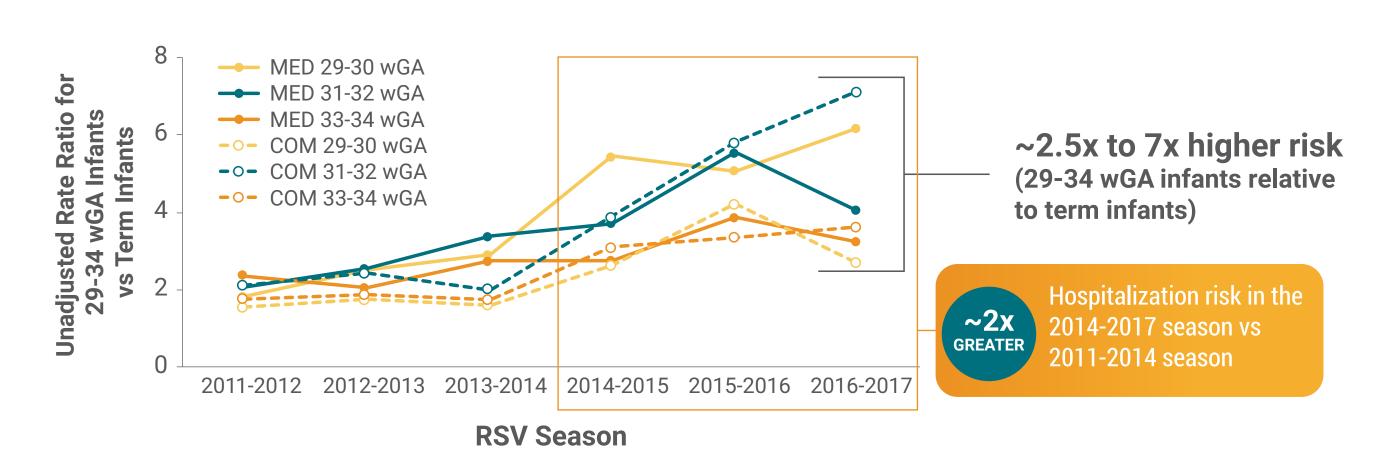
RSV hospitalization rates in US preterm infants, 2011-2017

RSV hospitalization rates and rates relative to full-term infants were higher in the RSV seasons after 2014 compared with prior seasons and were highest among preterm infants with earlier gestational age and younger chronological age (CA).¹⁻³

An examination of US RSV-specific hospitalization rates during the RSV seasons before and after 2014 using the MarketScan Commercial and Multi-State Medicaid databases and the Pediatric Health Information System¹⁻³

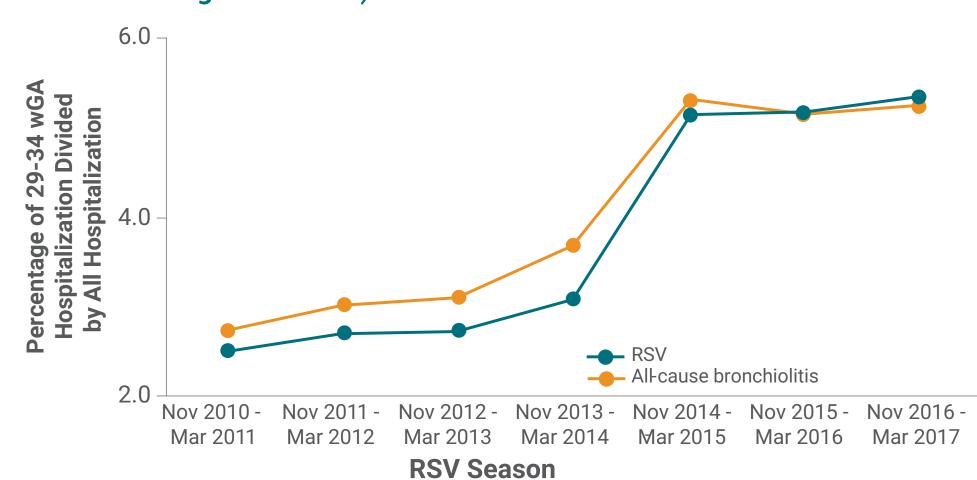
- The Goldstein et al study compared RSV hospitalization rates in infants aged <6 months in the two RSV seasons before (2012-2014) and after (2014-2016) the guidance change. The study included commercially insured infants born at 29-34 weeks' gestational age (wGA) (n=33,667) and full-term infants (n=668,619) as well as Medicaid-insured infants born at 29-34 wGA (n=51,439) and full-term infants (n=908,594)¹
- Fergie and colleagues expanded the observational, retrospective, cohort study using PHIS data and compared RSV hospitalization rates in preterm (29-34 wGA) infants with those of term infants in the 3 RSV seasons before (2011-2014) and after (2014-2017) the guidance change^{2,3}
- RSV hospitalizations were identified using ICD diagnosis codes on inpatient claims; confirmatory laboratory results were not available 1,2

When compared with full-term infants, the **risk of RSV hospitalization was significantly greater** in commercially insured and Medicaid-insured preterm infants born at 29-34 wGA and <6 months CA in the seasons after 2014¹⁻³



• The increase in the unadjusted RSV hospitalization rate ratios was observed across all gestational age subgroups for both commercially insured and Medicaid-insured infants²

Proportions of hospitalizations increased dramatically (almost 2-fold) for 29-34 wGA infants aged <6 months, when comparing the pre-AAP 2014 guidance seasons (2010-11 through 2013-14) to the post-AAP 2014 guidance seasons (2014-15 through 2016-17)^{3,*}



*The proportion of RSV hospitalizations increased after 2014 across all gestational age subgroups, except for term infants (≥37 wGA).

• The proportion of RSV hospitalizations significantly increased (*P*<0.001) for 29-34 wGA infants after 2014 (from 8.7% to 14.2%). A similar pattern was seen for BH³

For additional information on the burden of RSV disease, visit RSVHospitalization.com.

