Trends in Medical Professional Liability The Recent and More Distant Past

Jeffery J. Smith, FCAS, MAAA, CPCU, ARe Vice President and Chief Actuary, NORCAL Group

> "The past, like the future, is indefinite and exists only as a spectrum of possibilities" - Stephen Hawking



Combined Results of: NORCAL, PMSLIC, COPIC, ISMIE

- 1. Companies have broad range of insureds
- 2. Undistorted by changes by large shifts in geographical distributions and product offerings
- 3. Normalized by company relative representation fixed through time
- 4. Combined results/Non-state specific, though combination and weighting might vary by variable
- 5. Losses and count Projected to "Best Estimate"; not just referencing Schedule P ultimates



► Reserve Releases - The recent past 15 years

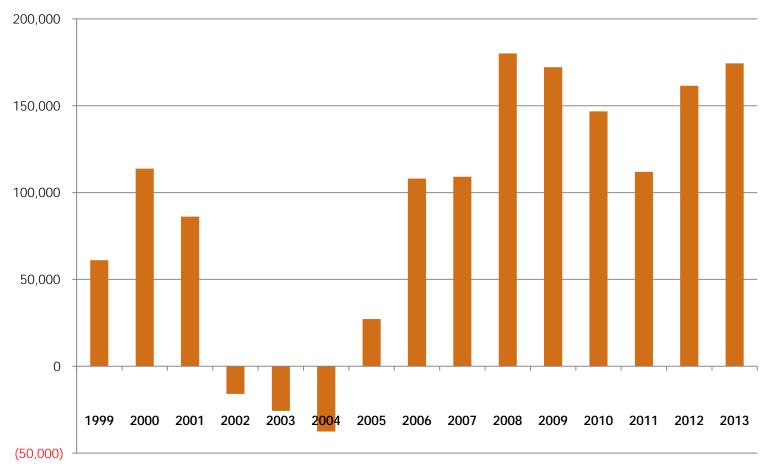
Frequency and closing type patterns - The past 35 years

Relationships between reported frequency and claim types

Indemnity and ALAE severity trends - the past 15 years



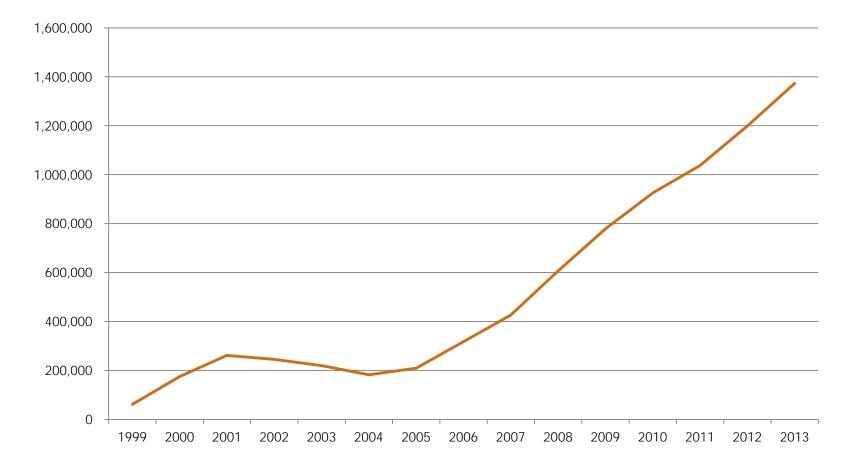
Annual Net Reserve (\$) Release



1999 to 2001: Average release \$80M 2002 to 2004: Strengthening period 2005 to 2013: Release average of \$125M per annum



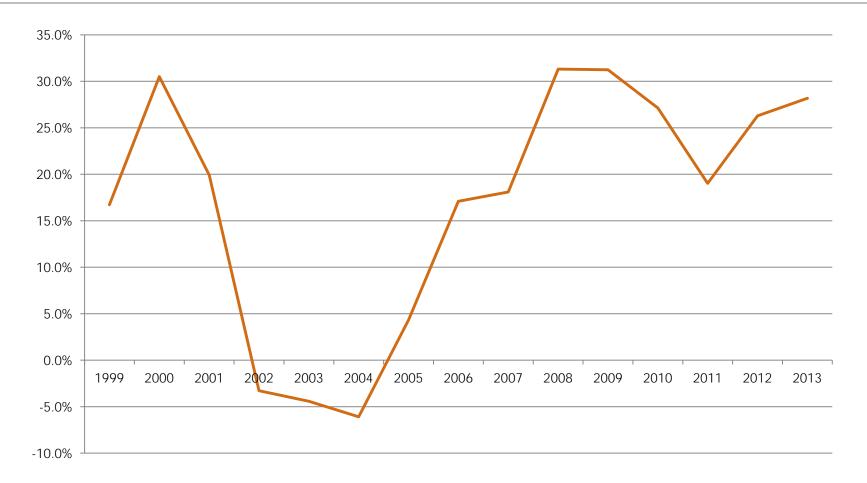
Cumulative Net Reserve (\$) Release



Steady increase of reserve releases through 2013 cumulating to \$1.4B



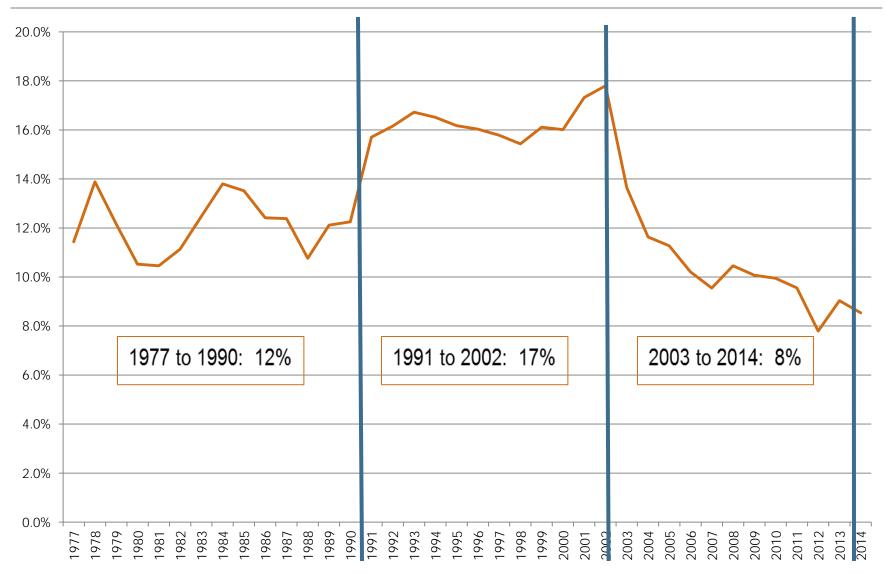
Annual Reserve Release % of Premium



Reserve releases resume in 2005; Average release has been about 27% of current year earned premium

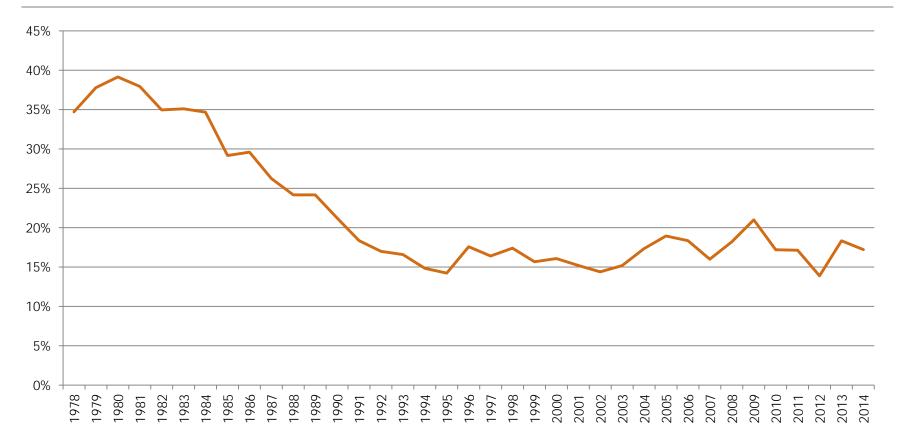


Reported Frequency 1977 to 2014





Closed with Indemnity Payment Ratio



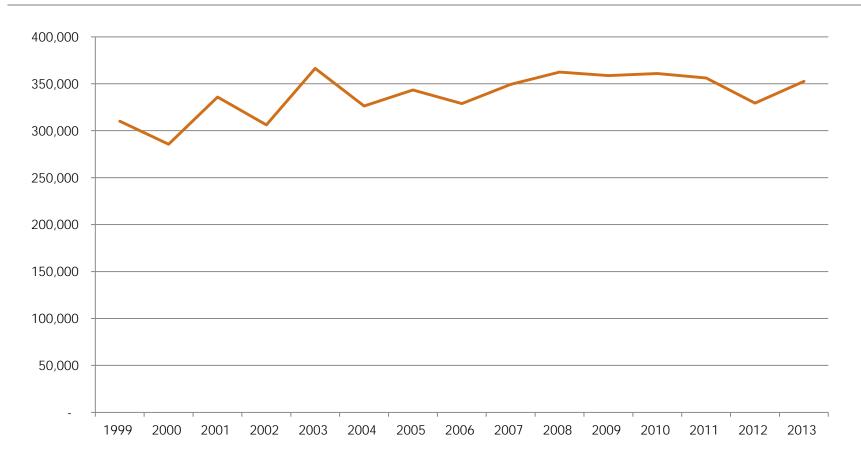
Decreases until mid nineties

Uptick as reported frequency drops

Negative correlation between reported frequency and CIP ratio in times of major changes of Reported frequency; statistically credible when large moves in reported



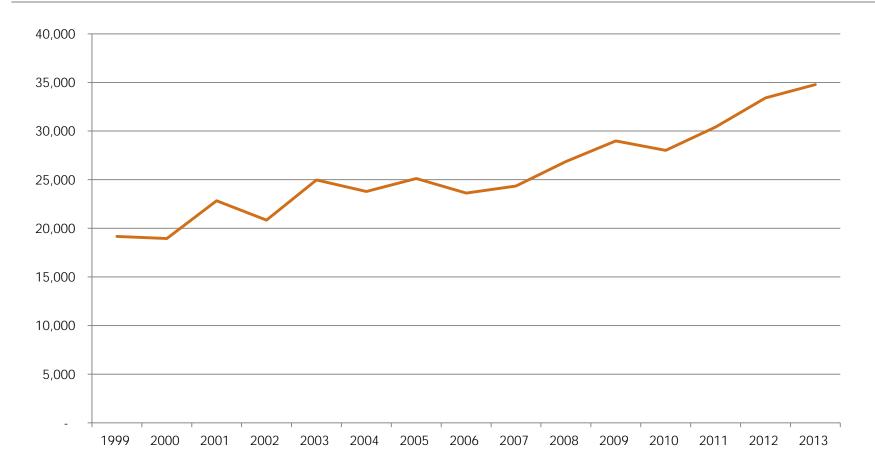
Indemnity Severity



Trends vary from 0% to 3% Fits do not give low test alphas suggesting weak fits; often no significance or 0% trend best assumption Indemnity severities remarkably flat over 2004 to 2013 period



ALAE Severity

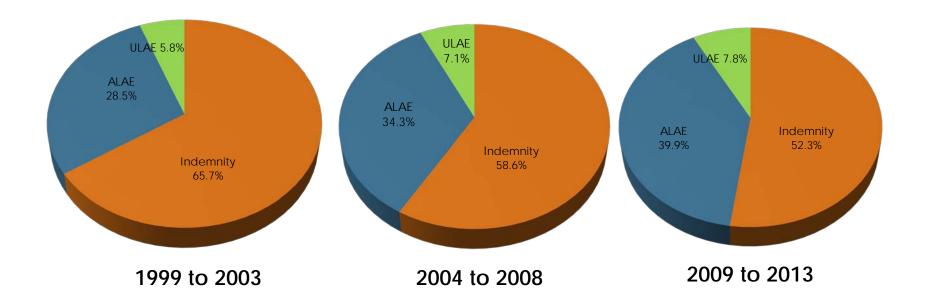


Trends vary from 4% to 8% Trends vary greatly by carrier Fits give low test alphas suggesting strong fit



Pure Premium by Loss Type

Indemnity, ALAE, and ULAE Portions



ALAE and ULAE migrating to larger percentages of LLAE pure premium over the last 14 years. Increased share is likely to continue if current trends are maintained

