



Specialty Care Division of AstraZeneca

LAIV Supply Update

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ACIP Meeting

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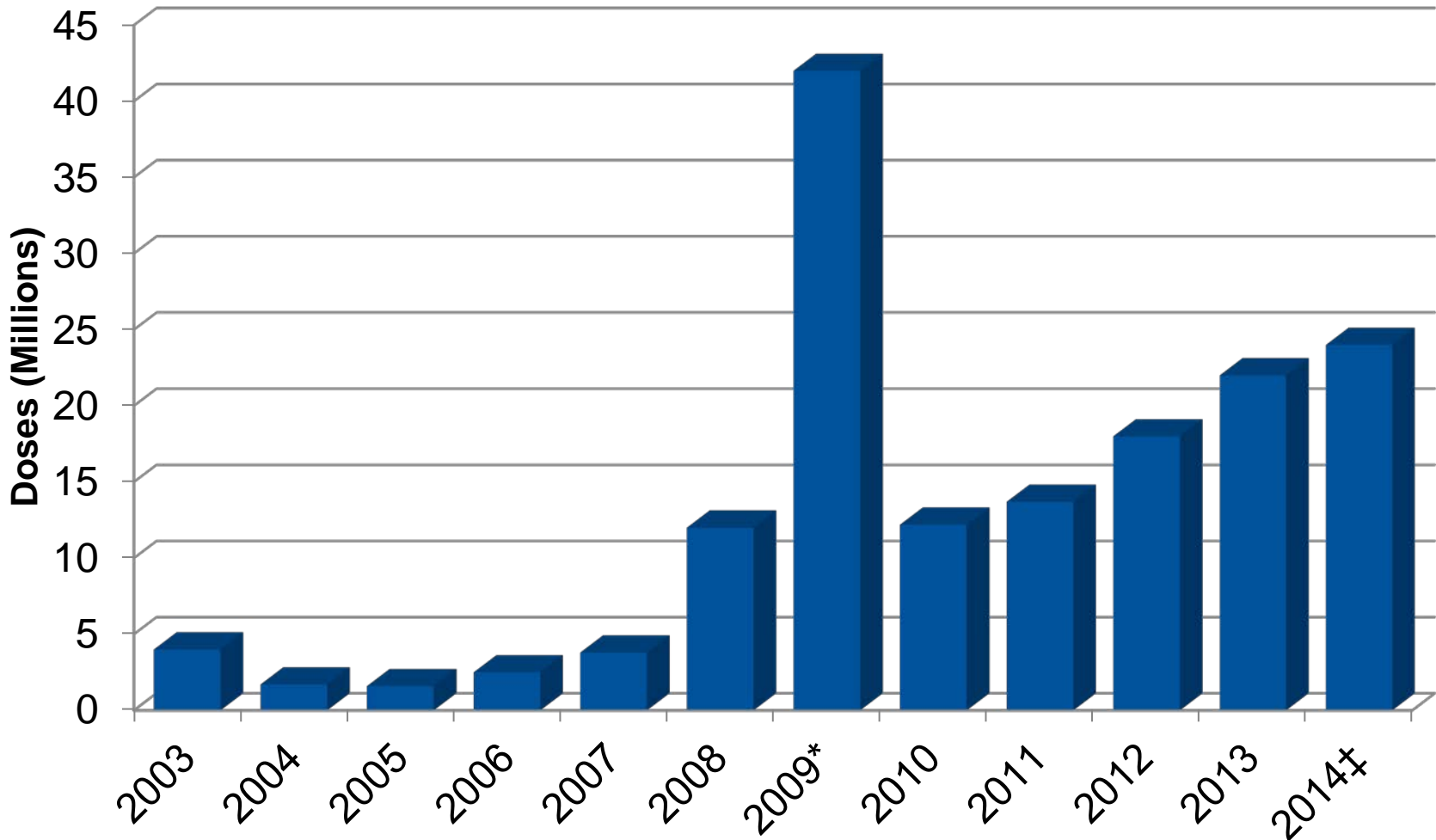
Seasonal Live Attenuated Influenza Vaccine (LAIV)

- ◆ **Approved** in US for eligible individuals 2–49 years of age
- ◆ **Contains** $10^{6.5-7.5}$ FFU* of each strain per dose
 - Quadrivalent in US starting in 2013-14 season
- ◆ **Contains no** preservatives or adjuvants
- ◆ **Stored** at 2–8°C (refrigerator)
- ◆ **Administered** as nasal spray
- ◆ **>75 million doses** distributed since 2003

*Fluorescent focus units



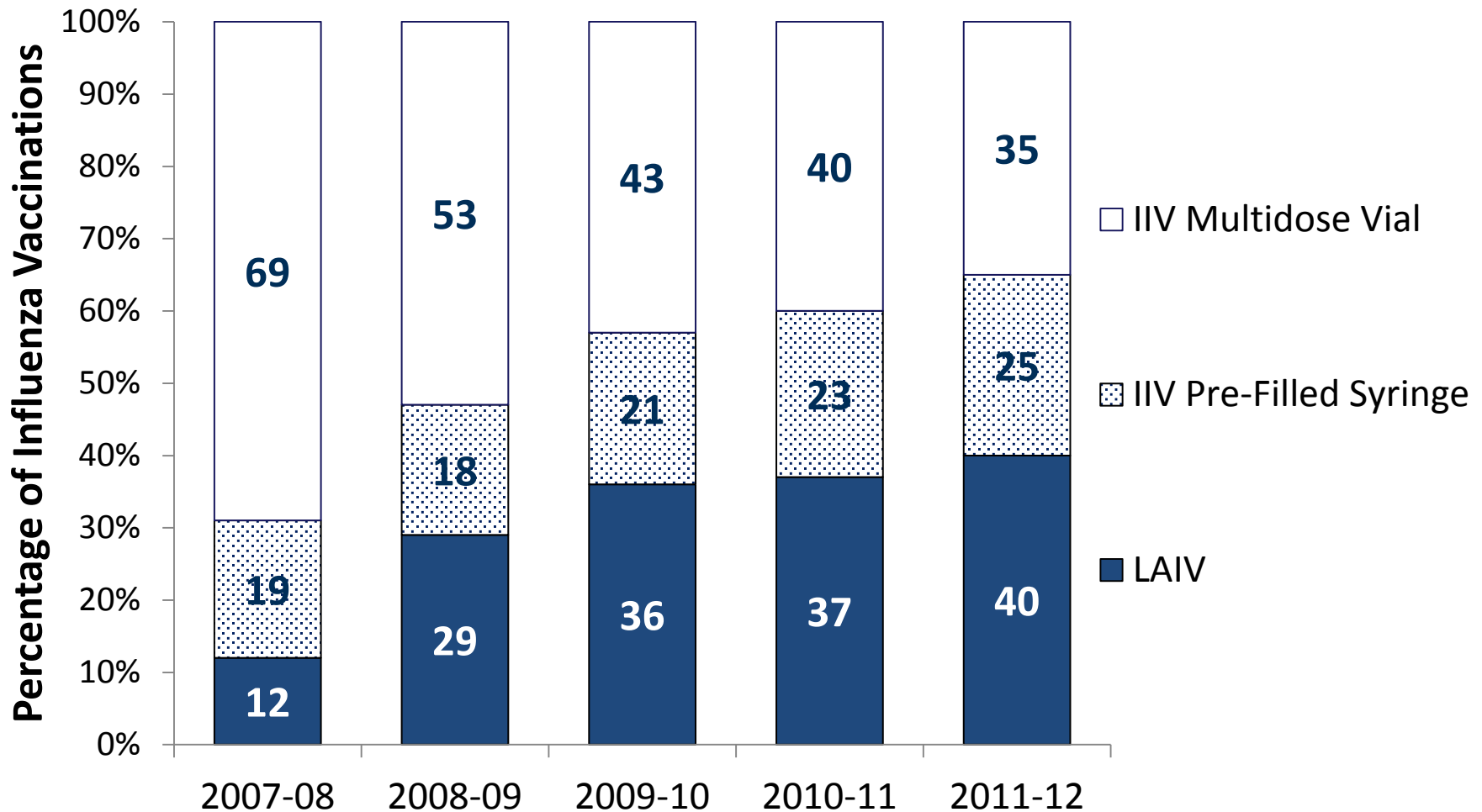
Total Doses of LAIV Produced by Season



* 2009-10 doses produced includes monovalent pandemic H1N1 vaccine doses

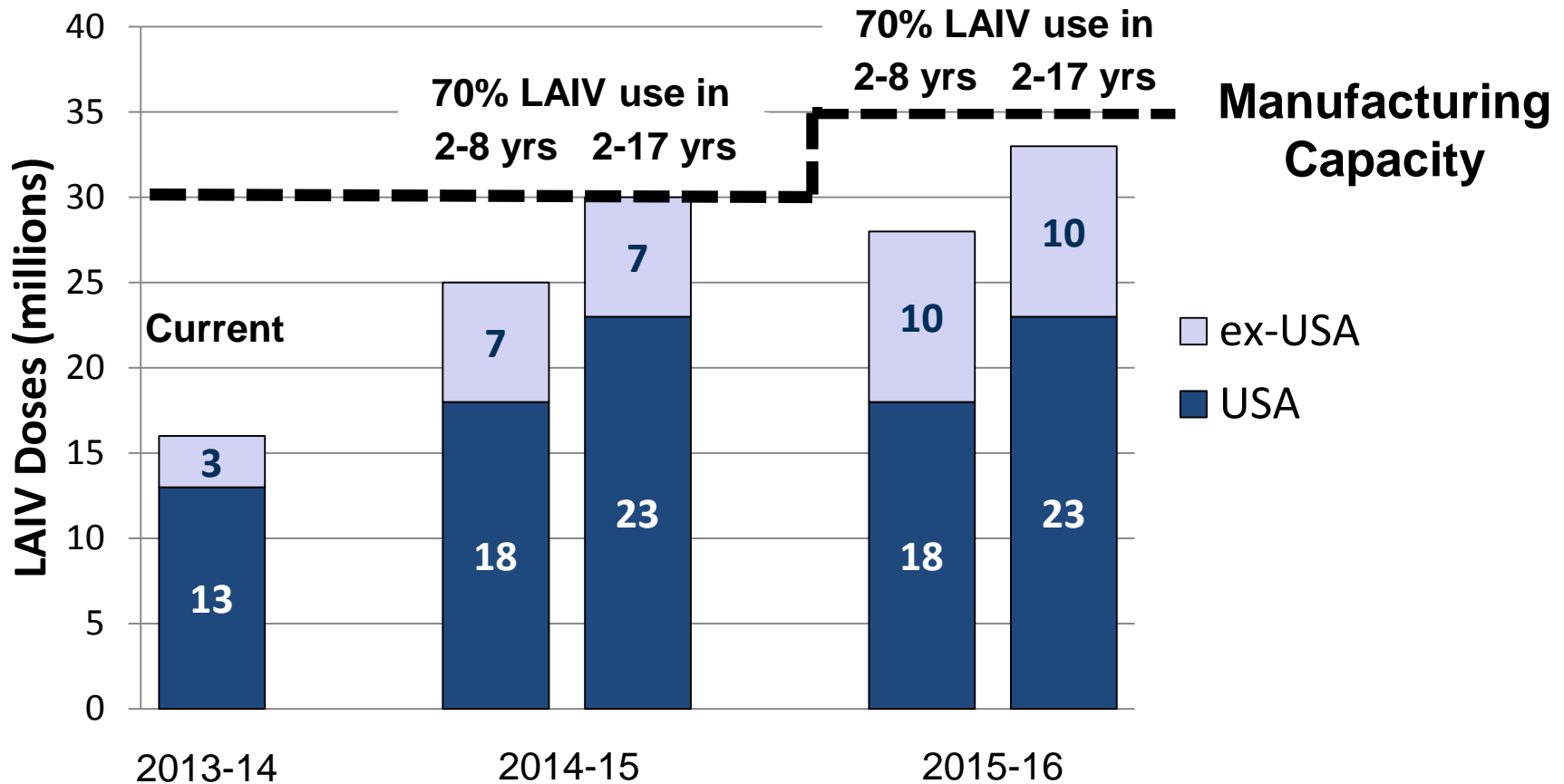
‡ 2014-15 doses produced is tentative forecast number

LAIV Has Been Increasingly Administered to US Children 2-17 Years of Age*



* Based on national insurance claims data; Excludes 2009 H1N1 pandemic vaccinations. Presented by Antonova et al. at 2013 ID Week, Oct 2-6 , 2013

Current and Projected LAIV Manufacturing Capacity Compared to Potential Demand



- Estimates assume 50% vaccination rate of US children 2-17 years (any vaccine type).
- Manufacturing capacity projected to increase to 47 million doses for 2016-17 season.

LAIV Supply Summary

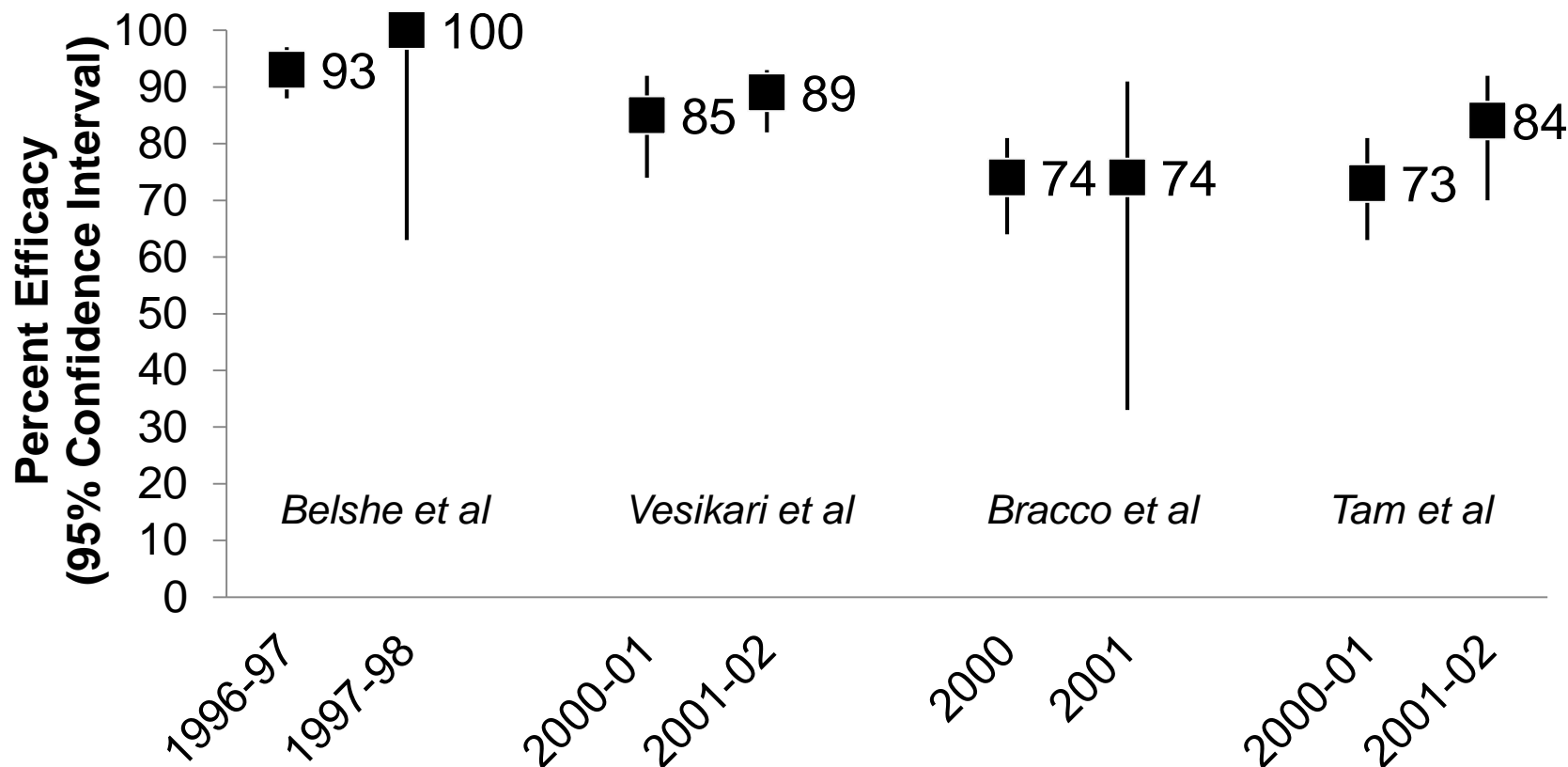
- Current and projected manufacturing capacity is sufficient for eligible US children 2-17 years
 - At current and higher future LAIV use
 - At current and higher future vaccination coverage
 - For US and ex-US demand
- Additional increases in demand can be met by further increases in manufacturing capacity

Thank You



LAIV Efficacy in First and Second Seasons of Vaccination

*4 Randomized Placebo-controlled Studies, All Matched Strains
Two doses in Year 1, One dose in Year 2*



Study 1: Belshe et al., 1998; NEJM 338:1405-1412. Belshe et al., 2000; J Peds 136:168-175.

Study 2: Vesikari et al., 2006; Pediatrics 118:2298-2312.

Study 3: Bracco et al., 2009; PIDJ 28:365-371.

Study 4: Tam et al., 2007; PIDJ 26:619-628