

Supplemental Table S1

| ID    | Neonatal sex | Gestational age (weeks) | Cephalic perimeter (cm) | Weight (gr) | Height (cm) | US/CT observations  | APGAR |
|-------|--------------|-------------------------|-------------------------|-------------|-------------|---|-------|
| ZK005 | F            | 38                      | 28.0                    | 2622        | 44.5        | Intracranial calcifications, reduced encephalic mass, gross parenchymal and periventricular calcification, ventriculomegaly, agenesis of the <i>corpus callosum</i>             | 9/10  |
| ZK006 | F            | 39                      | 28.0                    | 3024        | 45.3        | Dysgenesis of the <i>corpus callosum</i> , cerebral atrophy   | 8/9   |
| ZK011 | F            | 37                      | 27.5                    | 1840        | 39.5        | Oligohydramnios, arthrogryposis, reduced encephalic mass, gross parenchymal and periventricular calcification, ventriculomegaly, dysgenesis of the <i>corpus callosum</i>       | 9/9   |
| ZK012 | F            | 38                      | 27.0                    | 2520        | 43.5        | Oligohydramnios, arthrogryposis. Gross periventricular calcifications in basal nucleus, ventriculomegaly, severe microcephaly   | 8/9   |
| ZK016 | F            | 40                      | 30.5                    | 2774        | 45          | Parenchymal and periventricular calcifications, intracranial haemorrhage, bone fractures  | 7/9   |
| ZK018 | M            | 40                      | 27.0                    | 2900        | 45          | Gross periventricular calcifications in basal nucleus, ventriculomegaly   | 7/9   |
| ZK019 | M            | 36                      | 26.5                    | 2035        | 47          | Brachycephaly, supra-cerebellar lesion suggesting porencephaly, hypotelorism, hypoplasia of nasal bone, cardiomegaly with hypertrophy of the ventricular walls                  | nt    |
| ZK024 | M            | 41                      | 30.0                    | 3466        | 48          | Large ventriculomegaly, calcifications and destructive lesions on cerebellum, <i>ostium secundum</i> atrial septal defect   | 6/7   |
| ZK025 | F            | 41                      | 31                      | 1906        | 47          | Large ventriculomegaly with calcifications and destructive lesion on cerebellum, hypoplasia of nasal bone, narrow thorax, pulmonary hypoplasia                                  | 2/2   |
| ZK027 | M            | 40                      | 30.0                    | 3088        | 50          | Discrete ventriculomegaly, extensive periventricular calcifications, cisterna magna enlargement and destructive lesions in the posterior fossa, Dandy-Walker-like malformations | 9/9   |
| ZK028 | M            | 39                      | 28                      | 2350        | 47          | Ventriculomegaly, mega cisterna magna with agenesis of cerebellar vermis, periventricular calcifications, Dandy-Walker like malformations                                       | 2/3   |
| ZK033 | M            | To term                 | Normal                  | 3358        | nt          | Hydrocephalus, Cardiopathy and <i>situs inversus</i> within 6 months after birth  | 9/9   |
| ZK063 | F            | 40                      | 37                      | 3528        | 51          | Porencephaly in cerebral parenchyma with cerebellar hypoplasia, Dandy-Walker like malformations within 6 months after birth   | 6/9   |
| ZK064 | F            | 39                      | 27.5                    | 2700        | 44          | Severe ventriculomegaly, reduced cerebral parenchyma with periventricular calcifications, parenchyma reduction in both cerebral hemispheres, Dandy-Walker-like malformations    | 8/9   |

|              |    |         |      |      |    |  |      |
|--------------|----|---------|------|------|----|--|------|
| <b>ZK070</b> | F  | 37      | 32   | 2812 | 45 | Intracranial punctiform calcifications in both cerebral hemispheres, hypodense parenchyma within 6 months after birth  | 7/9  |
| <b>ZK072</b> | F  | 40      | 31.0 | 2974 | 48 | Severe ventriculomegaly, reduced cerebral parenchyma with periventricular calcifications, parenchyma reduction in both cerebral hemispheres, hydranencephaly within 6 months after birth | 8/9  |
| <b>ZK290</b> | nt | nt      | Nt   | nt   | nt | Microcephaly, 7 months abortion  | nt   |
| <b>ZK522</b> | F  | 40      | 27.5 | 2490 | 43 | Parenchymal atrophy, periventricular and basal nuclei calcifications, ventriculomegaly, bilateral subependymal cysts, dysgenesis of <i>corpus callosum</i>                               | 9/10 |
| <b>MO16</b>  | F  | 40.3    | 28.5 | 3110 | 47 | Ventriculomegaly and periventricular calcifications, atrial septal defect  | 7/8  |
| <b>MO18</b>  | F  | 40      | 25   | 2100 | 41 | Colpocephaly, cerebellar hypoplasia, enlargement of ventricles, reduced size of <i>corpus callosum</i> , oligohydroamnios  | 8/9  |
| <b>MO19</b>  | F  | 37      | 30   | 2744 | 42 | Severe calcifications, ventriculomegaly, lissencephaly   | 9/9  |
| <b>ZK739</b> | M  | 38      | 28   | 3024 | 47 | Cortical atrophy, subcortical calcifications, ventriculomegaly, dysgenesis of the <i>corpus callosum</i>   | 9/9  |
| <b>MO22</b>  | M  | 32      | 28   | 2694 | 48 | Atrophy of the cortex and base nucleus, cortical, paraventricular and base nucleus with calcifications, ventriculomegaly, dysgenesis of <i>corpus callosum</i>                           | 9/9  |
| <b>MO23</b>  | M  | 42      | 31   | 3296 | 49 | Several parenchymal calcifications, cortical atrophy, enlargement of the periencephalic space  | 7/9  |
| <b>MO27</b>  | M  | To term | 32   | 2730 | 43 | Microcephaly, periventricular and basal nuclei calcifications, bilateral subependymal cysts, moderate ventriculomegaly with Dandy-Walker-like malformation                               | 8/9  |
| <b>MO35</b>  | M  | 39      | 27,5 | 2502 | 45 | Parenchymal and periventricular calcification, ventriculomegaly, cortical atrophy.   | 9/9  |
| <b>MO213</b> | F  | 39      | 31   | 3636 | nt | Diffuse parenchymal and ventricular calcifications, ventriculomegaly   | 9/9  |
| <b>MO230</b> | M  | 40      | 29   | 3315 | 48 | Dysgenesis of the <i>corpus callosum</i>   | 9/9  |
| <b>ZK843</b> | M  | 40      | 29   | 2982 | nt | Cortical atrophy, dysgenesis of the <i>corpus callosum</i> , parenchymal and periventricular calcifications  | 9/10 |
| <b>ZK844</b> | F  | 38      | 30   | 2382 | 43 | Dysgenesis of the <i>corpus callosum</i> , parenchymal atrophy with diffuse microcalcifications  | 9/9  |
| <b>ZK852</b> | F  | 41      | 33   | 3370 | 46 | Sulcus and gyrus reduction, cortical atrophy with <i>ex-vacuo</i> ventriculomegaly, diffuse calcifications, diminished periventricular white substance within 6 months after birth       | nt   |
| <b>ZK855</b> | M  | 37      | 36   | 2770 | 48 | Hidranencephaly, Dandy-Walker-like malformation, arthrogryposis,   | 9/9  |

---

gross encephalic and punctiform  
cerebellar calcifications within 6  
months after birth

---

ID, patient study code; US, ultrasound; CT, computed tomography. Nt: not taken. The institutional research ethics board of the Federal University of Bahia Climério de Oliveira approved the study under protocol no. 1.408.49. All study participants signed informed consent before sampling at delivery. Microcephaly was diagnosed at birth when the head circumference was two standard deviations below that of the corresponding gestational age, based on intergrowth charts.