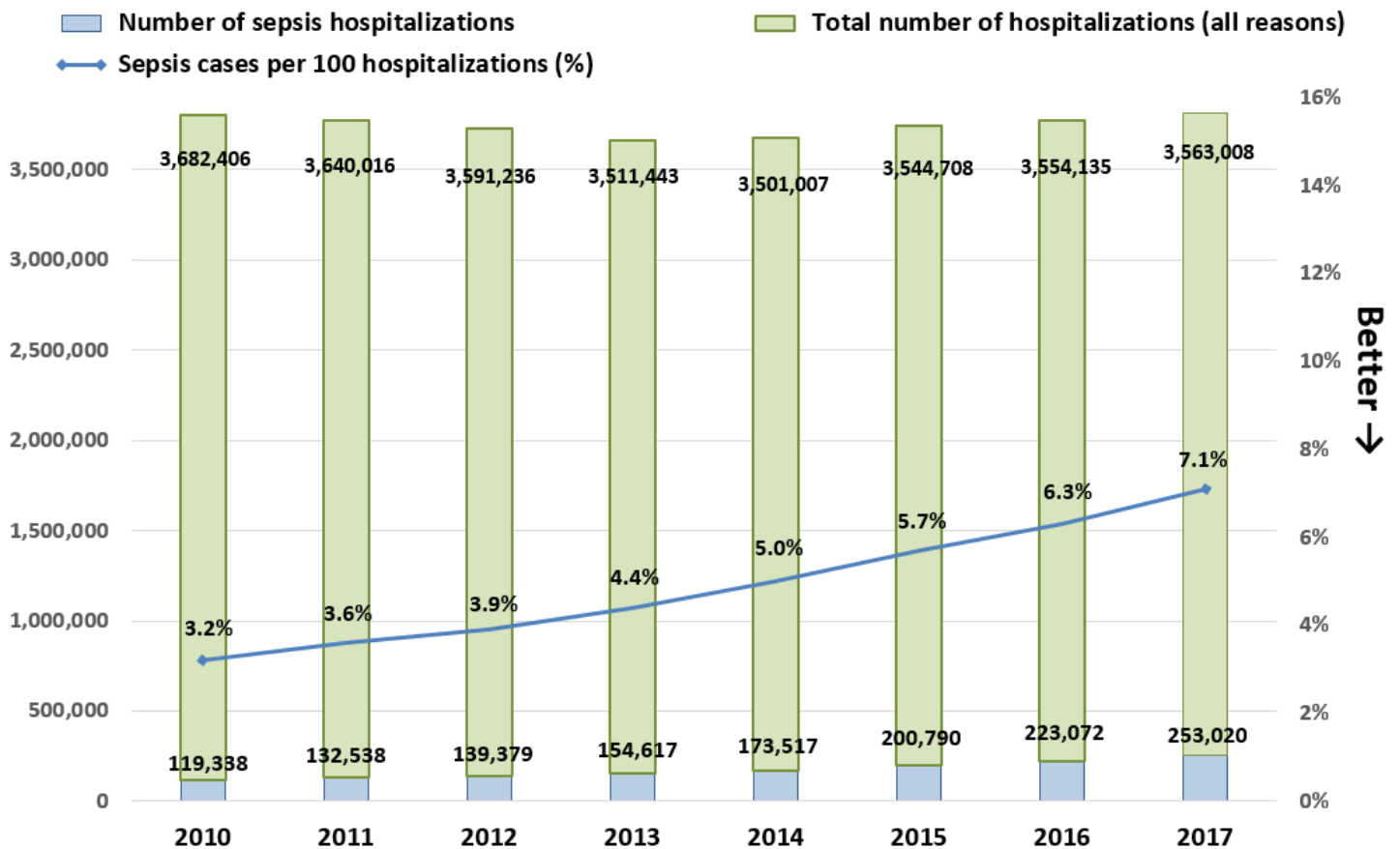


Sepsis Incidence and Mortality

California Statewide Sepsis Incidence over Time

- The figure below shows the number of sepsis hospitalizations and sepsis hospitalization rates per 100 hospitalizations (all reasons) from 2010-2017.
- From 2010 to 2017, the *number* of sepsis hospitalizations increased 112.0% from 119,338 to 253,030.
- Sepsis case hospitalizations represented 3.2% of all hospitalizations in 2010 and 7.1% in 2017 (a 119.1% increase).

Sepsis Hospitalization Rate (%)
California: 2010-2017 (Annual)^a

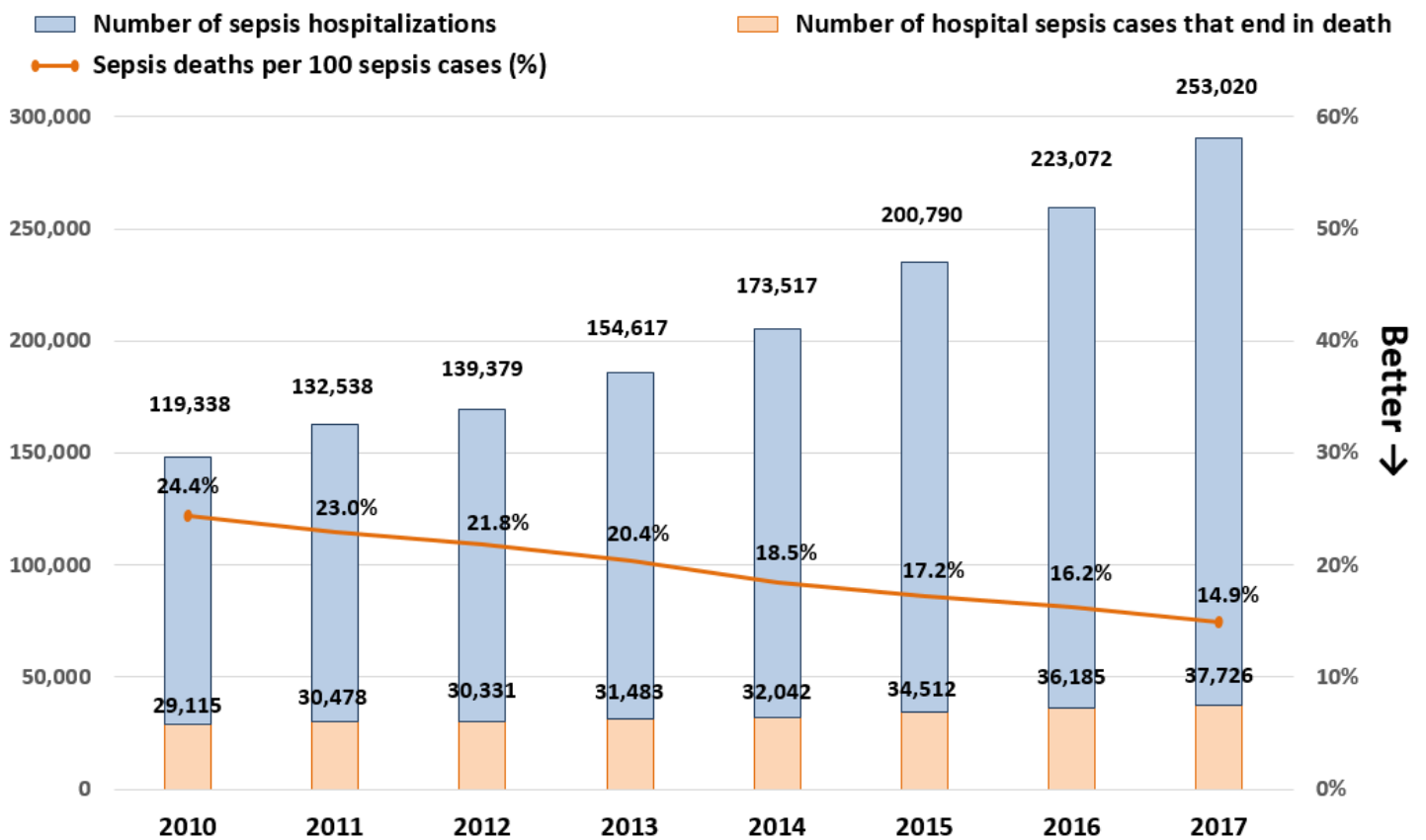


^aSource: OSHPD Discharge Data; Data reflect updated Modified Dombrovskiy Method of case identification (ICD-9 & ICD-10).

California Statewide Sepsis Mortality over Time

- The figure below shows the number of sepsis deaths and the sepsis in-hospital mortality per 100 sepsis cases from 2010-2017.
- From 2010 to 2017, the *number* of deaths among hospitalized sepsis cases increased 29.6% from 29,115 to 37,726 in California.
- During the same time period, the percentage of hospitalized sepsis cases that resulted in death decreased 38.9% from 24.4% to 14.9%.

Sepsis Case Mortality Rate (%)
California: 2010-2017 (Annual)^a



^aSource: OSHPD Discharge Data; Data reflect updated Modified Dombrovskiy Method of case identification (ICD-9 & ICD-10).

Relationship between Sepsis Incidence and Mortality in California

- As shown in the summary table below, the percentage of all hospitalizations that were sepsis-related monotonically increased 7-14% each year since 2010, with the latest increase of 13% from 2016-2017.
- During the same time period, the case-mortality rate monotonically declined 5-9% each year since 2010, with the latest reduction of 8% from 2016-2017.
- The reduction in sepsis case-mortality in California from 2010 is estimated to have saved 78,778 lives from 2011-2017.

Sepsis Measure									% Change
	2010	2011	2012	2013	2014	2015	2016	2017	2010 vs. 2017
Total number of hospitalizations (all reasons)	3,682,406	3,640,016	3,591,236	3,511,443	3,501,007	3,544,708	3,554,135	3,563,008	-3.2%
Number of sepsis hospitalizations	119,338	132,538	139,379	154,617	173,517	200,790	223,072	253,020	112.0%
Sepsis cases per 100 hospitalizations (%)	3.2%	3.6%	3.9%	4.4%	5.0%	5.7%	6.3%	7.1%	119.1%
Change sepsis hospitalization rate per year	-	12%	7%	13%	13%	14%	11%	13%	7% to 14%
Number of hospital sepsis cases that end in death	29,115	30,478	30,331	31,483	32,042	34,512	36,185	37,726	29.6%
Sepsis deaths per 100 sepsis cases (%)	24.4%	23.0%	21.8%	20.4%	18.5%	17.2%	16.2%	14.9%	-38.9%
Change in sepsis death rate per year	-	-6%	-5%	-6%	-9%	-7%	-6%	-8%	-5% to -9%
Lives saved vs. 2010 (excess if 2010 rate persisted)	-	1,857	3,673	6,239	10,291	14,475	18,238	24,004	78,778