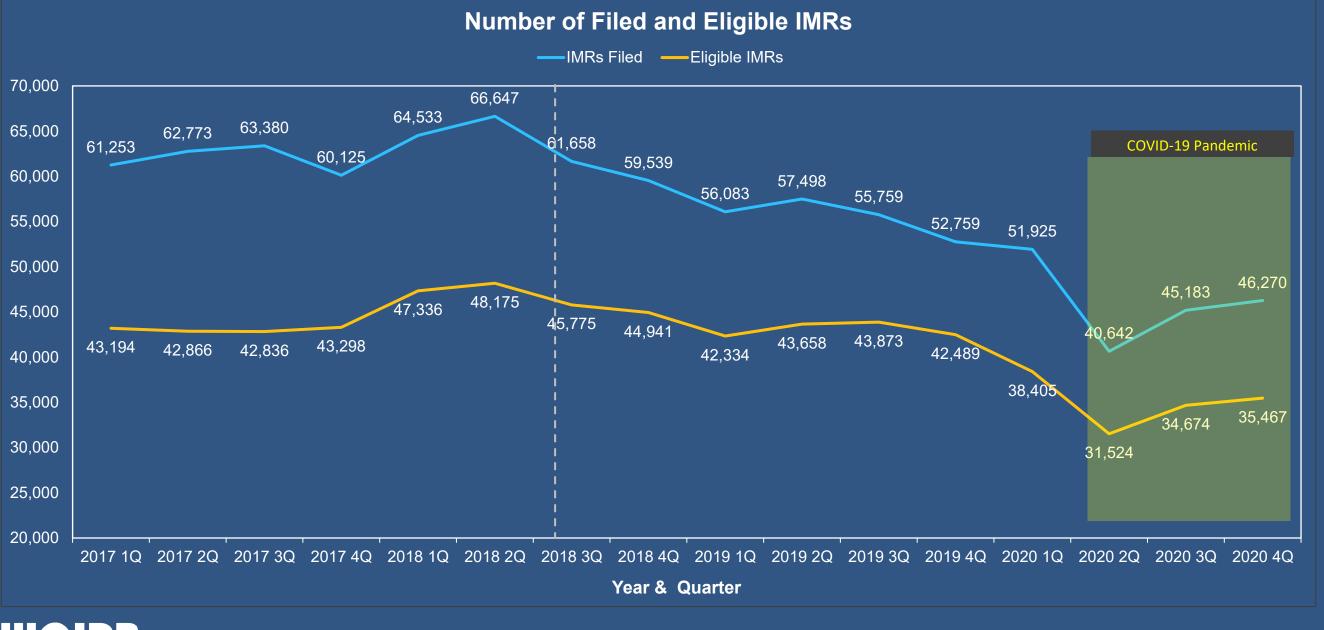




First Quarter 2021 Review of Diagnostics

Independent Medical Review (Exhibit M14)

Source: DWC

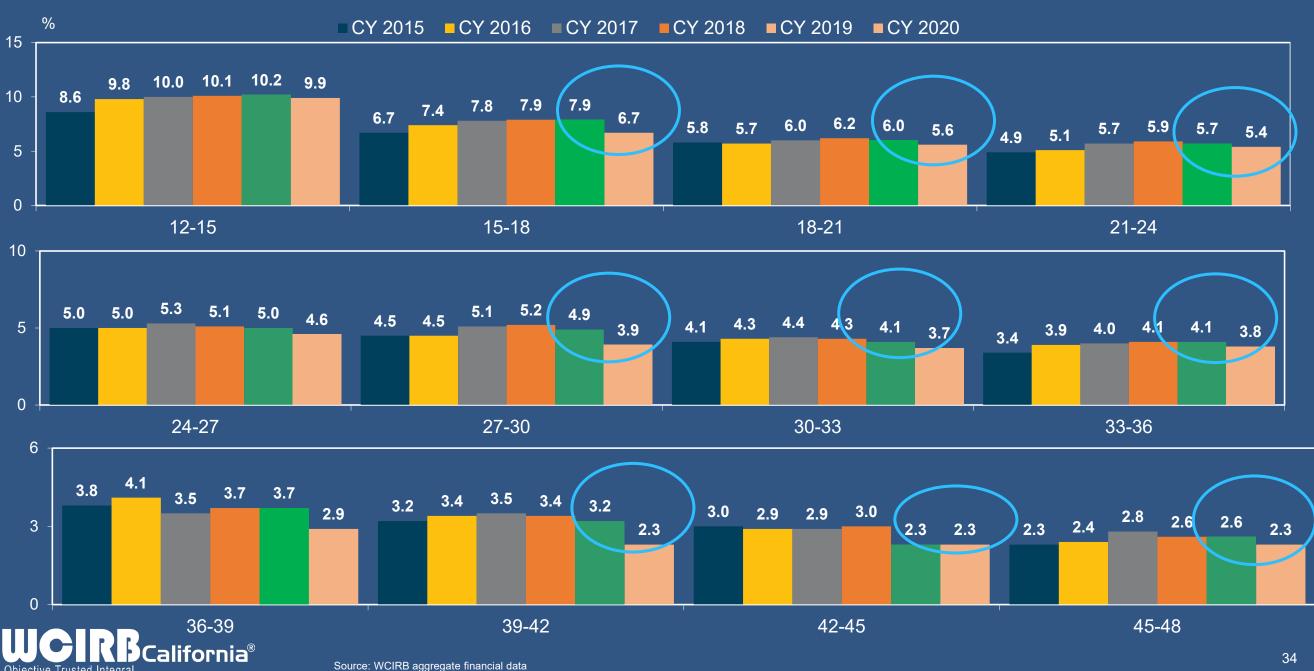




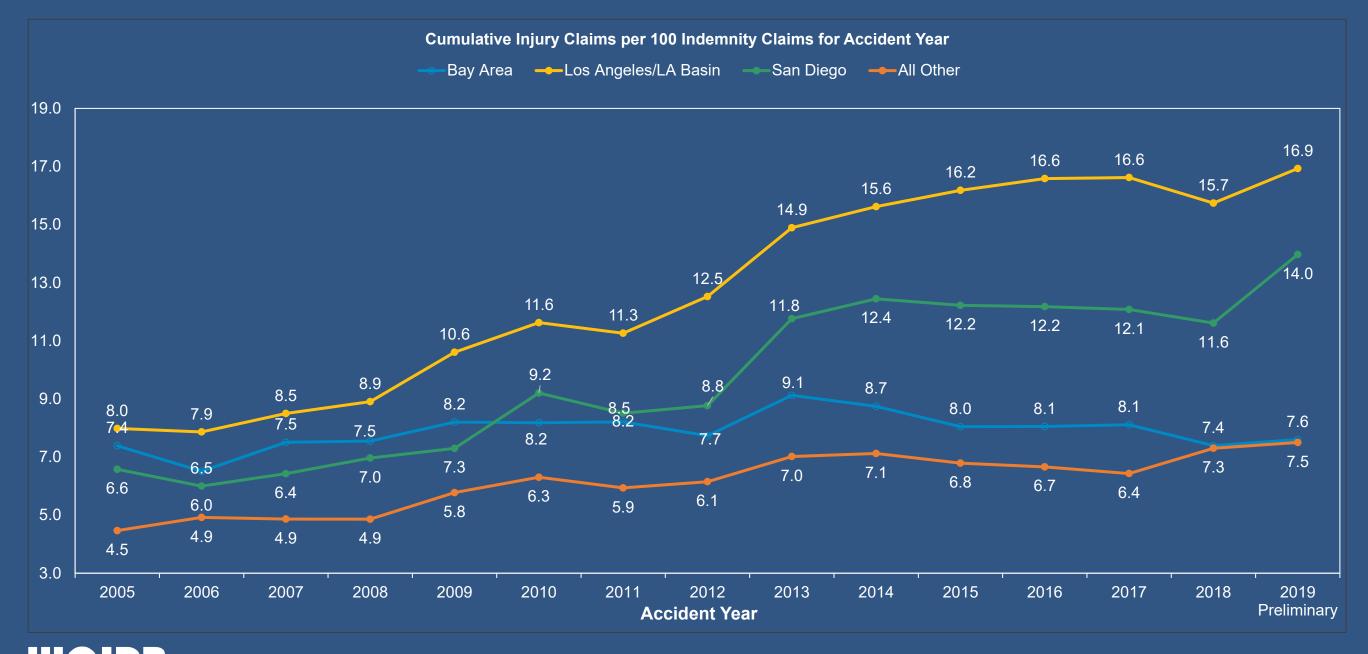
33

Quarterly Incremental Change in Claim Settlement Ratios

As of December 31, 2020

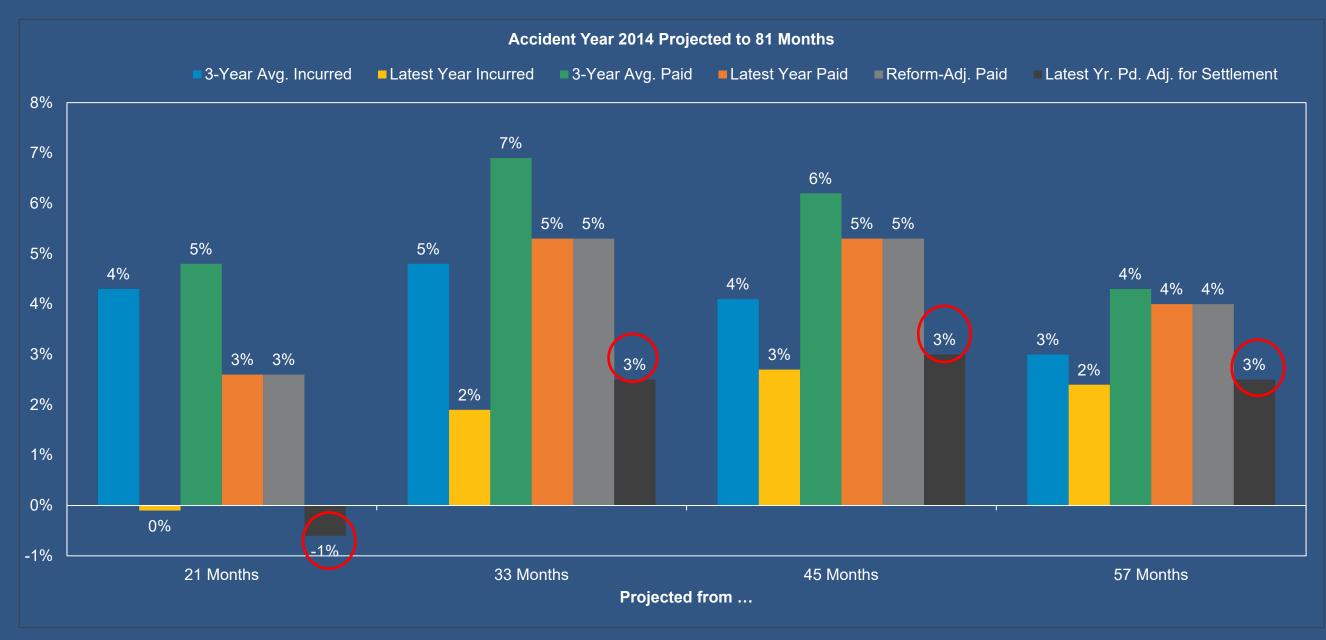


Claim Count Ratio by Region Based on USR at 1st Report Level (Exhibit C17)



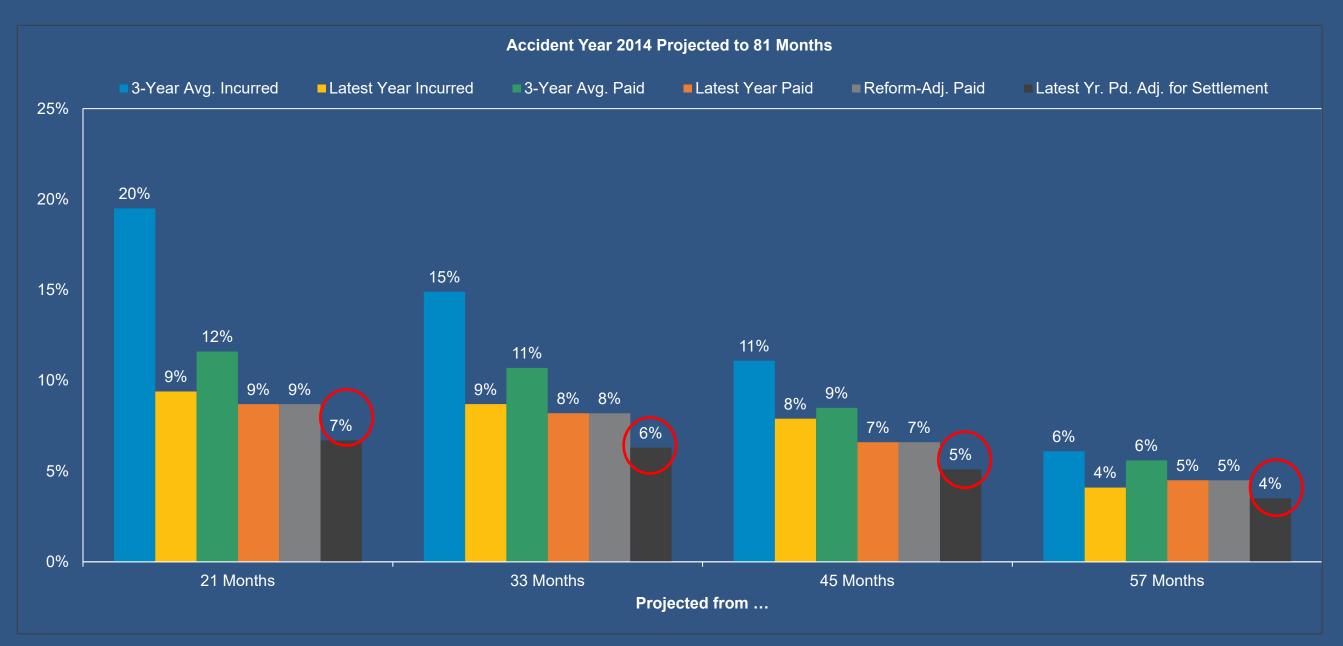
lifornia[®] Source: WCIRB unit statistical data First Quarter 2021 Review of Diagnostics

Comparison of Projected Loss Ratios – Indemnity (Exhibit D6.1)



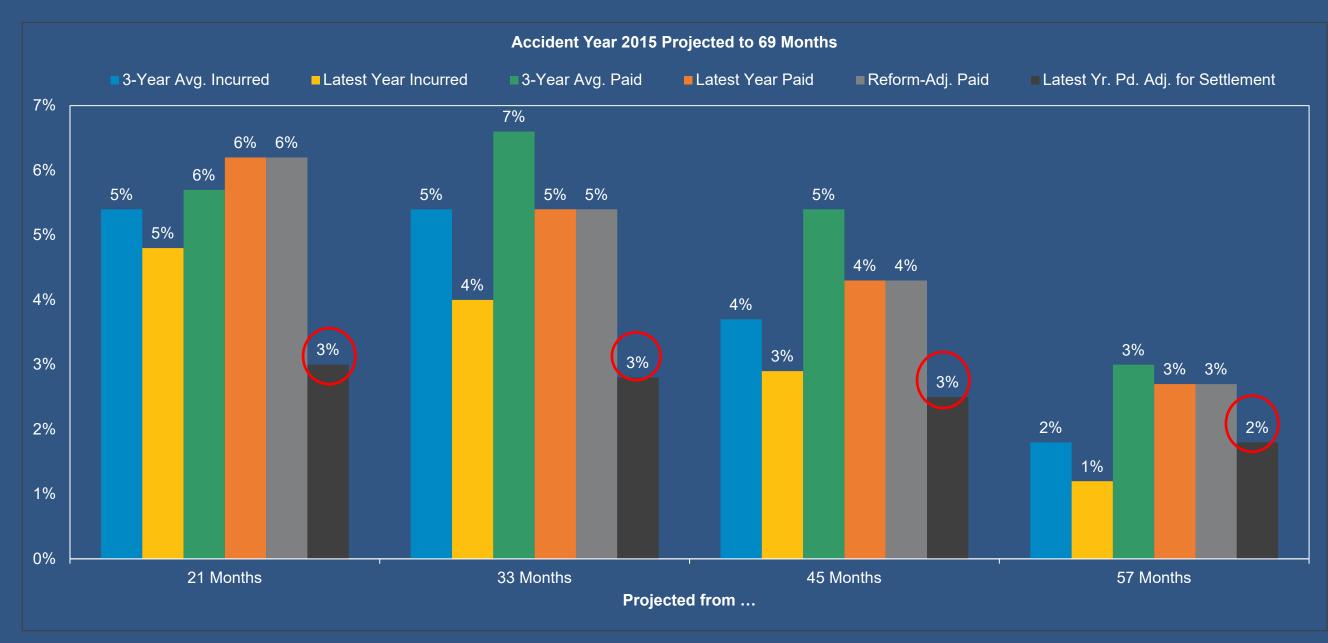


Comparison of Projected Loss Ratios – Medical (Exhibit D6.1)



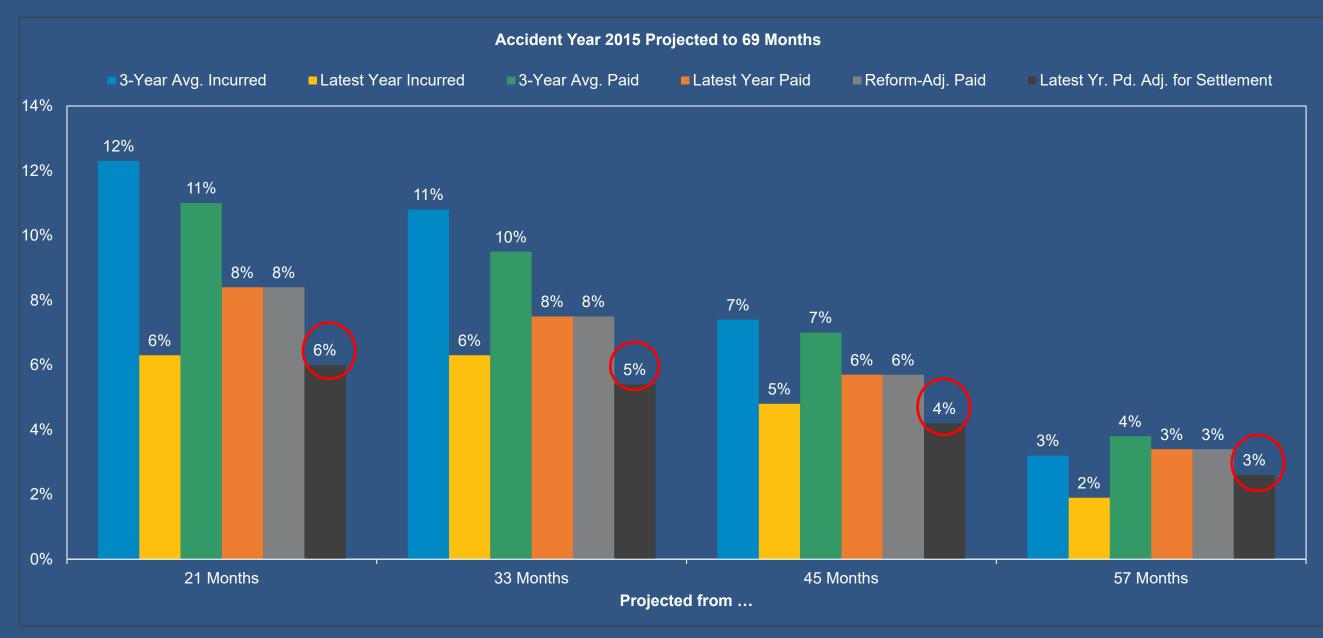


Comparison of Projected Loss Ratios – Indemnity (Exhibit D6.2)



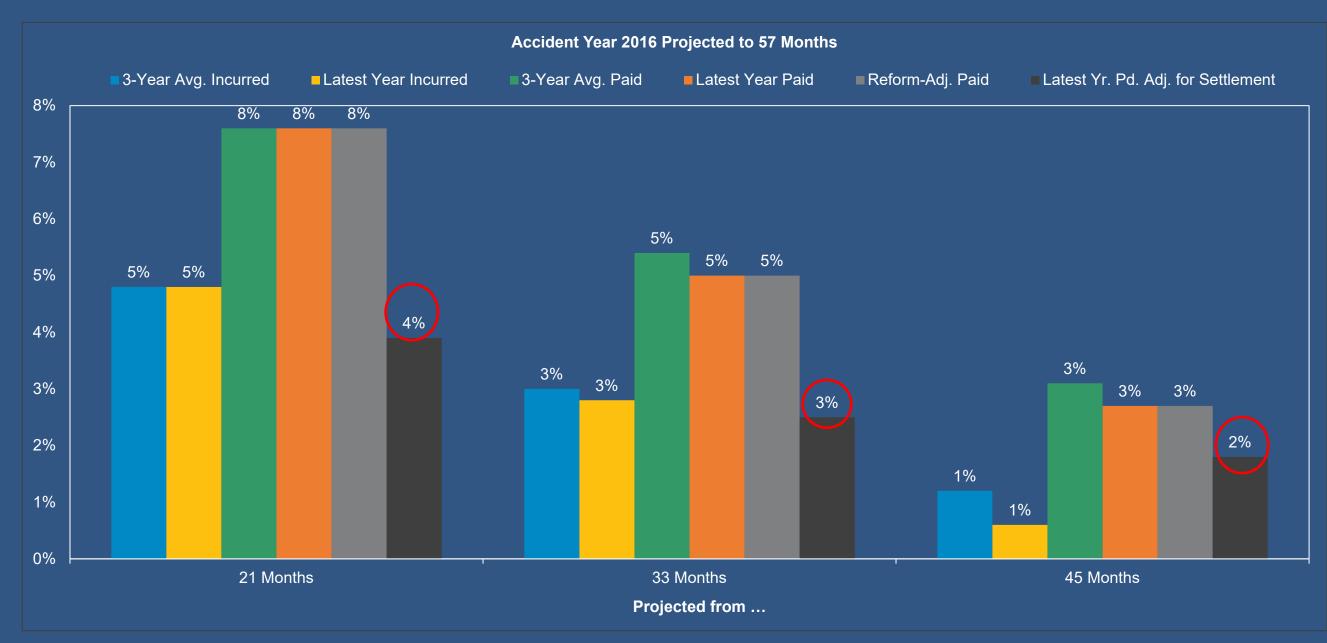


Comparison of Projected Loss Ratios – Medical (Exhibit D6.2)





Comparison of Projected Loss Ratios – Indemnity (Exhibit D6.3)

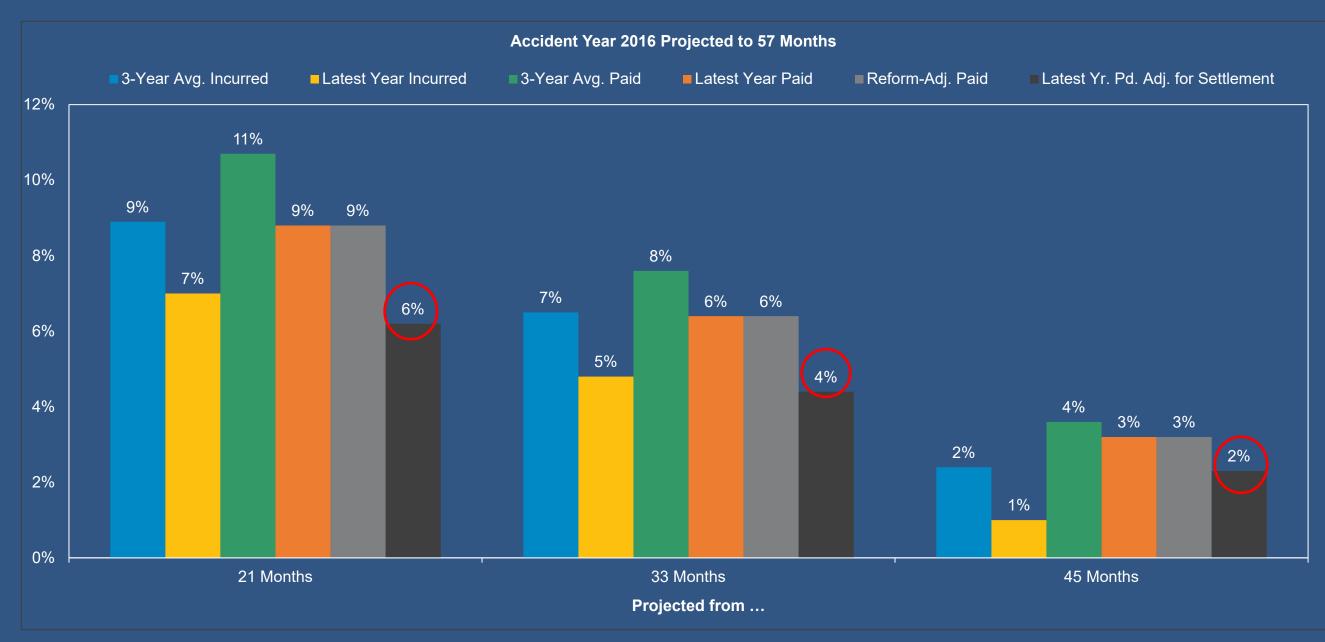


Source: WCIRB aggregate financial data



Comparison of Projected Loss Ratios – Medical (Exhibit D6.3)

Source: WCIRB aggregate financial data





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Large Claims (Exhibit S16.3)

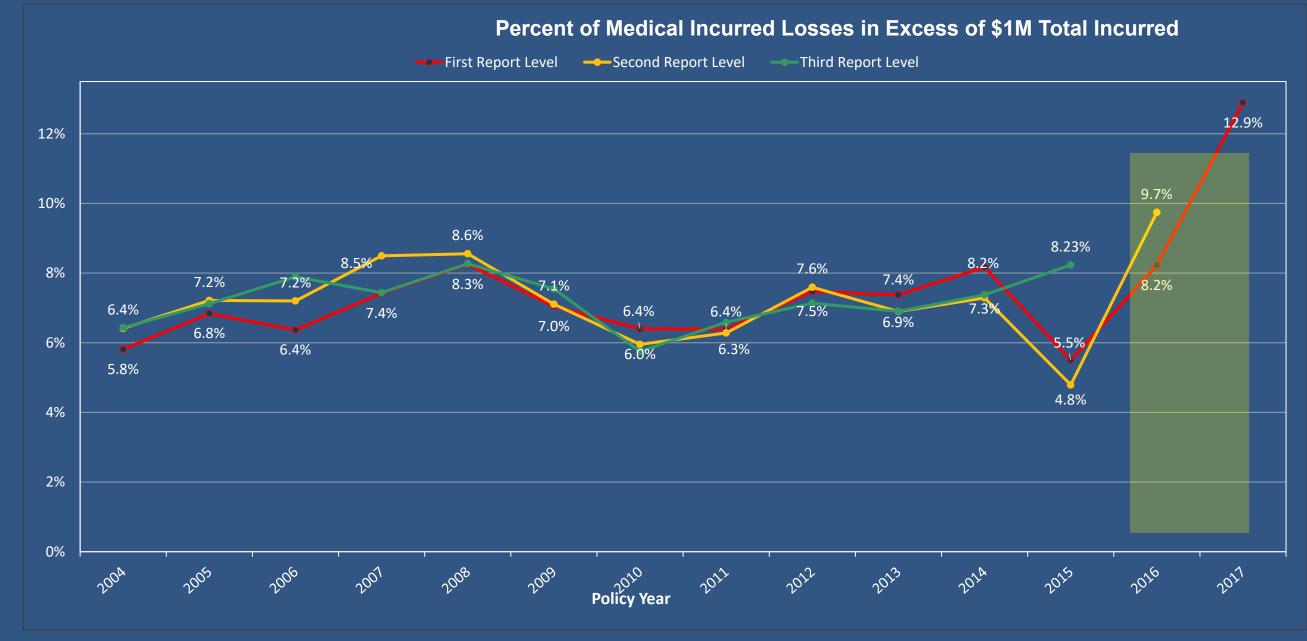
Percent of Claims in Excess of \$1M Total Incurred

----First Report Level ----Third Report Level



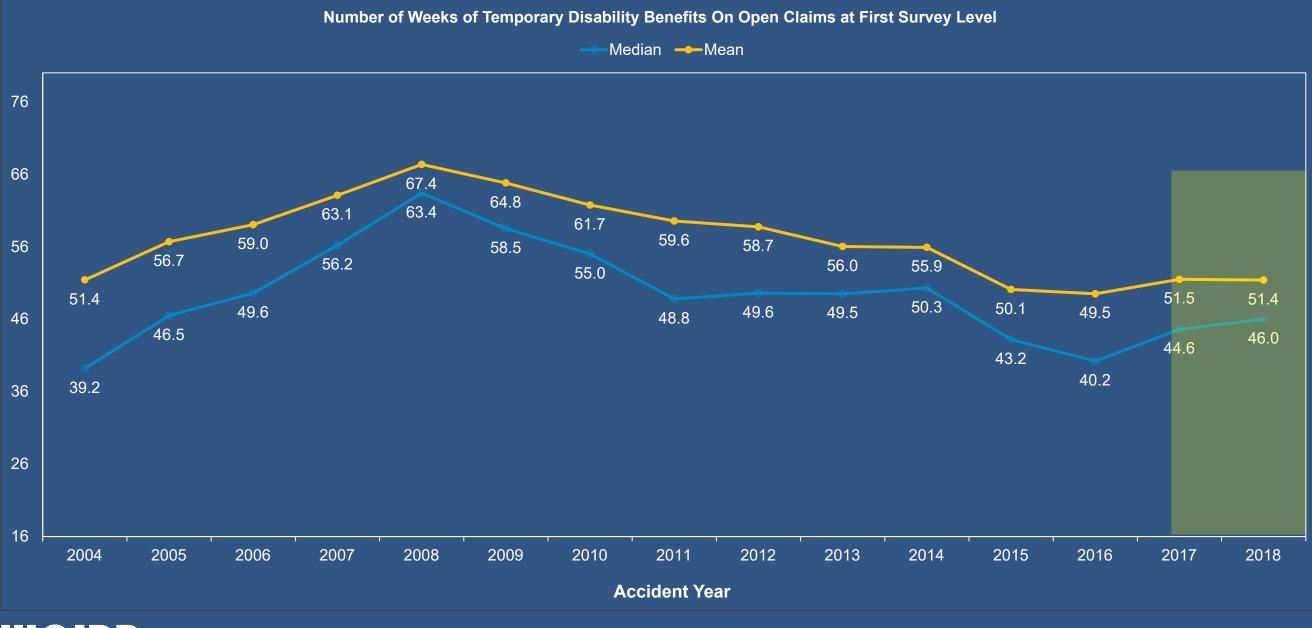


Large Claims (Exhibit S16.3)





Temporary Disability Duration on Permanent Disability Claims (Exhibit S10 Updated)

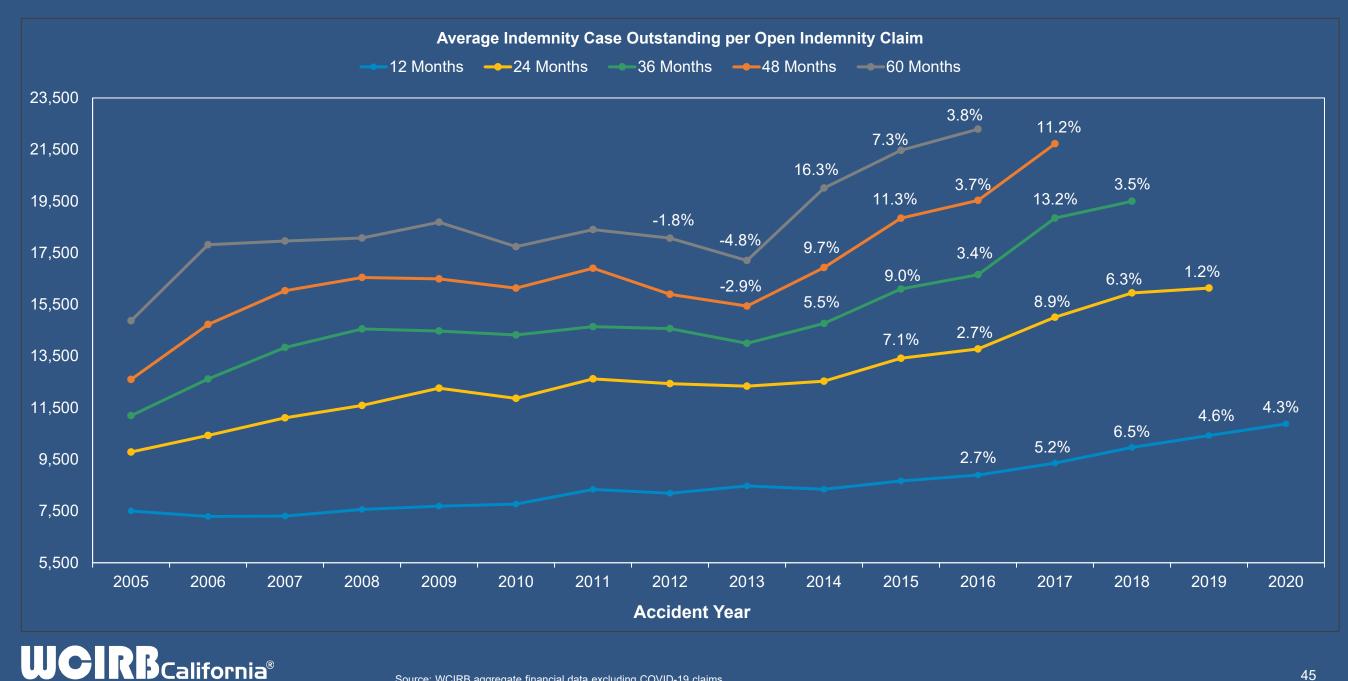


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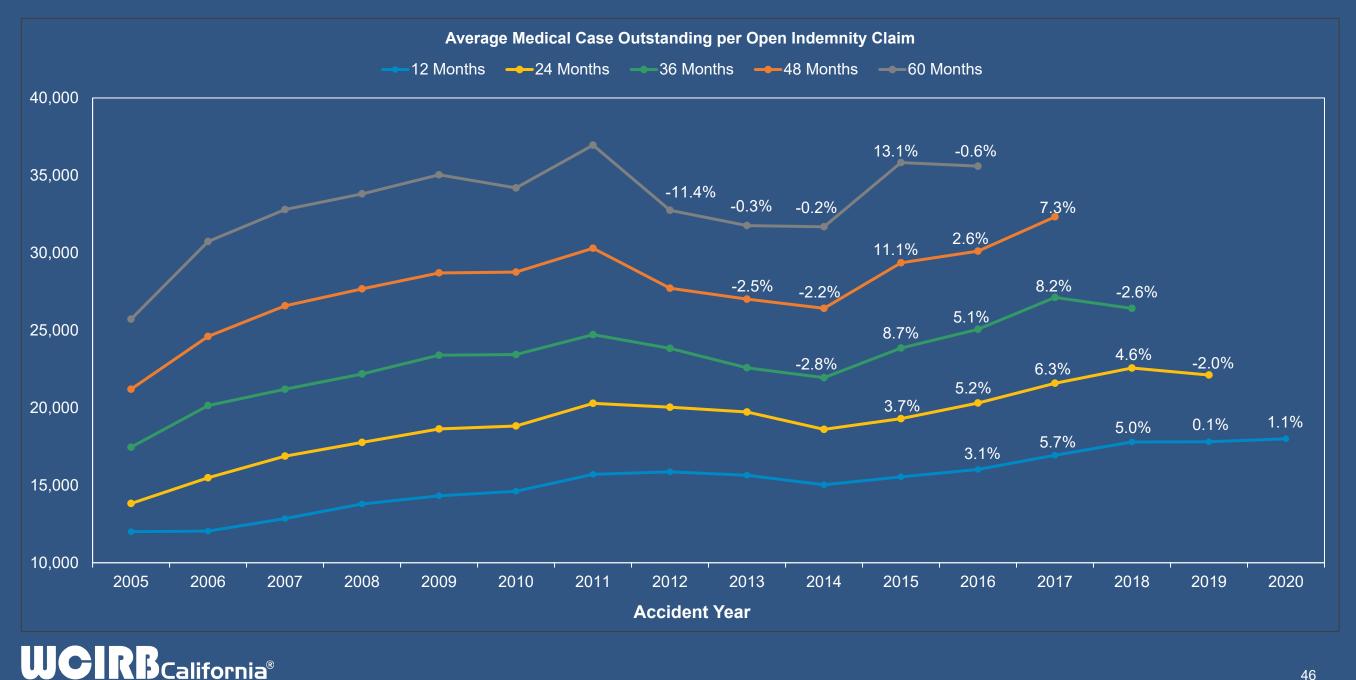
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Third Quarter 2020 Review of Diagnostics

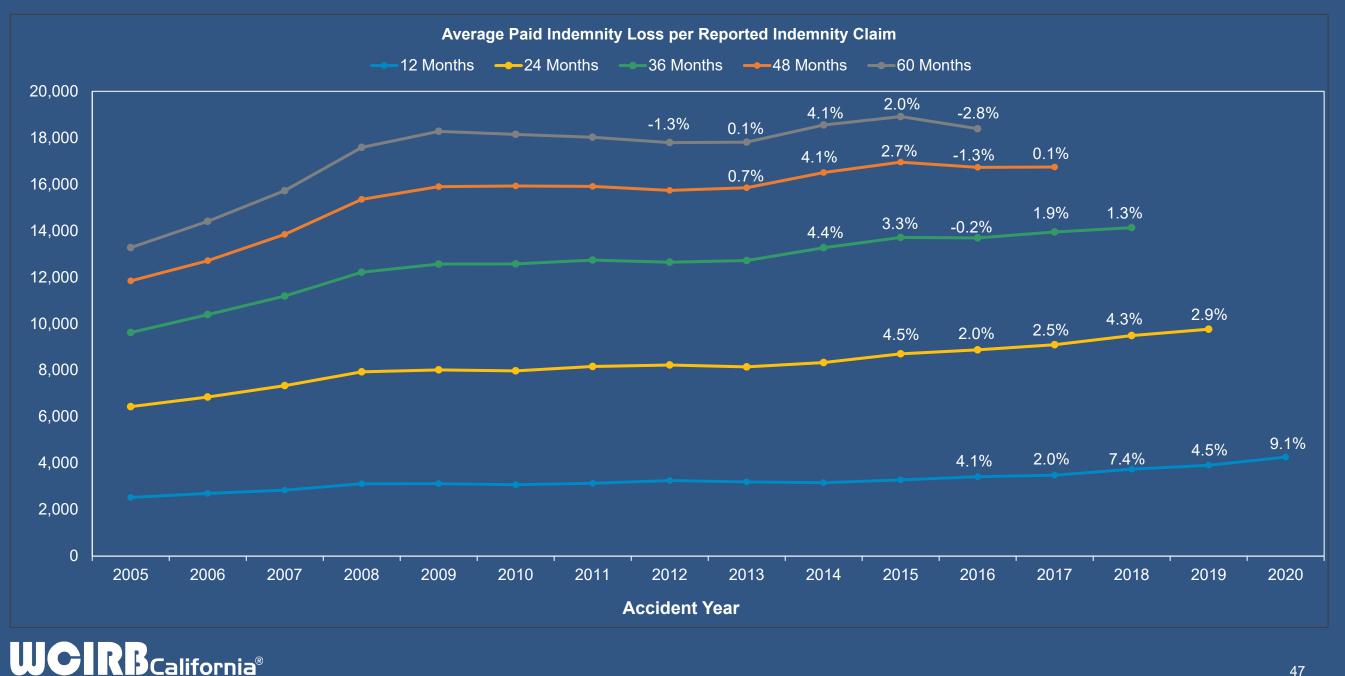
Severity – Indemnity Case Outstanding per Open Indemnity Claim (Exhibit S3.1 Updated)



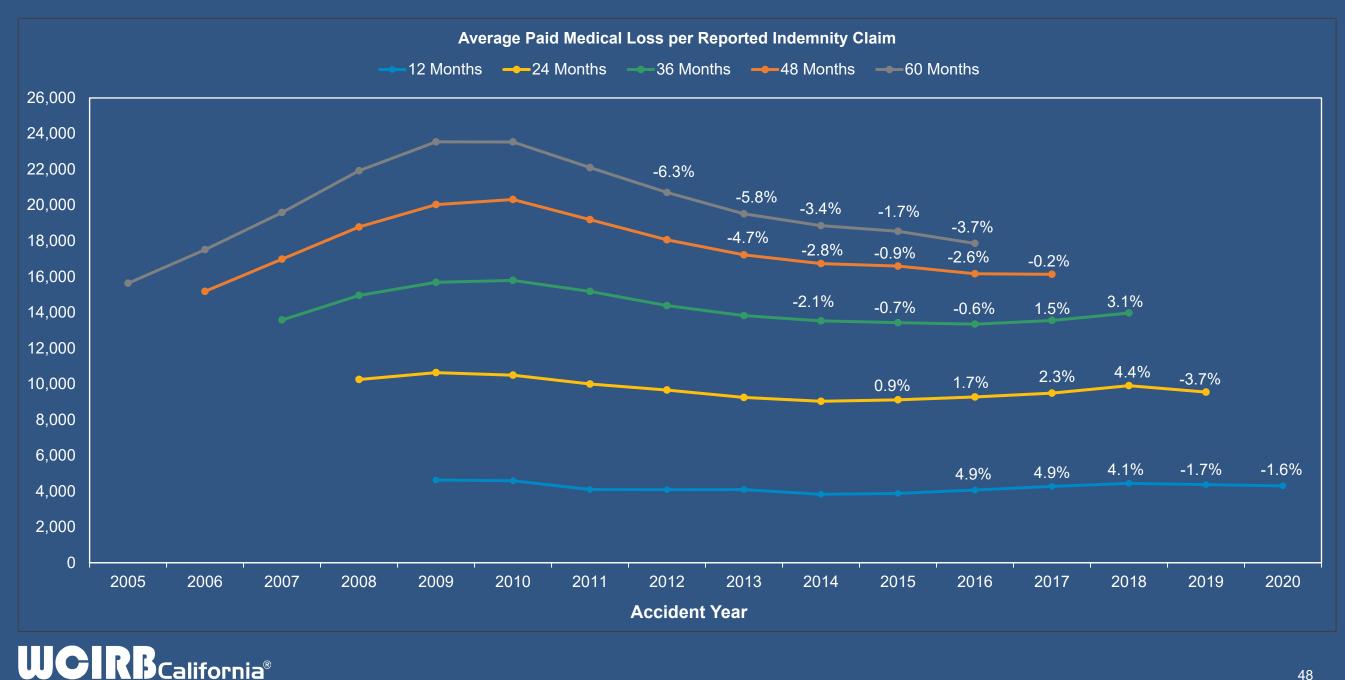
Severity – Medical Case Outstanding per Open Indemnity Claim (Exhibit S3.2 Updated)



Severity – Paid Indemnity per Indemnity Claim (Exhibit S4.1 Updated)

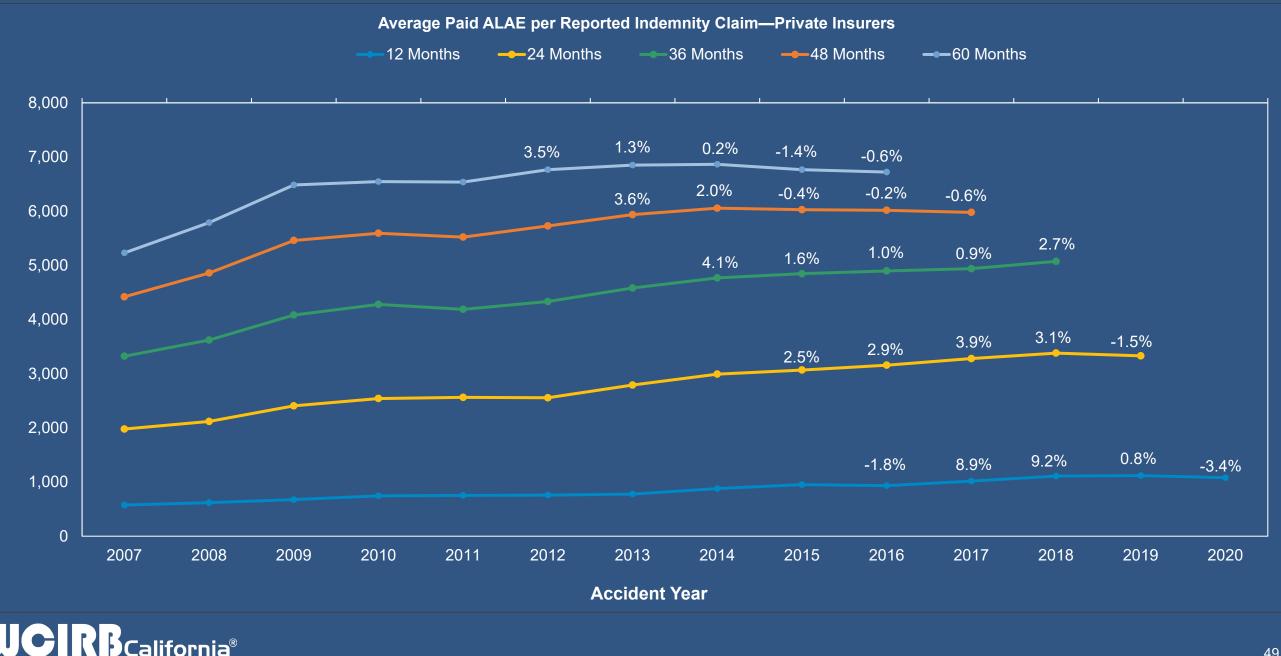


Severity – Paid Medical per Indemnity Claim (Exhibit S4.2 Updated)

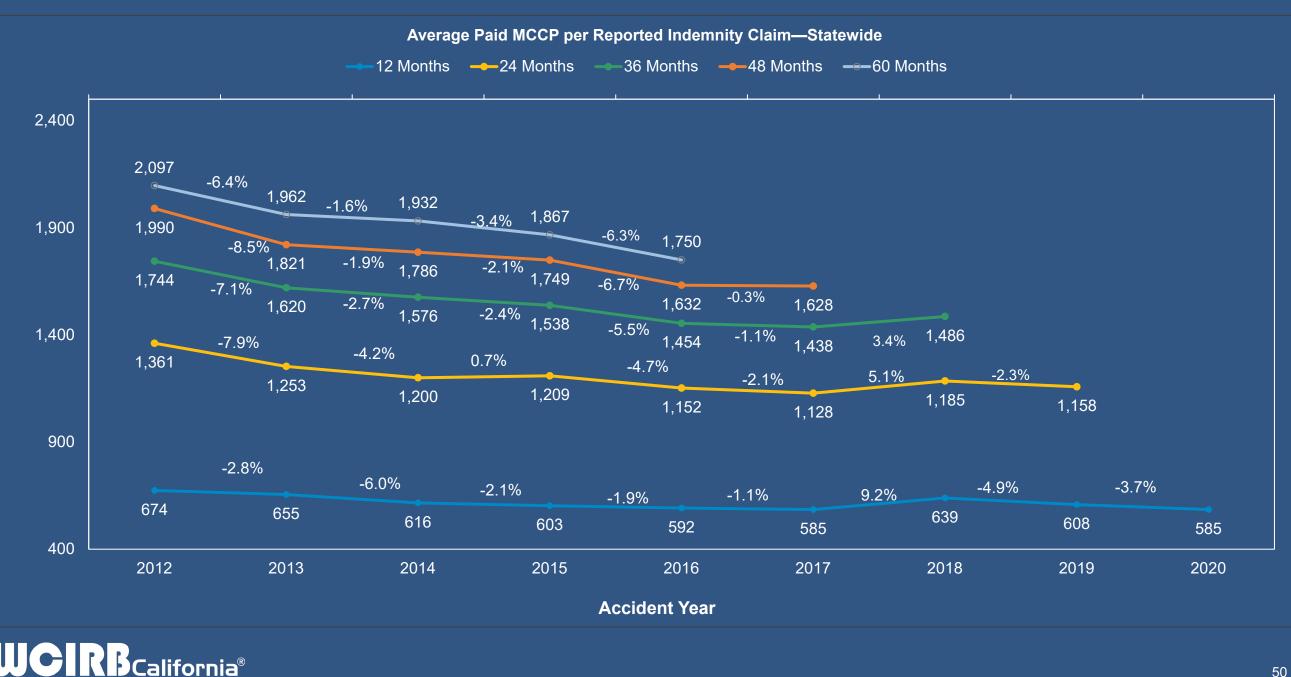


Paid ALAE per Indemnity Claim – Private Insurers (Exhibit E5 updated)

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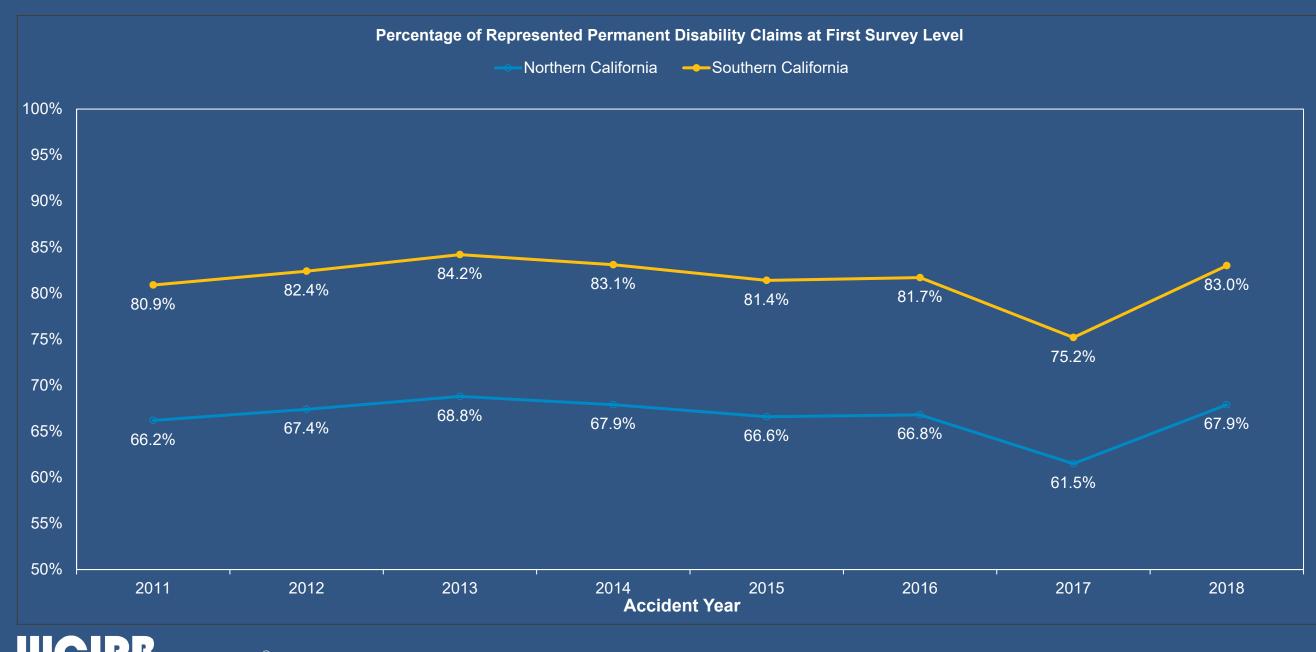


Paid MCCP per Indemnity Claim – Statewide (Exhibit E15)



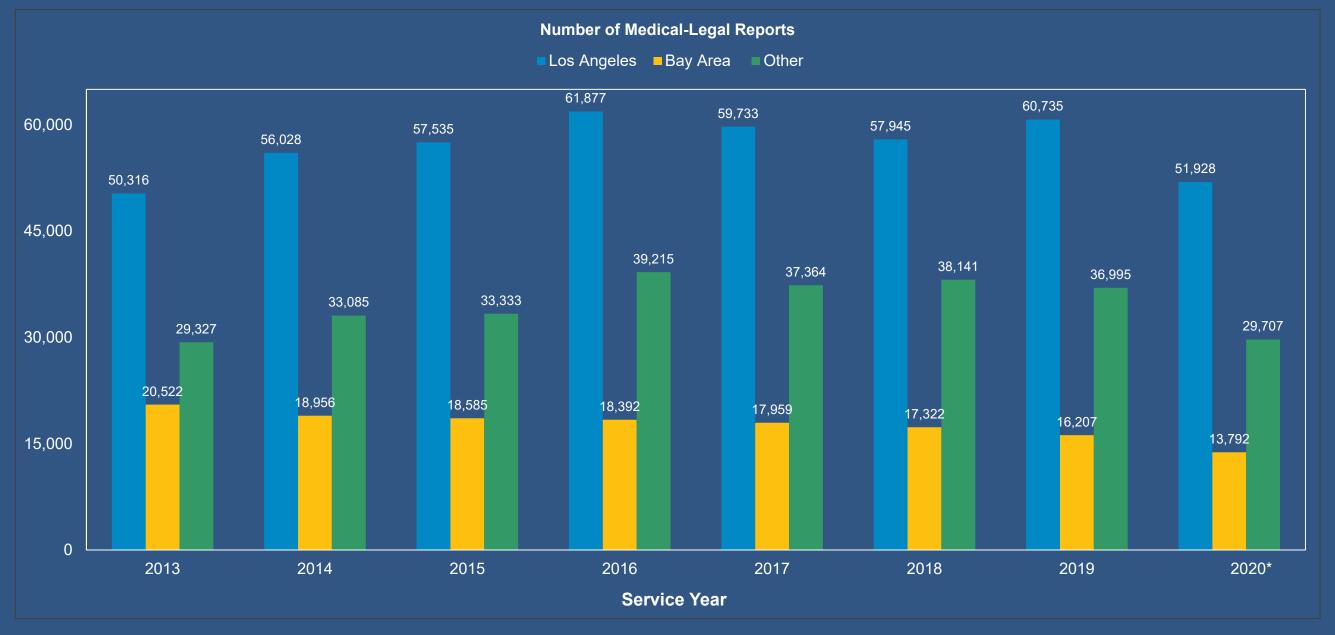
First Quarter 2021 Review of Diagnostics

Represented Permanent Disability Claims (Exhibit E7)



California[®] Source: V

Medical-Legal Reports – Number of Medical Legal Reports (Exhibit E13.1)

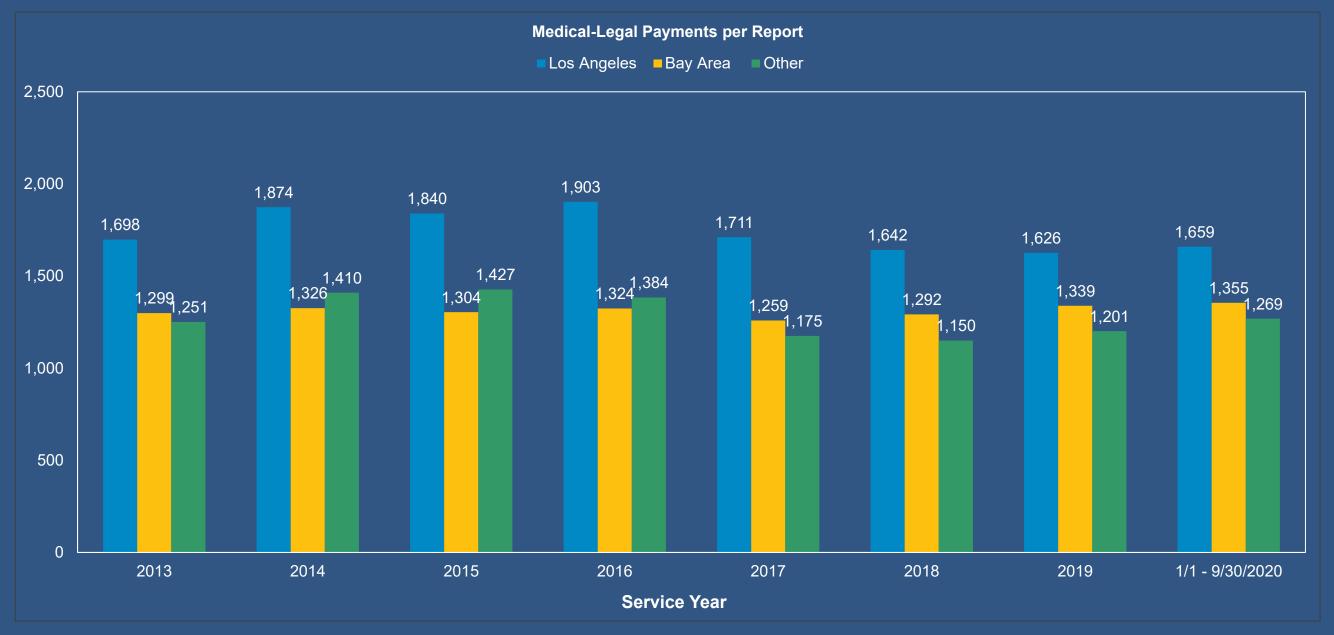


S* - Estimated based on data reported through September 30, 2020.



Source: WCIRB medical transaction data

Medical-Legal Reports – Payment per Report (Exhibit E13.3)





First Quarter 2021 Review of Diagnostics

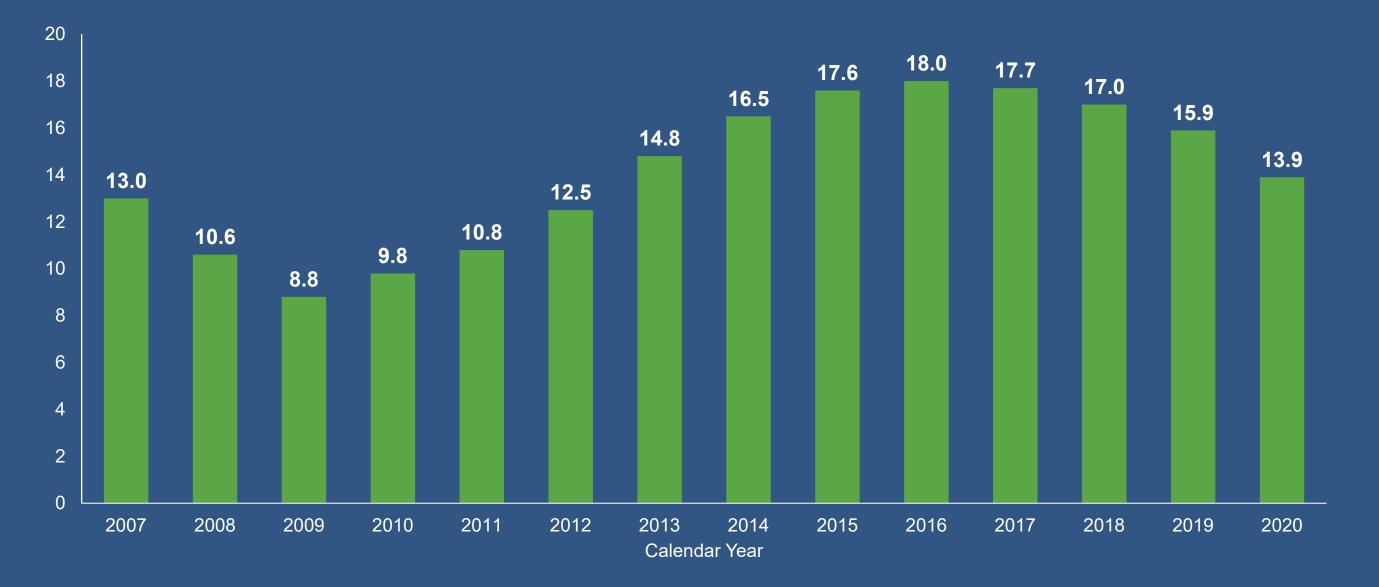
04

Pandemic Impact on Premium Measures



Insurer Written Premium (in \$Billions)

As of December 31, 2020

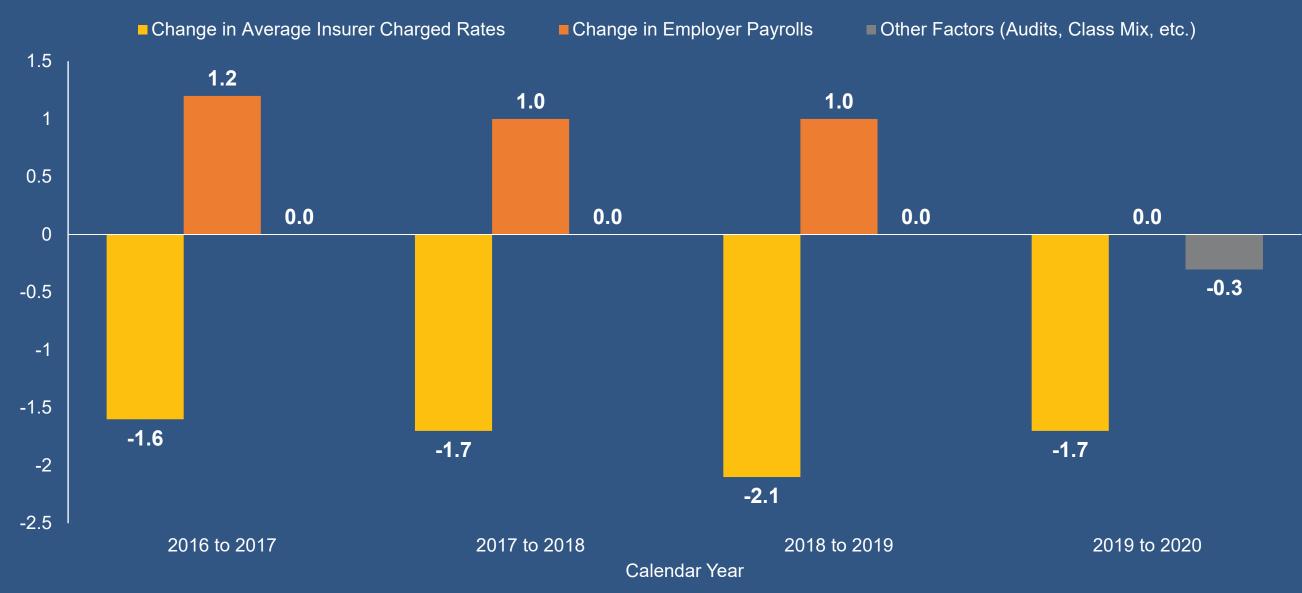




Source: WCIRB aggregate financial data

Drivers of Written Premium Changes (in \$Billions)

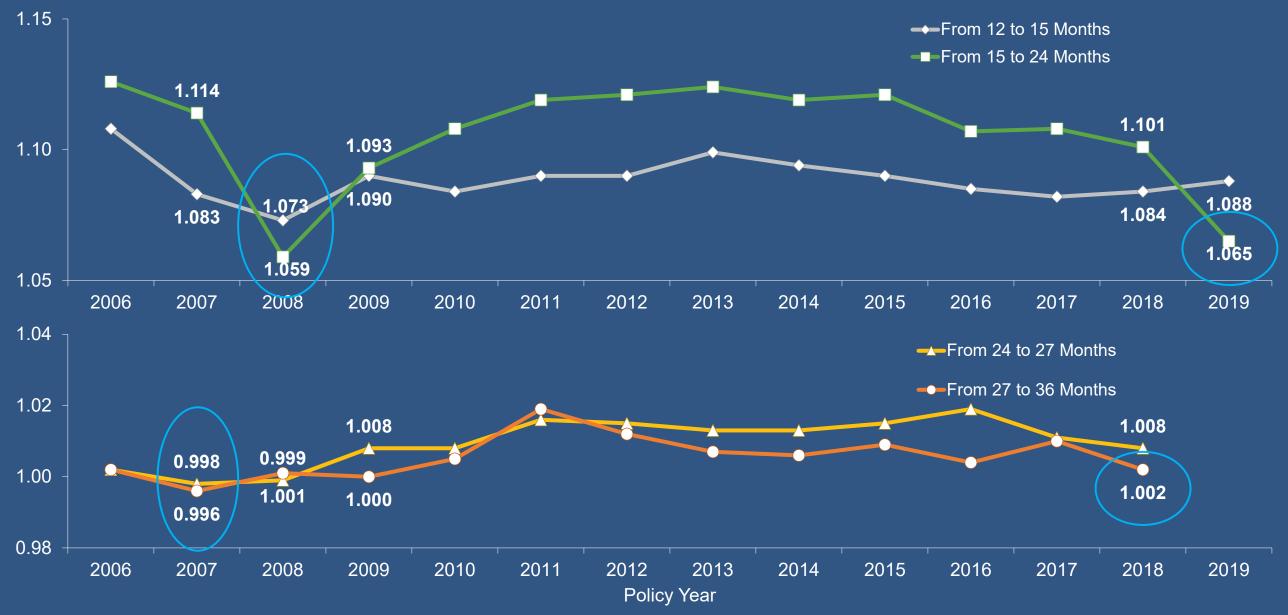
As of December 31, 2020





Development of Insurer Written Premium (Exhibit 1)

As of December 31, 2020





Development of Insurer Earned Premium (Exhibit 2)

As of December 31, 2020

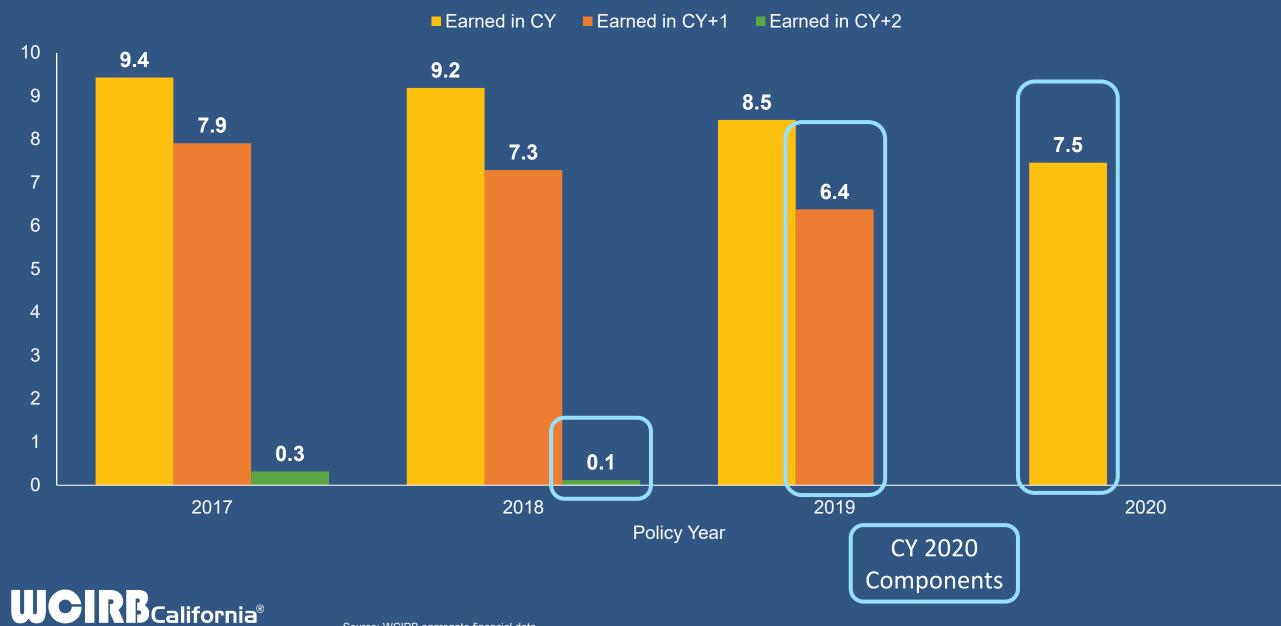




Source: WCIRB aggregate financial data

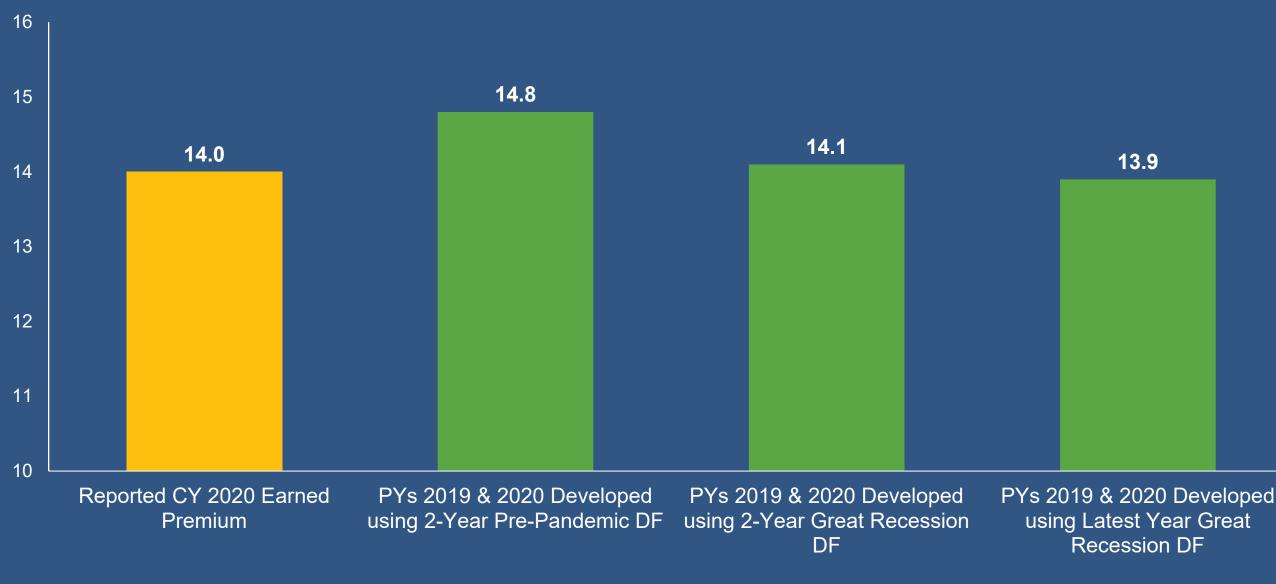
Insurer Earned Premium Policy Year Comparison (in \$Billions)

As of December 31, 2020



Alternative Projections of AY 2020 Premium Base (in \$Billions)

As of December 31, 2020



Pandemic Impact on Premium Measures



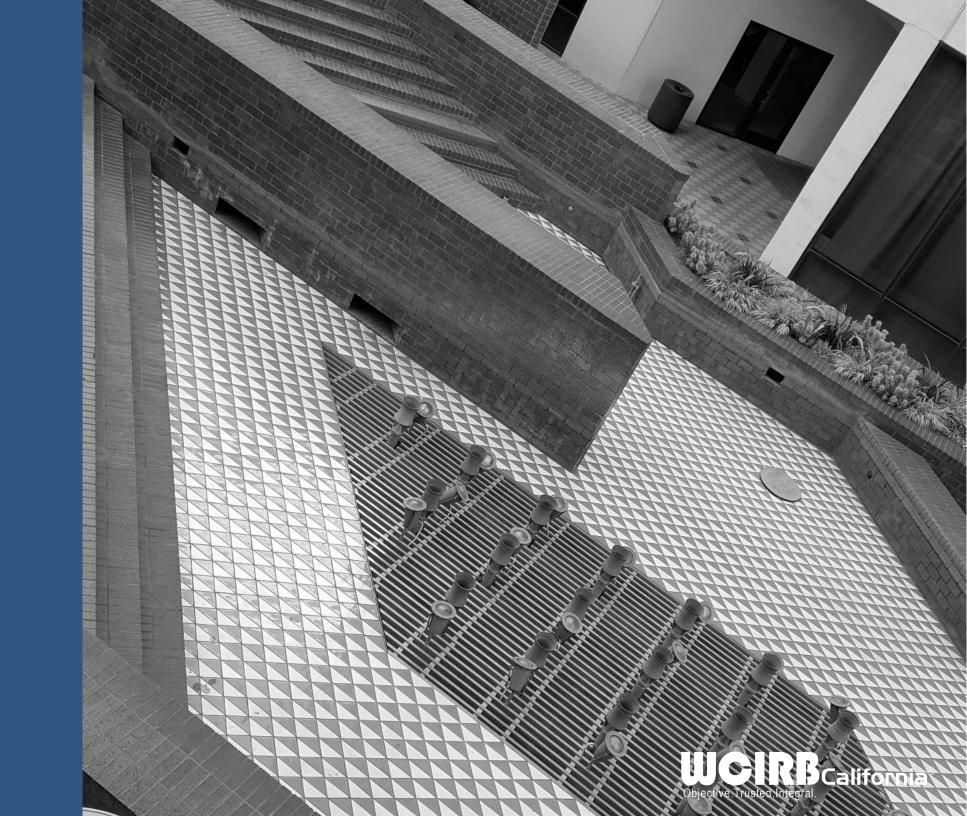
Summary

- Adjustment to premium amounts similar to Great Recession approach is challenging
 - Adjustment was made in hindsight (in 2011 during recovery period)
 - Great Recession was more gradual; 2020 downturn more sudden
- Calendar year 2020 earned premium already reflects some impact of the economic downturn
 - Insurance Commissioner directed insurers to return premiums for reduced risk during SIP period
 - Low PY 2019 development in CY 2020 was due to reduced exposure in CY 2020
 - Alternative bases using Great Recession development result in similar EP amounts to reported
- Projections for 2020 include several other issues (wage level adjustments, claim frequency, COVID claims, etc.)





12/31/2020 Experience Review



Preliminary Summary of 12/31/2020 Experience (Excluding COVID-19)

- 98% of market included
- 12/31/2020 experience summary
 - Paid and incurred development more consistent with longer-term trends
 - Claim settlement rates on AY 2018 and 2019 continuing to slow
- Areas to address for 9/1/2021 Filing (ex-COVID)
 - Development of 2020 and prior AYs (impact of treatment delays)
 - Economic changes impacting wage level and claim frequency
 - Premium measures as a basis for AY 2020
 - Frequency trend projections
 - Severity trend projections
 - AY 2020 as a basis for 9/1/2021 loss ratio projection
 - New medical-legal fee schedule



Cumulative Incurred Development from 12 to 108 Months

As of December 31, 2020





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Cumulative Paid Development from 12 to 108 Months

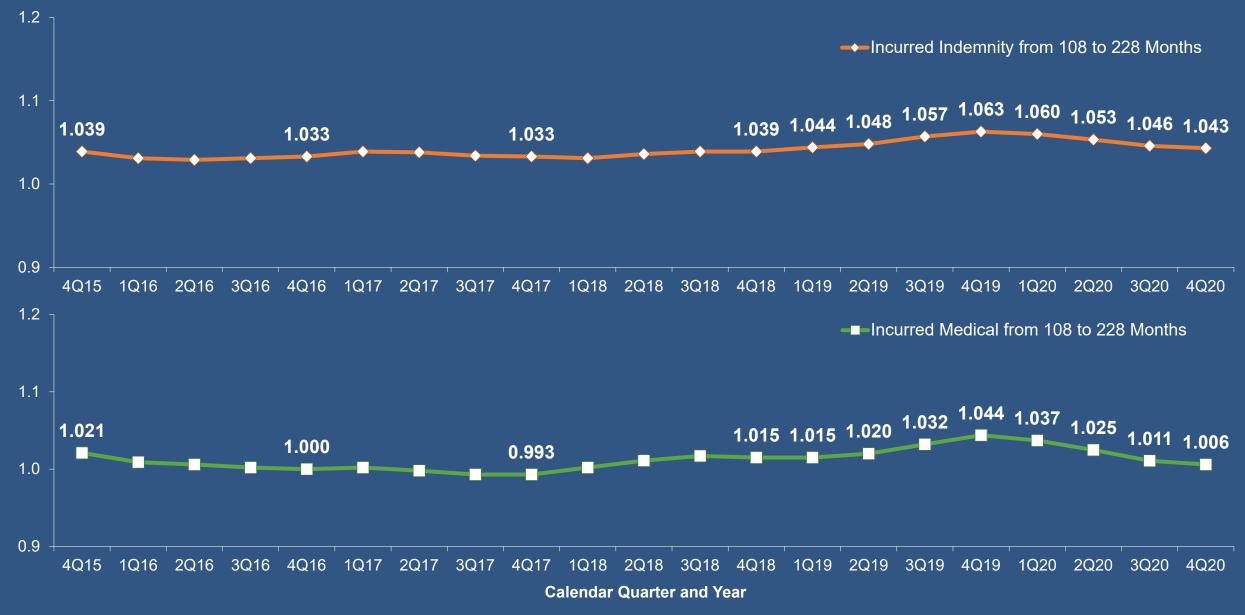
As of December 31, 2020





Cumulative Incurred Development from 108 to 228 Months

As of December 31, 2020

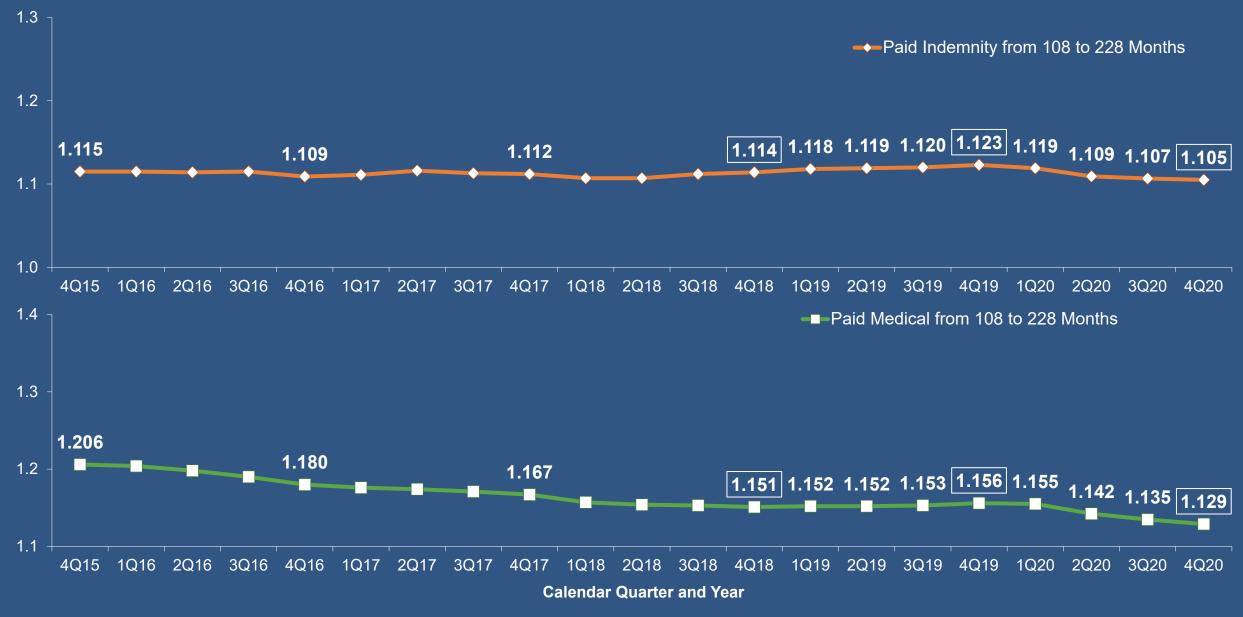




66

Cumulative Paid Development from 108 to 228 Months

As of December 31, 2020

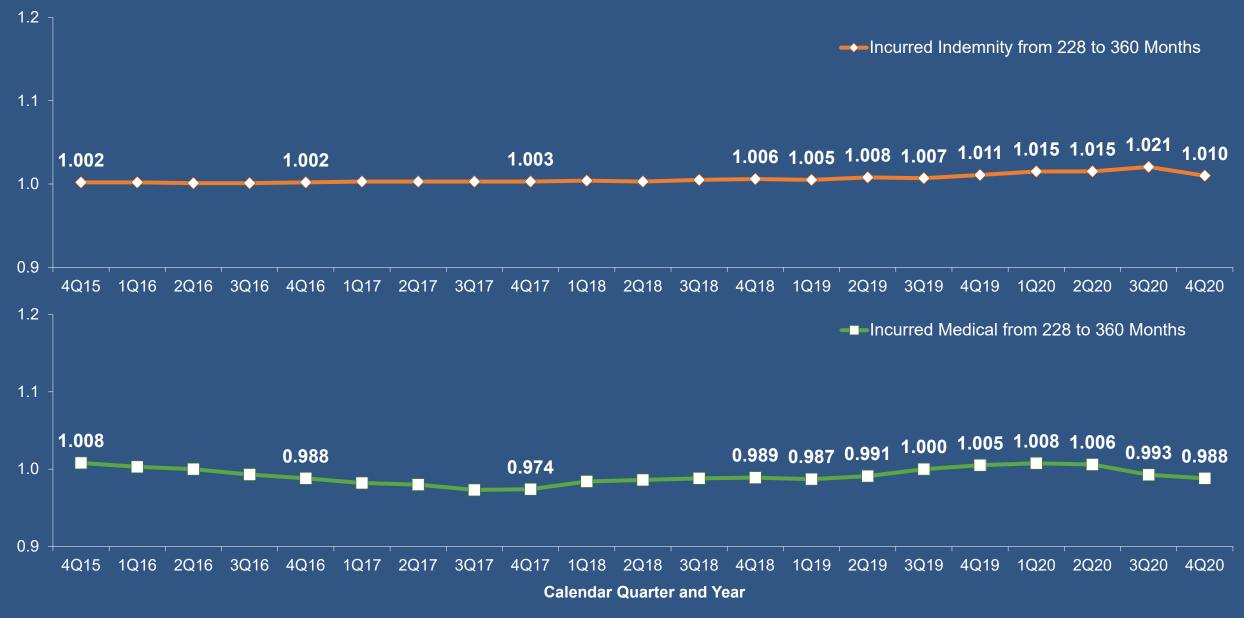




67

Cumulative Incurred Development from 228 to 360 Months

As of December 31, 2020





68

12/31/2020 Experience Review

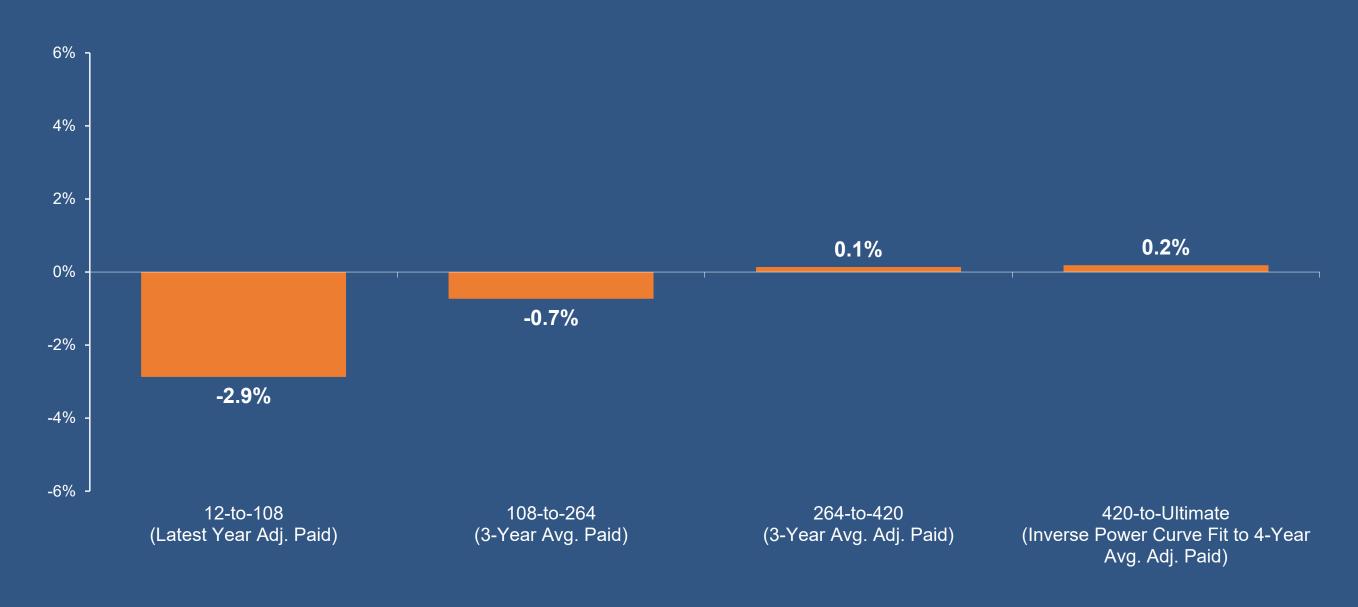
Cumulative Paid Development from 228 to 360 Months

As of December 31, 2020





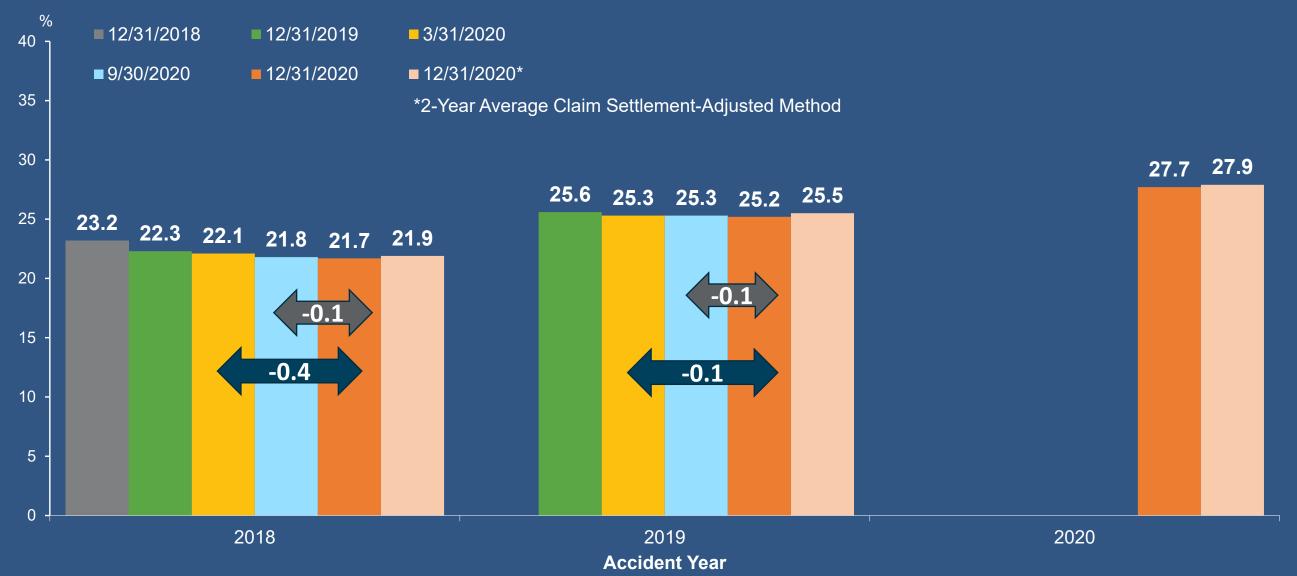
Change in Projected Medical Development Factor 3/31/2020 to 12/31/2020 Experience





Developed Indemnity Loss Ratios (Exhibit 3.1)

As of December 31, 2020

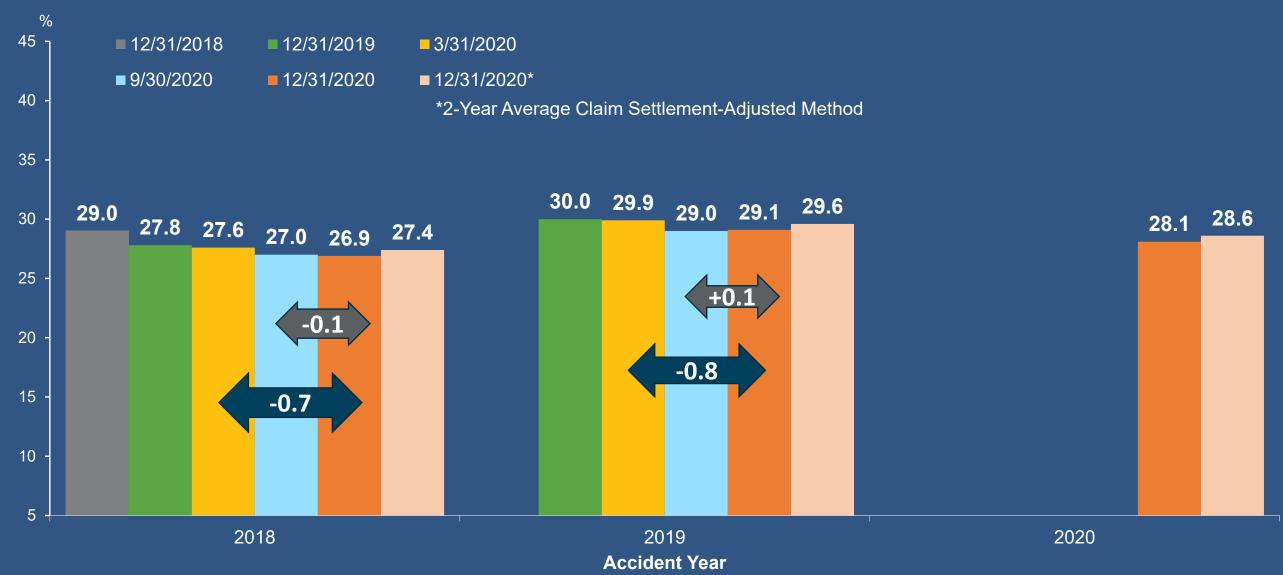




Note: All loss ratios are adjusted to the loss development methodology reflected in the March 16, 2021 Actuarial Committee Agenda and may not be comparable to the actual loss ratios projected at that time. Source: WCIRB aggregate financial data excluding COVID-19 claims

Developed Medical Loss Ratios (Exhibit 3.2)

As of December 31, 2020

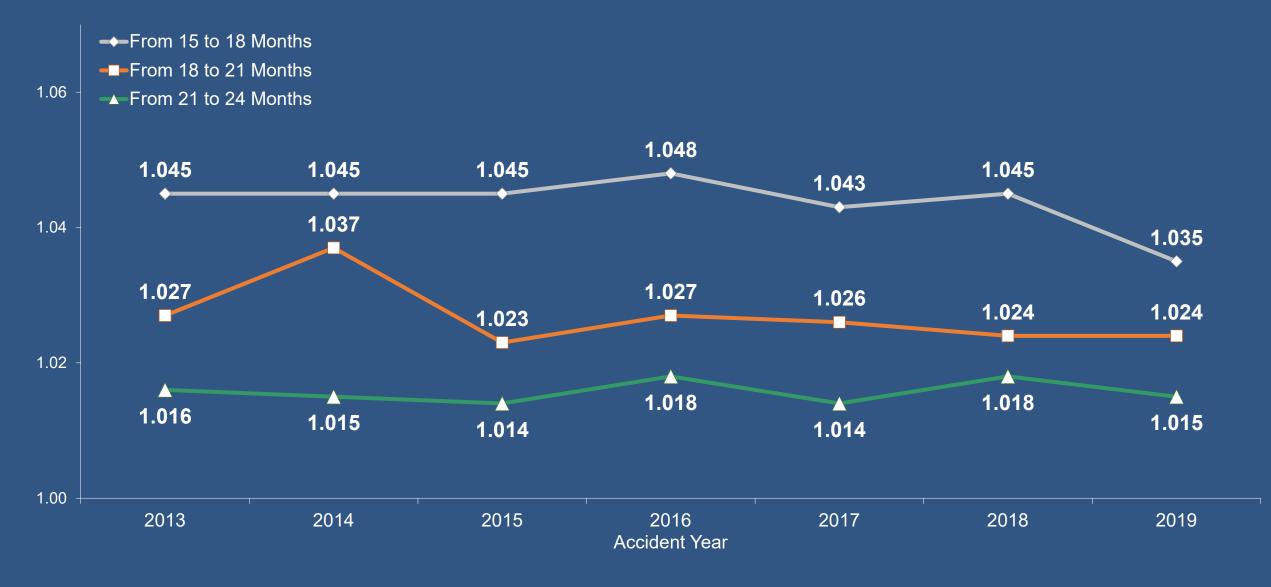




Note: All loss ratios are adjusted to the loss development methodology reflected in the December 8, 2020 Actuarial Committee Agenda and may not be comparable to the actual loss ratios projected at that time. Source: WCIRB aggregate financial data excluditng COVID-19 claims

Indemnity Claim Count Quarterly Development (Exhibit 8.2)

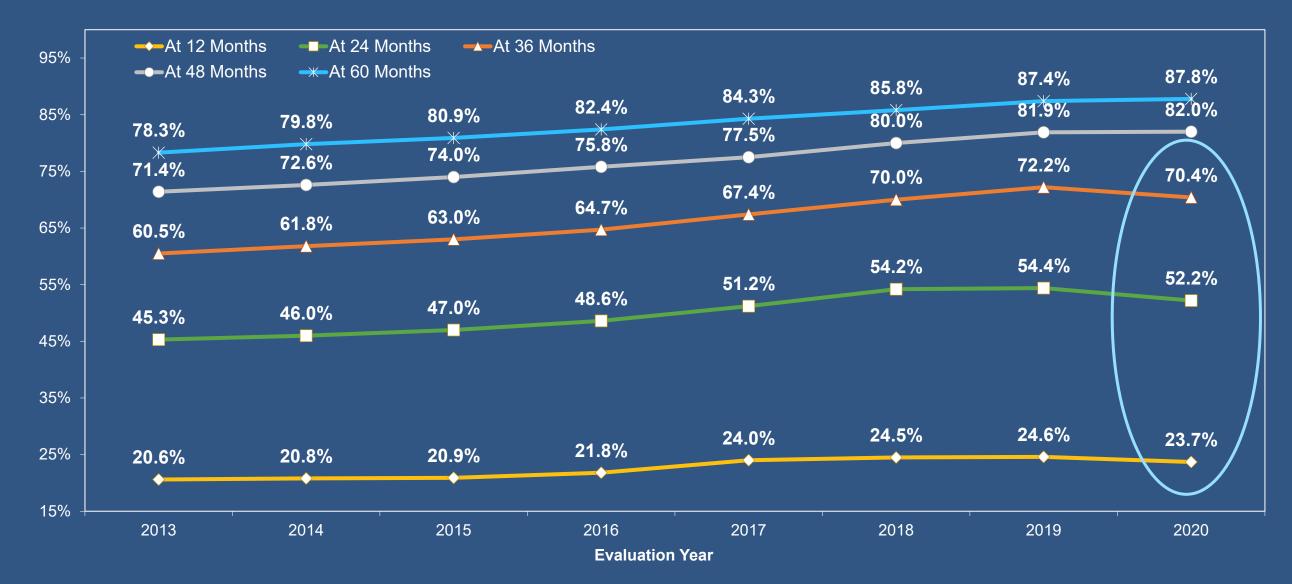
As of December 31, 2020





Estimated Ultimate Indemnity Claim Settlement Ratios (Exhibit 9.2)

As of December 31, 2020



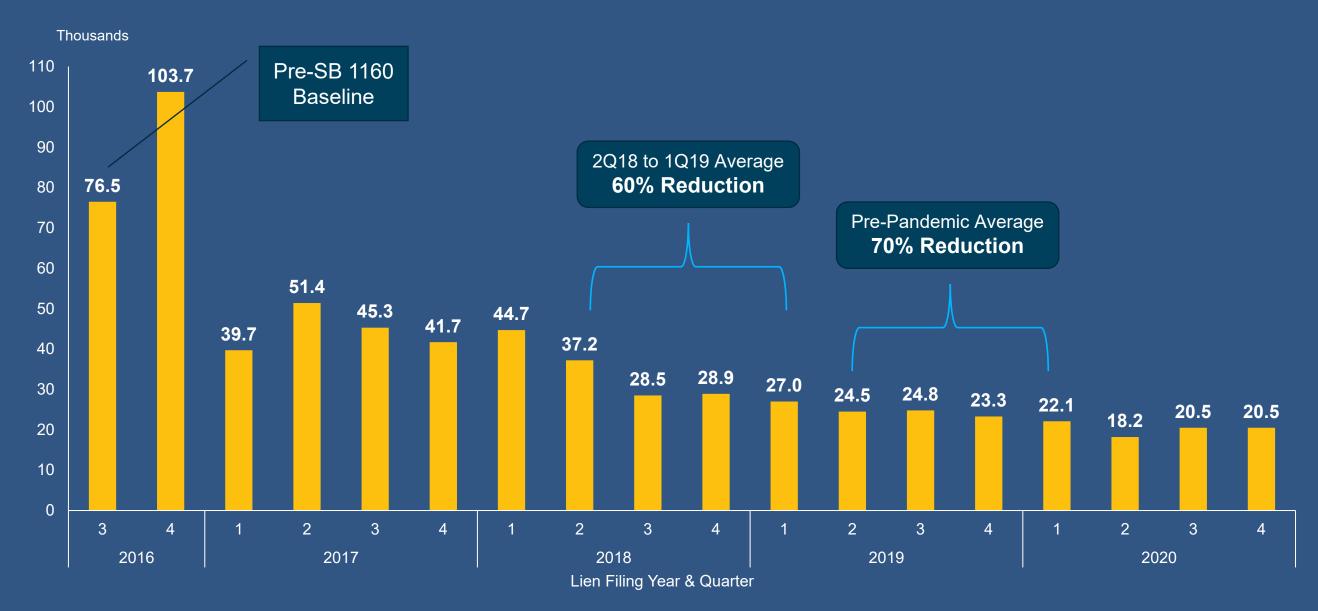


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Number of Lien Filings

As of December 31, 2020





Source: DWC EAMS data

12/31/2020 Experience Review

Adjustment to Medical Development for SB 1160

Accident Years	Age @12/31/20	Adjustment Based on 60% Reduction (Current)	Adjustment Based on 70% Reduction		
2015	72	-1.0%	-1.1%		
2016	60	-1.7%	-2.0%		
2017 to 2020	48 & Prior	-2.8%	-3.2%		



Review of Medical Fee Schedule Changes

- At 12/5/2019 meeting, the Committee recommended staff review updates to medical fee schedules adopted by the DWC for any significant changes impacting medical costs
- Staff has conducted initial review of fee schedule updates published by DWC through February 2021
 - Changes in physician fees (E&M) based on Medicare updates to be reviewed at 4/15/2021 meeting
 - New medical-legal fee schedule effective 4/1/2021 to be reviewed at 4/15/2021 meeting
- Staff compared change in average medical cost after updating fee schedule using 2019 (pre-pandemic) mix of services
- No unusual changes significantly impacting medical severities discovered from updates reviewed
- Staff also not recommending any adjustments to medical on-level factors for Drug Formulary impact after recent retrospective evaluation



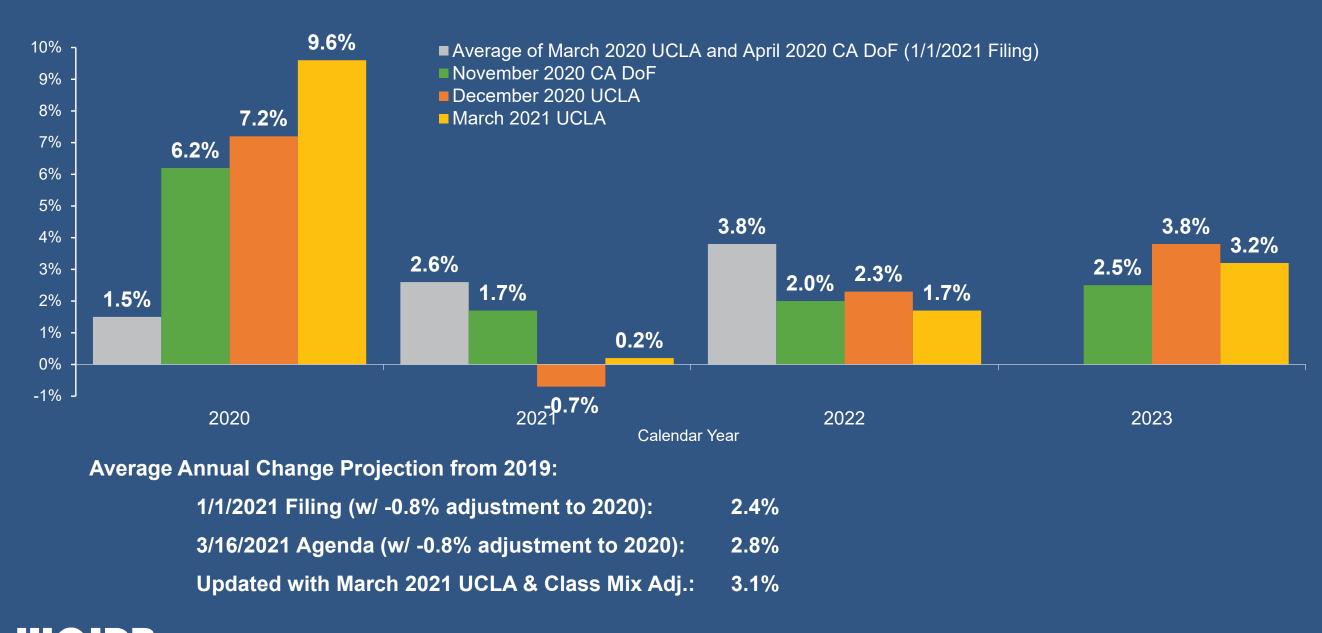
Review of Medical Fee Schedule Changes – Impact on Medical Severities

Fee Schedule	Effective Date	Update Type	Impact on Medical Services		
Inpatient	12/1/2020	Regular inflation update	0.2%		
HCPCS	1/1/2021	Updates for ambulance services, milage update	< 0.1%		
DMEPOS	1/1/2021	Regular inflation update	< -0.1%		
Path/Lab	1/1/2021	Regular inflation update	< 0.1%		
Outpatient	3/1/2021	Regular inflation update	0.4%		
Physician	3/1/2021	E&M changes, other Medicare updates	TBD		
Medical-legal	4/1/2021	Major fee schedule update	TBD		



Average Annual Wage Level Change Forecast (Exhibit 5.1)

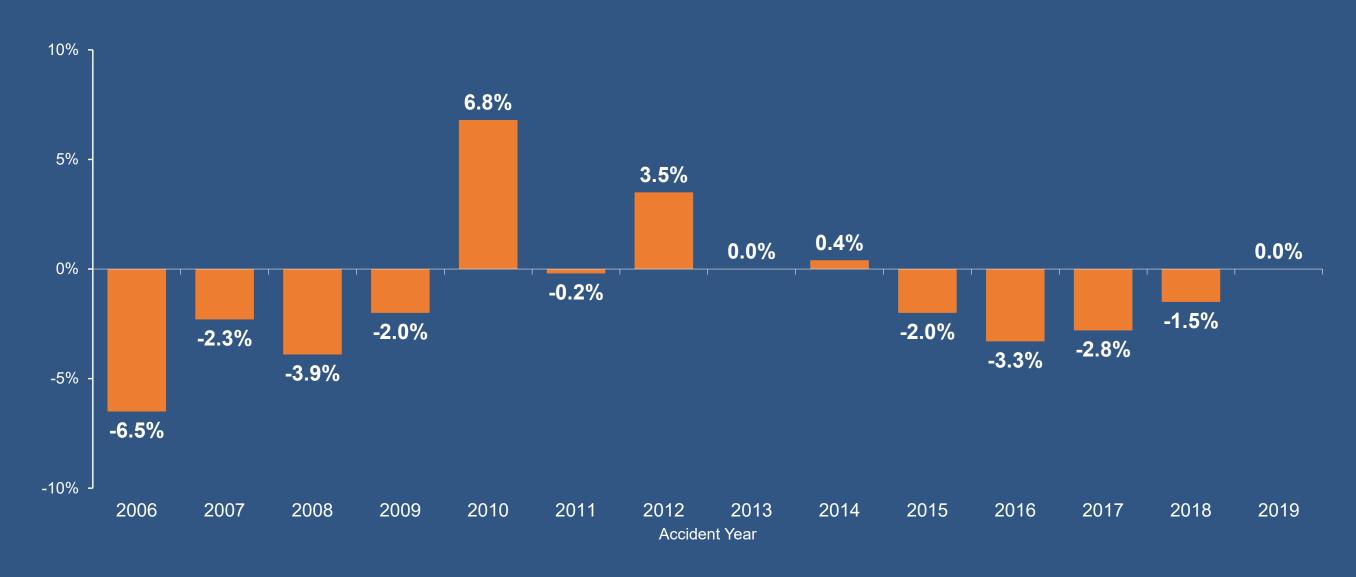
As of March 2021





Historical Changes in Indemnity Claim Frequency (Exhibit 10 Revised)

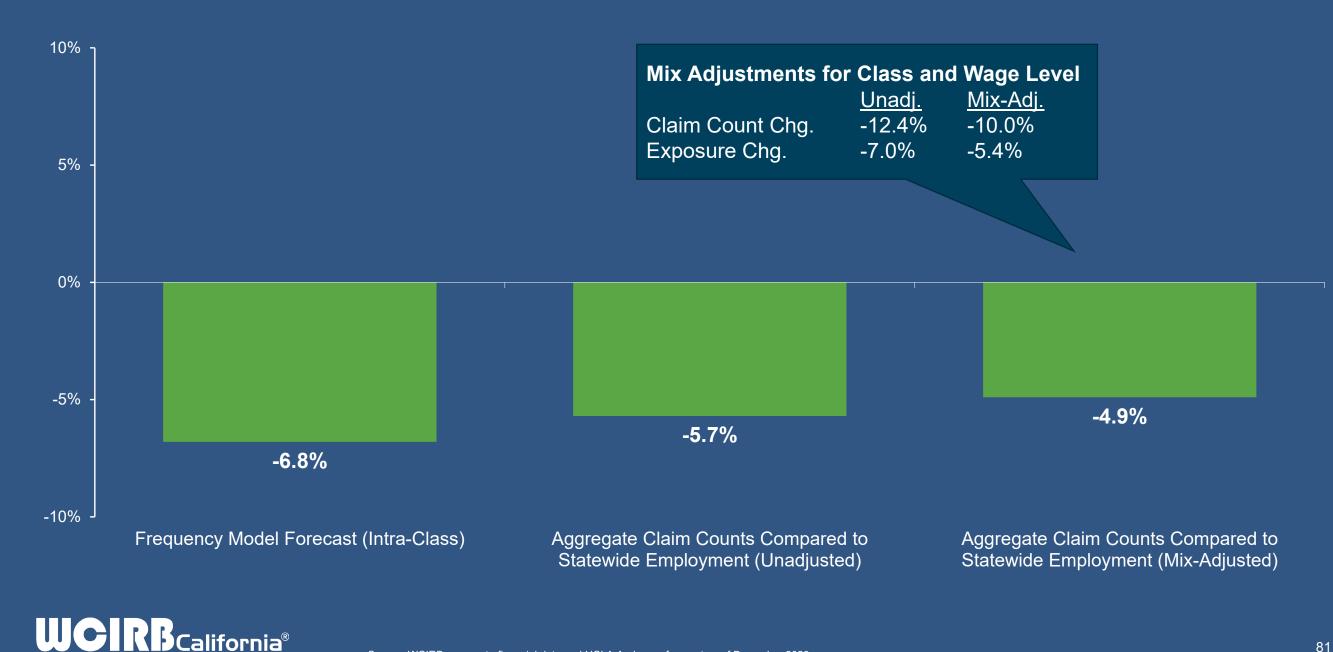
As of December 31, 2020





Accident Year 2020 Indemnity Claim Frequency Change (Ex-COVID)

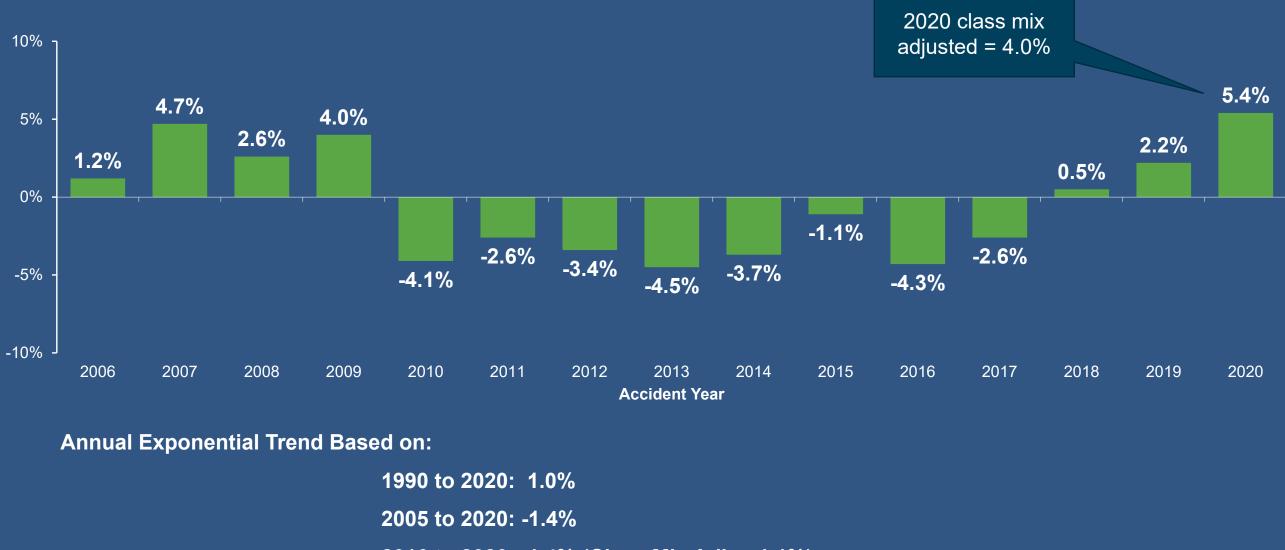
As of December 31, 2020



12/31/2020 Experience Review

Projected Changes in On-Level Indemnity Severity (Exhibit 6.2)

As of December 31, 2020



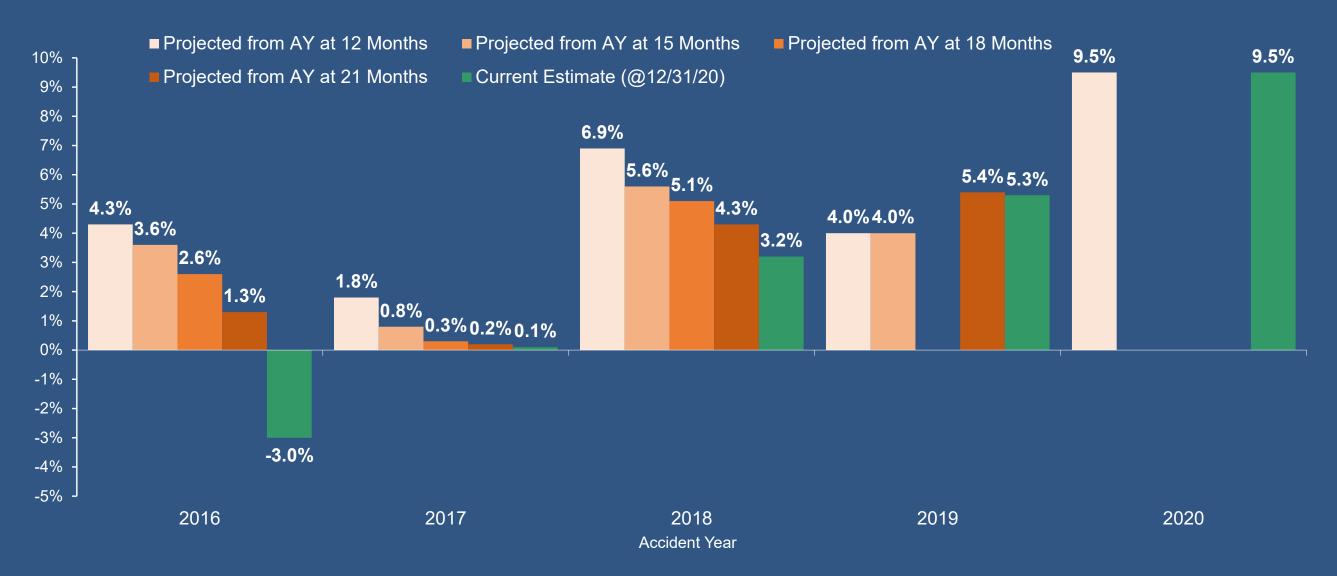
2016 to 2020: 1.4% (Class Mix Adj. = 1.1%)

1/1/2021 Filing Selected: 1.0%



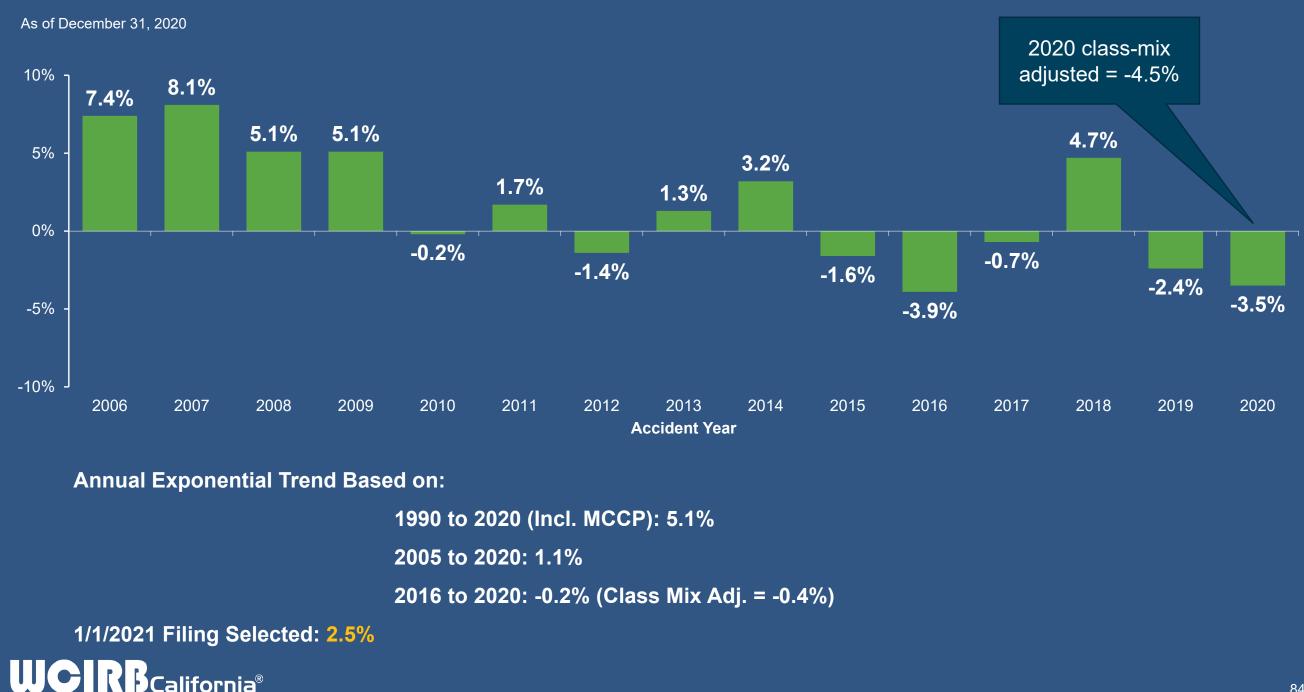
Indemnity Severity Changes Projected from Early Evaluations Compared to Current

As of December 31, 2020



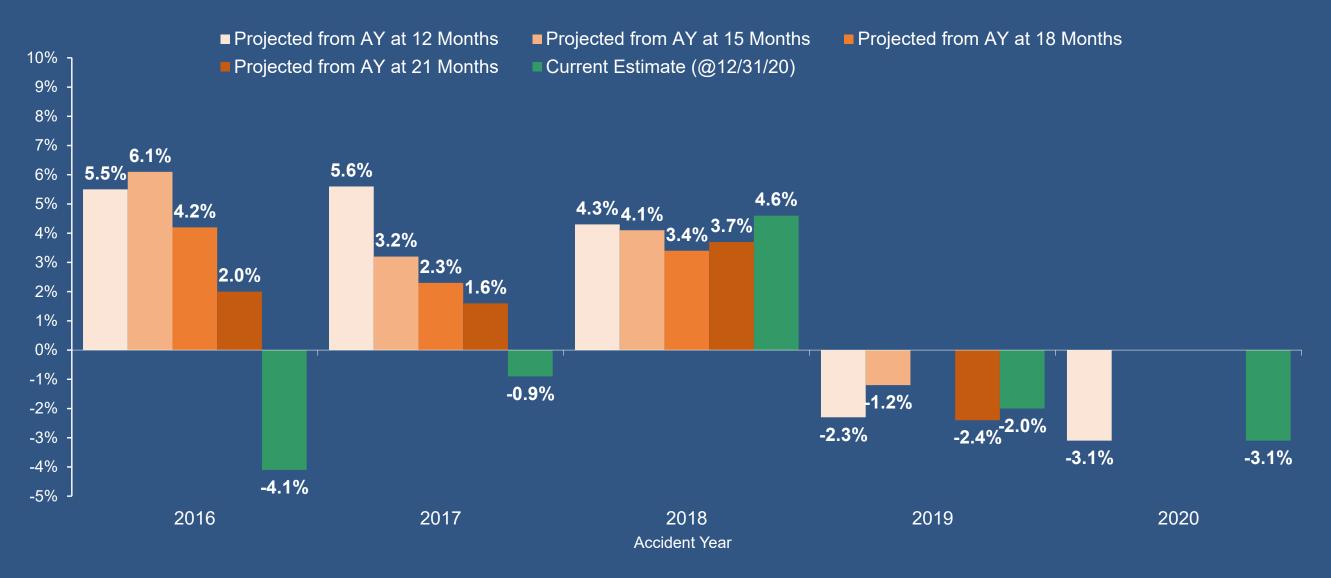


Projected Changes in On-Level Medical Severity (Exhibit 6.4)



Medical Severity Changes Projected from Early Evaluations Compared to Current

As of December 31, 2020



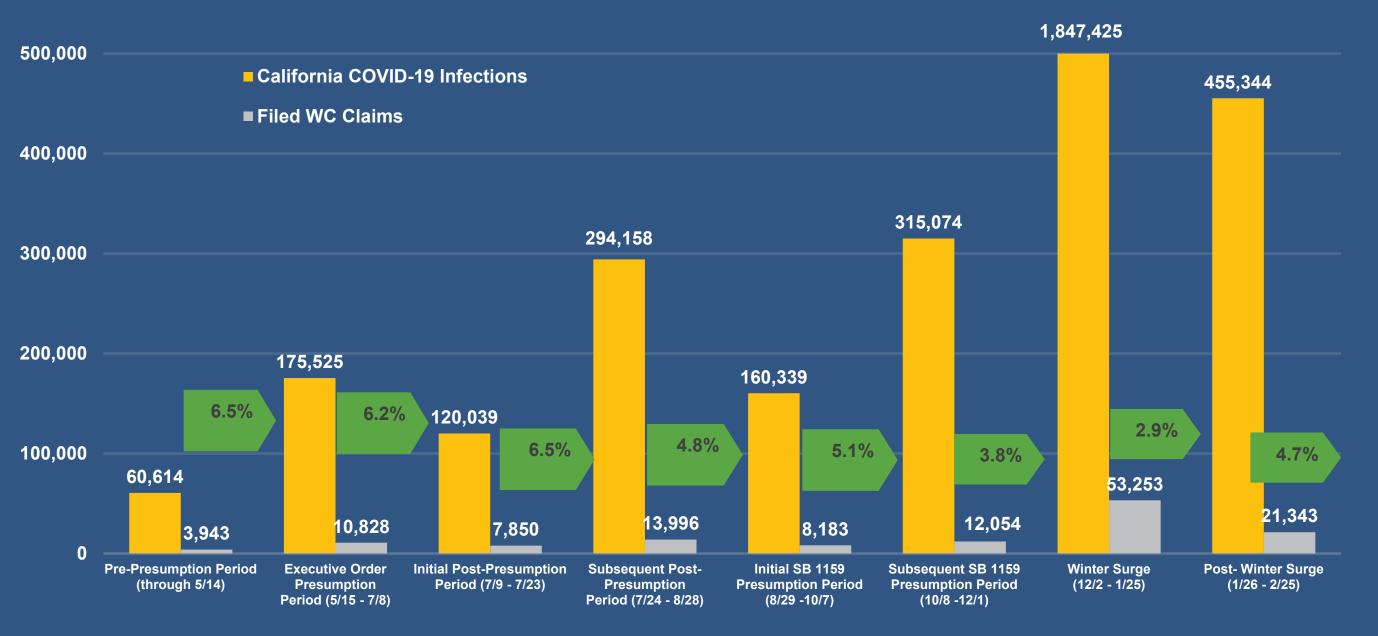


06

Review of COVID-19 Claim Diagnostics



Filed Workers' Compensation COVID-19 Claims Relative to California Infections





Comparison of Monthly Claim Reporting to WCIRB

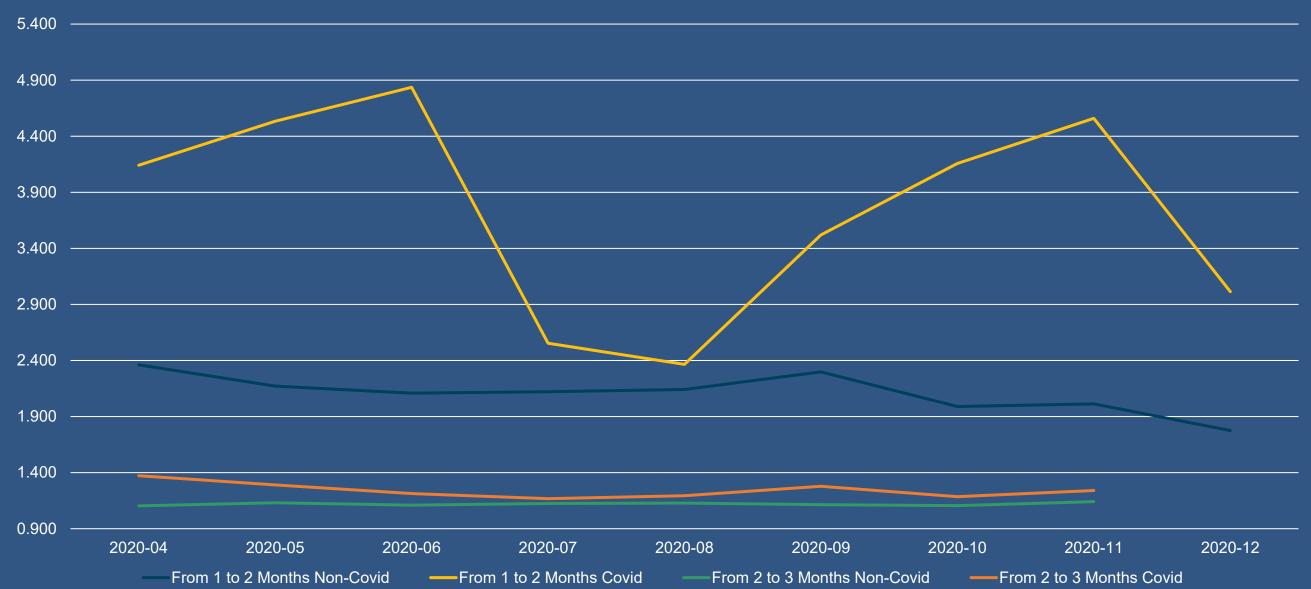
As of Feb. 23, 2021





Comparison of Monthly Indemnity Claim Reporting to WCIRB

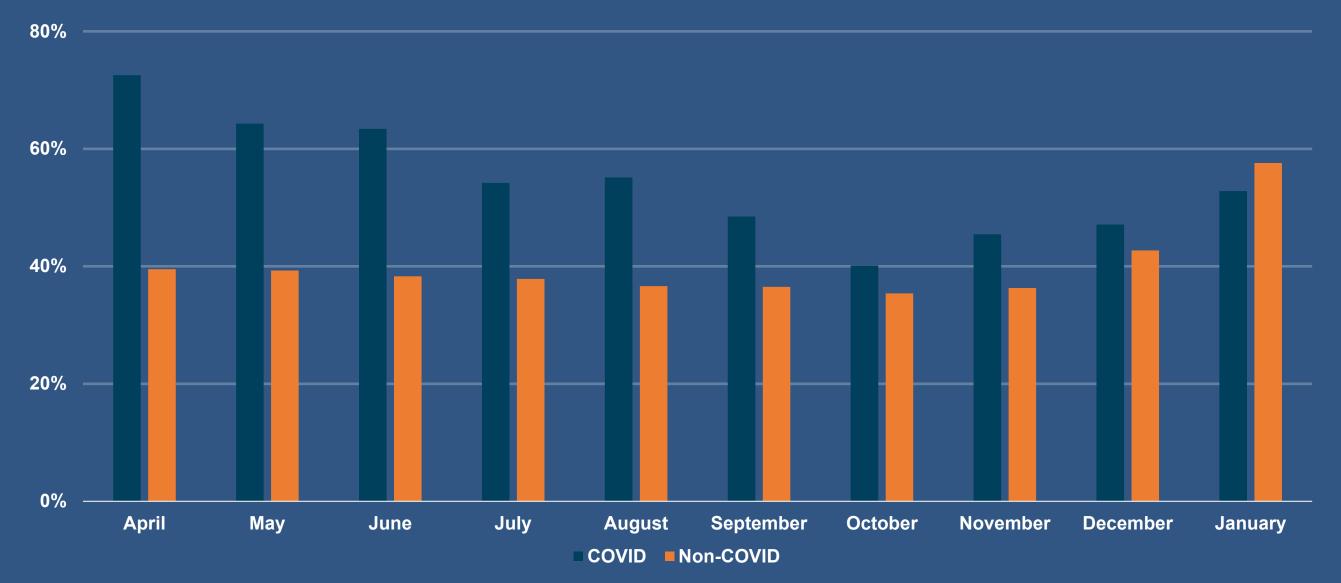
As of Feb. 23, 2021





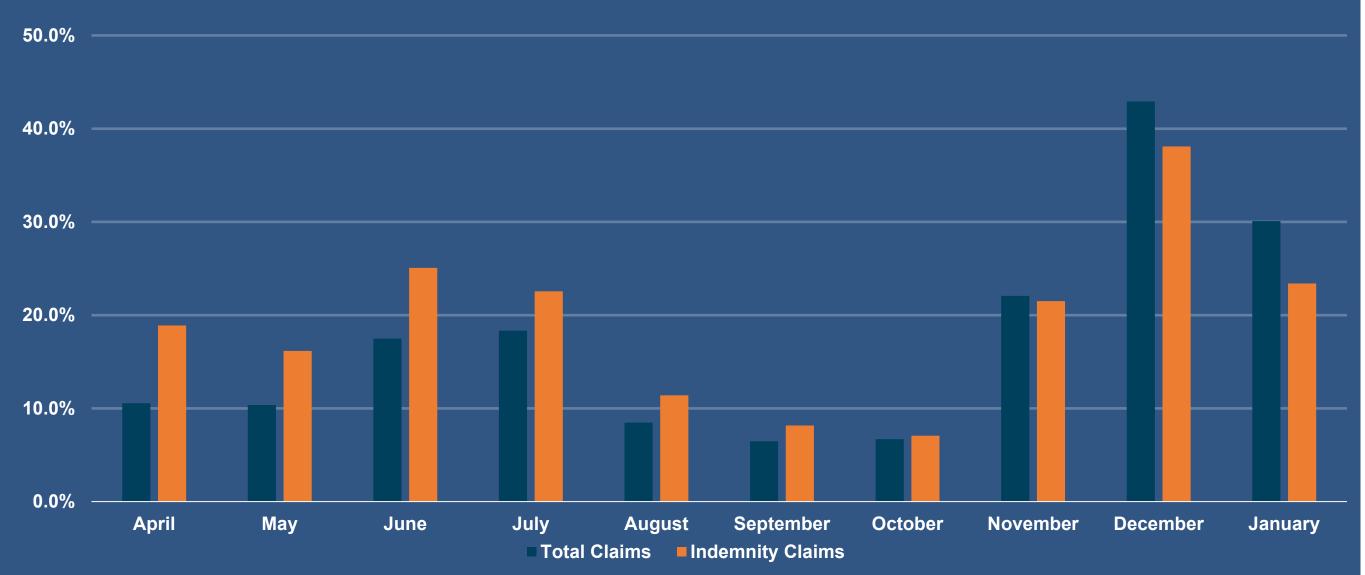
Share of Claims Classified as Indemnity by Accident Month—COVID-19 vs. Non-COVID-19

As of Feb. 23, 2021



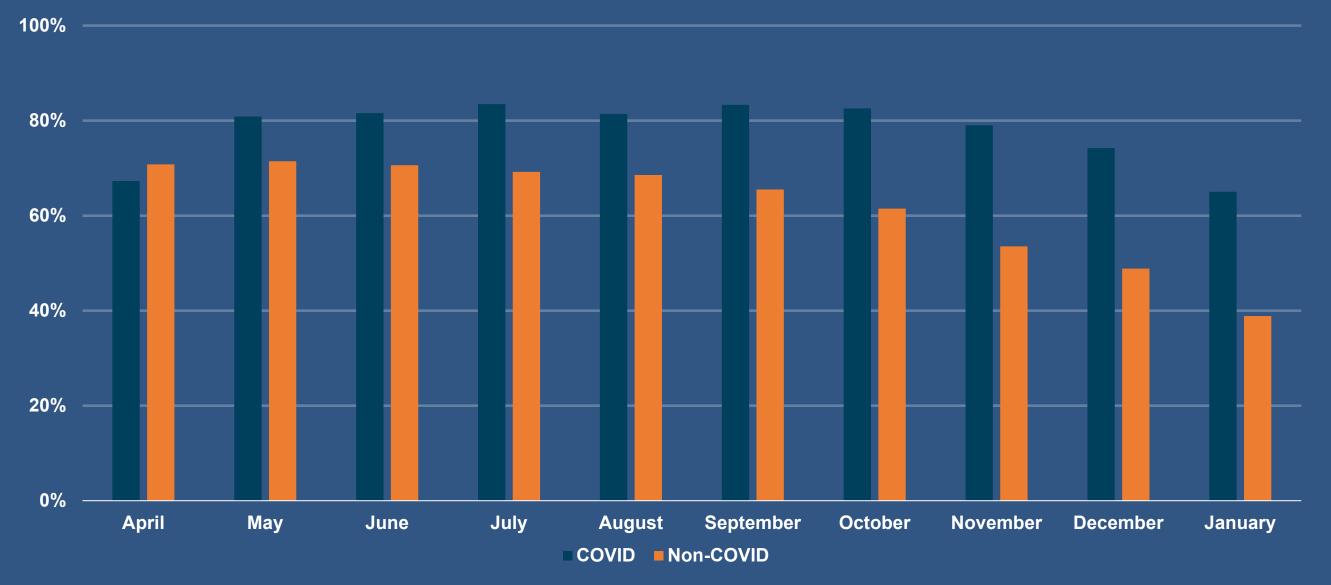


Reported COVID-19 Claims by Accident Month as a Share of Total and Indemnity Claims





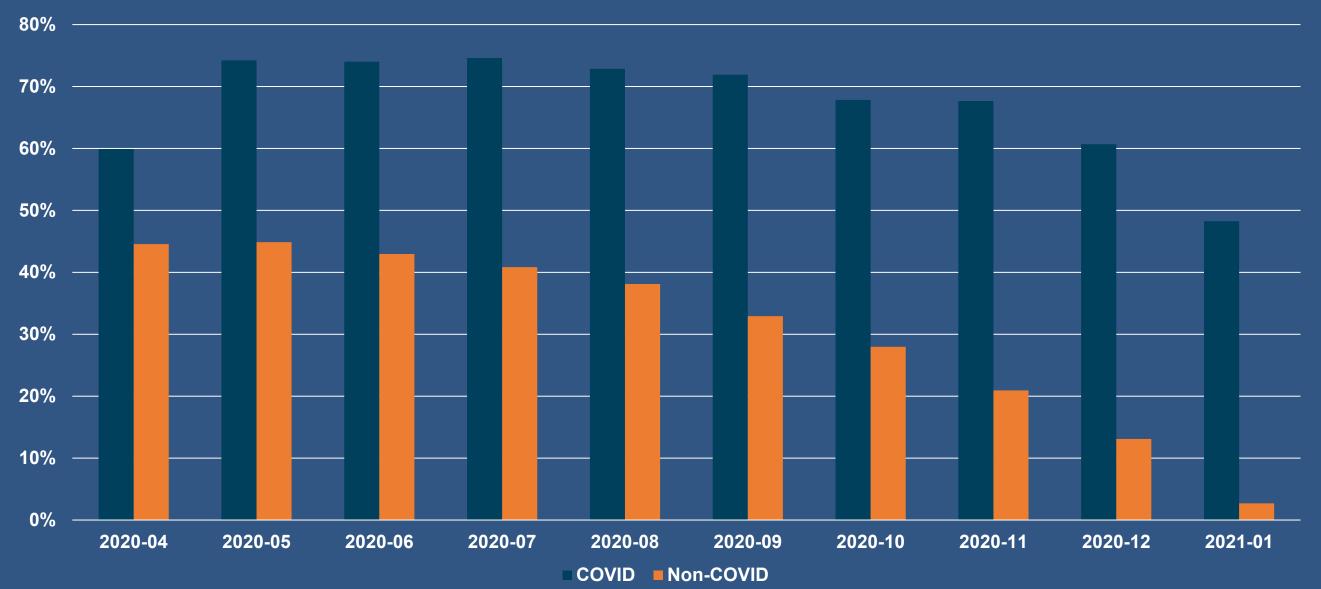
Claim Closing Rate by Accident Month — COVID-19 vs. Non-COVID-19 Claims





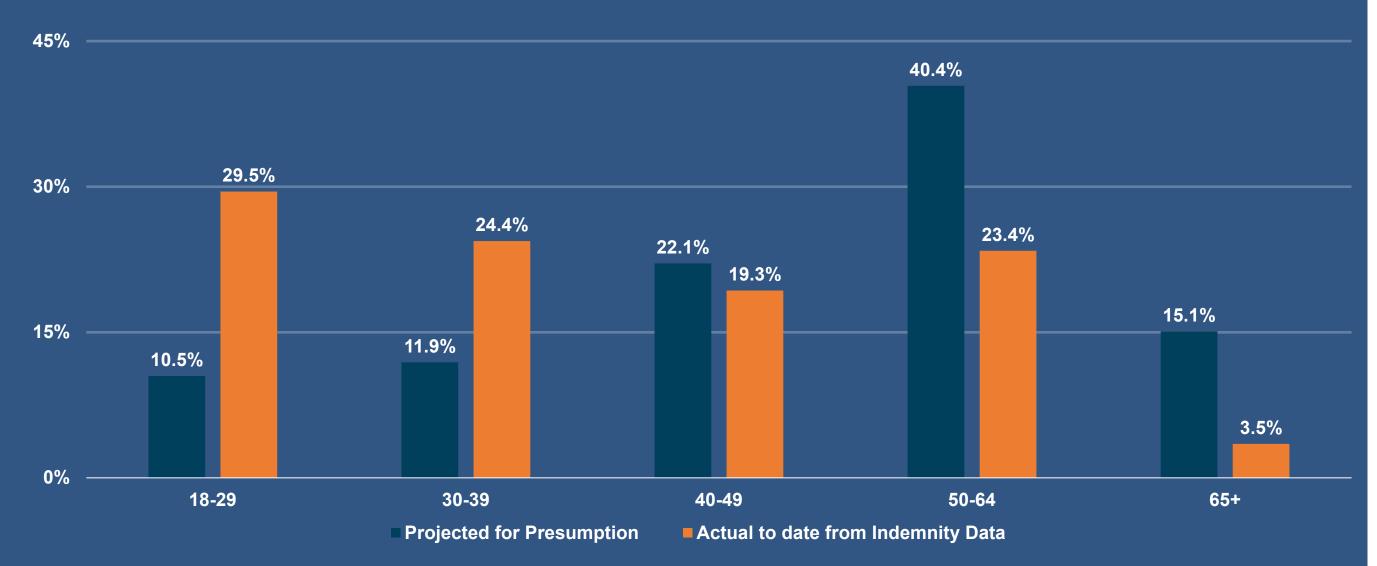
Indemnity Claim Closing Rate by Accident Month — COVID-19 vs. Non-COVID-19 Claims

As of Feb. 23, 2021





Comparison of Projected Age Distribution in Presumption Analysis to Observed Age Distribution





Share of Total Claims due to COVID-19 by Industry

Industry	Share of Claims due to COVID
Health Care	44%
Public Administration	30%
Finance	29%
Clerical	21%
Education	19%
Outside Sales	17%
Accomodation & Food Services	16%
Retail	12%
Manufacturing	12%
Transportation	12%
Administrative Services	11%
Other Services	11%
Unknown	9%
Arts & Entertainment	9%
Real Estate	9%
Agriculture & Mining	9%
Professional Services	8%
Utilities & Construction	8%
Wholesale	8%
Information	6%
Total	16%



Comparison of Distribution of COVID Claims by Industry reported to the WCIRB (includes denied claims)

Industry Code	Industry Code Description	As of 2/23/2021	As of 8/31/2020
62	2Health Care	33%	41%
48	3 Transportation	12%	7%
32	Manufacturing	10%	11%
44	Retail	8%	7%
72	Accomodation & Food Services	8%	6%
8810	Clerical	7%	4%
23	Construction	5%	5%
42	2Wholesale	3%	3%
56	Administrative Services	3%	2%
11	Agriculture	2%	5%
8742	2Outside Sales	1%	1%
81	Other Services	1%	2%
53	Real Estate	1%	1%
6	Education	1%	1%
54	Professional Services	1%	1%
52	Finance	1%	1%
71	Arts & Entertainment	1%	1%
92	Public Administration	0%	0%
51	Information	0%	0%
2	Mining	0%	0%
22	2Utilities	0%	0%



Comparison of Distribution of COVID Claims by Industry reported to WCIS (includes denied claims)

Industry Code Industry Description	Feb. 23, 2021	Aug. 28, 2021
62 Health Care and Social Assistance	33%	39%
92 Public Administration	19%	18%
48 Transportation and Warehousing	7%	5%
44 Retail Trade	6%	6%
31 Manufacturing	6%	7%
72 Accommodation and Food Services	6%	5%
42Wholesale Trade	5%	3%
8810	4%	4%
23 Construction	3%	3%
11 Agriculture, Forestry, Fishing and Hunting	2%	3%
Administrative and Support and Waste Management and 56 Remediation Services	2%	2%
61 Educational Services	2%	1%
81 Other Services (except Public Administration)	1%	1%
8742	1%	1%
54 Professional, Scientific, and Technical Services	1%	1%
53 Real Estate and Rental and Leasing	1%	1%
52 Finance and Insurance	1%	0%
71 Arts, Entertainment, and Recreation	0%	0%
22 Utilities	0%	0%
51 Information	0%	0%
21 Mining, Quarrying, and Oil and Gas Extraction	0%	0%
55 Management of Companies and Enterprises	0%	0%



Industries with Significant Changes in Non-COVID-19 Claim Share



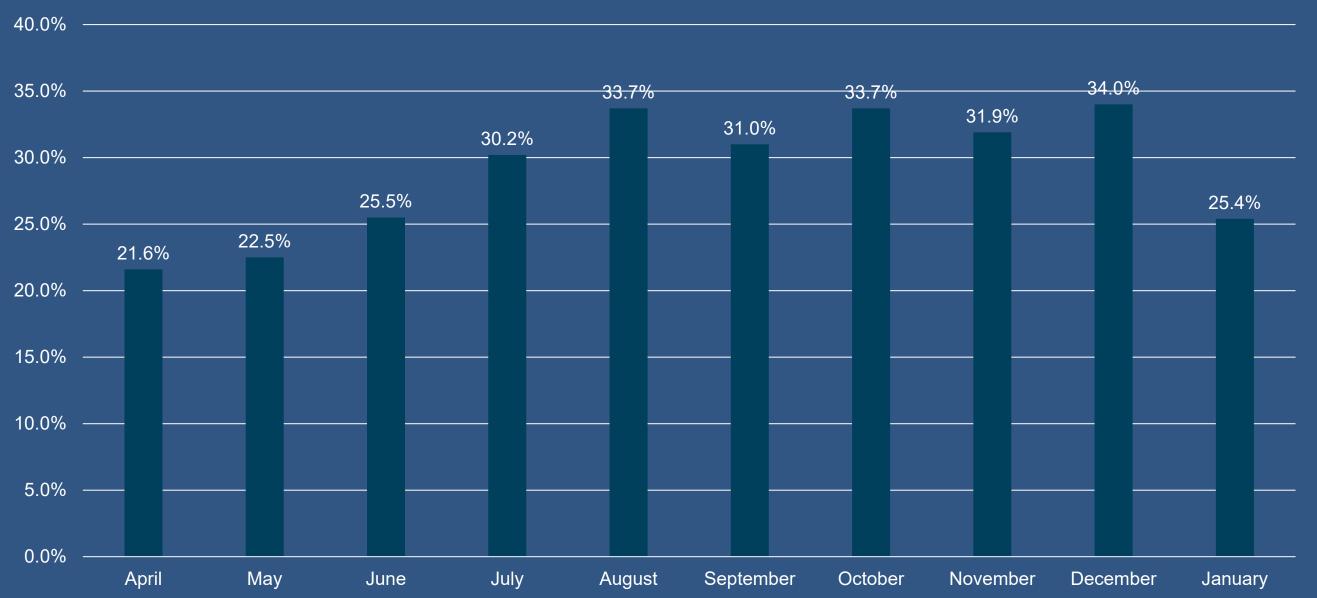
- Claims at 3 Months for 2020 Q2-Q4 Compared to Prior 4 Quarters
- Share Increased or Decreased by More Than 1 Point





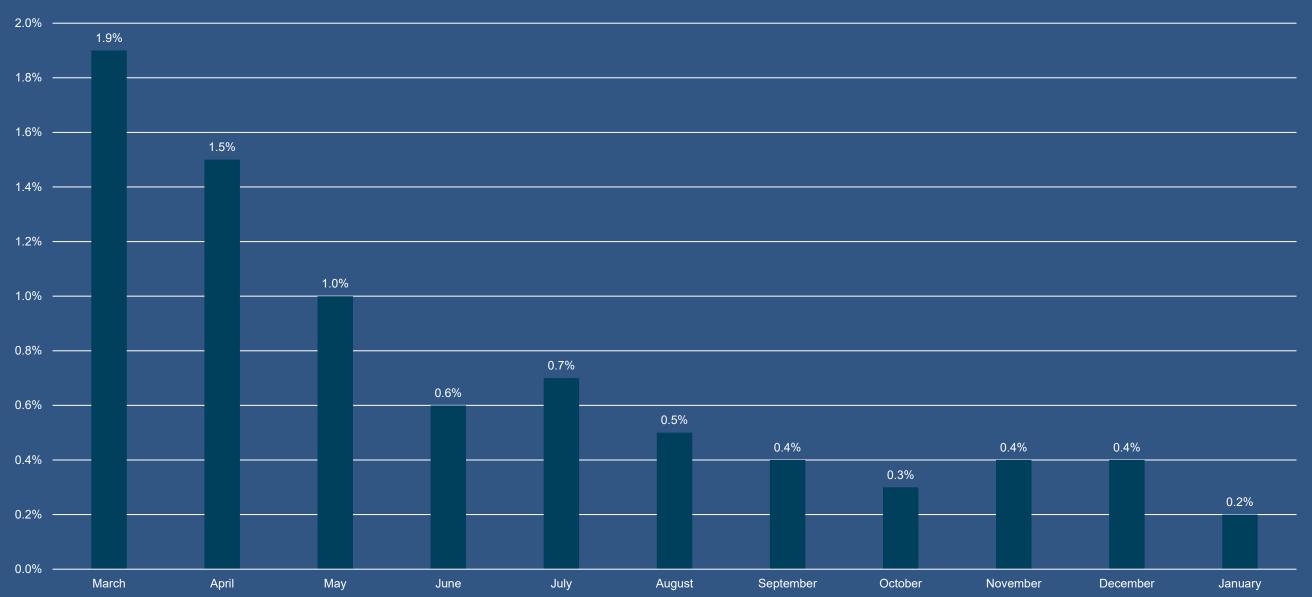
Denial Rates by Accident Month for COVID Claims

As of Feb, 23 2021



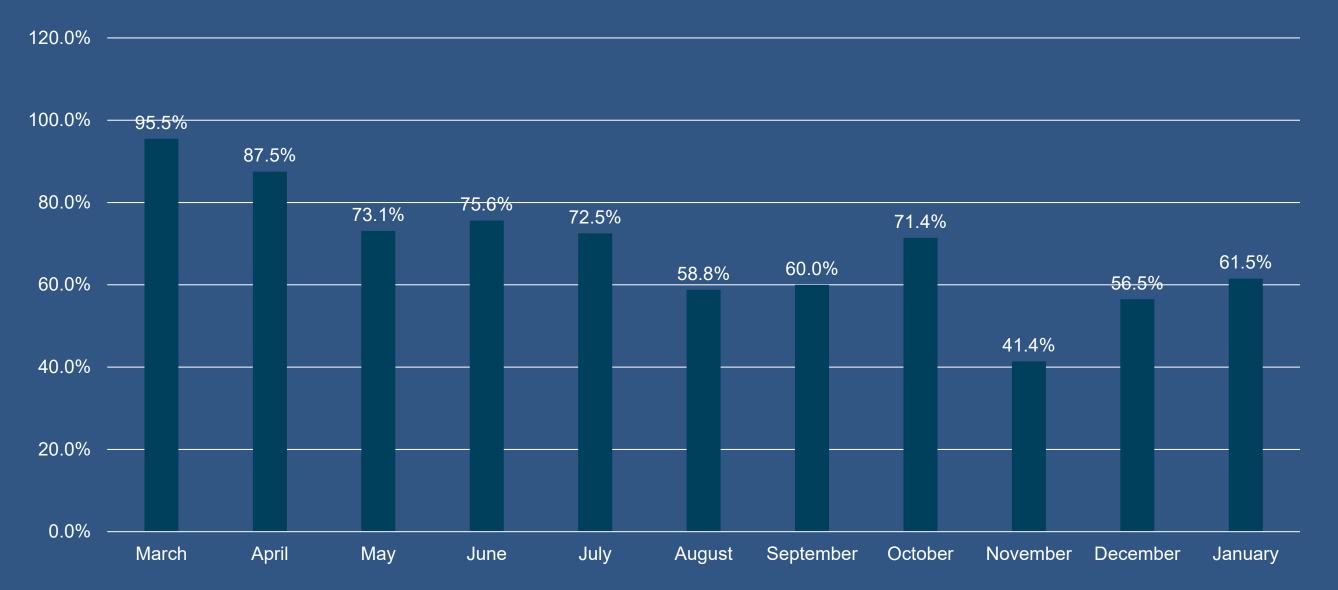


Share of COVID-19 Claims with an Employee Date of Death by Accident Month





Share of COVID-19 Claims with an Employee Date of Death which were reported to the Claims Administrator after the Date of Death by Accident Month





When are COVID-19 Fatality Claims First Reported to the Employer?

As of Feb. 23, 2021

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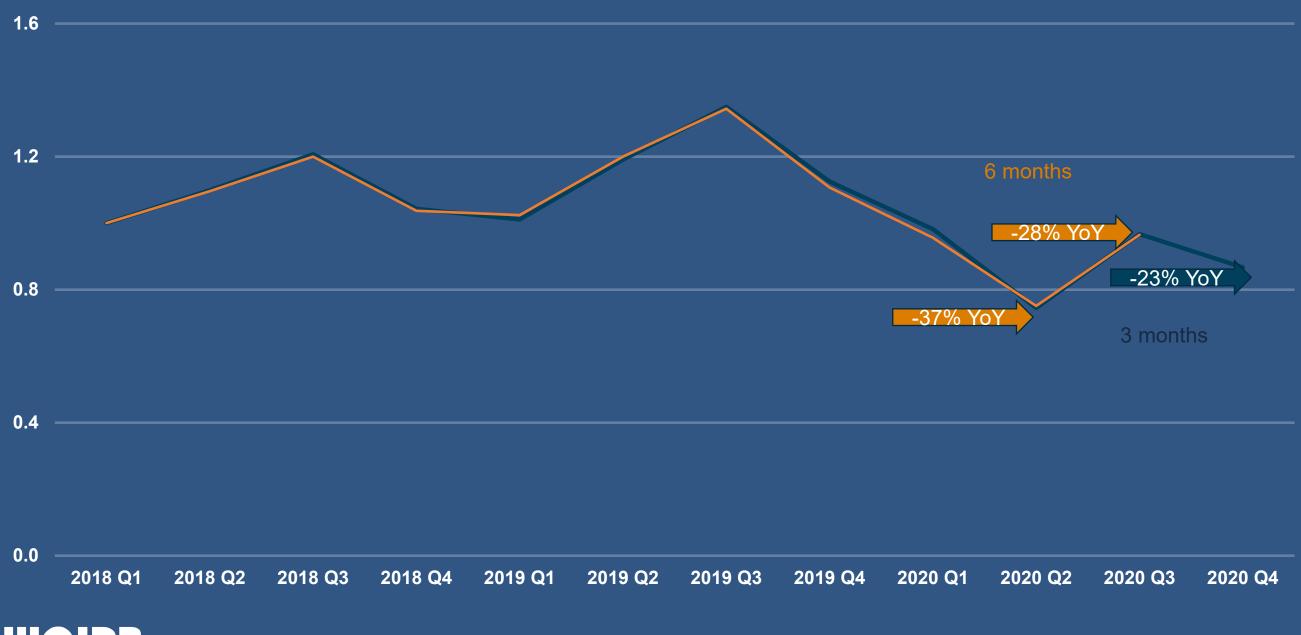
Ε

		March	April	May	June	July	August	September	October	November	December	January
Claim Reported	March	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	April	100%	48%	22%	0%	0%	0%	6%	0%	0%	0%	0%
	May	0%	52%	29%	17%	4%	3%	0%	0%	0%	0%	0%
mployer	June	0%	0%	49%	17%	4%	0%	0%	0%	0%	0%	0%
	July	0%	0%	0%	67%	38%	9%	6%	0%	0%	0%	0%
	August	0%	0%	0%	0%	55%	63%	17%	0%	0%	0%	0%
	September	0%	0%	0%	0%	0%	25%	33%	29%	0%	2%	0%
	October	0%	0%	0%	0%	0%	0%	39%	43%	7%	0%	0%
	November	0%	0%	0%	0%	0%	0%	0%	29%	33%	0%	0%
	December	0%	0%	0%	0%	0%	0%	0%	0%	60%	38%	5%
	January	0%	0%	0%	0%	0%	0%	0%	0%	0%	60%	75%

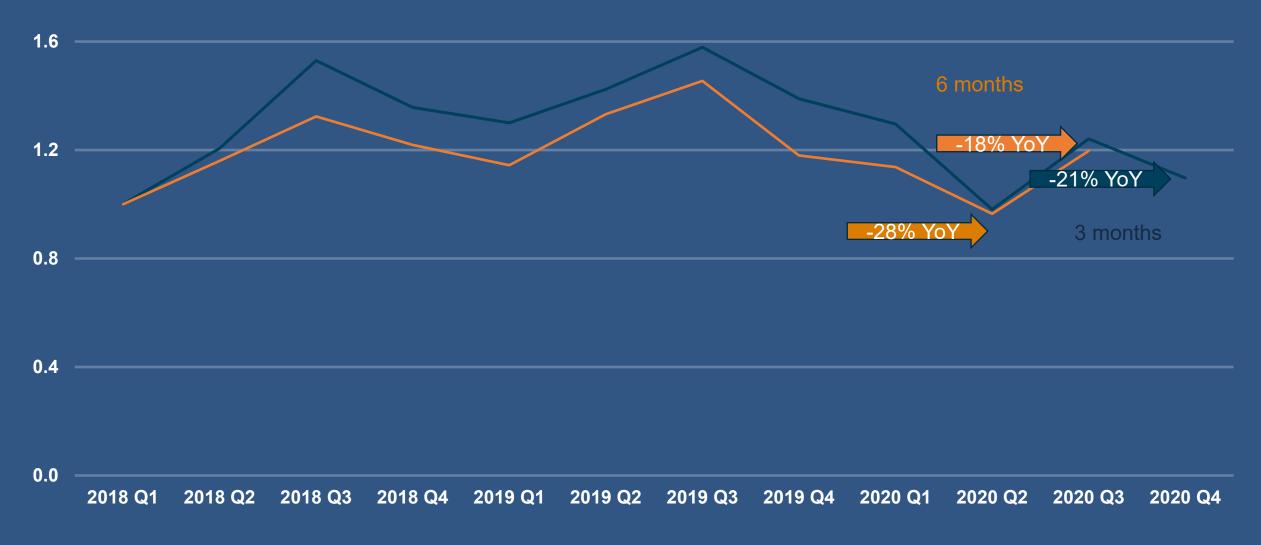
Month of Fatality



Total Non-COVID-19 Claims Reported by AQ Relative to the Number Reported in 2018 Q1

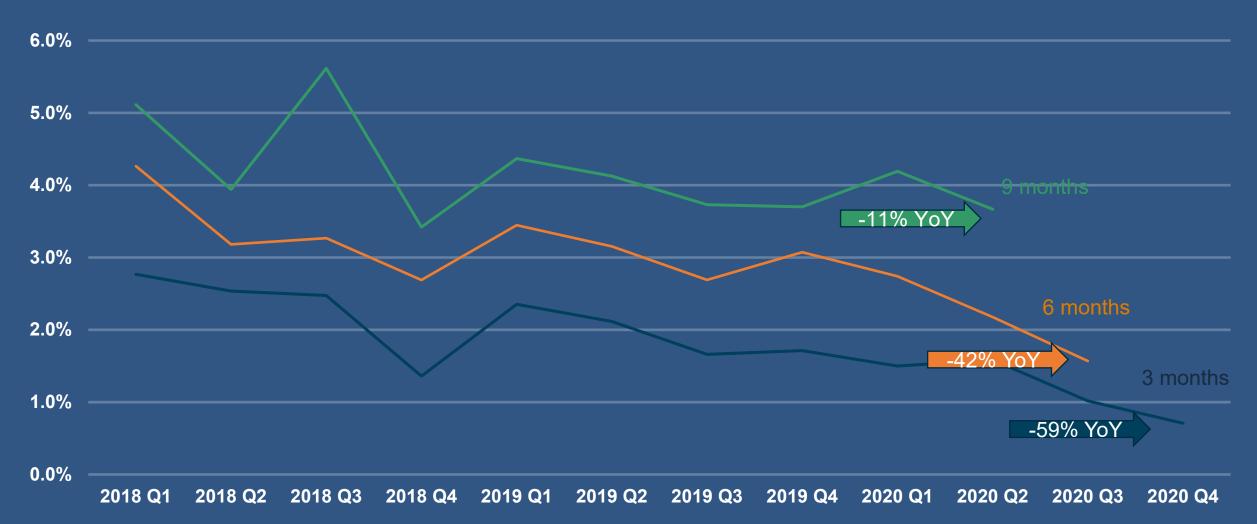


Non-COVID-19 Indemnity Claims Reported by AQ Relative to the Number Reported in 2018 Q1





CT Indemnity Claims Reported as a Share of Indemnity Claims Reported by AQ





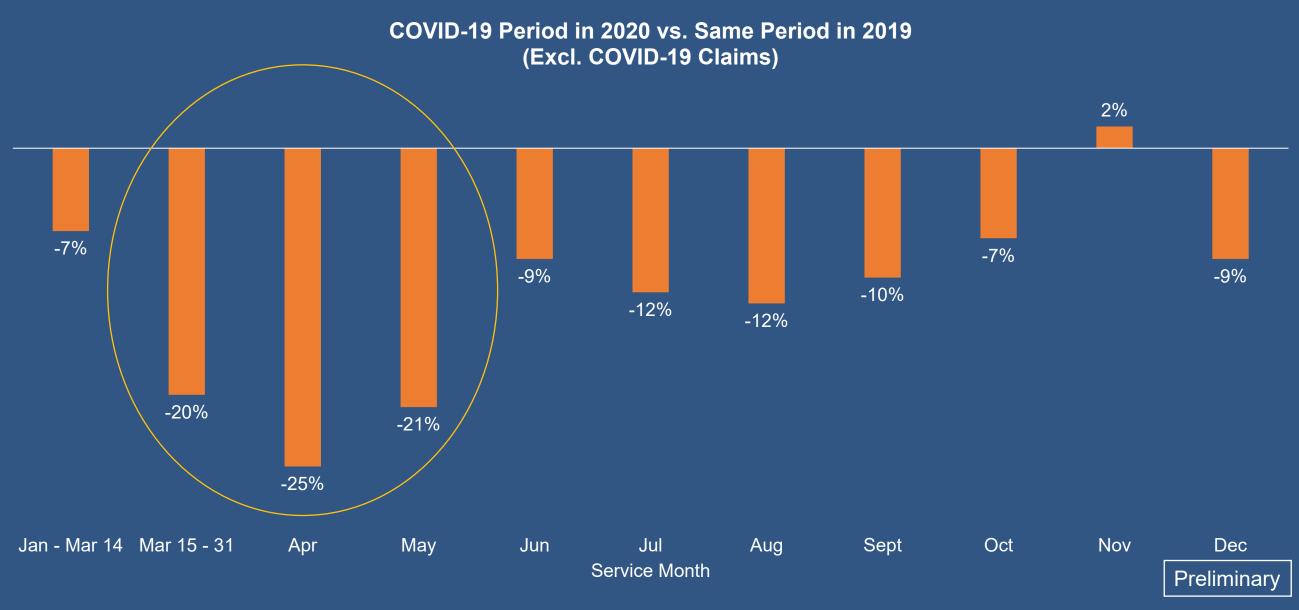
Summary of the COVID-19 Pandemic Impact on Medical Treatment Patterns (Updated through February 2021 and COVID-19 Claims Excluded)

- Overall medical services:
 - March May: slowdown in service utilization and medical cost per clam
 - June Oct: service utilization rebounded
- Pharmaceutical use and costs increased through August and started to stabilize in September
 - Mostly non-opioids
 - Use of opioids continued to decrease throughout the pandemic
- Increased use of telemedicine services started to stabilize in 3Q2020



Impact of COVID-19 Pandemic on Number of Active Claims

As of March 1, 2021





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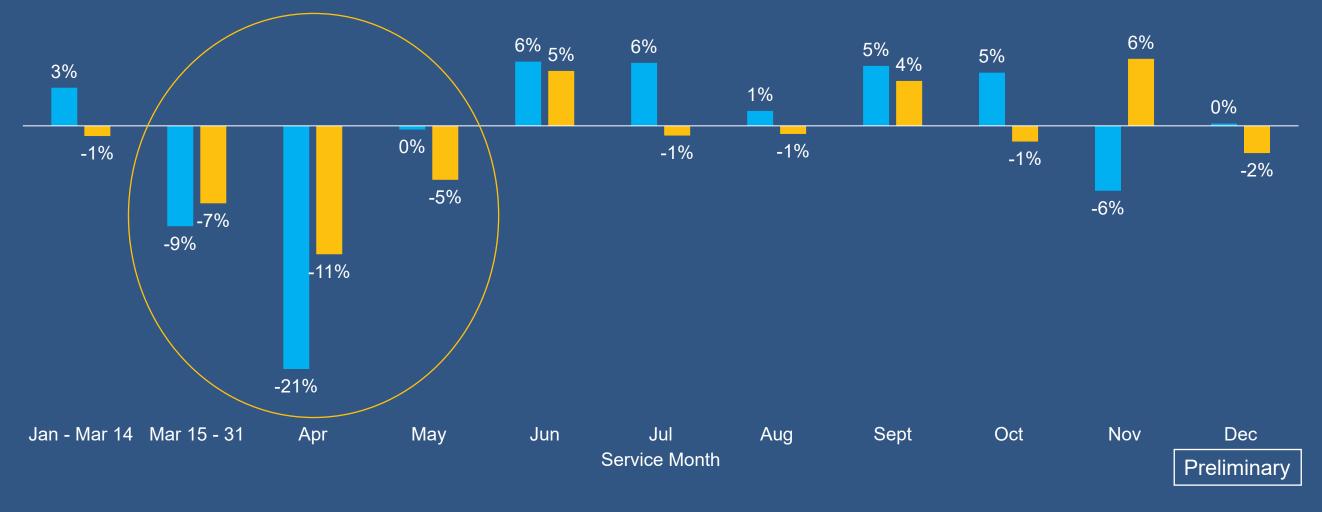
COVID-19 Claim Diagnostics

Impact of COVID-19 Pandemic on Overall Medical Services

As of March 1, 2021

COVID-19 Period in 2020 vs. Same Period in 2019 (Excl. COVID-19 Claims)

Paid per Claim





Leading Types of Medical Services – Medical Severity

As of March 1, 2021

Paid per Claim - COVID-19 Period in 2020 vs. Same Period in 2019 (Excl. COVID-19 Claims)

20% 10% 0% -10% -20% Jan - Mar 14 Mar 15 - 31 Apr May Jun Jul Aug Sept Oct Nov Inpatient Outpatient 40% 20% 0% -20% -40% -60% Mar 15 - 31 Jan - Mar 14 May Jun Jul Aug Sept Oct Nov Apr Service Month





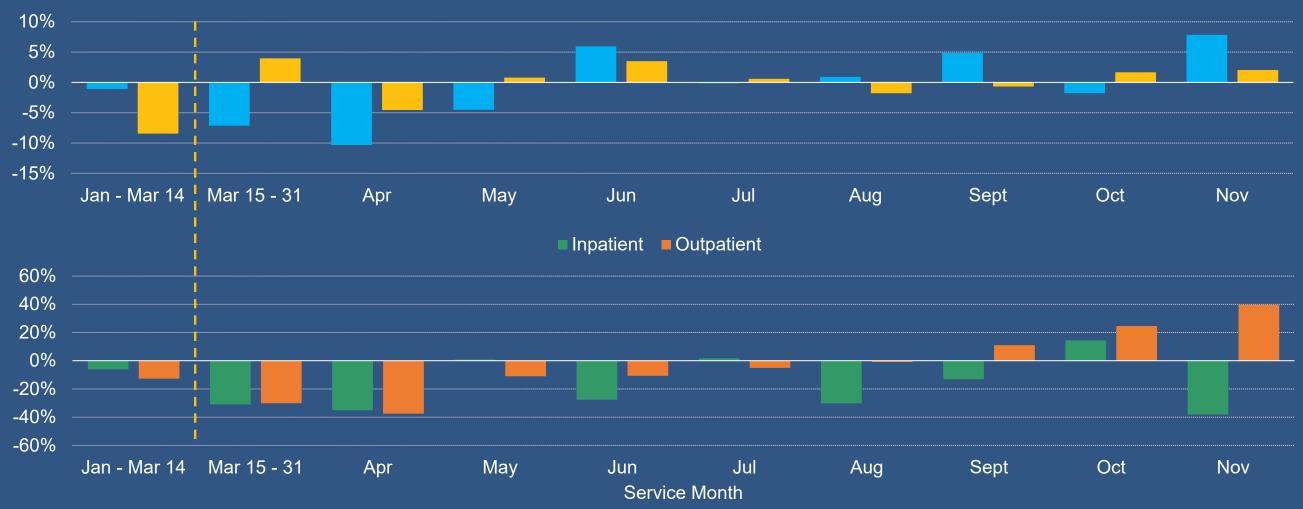
109

COVID-19 Claim Diagnostics

Leading Types of Medical Services – Service Utilization

As of March 1, 2021

Transactions per Claim - COVID-19 Period in 2020 vs. Same Period in 2019 (Excl. COVID-19 Claims)



Physician Services Pharmaceuticals



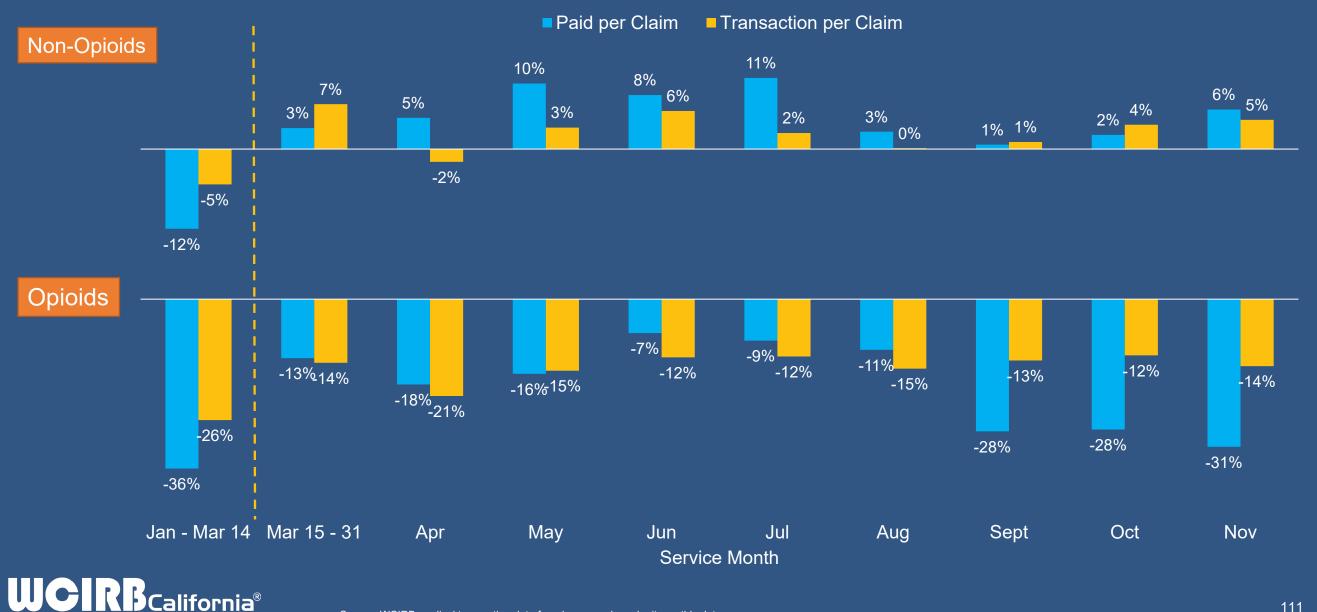
Source: WCIRB medical transaction data from insurers who submit monthly data

110

Impact on Opioid and Non-Opioid Cost and Utilization

As of March 1, 2021

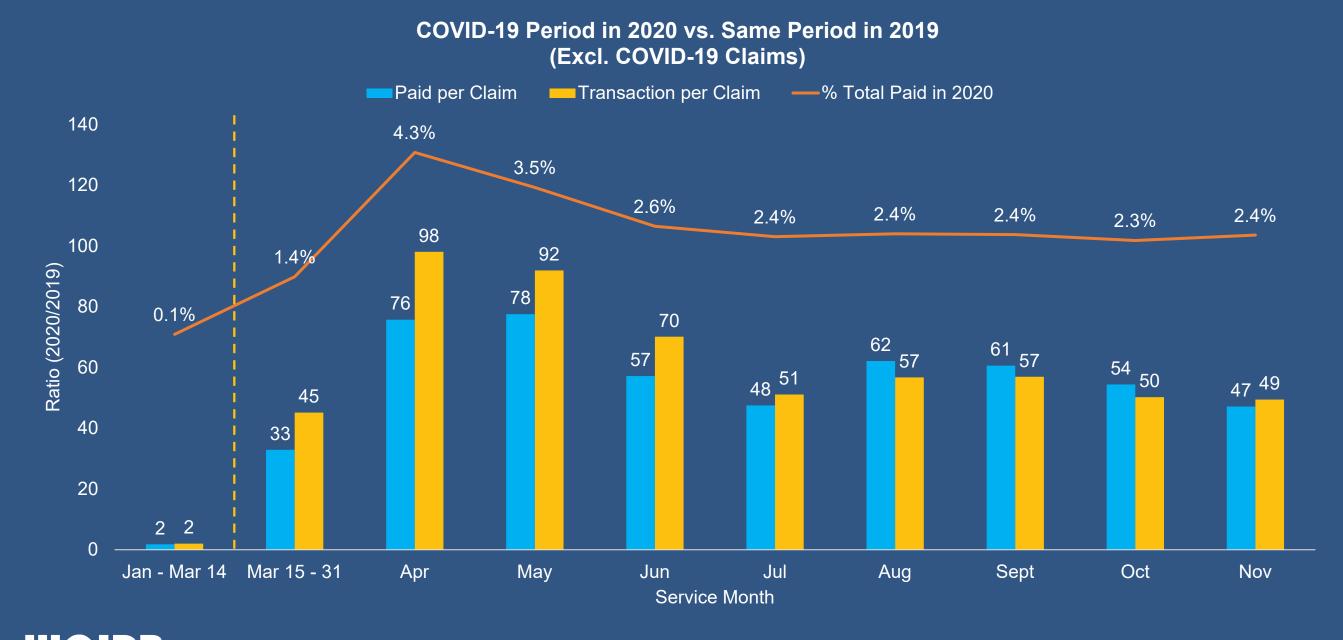
COVID-19 Period in 2020 vs. Same Period in 2019 (Excl. COVID-19 Claims)



Changes in Telemedicine Services

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As of March 1, 2021

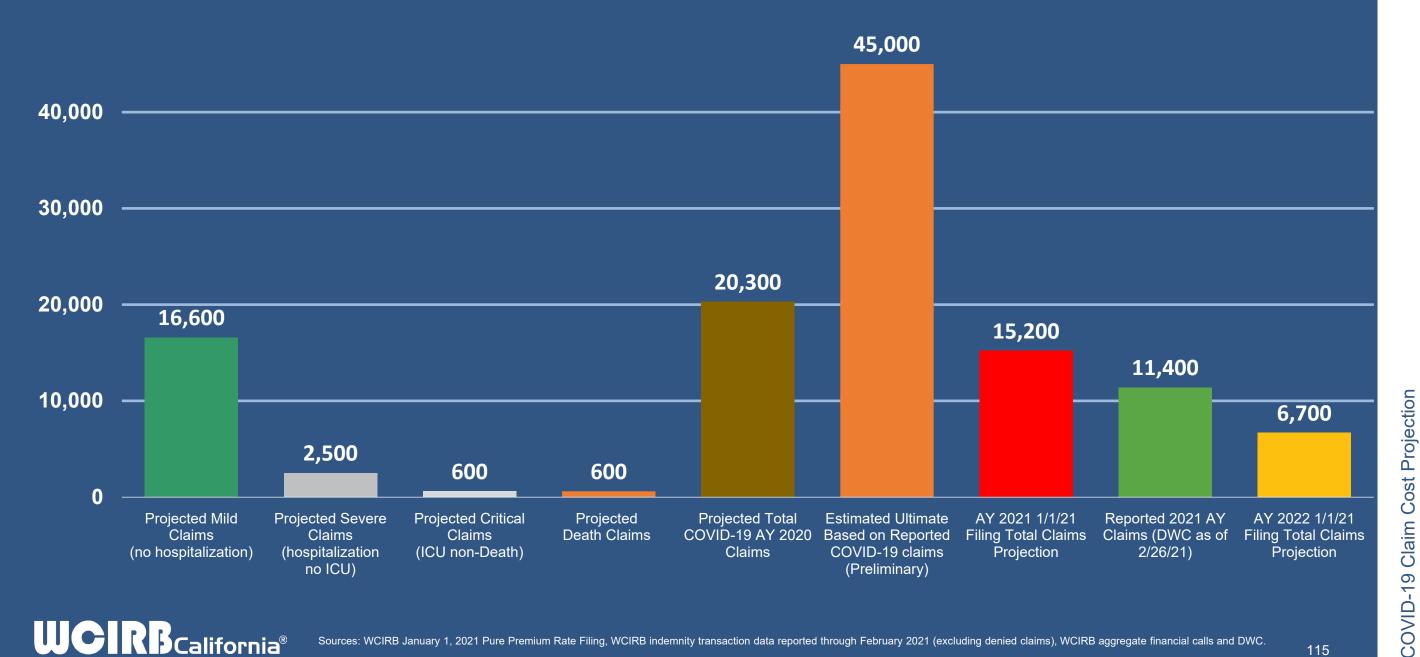


07

9/1/2021 Filing – COVID-19 Claim Cost Projection

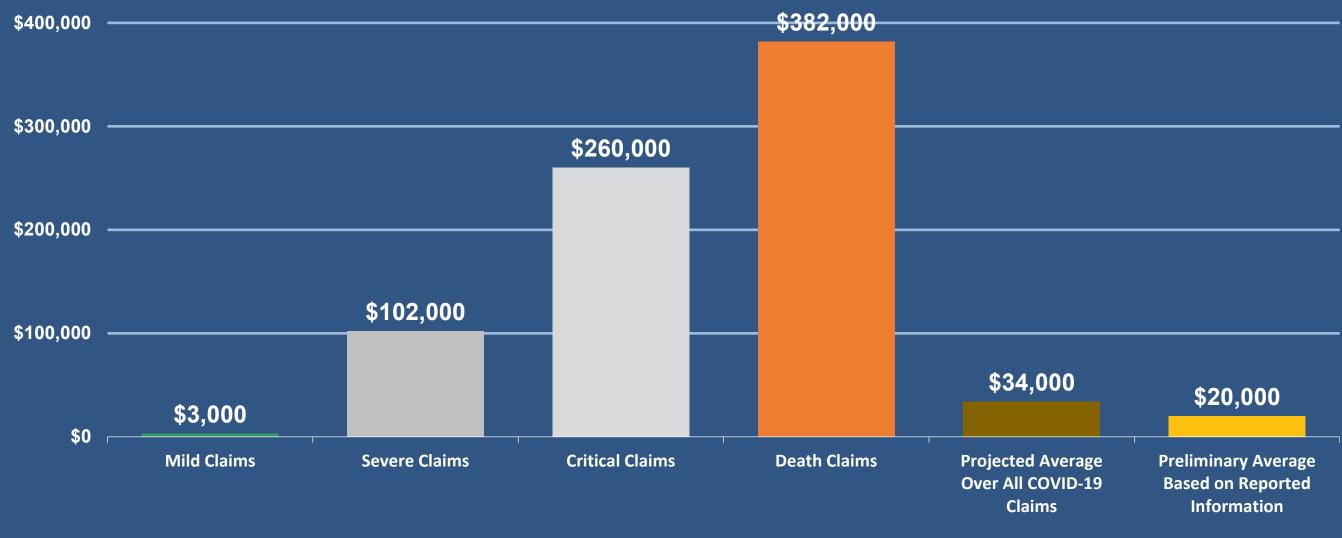


Projected Accident Year 2020 California Workers' Compensation **COVID-19 Claim Counts — Insured Employers Only**





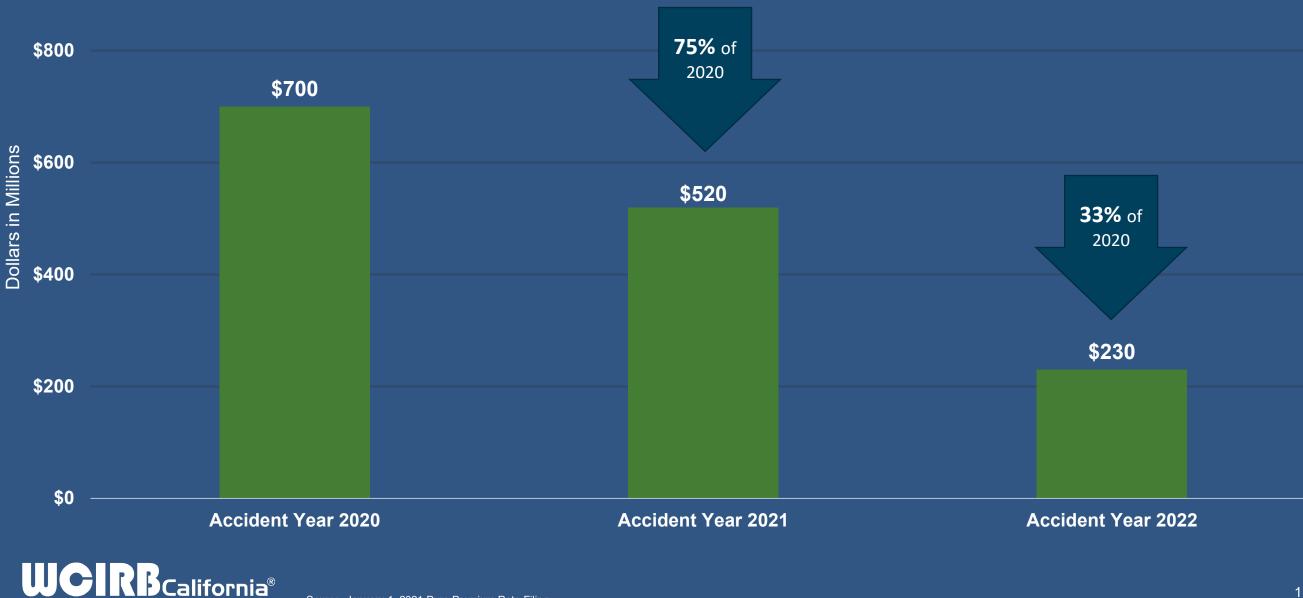
Projected Accident Year 2020 California Workers' Compensation COVID-19 Claim Severity — Insured Employers Only



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Projected Cost of COVID-19 Claims — Insured Employers Only



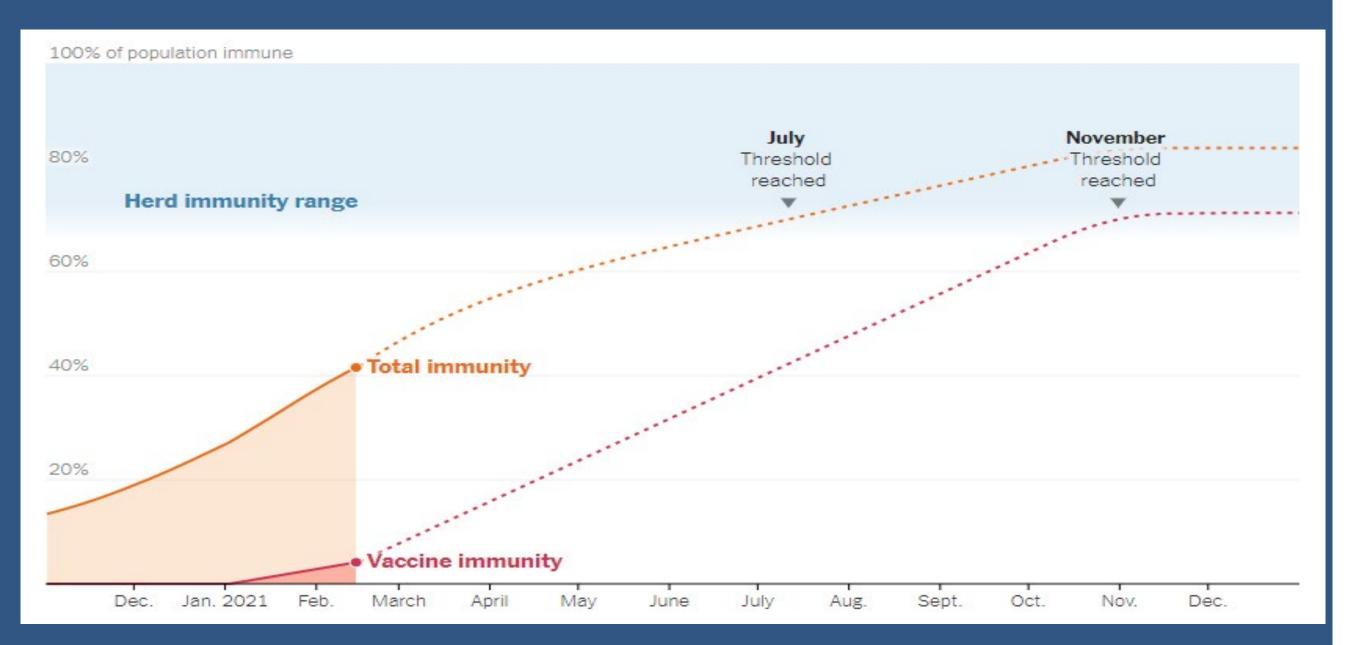
COVID-19 Claim Cost Projection

Forecasts for COVID-19 in 2021

- Limited forecasts for COVID-19 cases available beyond four weeks into the future
- Three published forecasts for COVID-19 in 2021 indicated a small number of COVID deaths would occur after summer 2021
 - Potentially near herd immunity (60-80% of the population immune) via vaccination and infections by end of summer (July-August)
 - Immunity would last at least through 2021
 - COVID-19 deaths and hospitalizations may drop to low levels even before summer (May-July 2021)
 - High-risk individuals prioritized for vaccinations
 - Vaccinations accelerated
 - New vaccines getting approved
 - Key forecasts for CA and the U.S.
 - IHME: 62k deaths in California by July 1, 2021 (plateau starting in June)
 - YYG-MIT: 600k deaths in the U.S. through end of 2021 (deaths negligible after July)
 - Herd immunity modeling: 100k in the U.S. between mid-Feb and July, when herd immunity is achieved
- Limited evidence of a significant COVID-19 exposure on policies incepting on or after September 1, 2021



Modeled Path to Herd Immunity





Source: When Could the United States Reach Herd Immunity? It's Complicated. NYT, Feb 20, 2021. <u>https://www.nytimes.com/interactive/2021/02/20/us/us-herd-immunity-covid.html?action=click&module=Top%20Stories&pgtype=Homepage</u>

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