Oregon Tort Reform
Impact on Medical Liability and Access to Healthcare

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Overview of Presentation

- Scope and Overall Results
- Empirical Evidence
- Access to Healthcare
- Other Considerations
- Appendix – Claim Severity Model
Topic 1: Scope and Overall Results
Scope of Analysis

- Effect on Prospective Medical Liability Indemnity and Claim Expense Payments
  - Average Indemnity and Expense per Claim
  - Number of claims
- Provide Empirical Evidence Based on Oregon and Other States
- Summarize Evidence on Access to Healthcare
Overall Results

- 26% Increase in Average Loss per Bodily Injury Claim
- 15% Increase in Bodily Injury Costs Due to Additional Claims
- $27 million in Additional Indemnity and Claim Defense Costs
Data Underlying Statistical Model of Oregon Medical Liability Claims

- Based on Oregon Closed Claim Data
- Data Provided by Three Largest Providers of Medical Liability Coverage in Oregon
- Approximately 24,000 claims over 15+ years
- 25+ fields maintained in database
- Resulting model yielded a process with 1,000,000 simulated occurrences of medical misadventure
Topic 2: Empirical Evidence
Oregon Average Medical Liability Indemnity Payment – Impact of BI Cap Overturn in 1999

Source: Milliman analysis of data from the National Practitioner Data Bank Public Use Data File.

Increase in observed 2017 and 2018 severities is due to an increase in the number of large claims exceeding $2M, consistent with national trends.
Oregon Claim Frequency Relative to Countrywide

Source: Milliman analysis of data from the National Practitioner Data Bank Public Use Data File and the American Medical Association.
Claim Frequency of the Seven States Implementing Tort Reform 2003 – 2005 Relative to All Others

Source: Milliman analysis of data from the National Practitioner Data Bank Public Use Data File and the American Medical Association. Tort reform states are Florida, Mississippi, Nevada, Oklahoma, South Carolina, and Texas.

Data normalized to 2001.

Chart ends in 2013 since cap on damages was overturned in Florida in 2014.
Why Do Caps Affect Claim Frequency?

- Claim A represents a less meritorious claim not reported under lower cap on damages.

<table>
<thead>
<tr>
<th>Claim</th>
<th>Alleged Non-Economic Damages</th>
<th>Cap on Damages</th>
<th>Probability of Plaintiff Verdict</th>
<th>Expected Gross Indemnity*</th>
<th>Expected Net Financial Value**</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$1,000,000</td>
<td>$1,000,000</td>
<td>20%</td>
<td>$200,000</td>
<td>$80,000</td>
</tr>
<tr>
<td>A</td>
<td>1,000,000</td>
<td>500,000</td>
<td>20%</td>
<td>100,000</td>
<td>0</td>
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</tbody>
</table>

* Calculated as the product of the capped damages and the probability of a plaintiff verdict.

**Calculated as the expected gross indemnity less fixed litigation costs of $80,000 and variable litigation costs of 20% of the capped damages.
Topic 3: Access to Healthcare
Caps Improve Physician Supply

“Reforms are associated with an increased probability of new physicians locating in the state that passed the reform.”

Caps Improve Access to High-Risk Specialists

“[…] Evidence clearly indicates an increase in physicians in high risk specialties after the adoption of noneconomic damage caps […]”

Caps Improve Access to Surgical Providers

“Malpractice insurance premiums are a significant deterrent for surgeons…. In addition, caps on malpractice damage awards attract surgeons to areas.”

Caps Improve Access to Obstetricians

“The supply of obstetrician-gynecologists decreased by 8 percent in the three years following premium increases in 1999.”

Caps Improve Access to Specialists in Rural Areas

“Caps appear to increase the supply of frontier rural, specialist physicians by 10-12 percent.”

Topic 4: Other Considerations
Other Considerations

- **Oral Discussion** - This document is not complete without the accompanying oral discussion and explanation of the underlying projections, results and variability.

- **Limited Distribution** – This document should not be distributed, disclosed, or otherwise furnished, in whole or in part, without the express written consent of Milliman.

- **Reliance on Data** - In performing this analysis, we relied upon data provided by others, as documented throughout this presentation. We performed a limited review of the data used directly in our analysis for reasonableness and consistency. If there are material defects in the data, it is possible that they would be uncovered by a detailed, systematic review and comparison of the data to search for data values that are questionable or relationships that are materially inconsistent. Such a detailed review was beyond the scope of our assignment.
Appendix: Claim Severity Model
Overview of Claim Cost Model
Oregon Medical Liability Claims

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- 24,000+ claims over 15+ years
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Overview of Claim Cost Model
Steps of Simulation Process
Overview of Claim Cost Model
Occurrence of Medical Misadventure

Underlying Allegation
- Wrongful Death
- Bodily Injury

Number of Claims
- Wrongful Death
- Bodily Injury

Outcome
- Indemnity Payment
- No Indemnity
Overview of Claim Cost Model
Claims with Indemnity Payment

<table>
<thead>
<tr>
<th>Type of Loss</th>
<th>Non-Economic</th>
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<tbody>
<tr>
<td>Economic</td>
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<tr>
<td></td>
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Cap on Type

<table>
<thead>
<tr>
<th>Cap on Type</th>
<th>Wrongful Death</th>
<th>Bodily Injury</th>
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Different Limits Applied

Multiple Options for Caps on Damages and Policy Limits

Outcome per Scenario

<table>
<thead>
<tr>
<th>Outcome per Scenario</th>
<th>Total Indemnity</th>
<th>Total Expense</th>
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</table>
Overview of Claim Cost Model
Claims Closed with Expense Only

- Expected Indemnity vs Expected Expense Relationship

Type of Loss
- Economic
- Non-Economic

Cap on Type
- Wrongful Death
- Bodily Injury

Different Limits Applied

Multiple Options for Caps on Damages and Policy Limits

Outcome per Scenario
- Total Expense
**Reasonability Tests of Claim Cost Model**

- Tests against the Oregon Closed Claim Data
  - Test 1: Portion of claims by type
  - Test 2: Modeled severity versus calculated severity
  - Test 3: Average indemnity severity limited to $1,000,000*
  - Test 4: Average expense per claim closed with indemnity
  - Test 5: Average expense per claim closed with expense only
  - Tests 2 through 5 performed separately for Bodily Injury and Wrongful Death claims

- Objective was to Balance the Results from All the Tests Simultaneously

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* Chosen based on typical minimum policy limit of $1,000,000 per claim.
Thank you

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