

Supplemental Table 1 Clinical manifestations in children at the age of 18 months and 3 years

Clinical manifestations*	18m (n=141)	36m (n=129)
abdominal pain, diarrhea or hematochezia	92	61
feeding difficulty	41	13
rash with pruritus	40	81
sneezing, nasal congestion and runny nose	13	21
Red eyes and tears	8	13
Itching, tingling or swelling of the mouth, lips or throat	7	11
dyspnea	4	5

* Multiple clinical manifestations could be observed in one child.

Supplemental Table 2 Food types causing food allergy in children at the age of 18 months and 3 years

Food type	18m (n=141)	36m (n=129)
Milk	72	34
Eggs	24	36
Wheat	13	19
Fish and shrimp	10	13
Pork	5	5
Peanut	5	8
Mango	4	5
Milk and eggs	6	4
Milk and wheat	2	2
Fish, shrimp and wheat	0	2
Fish, shrimp and mango	0	1

Supplemental Table 3 Characteristics of children born to mothers with allergic diseases history between with GBS-IAP group and Without GBS- IAP group

Characteristic	Without GBS- IAP (n=225)	With GBS- IAP (n=39)	<i>t/χ²</i>	<i>P value</i>
*Mother's age (years)	27.50±4.07	28.18±4.41	-0.954	0.341
*Mother's BMI ($\bar{x}\pm s$)	20.84±1.80	20.60±1.30	0.813	0.417
**Parity (n, %)			0.936	0.333
One child	134 (59.6)	20 (51.3)		
**Second child or more	91 (40.4)	19 (48.7)		
**GBS Screening (n, %)			233.186	<0.001

Positive	2(0.9)	37(94.9)		
Negative	2527(96.3)	14(4.9)		
**Whether received higher education (n, %)	176(78.2)	30(76.9)	0.033	0.856
**Gender (man, n, %)	126 (56.0)	16 (41.0)	2.998	0.083
*Gestational age (weeks $\bar{x}\pm s$)	39.3 $\pm$ 1.1	38.8 $\pm$ 1.1	2.596	0.010
*Weight of birth (g $\bar{x}\pm s$)	3388 $\pm$ 399	3348 $\pm$ 380	0.605	0.548
**Feeding method (n, %)			1.761	0.358
Breastfeeding	155 (68.9)	31 (79.5)		
Artificial feeding	7 (3.1)	1 (2.6)		
Mixed feeding	63 (28.0)	7 (17.9)		
**Cesarean section (n, %)	105 (46.7)	15 (38.5)	0.903	0.342
**Whether used antibiotics in the infant (n, %)	18 (8.0)	20 (51.3)	50.533	<0.001
Smoking	1(0.4)	19(48.7)	103.823	<0.001
keeping pets	116(51.6)	17(43.6)	0.844	0.358
**Incidence of food allergy in 18 months children	31(13.8)	19(48.7)	26.431	<0.001
**Incidence of food allergy in 3 years children (n, %)	48 (21.3)	21 (53.8)	18.200	<0.001

Supplemental Table 4 Characteristics of GBS-IAP between without GBS-IAP group and with GBS-IAP group

Characteristics	GBS-IAP	without GBS-IAP
	n = 284	n = 2625
Type of GBS-specific antibiotic,n (%)		77(2.9)
Ampicillin	52(18.3)	20 (26.0)
Cefazolin	21 (7.4)	9(11.7)
Penicillin	211(74.3)	48(62.3)
Hours from first antibiotic dose to delivery, median (IQR)	11.22 (7.42–16.54)	2.56(1.76–3.58)
Exposure to other antibiotic (not GBS-specific) before delivery, n (%)	30(10.6)	1634(62.2)
Clindamycin	3(10.0)	103(6.3)
Piperacillin tazobactam	23(76.7)	210(12.9)
Azithromycin or erythromycin	3(10.0)	22(1.3)
Ceftriaxone	1(3.3)	87(5.3)
Cefoxitin	0	1212(74.2)
Hours from first dose of other antibiotic to delivery, median (IQR)	3.48 (1.49–6.48)	0.91 (0.51–1.81)

