

# Prevalence and Leaves Due to Long- and Short-Term Disability and Workers' Compensation for Employees with Cancer

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## Background

- United States (US) employee benefits include:
  - Sick Leave (SL) for paid time off, generally without a specific reason.
  - Short- and Long-term Disability (STD and LTD, respectively) for non-work-related injuries/illnesses.
  - Workers' Compensation (WC) for work-related injuries/illnesses.
- Absences due to SL, STD, LTD, and WC can have significant impact on business performance.
- Employers are intensifying efforts to manage these benefits and make connections with employee health.
- The 2020 Kaiser Family Foundation survey on employer health benefits<sup>1</sup> provides an excellent overview of typical employer coverage for direct medical and prescription costs.
  - It did not include any information on Sick Leave, Short- and Long-term Disability or Workers' Compensation.
- Published research on absence costs and lost time often inappropriately uses:
  - Proxies and subjective data (from surveys) to estimate absences, which:
    - Are subject to recall issues.
    - May report absences or impairments that didn't occur during their work hours.
  - Constant dollars and fixed salary-replacement percentages to estimate absence costs across benefits and diseases.
- This study compares all-cause STD, LTD, and WC utilization and explores changes from baseline for employees with cancer.

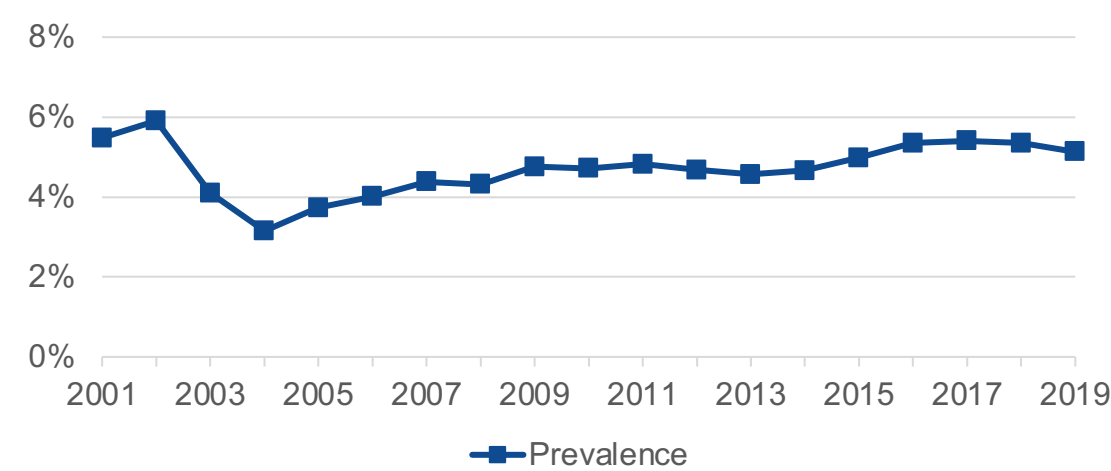
## Study Population

- US employees within the Workpartners (formerly HCMS) Research Reference Database (RRDb) from 2001–2019.
- Workpartners RRDb contains:
  - Medical and pharmaceutical claims for over 3 million employees and dependents from multiple US private sector employers in the medical, retail, service, manufacturing, transportation, energy, technology, financial, and utility industries.
  - Enhanced employee demographics (including self-reported race).
  - Job-related employee information (salary, job type, full/part-time status, exempt/non-exempt status).
  - Employees in all states.
  - Claims with absence durations and payments for employee populations eligible for STD=1.2 million, LTD=1.1 million, WC=1.4 million, SL=710,000.
- The Workpartners RRDb has been used for research in:
  - Specialty pharmacy-managed conditions such as hepatitis-C,<sup>2,3</sup> rheumatoid arthritis,<sup>4</sup> acromegaly<sup>5</sup> and multiple sclerosis.<sup>6,7</sup>
  - Various other conditions.

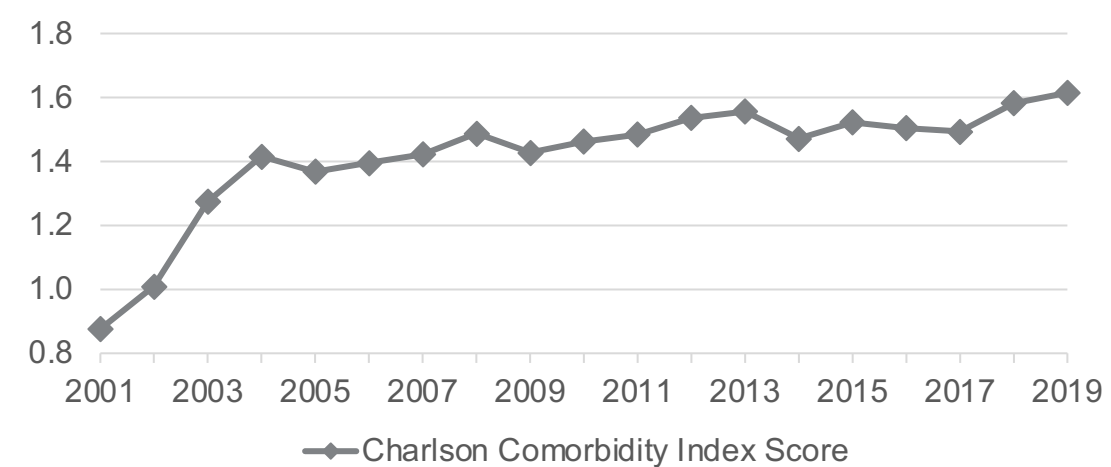
## Methods

- Retrospective analysis of US employees in each year with medical claims in the Workpartners RRDb from the US Agency for Healthcare Research and Quality (AHRQ) oncology (ONC) cancer category.
- For cancer conditions, each year the analysis focused on:
  - The prevalence and Charlson Comorbidity Index score<sup>8</sup> for each year's population.
  - The percent of eligible employees utilizing each benefit.
  - Mean days of leaves.
  - Median payments as a percent of salary.
- Short- and Long-term Disability and Workers' Compensation payments included lump-sum distributions and potentially extended beyond the year initially incurred.
- Workplace accidents were paid under the Workers' Compensation benefit.
- Excluded claims:
  - Workers' Compensation claims without absence from work (medical only).
  - Sick Leave claims may be taken for any reason and were excluded.
- All employees' absences were aggregated based on the initiation year.
- For each benefit, average days of leaves and median payment were calculated and compared with baseline (2001).

### Annual Disease Prevalence

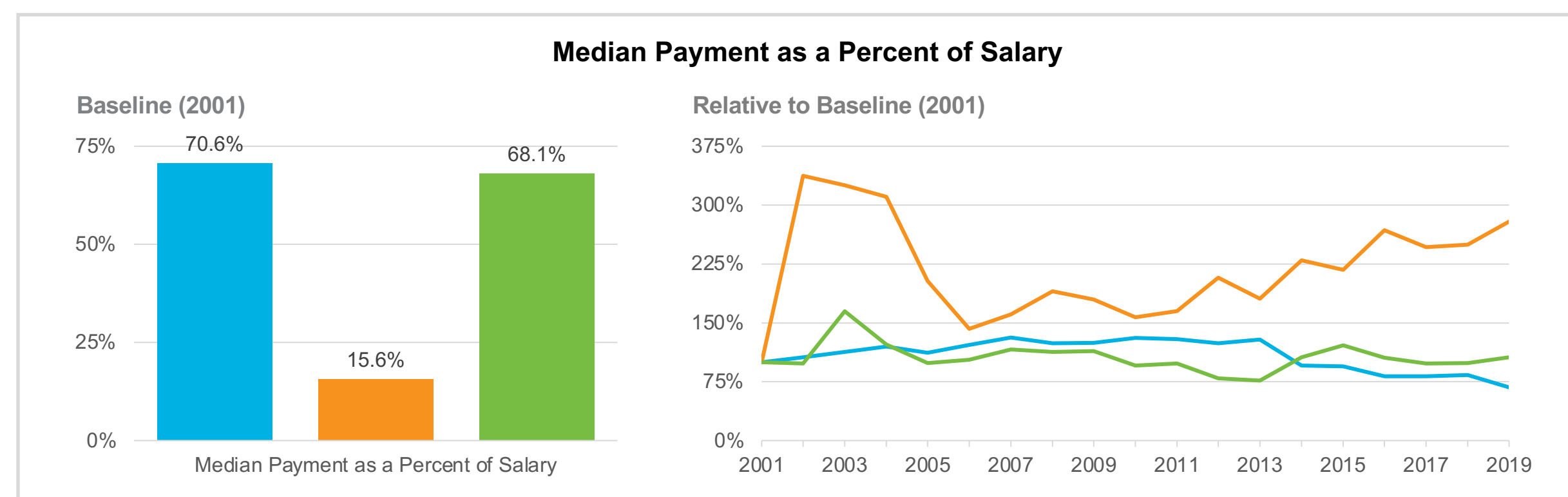
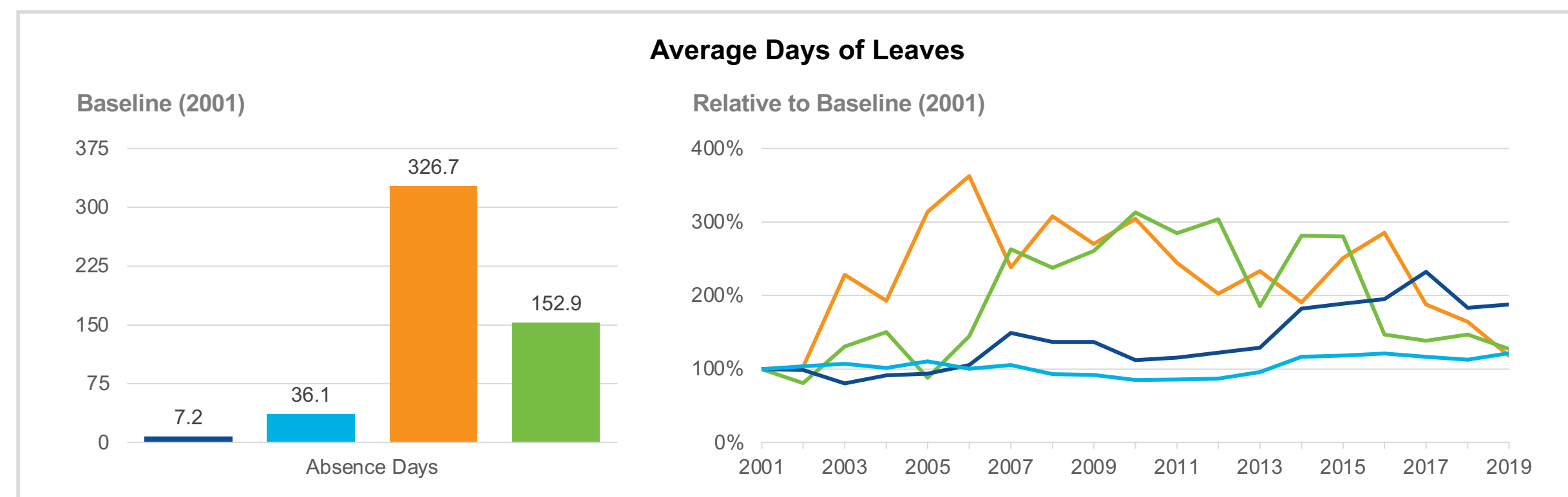
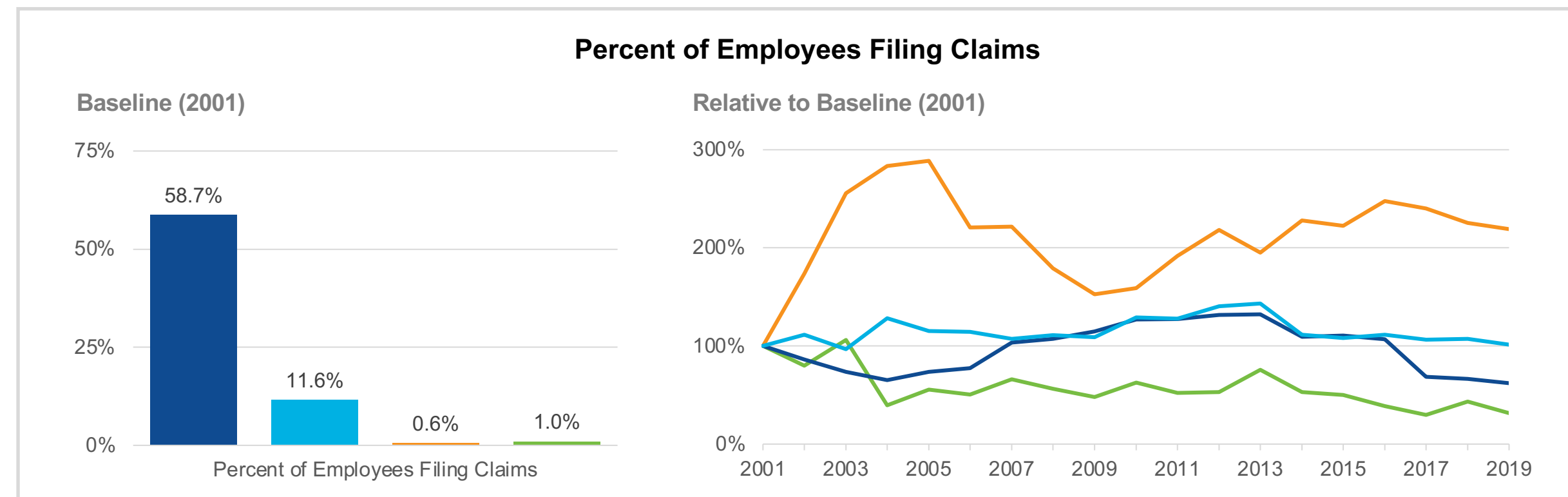


### Annual Charlson Comorbidity Index Scores



## Results

Legend: Sick Leave (Blue), Short-term Disability (Cyan), Long-term Disability (Orange), Workers' Compensation (Green)



## Most Impacted Years

	STD	LTD	WC
Highest median payments	2010	2002	2003
Most days of leaves	2019	2006	2010

- Sick leave payments are equal to salary. The most sick days were taken in 2017.

## Conclusions

- The percent of employees with cancer conditions and related disease categories has been increasing since 2004 and the percent of employees filing claims varies by benefit.
- For each benefit, the days of leave and payments as a percent of salary vary over time.
- Using a constant cost or salary replacement factor over time for all benefits is not accurate or appropriate.

## Implications for Policy or Practice

- Coordination of benefits is important.
- Analysis of the impact of workplace accident and disability leaves and payments, by using a constant salary-replacement factor, is inappropriate.
- Person-level data by year and benefit should be used.

## References

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