

SUPPLEMENTAL MATERIAL

Table S1. All Anomalies.

<p>Nervous system Neural Tube Defects: Anencephalus and similar Encephalocele Spina Bifida Hydrocephalus Microcephaly Arhinencephaly / holoprosencephaly Eye Anophthalmos / microphthalmos Anophthalmos Congenital cataract Congenital glaucoma Ear, face and neck Anotia Congenital Heart Defects (CHD) Severe CHD Common arterial truncus Transposition of great vessels Single ventricle VSD ASD AVSD Tetralogy of Fallot</p>	<p>PDA as only CHD in term infants (LB and GA 37+ weeks) Respiratory Choanal atresia Cystic adenomatous malformation of lung Oro-facial clefts Cleft lip with or without cleft palate Cleft palate Digestive system Oesophageal atresia with/without tracheo-oesophageal fistula Duodenal atresia or stenosis Atresia or stenosis of other parts of small intestine Ano-rectal atresia and stenosis Hirschsprung's disease Atresia of bile ducts Annular pancreas Diaphragmatic hernia Abdominal wall defects Gastroschisis Omphalocele Urinary Bilateral renal agenesis including Potter syndrome Renal Dysplasia Congenital hydronephrosis Bladder exstrophy and/or epispadia Posterior urethral valve and/or prune belly</p>	<p>Upper limb reduction Lower limb reduction Complete absence of a limb Club foot - talipes equinovarus Hip dislocation and/or dysplasia Polydactyly Syndactyly Other anomalies/syndromes Skeletal dysplasias Craniosynostosis Congenital constriction bands/ amniotic band Situs inversus Conjoined twins Congenital skin disorders Teratogenic syndromes with malformations Fetal alcohol syndrome Valproate syndrome Maternal infections resulting in malformations Genetic syndromes + microdeletions Sequences Chromosomal Down syndrome Patau syndrome/trisomy 13 Edwards syndrome/trisomy 18 Turner syndrome</p>
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Tricuspid atresia and stenosis Ebstein's anomaly Pulmonary valve stenosis Pulmonary valve atresia Aortic valve atresia/stenosis Hypoplastic left heart Hypoplastic right heart Coarctation of aorta Total anomalous pulm venous return	Genital Hypospadias Indeterminate sex Limb Limb reduction	Klinefelter syndrome
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Table S2. Details of cases using amlodipine during the first trimester (Group A).

Case	Total amlodipine dose* (mg)/period in the first trimester	Other antihypertensives in the first trimester	Age at delivery (y.o.)	Gestational age	Birth weight (g)	Super imposed preeclampsia	Birth defects
1	840/ prepregnancy-11w6d	-	37	38w5d	2770	+	-
2	15/ 11w1d-11w6d	-	32	37w2d	1720	+	-
3	420/ prepregnancy-11w6d	-	43	40w3d	2978	-	-
4	350/ prepregnancy-7w6d, 8w0d-11w6d	-	39	38w1d	3416	-	-
5	300/ prepregnancy-11w6d	-	37	29w0d	1075	-	-
6	175/ prepregnancy-4w6d	-	41	35w4d	1872	-	+ Case1 in table 3
7	210/ prepregnancy-11w6d	-	42	37w4d	2637	-	-
8	420/ prepregnancy-11w6d	-	30	39w4d	3086	-	-
9	107.5/ prepregnancy-6w0d	-	39	38w5d	3240	-	-
10	420/ prepregnancy-11w6d	-	37	38w0d	3626	-	-
11	210/ prepregnancy-11w6d	-	40	40w5d	3624	+	-
12	840/ prepregnancy-11w6d	Prepregnancy-11w6d:Me	39	40w3d	3200	-	-
13	730/ prepregnancy-11w6d	-	36	38w5d	3720	-	-
14	300/ prepregnancy-11w6d	Prepregnancy-5w0d: ARB 5w0d-11w6d: La	32	38w4d	2998	-	-
15	420/ prepregnancy-11w6d	-	35	38w2d	2890	+	-

16	840/ prepregnancy-11w6d	-	34	38w5d	3340	+	-
17	420/ prepregnancy-11w6d	33w4d-11w6d: Me	38	37w1d	2751	+	-
18	840/ prepregnancy-11w6d	Prepregnancy-8w3d: Me	43	39w2d	3618	-	-
19	210/ prepregnancy-11w6d	-	39	38w2d	3256	-	-
20	420/ prepregnancy-11w6d	-	40	38w2d	3180	-	-
21	420/ prepregnancy-11w6d	-	45	36w3d	1936	+	-
22	840/ prepregnancy-11w6d	Prepregnancy-5w0d: ARB pregnancy-11w6d: Me	29	36w6d	2295	+	-
23	210/ prepregnancy-11w6d	-	40	38w0d	3154	-	-
24	420/ prepregnancy-11w6d	-	40	38w6d	2926	-	-
25	420/ prepregnancy-11w6d	-	40	38w4d	3080	-	-
26	420/ prepregnancy-11w6d	14w4d-delivery: Me	40	38w5d	2896	-	-
27	840/ prepregnancy-11w6d	Prepregnancy-5w0d: ARB 5w0d-delivery: Me	35	38w4d	2700	-	-
28	420/ prepregnancy-11w6d	-	36	38w4d	2726	-	-
29	52.5/ 9w0d-11w6d	Prepregnancy-5w0d: Aze	32	34w5d	1870	+	-
30	7.5/ 11w4d-11w6d	-	29	35w2d	2821	-	-
31	237.5/ 4w5d-11w6d	-	40	37w6d	2560	-	-

32	25/ 11w2d-11w6d	10w6d-11w2d: Me	28	34w6d	2146	+	-
33	220/ 5w5d-11w6d	-	33	40w6d	3408	-	-
34	75/ prepregnancy-4w1d	4w1d-11w6d: Me	35	31w2d	1134	+	-
35	105/ prepregnancy-5w6d	5w6d-delivery: Nif	38	38w0d	2482	-	-
36	107.5/ prepregnancy-6w0d	Prepregnancy-6w0d: ARB 6w0d-delivery: Me 9w5d-15w1d: Hy	37	39w3d	3366	-	-
37	420/ prepregnancy-11w6d	Prepregnancy-7w6d: ARB 11w4d-delivery: Hy	41	37w2d	2348	+	-
38	740/ prepregnancy-6w4d, 8w1d-11w6d	6w5d-8w0d: Hy	36	38w0d	3217	-	+ Case2 in table 3
39	840/ prepregnancy-11w6d	Prepregnancy-20w3d: La	42	36w6d	2550	+	-
40	197.5/ prepregnancy-4w0d, 9w0d-11w6d	4w0d-11w6d: Hy	36	38w6d	2950	+	-
41	160/ prepregnancy-9w0d	-	39	37w6d	2310	-	-
42	325/ prepregnancy-9w1d	9w2d-11w6d: Hy	36	38w4d	3554	-	-
43	295/ prepregnancy-8w2d	Prepregnancy-8w2d: ARB	40	35w3d	1826	-	-
44	177.5/ prepregnancy-5w0d, 7w0d-11w6d	Prepregnancy-5w0d: Tri 7w1d-11w6d: Me	38	37w5d	2698	-	-
45	NA/ prepregnancy-8w2d	5w2d-11w6d: Hy	42	37w2d	3170	+	-

46	90/ prepregnancy-5w0d	5w0d-11w6d: Hy	38	37w2d	2536	-	-
47	180/ prepregnancy-5w0d	5w0d-11w6d: Nif	45	38w1d	2918	-	-
48	215/ prepregnancy-6w0d	-	39	39w5d	2790	-	-

*Total dose was obtained by amlodipine daily dose times the total number of days of amlodipine uses during the first trimester.

Aze indicates azelnidipine; ARB, angiotensin II receptor blocker; Hy, Hydralazine; La, Labetalol; Me, Methyldopa; NA, not available; Nif, Nifedipine; Tri, trichlormethiazide ; y.o., years old.

Table S3. Delivery outcomes excluding diabetes mellitus.

		Amlodipine (n=45)	Other Antihypertensives (n=53)	No Antihypertensives (n=123)	<i>P</i>
Maternal outcomes					
Gestational diabetes mellitus	N (%)	15 (33.3)	13 (24.5)	40 (32.5)	0.526
Gestational age (weeks)	Mean (SD)	3 (6.7)	8 (15.1)	24 (19.5)	0.128
Newborn outcomes					
Gestational age (weeks)	Mean (SD)	37.8 (2.17)	36.8 (3.40)	37.1 (3.67)	0.387
Delivery weight (g)	Mean (SD)	2758.3 (623.90)	2494.7 (785.47)	2537.7 (765.27)	0.163
Preterm birth (<37 weeks)	N (%)	9 (20.0)	12 (22.6)	39 (31.7)	0.223
Low birth weight (<2500 g)	N (%)	12 (26.7)	24 (45.3)	47 (38.2)	0.161
Apgar score					
1 min	Mean (SD)	7.9 (0.99)	7.4 (1.98)	7.6 (1.73)	0.260
5 min	Mean (SD)	8.9 (0.45)	8.5 (1.31)	8.7 (1.25)	0.224
Birth defects	N (%)	2 (4.4)	3 (5.7)	6 (4.9)	0.960

SD indicates standard deviation. There was no statistically significant difference among the groups.

Table S4. Delivery outcomes including a pair of twins in Group A.

		Amlodipine	Other antihypertensives	No antihypertensives	<i>P</i>
Maternal outcomes		n=49	n=54	n=129	
Superimposed preeclampsia	N (%)	16 (32.7)	14 (25.9)	43 (33.3)	0.604
Gestational diabetes mellitus	N (%)	3 (6.1)	8 (14.8)	24 (18.6)	0.115
Newborn outcomes		n=50	n=54	n=129	
Gestational age (weeks)	Mean (SD)	37.8 (2.10)	36.9 (3.43)	37.1 (3.65)	0.393
Delivery weight (g)	Mean (SD)	2781.1 (607.65)	2520.1 (800.09)	2536.0 (759.40)	0.108
Preterm birth (<37 weeks)	N (%)	10 (20.0)	12 (22.2)	41 (31.8)	0.186
Low birth weight (<2500 g)	N (%)	12 (24.0)	24 (44.4)	49 (38.0)	0.084
Apgar score					
1 min	Mean (SD)	8.0 (0.97)	7.4 (1.97)	7.6 (1.69)	0.154
5 min	Mean (SD)	8.9 (0.42)	8.5 (1.30)	8.7 (1.22)	0.190
Birth defects	N (%)	2 (4.0)	3 (5.6)	6 (4.7)	0.931

SD indicates standard deviation. There was no statistically significant difference among the groups.