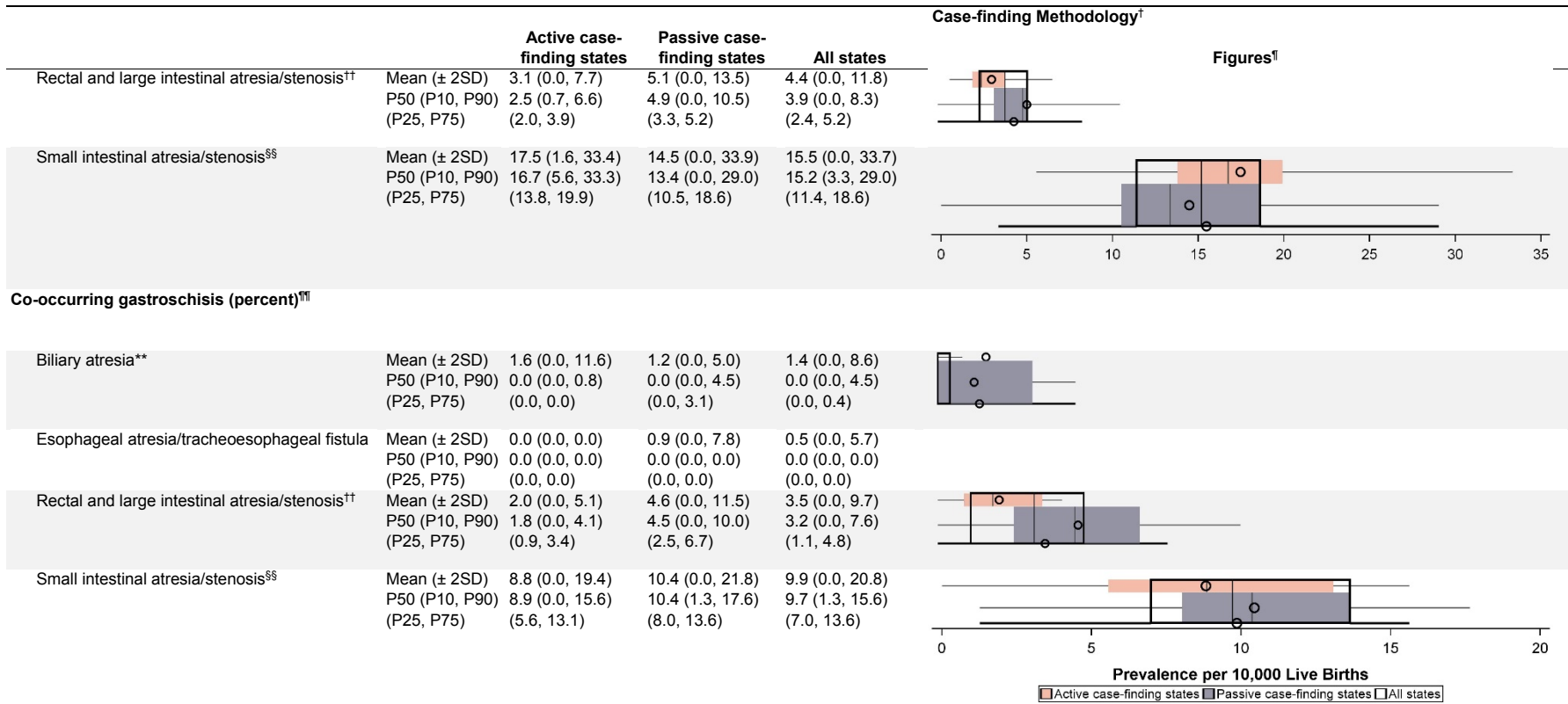


Appendix 2a. Variability of the State-based Surveillance Program* Reported Percentage of Co-Occurring Defects by Case-Ascertainment Methodology

		Case-finding Methodology†			Figures¶
		Active case-finding states	Passive case-finding states	All states	
Co-occurring other defects (percent)					
Biliary atresia**	Mean (± 2SD)	22.4 (0.0, 57.6)	26.7 (0.0, 59.5)	25.0 (0.0, 58.4)	
	P50 (P10, P90)	18.2 (0.0, 50.0)	25.6 (0.0, 40.0)	23.4 (0.0, 50.0)	
	(P25, P75)	(4.5, 33.3)	(17.1, 36.4)	(14.3, 36.4)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	47.1 (19.0, 75.1)	52.8 (10.7, 94.8)	50.5 (13.5, 87.6)	
	P50 (P10, P90)	50.0 (26.4, 60.2)	56.8 (21.5, 71.8)	53.9 (21.5, 68.1)	
	(P25, P75)	(39.3, 57.4)	(45.4, 65.5)	(41.6, 63.1)	
Rectal and large intestinal atresia/stenosis††	Mean (± 2SD)	44.3 (35.5, 53.1)	50.4 (12.5, 88.3)	48.1 (17.3, 78.9)	
	P50 (P10, P90)	45.3 (38.2, 50.1)	47.2 (25.0, 70.8)	45.5 (28.9, 70.7)	
	(P25, P75)	(41.0, 46.8)	(35.9, 68.2)	(38.8, 58.7)	
Small intestinal atresia/stenosis§§	Mean (± 2SD)	44.9 (16.7, 73.1)	50.9 (11.0, 90.7)	48.9 (12.7, 85.1)	
	P50 (P10, P90)	46.1 (25.0, 66.7)	53.6 (21.1, 71.3)	50.6 (25.0, 70.9)	
	(P25, P75)	(33.5, 54.2)	(38.0, 66.7)	(37.7, 61.7)	
Co-occurring trisomies 13, 18, 21, Turner syndrome, and deletion 22q11.2 (percent)					
Biliary atresia**	Mean (± 2SD)	3.8 (0.0, 19.2)	4.4 (0.0, 21.0)	4.2 (0.0, 20.0)	
	P50 (P10, P90)	0.0 (0.0, 9.1)	1.2 (0.0, 9.1)	0.0 (0.0, 9.1)	
	(P25, P75)	(0.0, 6.3)	(0.0, 5.3)	(0.0, 6.3)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	9.4 (0.7, 18.1)	7.3 (0.0, 18.9)	8.1 (0.0, 18.7)	
	P50 (P10, P90)	10.2 (4.8, 14.3)	6.3 (0.0, 15.1)	8.3 (0.0, 14.7)	
	(P25, P75)	(6.6, 12.8)	(4.2, 8.6)	(5.0, 11.0)	
Rectal and large intestinal atresia/stenosis††	Mean (± 2SD)	4.6 (0.6, 8.6)	5.9 (0.0, 13.9)	5.4 (0.0, 12.3)	
	P50 (P10, P90)	4.8 (1.8, 7.4)	5.1 (1.8, 10.5)	4.9 (1.8, 8.3)	
	(P25, P75)	(3.5, 5.2)	(4.3, 6.9)	(4.1, 6.6)	
Small intestinal atresia/stenosis§§	Mean (± 2SD)	19.6 (6.8, 32.4)	15.1 (0.0, 34.2)	16.6 (0.0, 34.1)	
	P50 (P10, P90)	17.8 (13.3, 33.3)	14.3 (3.1, 30.6)	16.1 (3.3, 30.6)	
	(P25, P75)	(15.2, 22.0)	(10.9, 18.6)	(12.8, 19.7)	
Co-occurring trisomy 21 only (percent)					
Biliary atresia**	Mean (± 2SD)	1.1 (0.0, 5.4)	1.1 (0.0, 5.9)	1.1 (0.0, 5.6)	
	P50 (P10, P90)	0.0 (0.0, 4.5)	0.0 (0.0, 6.3)	0.0 (0.0, 6.3)	
	(P25, P75)	(0.0, 0.8)	(0.0, 0.5)	(0.0, 0.8)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	3.9 (0.0, 9.8)	3.6 (0.0, 9.6)	3.7 (0.0, 9.6)	
	P50 (P10, P90)	3.2 (1.6, 6.9)	3.1 (0.0, 7.1)	3.1 (0.0, 7.1)	
	(P25, P75)	(1.8, 5.9)	(2.5, 4.6)	(2.1, 5.2)	



SD: Standard deviation; P10: 10th percentile; P25: 25th percentile; P50: Median; P75: 75th percentile; P90: 90th percentile

Appendix 2b. Variability of the State-based Surveillance Program* Reported Percentage of Co-Occurring Defects by Pregnancy Outcome Inclusion

		Pregnancy Outcome Inclusion [§]				Figures [¶]
		States that track live births only	States that track live births and stillbirths	States that track all pregnancy outcomes	All states	
Co-occurring other defects (percent)						
Biliary atresia**	Mean (± 2SD)	27.3 (8.9, 45.6)	25.0 (0.0, 65.9)	22.3 (0.0, 58.7)	25.0 (0.0, 58.4)	
	P50 (P10, P90)	26.9 (14.3, 40.0)	22.5 (0.0, 50.0)	23.4 (0.0, 50.0)	23.4 (0.0, 50.0)	
	(P25, P75)	(20.2, 34.8)	(8.9, 38.2)	(0.0, 33.3)	(14.3, 36.4)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	49.8 (6.3, 93.3)	52.0 (10.4, 93.6)	49.0 (28.0, 70.0)	50.5 (13.5, 87.6)	
	P50 (P10, P90)	56.3 (0.0, 68.1)	55.4 (21.5, 71.8)	50.0 (28.6, 60.2)	53.9 (21.5, 68.1)	
	(P25, P75)	(39.3, 65.5)	(35.9, 65.3)	(43.9, 57.4)	(41.6, 63.1)	
Rectal and large intestinal atresia/stenosis ^{††}	Mean (± 2SD)	48.3 (15.1, 81.5)	52.4 (18.9, 86.0)	41.3 (21.0, 61.5)	48.1 (17.3, 78.9)	
	P50 (P10, P90)	45.2 (25.0, 70.7)	45.8 (35.9, 70.8)	42.1 (21.1, 51.9)	45.5 (28.9, 70.7)	
	(P25, P75)	(38.8, 66.9)	(40.0, 69.8)	(37.7, 48.3)	(38.8, 58.7)	
Small intestinal atresia/stenosis ^{§§}	Mean (± 2SD)	56.4 (31.2, 81.5)	50.5 (13.5, 87.5)	37.2 (0.0, 76.4)	48.9 (12.7, 85.1)	
	P50 (P10, P90)	52.4 (36.1, 70.9)	54.8 (27.8, 71.3)	42.7 (4.2, 57.8)	50.6 (25.0, 70.9)	
	(P25, P75)	(50.0, 67.9)	(35.7, 65.6)	(25.0, 50.5)	(37.7, 61.7)	
Co-occurring trisomies 13, 18, 21, Turner syndrome, and deletion 22q11.2 (percent)						
Biliary atresia**	Mean (± 2SD)	2.0 (0.0, 7.9)	3.9 (0.0, 18.5)	7.2 (0.0, 31.3)	4.2 (0.0, 20.0)	
	P50 (P10, P90)	0.0 (0.0, 7.7)	0.0 (0.0, 9.1)	1.6 (0.0, 33.3)	0.0 (0.0, 9.1)	
	(P25, P75)	(0.0, 4.0)	(0.0, 5.1)	(0.0, 9.1)	(0.0, 6.3)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	8.3 (0.0, 18.4)	7.6 (0.0, 19.9)	8.8 (0.0, 18.1)	8.1 (0.0, 18.7)	
	P50 (P10, P90)	8.3 (0.0, 15.1)	6.9 (0.0, 11.9)	10.2 (0.0, 14.7)	8.3 (0.0, 14.7)	
	(P25, P75)	(5.1, 12.8)	(4.5, 9.1)	(6.6, 11.5)	(5.0, 11.0)	
Rectal and large intestinal atresia/stenosis ^{††}	Mean (± 2SD)	5.9 (0.0, 16.4)	4.8 (0.5, 9.1)	5.8 (1.2, 10.3)	5.4 (0.0, 12.3)	
	P50 (P10, P90)	4.9 (1.6, 18.8)	4.8 (3.4, 7.5)	5.2 (3.5, 10.5)	4.9 (1.8, 8.3)	
	(P25, P75)	(2.0, 6.9)	(4.1, 5.5)	(4.7, 6.6)	(4.1, 6.6)	
Small intestinal atresia/stenosis ^{§§}	Mean (± 2SD)	21.9 (2.9, 41.0)	14.6 (0.0, 30.8)	14.0 (0.0, 29.0)	16.6 (0.0, 34.1)	
	P50 (P10, P90)	18.4 (12.2, 37.5)	13.9 (3.3, 22.2)	15.2 (0.0, 21.9)	16.1 (3.3, 30.6)	
	(P25, P75)	(16.1, 33.3)	(10.1, 20.6)	(13.3, 18.2)	(12.8, 19.7)	
Co-occurring trisomy 21 only (percent)						
Biliary atresia**	Mean (± 2SD)	1.1 (0.0, 6.5)	0.7 (0.0, 4.5)	1.7 (0.0, 6.9)	1.1 (0.0, 5.6)	
	P50 (P10, P90)	0.0 (0.0, 7.7)	0.0 (0.0, 2.7)	0.0 (0.0, 6.3)	0.0 (0.0, 6.3)	
	(P25, P75)	(0.0, 0.5)	(0.0, 0.0)	(0.0, 4.5)	(0.0, 0.8)	

Pregnancy Outcome Inclusion[§]

		States that track live births only	States that track live births and stillbirths	States that track all pregnancy outcomes	All states	Figures [¶]
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	3.5 (0.0, 10.0)	4.3 (0.0, 10.9)	2.8 (0.0, 6.6)	3.7 (0.0, 9.6)	
	P50 (P10, P90)	2.8 (0.0, 10.7)	3.5 (0.0, 7.1)	3.2 (0.0, 5.9)	3.1 (0.0, 7.1)	
	(P25, P75)	(2.5, 4.3)	(2.7, 6.4)	(1.6, 3.8)	(2.1, 5.2)	
Rectal and large intestinal atresia/stenosis ^{††}	Mean (± 2SD)	5.0 (0.0, 16.2)	4.0 (0.0, 8.4)	4.3 (0.0, 10.1)	4.4 (0.0, 11.8)	
	P50 (P10, P90)	4.9 (0.0, 18.8)	4.3 (1.4, 5.2)	3.5 (2.0, 10.5)	3.9 (0.0, 8.3)	
	(P25, P75)	(2.0, 5.2)	(3.0, 5.1)	(2.4, 4.9)	(2.4, 5.2)	
Small intestinal atresia/stenosis ^{§§}	Mean (± 2SD)	21.8 (2.4, 41.1)	12.3 (0.0, 28.6)	13.9 (0.0, 28.9)	15.5 (0.0, 33.7)	
	P50 (P10, P90)	18.4 (11.9, 37.5)	12.0 (3.3, 20.6)	15.2 (0.0, 21.9)	15.2 (3.3, 29.0)	
	(P25, P75)	(16.1, 33.3)	(5.6, 17.3)	(13.3, 17.9)	(11.4, 18.6)	

Co-occurring gastroschisis (percent)^{¶¶}

Biliary atresia ^{**}	Mean (± 2SD)	1.3 (0.0, 5.4)	0.7 (0.0, 3.9)	2.5 (0.0, 15.0)	1.4 (0.0, 8.6)	
	P50 (P10, P90)	0.0 (0.0, 4.5)	0.0 (0.0, 3.1)	0.0 (0.0, 16.7)	0.0 (0.0, 4.5)	
	(P25, P75)	(0.0, 3.3)	(0.0, 0.0)	(0.0, 0.8)	(0.0, 0.4)	
Esophageal atresia/tracheoesophageal fistula	Mean (± 2SD)	0.0 (0.0, 0.0)	1.2 (0.0, 8.9)	0.0 (0.0, 0.0)	0.5 (0.0, 5.7)	
	P50 (P10, P90)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	
	(P25, P75)	(0.0, 0.0)	(0.0, 0.0)	(0.0, 0.0)	(0.0, 0.0)	
Rectal and large intestinal atresia/stenosis ^{††}	Mean (± 2SD)	2.8 (0.0, 8.2)	5.0 (0.0, 11.6)	2.2 (0.0, 7.1)	3.5 (0.0, 9.7)	
	P50 (P10, P90)	2.0 (0.0, 7.6)	4.5 (1.3, 10.4)	1.3 (0.0, 6.7)	3.2 (0.0, 7.6)	
	(P25, P75)	(0.0, 4.3)	(2.9, 6.3)	(0.0, 4.0)	(1.1, 4.8)	
Small intestinal atresia/stenosis ^{§§}	Mean (± 2SD)	7.4 (0.0, 18.6)	11.9 (2.5, 21.3)	8.9 (0.0, 21.0)	9.9 (0.0, 20.8)	
	P50 (P10, P90)	8.4 (0.0, 13.6)	11.6 (6.9, 19.0)	8.9 (0.0, 15.6)	9.7 (1.3, 15.6)	
	(P25, P75)	(1.3, 12.5)	(8.0, 15.6)	(5.0, 15.1)	(7.0, 13.6)	

Prevalence per 10,000 Live Births
 ■ Live birth states ■ Live birth and stillbirth states ■ All pregnancy outcome states ■ All states