

Supplementary Online Content

Nanduri SA, Petit S, Smelser C, et al. Epidemiology of invasive early-onset and late-onset group B streptococcal disease in the United States, 2006 to 2015: multistate laboratory and population-based surveillance. *JAMA Pediatr*. Published online January 14, 2019. doi: 10.1001/jamapediatrics.2018.4826.

eFigure. Distribution of early- and late-onset disease cases by infant gestational age at birth and age at onset, all ABCs sites, 2006-2015

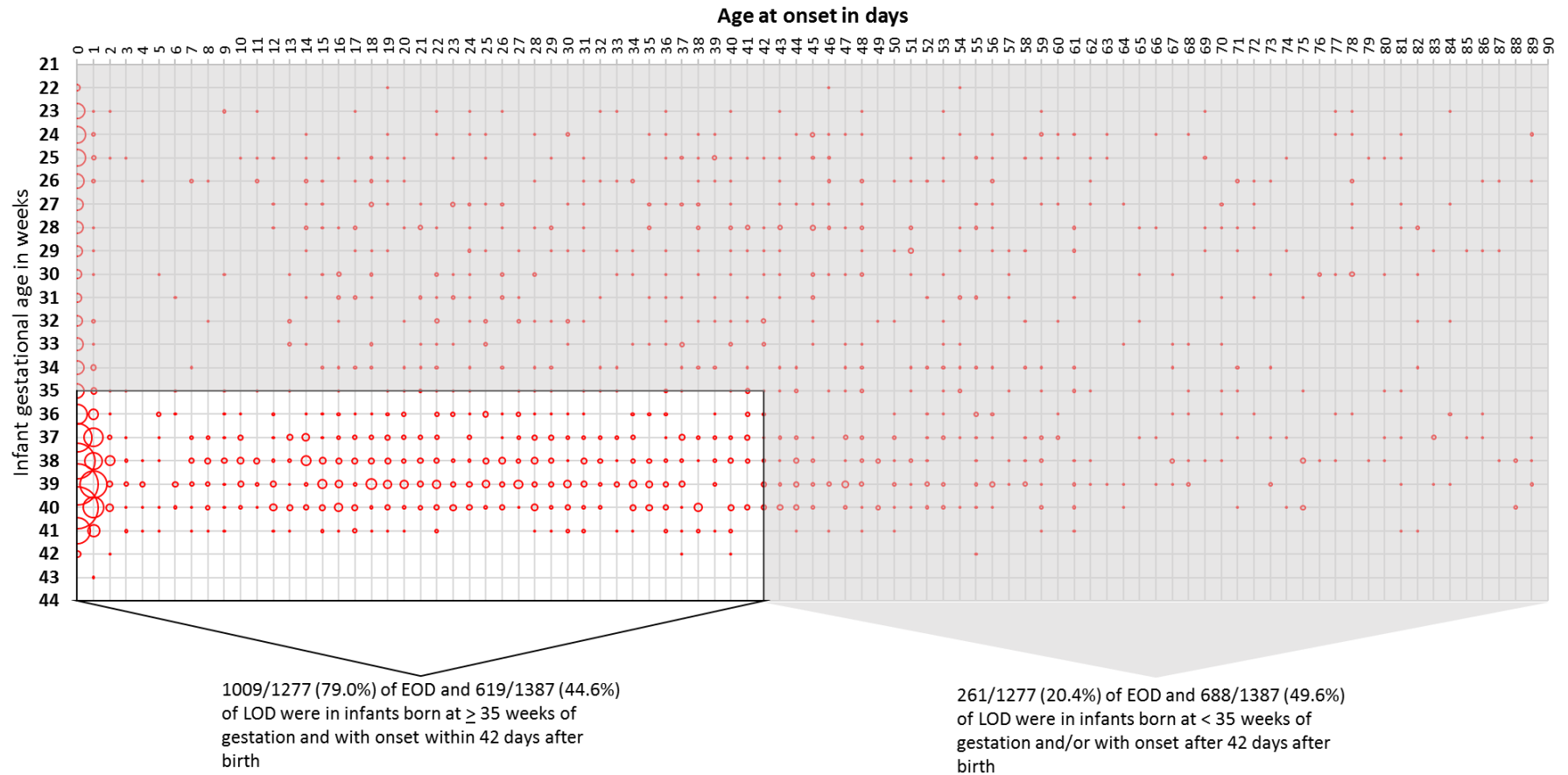
eTable 1. Distribution of early- and late-onset disease cases by infant gestational age at birth and age at onset, all ABCs sites, 2006-2015 (accompanying table to eFigure 1)

eTable 2. Differences in serotype distribution among EOD cases in infants born <35 weeks of gestation and those born >35 weeks of gestation, 7 ABCs sites, 2006-2015

eTable 3. Differences in serotype distribution among LOD cases in infants born <35 weeks of gestation and/or with onset >42 days of life, and those in infants born >35 weeks of gestation and with onset within 42 days of life, 7 ABCs sites, 2006-2015

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure. Distribution of early- and late-onset disease cases by infant gestational age at birth in weeks and age at onset in days, all ABCs site, 2006-2015. The size of the bubbles is proportional to case counts. Data provided in eTable1.



eTable 1. Distribution of early- and late-onset disease cases by infant gestational age at birth in weeks and age at onset in days, all ABCs site, 2006-2015 (accompanying table to eFigure)

INFANT GESTATIONAL AGE AT BIRTH IN WEEKS	AGE AT DISEASE ONSET IN DAYS																												
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Unknown	5	2	1	0	1	0	0	0	0	2	0	0	1	0	2	0	1	0	1	1	0	0	0	1	0	0	1	0	1
43	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	72	17	0	2	1	1	0	1	1	1	0	0	1	1	0	2	1	3	1	1	1	0	2	0	0	0	0	0	1
40	180	48	7	1	1	1	2	1	3	1	2	1	6	5	4	5	9	5	2	4	2	3	4	5	4	2	4	1	6
39	175	78	5	3	4	0	4	3	3	1	5	2	5	1	2	1	7	2	3	8	9	5	8	4	4	7	4	9	4
38	130	32	11	2	1	1	0	4	5	4	6	5	2	2	1	6	5	5	5	5	3	4	4	2	2	5	6	3	6
37	88	38	3	1	0	1	0	2	2	1	4	0	1	5	7	1	2	3	3	4	3	3	3	0	3	0	1	2	4
36	41	12	1	0	0	3	1	0	0	1	1	0	2	0	1	1	2	1	1	2	3	0	3	3	1	4	1	3	1
35	23	5	1	1	0	0	1	0	0	1	0	1	0	1	0	0	1	0	0	1	1	2	1	1	1	0	0	1	1
34	21	4	0	0	0	0	0	1	0	0	0	0	0	0	0	2	1	2	2	0	1	1	2	0	1	0	2	0	1
33	18	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	2	0	0	1	1	1	0	2	0	0	0
32	13	2	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	0	1	0	3	0	1	2	0	2	1
31	10	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2	2	1	0	0	2	1	2	1	0	2	1	0
30	10	1	0	0	0	1	0	0	0	1	0	0	0	1	0	1	3	0	2	0	0	0	2	1	1	0	2	0	2
29	13	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	2	1	0	1	0
28	17	1	0	0	0	0	0	0	0	0	0	0	1	0	2	1	1	2	0	0	1	3	1	0	1	0	1	0	1
27	19	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	3	1	0	1	0	3	2	1	2	0	0
26	23	2	0	0	0	0	0	2	1	0	0	2	0	0	2	1	0	1	2	1	1	0	0	0	0	0	0	0	1
25	30	3	1	1	0	0	0	0	0	0	1	1	1	0	1	0	1	0	2	1	1	0	0	1	0	1	0	0	0
24	32	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	1	1	0	1
23	25	1	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	0	0
22	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
TOTAL	958	251	32	11	8	8	9	14	16	15	19	13	21	20	37	31	37	28	41	32	27	57	24	27	26	22	27	31	

eTable 1 (cont)

INFANT GESTATIONAL AGE AT BIRTH IN WEEKS	AGE AT DISEASE ONSET IN DAYS																													
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	
Unknown	1	0	1	2	0	2	5	1	0	6	0	1	3	0	3	1	3	2	3	0	0	3	1	2	1	1	2	0	2	
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
42	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
41	1	2	2	0	1	1	0	2	1	2	1	2	0	0	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	
40	2	4	2	2	0	5	5	4	1	9	0	5	4	4	4	4	2	0	2	1	3	1	1	2	2	1	1	1	0	
39	4	7	5	2	4	7	6	4	5	0	2	0	0	4	2	4	2	3	6	3	0	2	1	3	2	0	2	4	1	
38	4	1	5	3	1	3	3	2	2	1	2	4	3	2	1	4	2	0	1	2	3	1	2	1	0	0	1	0	1	
37	4	2	2	2	2	3	0	1	5	1	2	2	4	1	2	2	1	0	3	2	0	2	0	1	2	1	1	1	0	
36	1	1	1	0	0	2	2	2	0	0	1	0	3	2	0	0	0	0	0	0	0	1	0	1	1	0	3	2	0	
35	1	0	1	1	1	0	0	2	1	0	0	1	3	1	0	2	0	1	1	2	0	0	1	0	1	2	0	0	1	
34	2	0	0	1	1	0	0	0	1	2	2	0	1	0	1	1	0	0	1	2	0	0	1	1	2	1	1	1	0	
33	0	1	0	0	0	1	1	1	3	0	0	2	0	2	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	
32	1	2	1	0	0	0	0	1	0	1	1	1	1	3	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	
31	0	0	0	1	0	0	1	1	1	0	1	0	1	0	0	0	2	0	0	0	0	0	0	1	0	2	2	0	1	
30	0	0	0	0	1	1	0	1	0	1	0	1	0	1	1	0	2	1	1	2	0	0	1	0	1	0	0	0	1	
29	1	1	1	0	1	1	0	1	0	1	0	1	1	1	1	0	0	0	0	1	0	1	4	0	0	1	0	1	1	
28	2	0	1	0	0	0	2	0	0	2	0	2	3	1	3	0	4	2	1	2	0	0	2	0	0	1	2	1	0	
27	0	1	1	0	0	0	2	1	2	2	0	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	1	1	0	
26	0	0	1	1	1	2	0	0	0	1	1	1	0	0	1	0	0	2	0	2	0	1	1	1	1	0	0	2	0	
25	1	0	1	0	0	0	0	1	2	1	3	1	1	1	1	0	2	2	0	0	0	0	1	0	1	0	2	1	0	
24	0	2	0	0	0	0	1	1	0	1	1	0	0	0	0	1	3	1	1	1	0	0	0	0	0	1	0	1	0	
23	0	0	0	1	1	0	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
TOTAL	25	24	25	16	14	28	28	27	25	31	17	27	28	22	22	22	21	6	7	1	4	7	3	6	3	7	2	9	6	8

eTable 1 (cont)

INFANT GESTATIONAL AGE AT BIRTH IN WEEKS	AGE AT DISEASE ONSET IN DAYS																														
	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86		
Unknown	2	0	2	0	1	4	1	0	0	0	0	1	1	0	1	1	1	2	1	1	1	1	1	2	0	2	0	0	0		
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
41	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0		
40	0	2	0	2	0	0	1	0	0	0	0	0	1	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0		
39	3	1	0	2	1	1	1	0	1	1	2	0	0	0	2	0	0	0	0	0	0	0	0	1	0	1	1	0	0		
38	1	2	0	1	1	0	0	0	0	3	1	1	1	0	0	0	0	4	1	1	0	1	1	0	0	0	0	0	0		
37	1	2	2	0	0	0	0	1	1	0	0	0	1	0	1	1	0	0	0	0	0	1	1	0	3	0	1	1	1		
36	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	2	0	1	1		
35	0	1	0	2	1	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0		
34	1	1	0	1	0	0	0	0	0	1	0	0	0	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0		
33	0	0	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
32	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0		
31	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
30	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	2	1	3	0	1	0	1	0	0	0	0		
29	1	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	1	1		
28	0	0	0	2	0	0	0	1	1	0	0	1	1	1	1	0	0	0	0	0	1	0	0	1	2	0	0	0	0		
27	0	1	1	0	1	0	1	0	0	0	0	0	2	0	1	0	0	0	0	0	1	0	0	1	0	0	1	0	0		
26	0	0	0	0	1	0	0	0	0	0	0	0	2	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	1		
25	1	1	1	0	1	1	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0		
24	0	2	1	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0		
23	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0		
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTAL	11	15	9	5	7	7	5	4	4	8	7	7	8	9	6	7	5	14	6	1	4	6	1	3	6	0	6	7	6	2	4

eTable 1 (cont)

INFANT GESTATIONAL AGE AT BIRTH IN WEEKS	AGE AT DISEASE ONSET IN DAYS			
	87	88	89	Total cases by infant gestational age at birth in weeks
Unknown	1	0	2	95
43	0	0	0	1
42	0	0	0	11
41	0	0	0	133
40	0	2	0	403
39	0	0	2	490
38	1	2	1	355
37	0	0	1	252
36	0	0	0	121
35	0	0	0	77
34	0	0	0	71
33	0	0	0	48
32	0	0	0	49
31	0	0	0	44
30	0	0	0	55
29	1	0	0	52
28	0	0	0	76
27	0	0	0	62
26	1	0	1	68
25	0	0	0	79
24	0	0	2	67
23	0	0	0	46
22	0	0	0	9
TOTAL	4	4	9	2664

eTable 2 – Differences in serotype distribution among early-onset disease (EOD) cases in infants born <35 weeks of gestation and those born ≥35 weeks of gestation, 7 ABCs sites, 2006-2015

	Number of infant cases of EOD by gestational age at birth			
	<35 weeks	≥35 weeks	Unknown gestational age	
Total	190	764	5	
Serotypes in candidate vaccines	N (% of total)	N (% of total)	N (% of total)	<i>P</i> value*
la	40 (21.1%)	201 (26.3%)	1 (20.0%)	0.1401
lb	17 (9.0%)	60 (7.9%)	1 (20.0%)	0.6195
II	38 (20.0%)	99 (13.0%)	1 (20.0%)	0.0140
III	31 (16.3%)	211 (27.5%)	1 (20.0%)	0.0015
IV	13 (6.8%)	42 (5.5%)		0.4915
V	37 (19.5%)	88 (11.5%)	1 (20.0%)	0.0035

*Comparison of the proportion of EOD cases that were born at <35 weeks gestation and those that were born ≥35 weeks gestation by serotype, determined with χ^2 test, and with $P < 0.05$ as the cutoff for significance

eTable 3 - Differences in serotype distribution among late-onset disease (LOD) cases in infants born <35 weeks of gestation and/or with onset >42 days of life, and those in infants born ≥35 weeks of gestation and with onset within 42 days of life, 7 ABCs sites, 2006-2015

	Number of infant cases of LOD by gestational age at birth			
	<35 weeks of gestation or with onset >42 days of life	≥35 weeks of gestation and with onset within 42 days of life	Unknown gestational age	
Total	458	424	56	
Serotypes in candidate vaccines	N (% of total)	N (% of total)	N (% of total)	P value*
la	97 (21.2%)	65 (15.3%)	9 (16.1%)	0.0238
lb	31 (6.8%)	19 (4.5%)	2 (3.6%)	0.1411
II	13 (2.8%)	11 (2.6%)	1 (1.8%)	0.8549
III	193 (42.1%)	258 (60.9%)	30 (53.6%)	<0.0001
IV	35 (7.6%)	15 (3.5%)	3 (5.4%)	0.0083
V	46 (10.0%)	20 (4.7%)	5 (8.9%)	0.0028

*Comparison of the proportion of LOD cases that were born at <35 weeks gestation or with onset >42 days of life, and those that were born ≥35 weeks gestation and with onset within 42 days of life by serotype, determined with χ^2 test, and with $P < 0.05$ as the cutoff for significance