**Supplementary Figures**

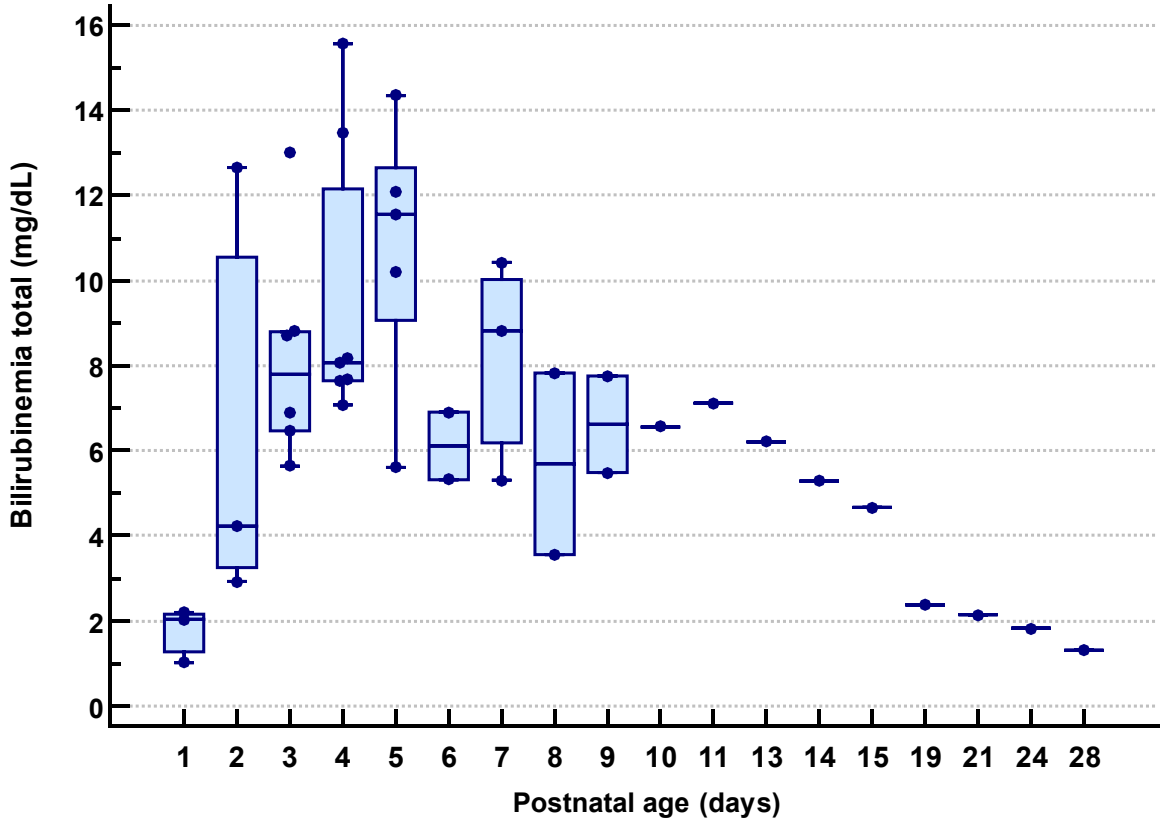


**Figure S1**: Available total bilirubinemia (mg/dL) data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which total bilirubinemia observations are available. From day 10 to 28, all data originate from 1 patient.

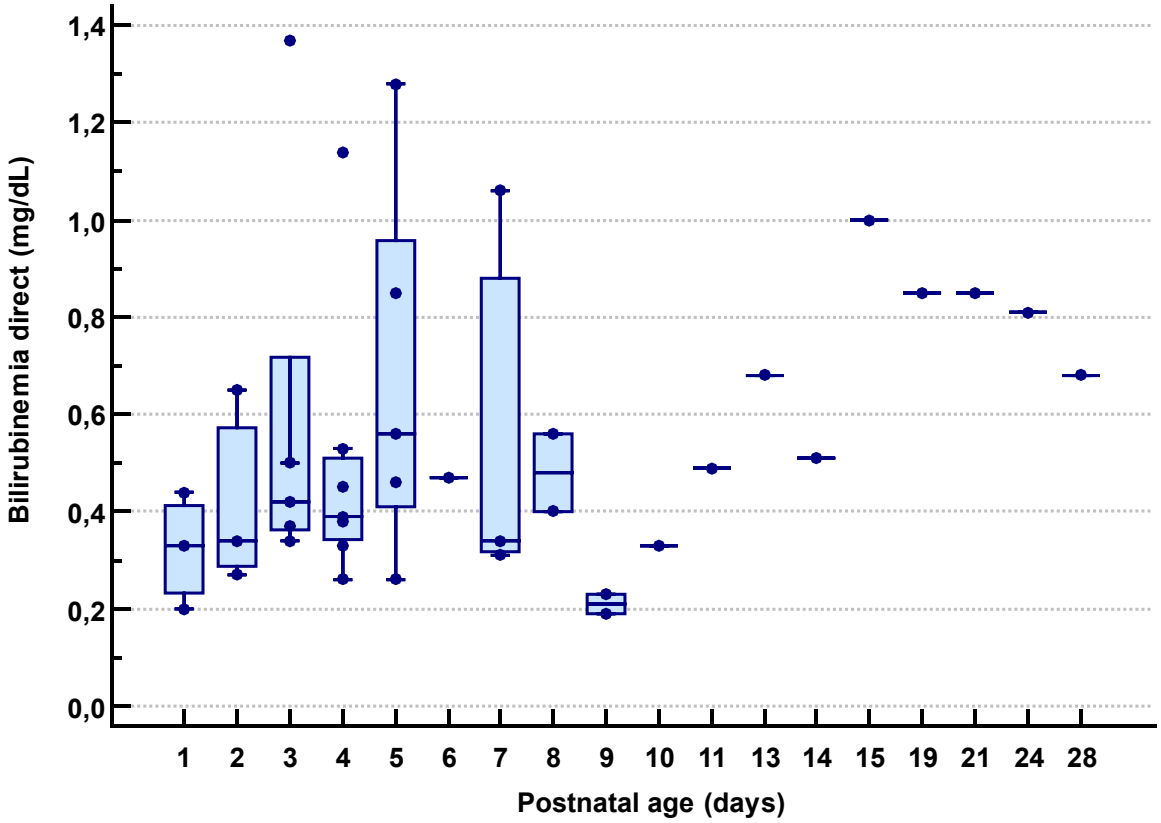


**Figure S2**: Available direct bilirubinemia (mg/dL) data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which direct bilirubinemia observations are available. From day 10 to 28, all data originate from 1 patient.

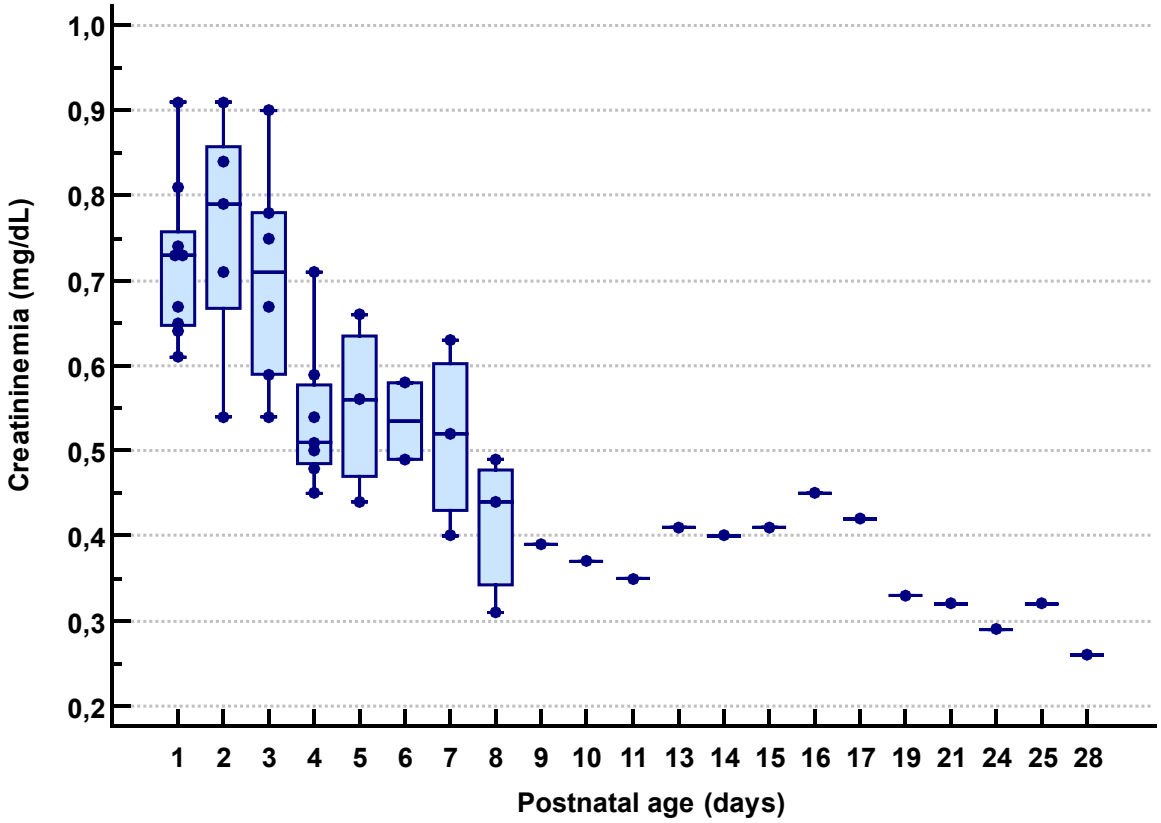


**Figure S3**: Available creatininemia (mg/dL) data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which creatininemia observations are available. From day 9 to 28, all data originate from 1 patient.

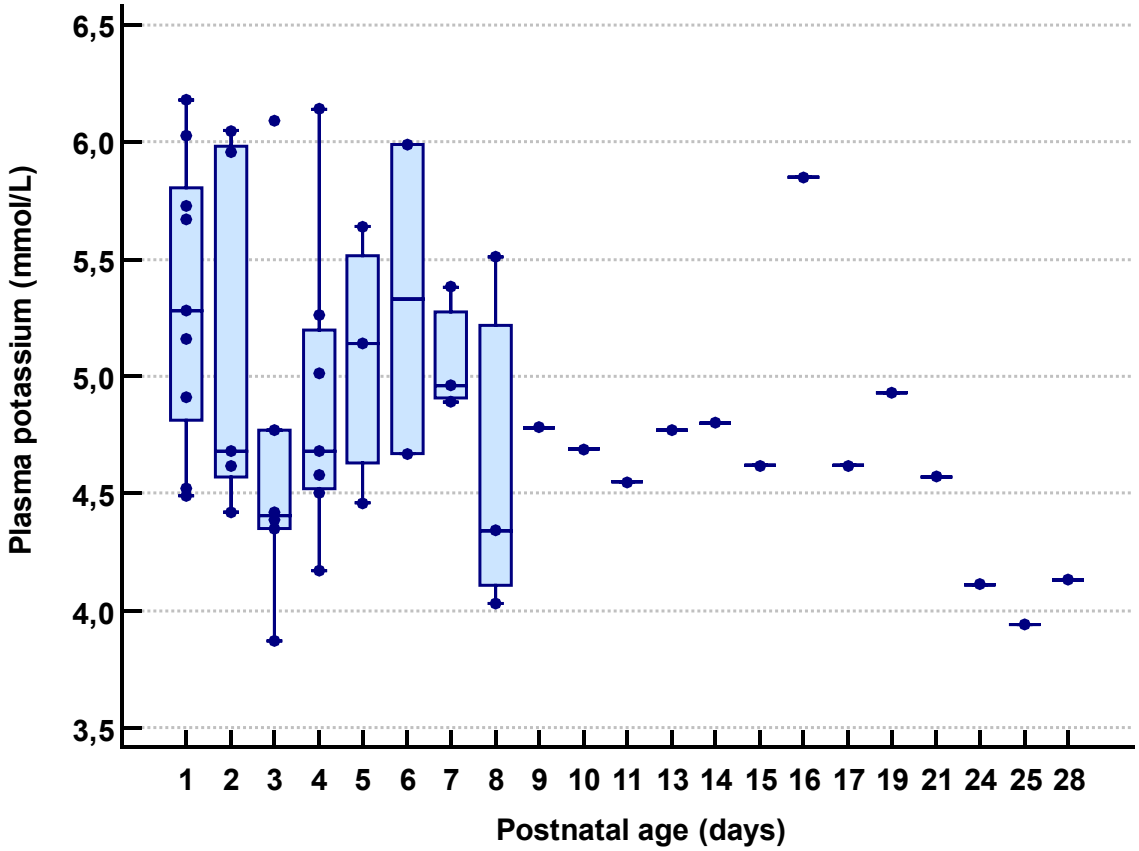


**Figure S4**: Available plasma potassium data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which potassium observations are available. From day 9 to 28, all data originate from 1 patient.

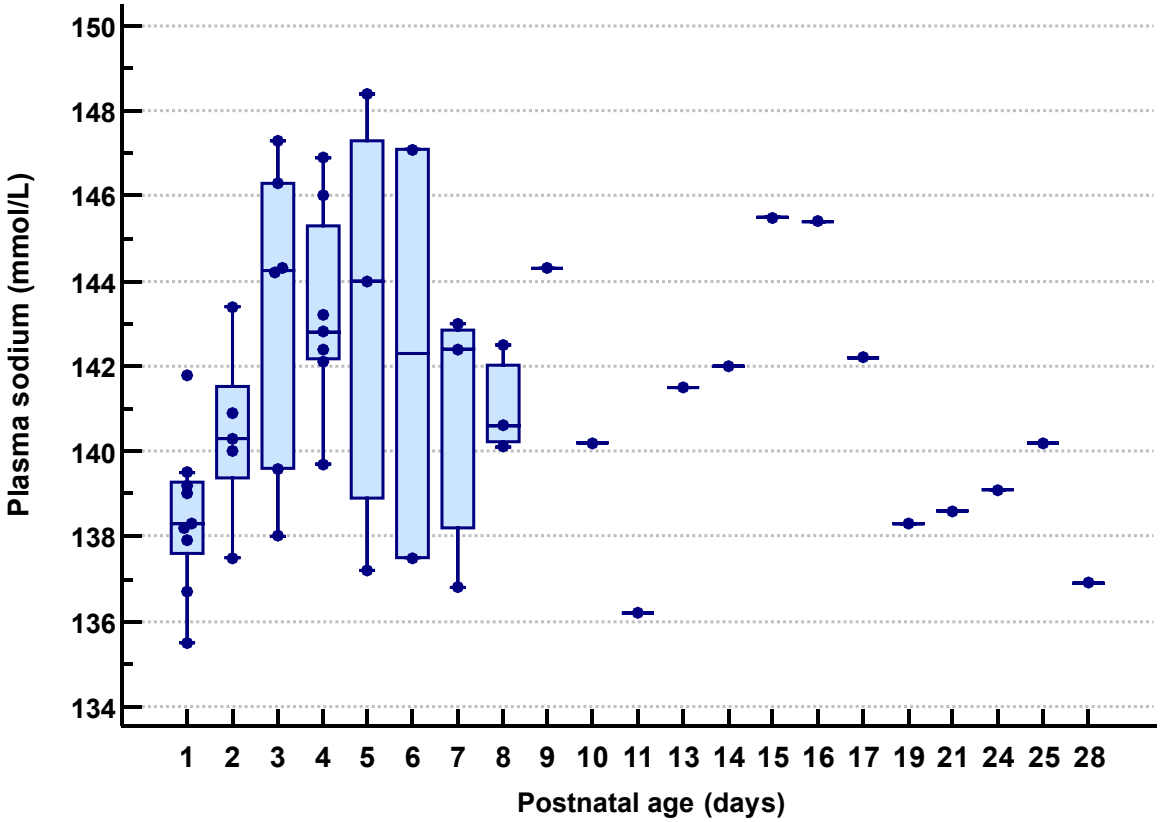


**Figure S5**: Available plasma sodium data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which sodium observations are available. From day 9 to 28, all data originate from 1 patient.

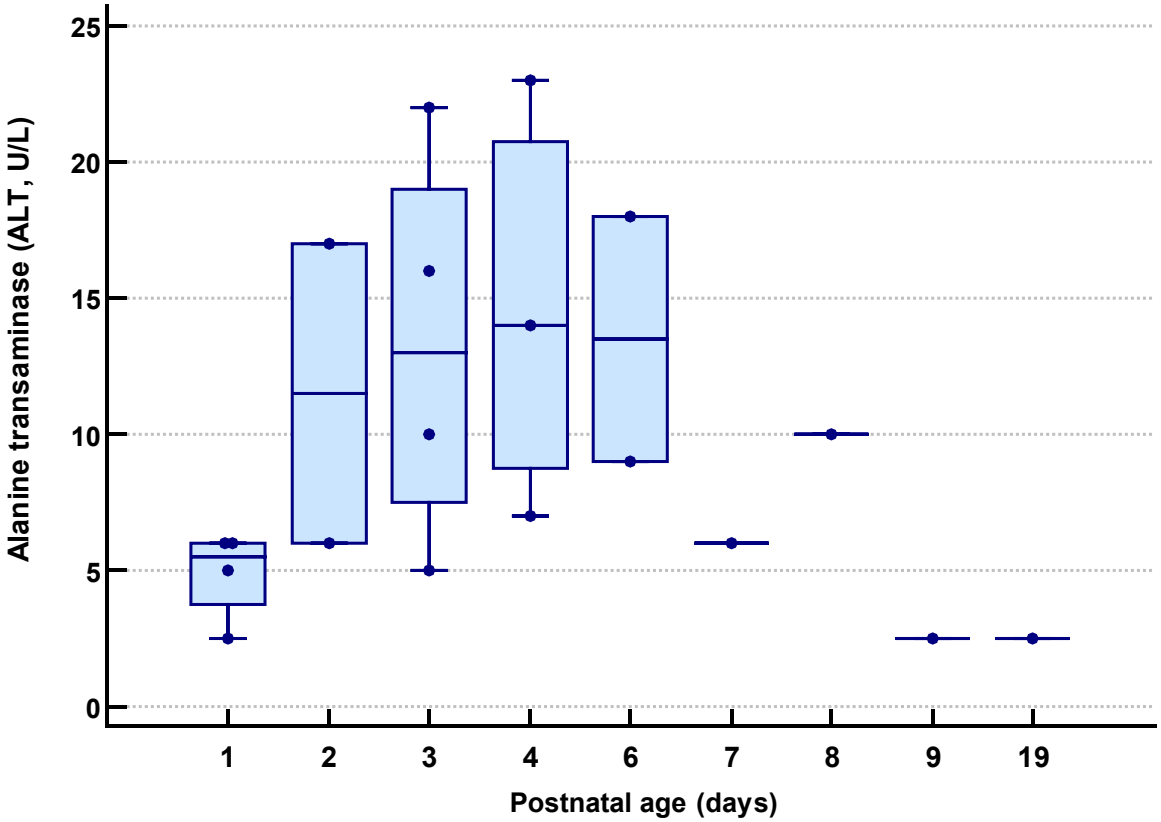


**Figure S6**: Available plasma alanine transaminase (ALT, U/L) data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which ALT observations are available. From day 7, all data originate from 1 patient. 3 ALT values were reported as below limit of quantification (LOQ) of 5, and were replaced by LOQ / 2 = 2.5

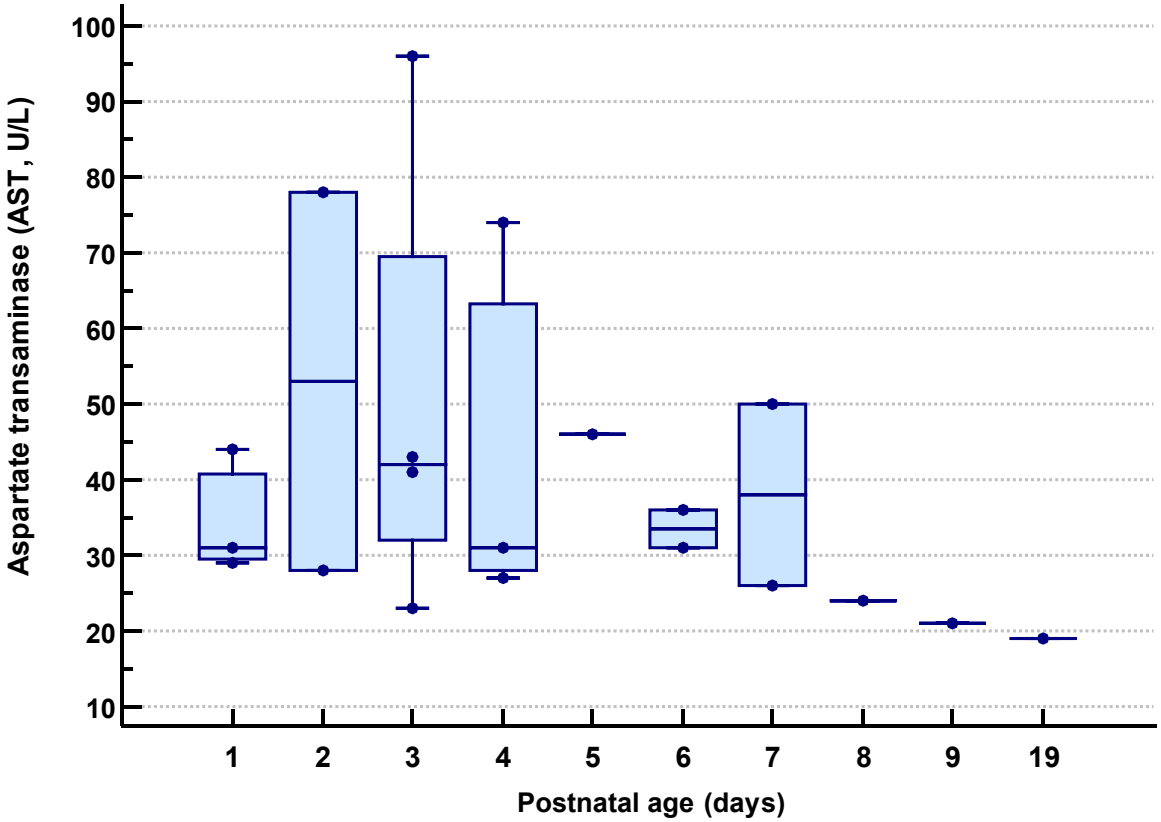


**Figure S7**: Available plasma aspartate transaminase (AST, U/L) data of the study population during the neonatal period (postnatal age day 1-28) are presented as boxplots. The dots represent all individual measurements. The x-axis indicates each postnatal day on which AST observations are available. From day 8, all data originate from 1 patient.

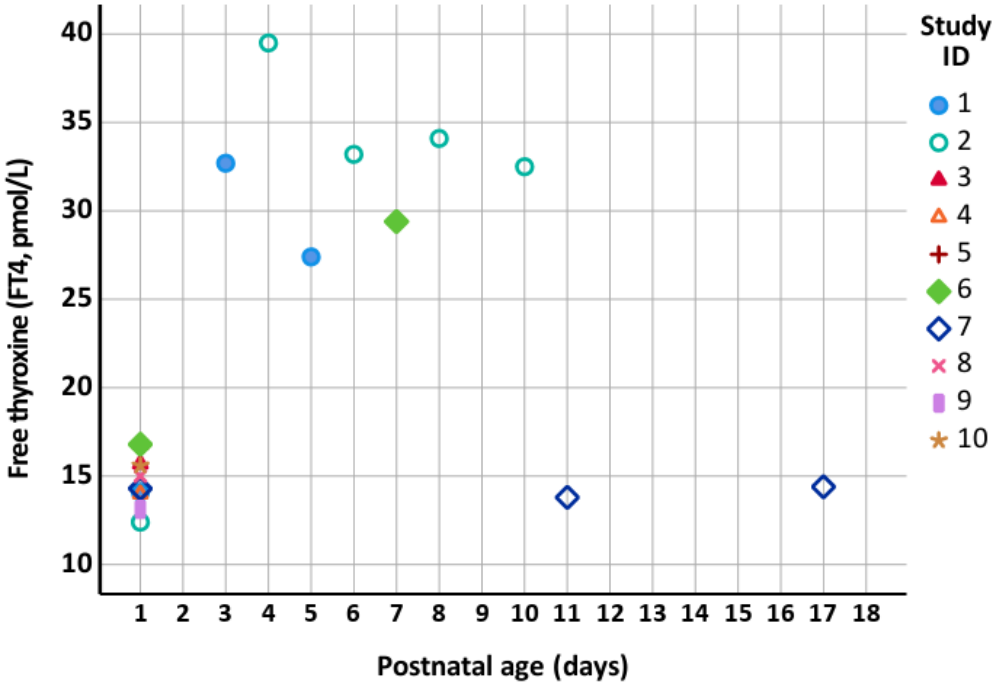


**Figure S8**: Available plasma free thyroxine (FT4, pmol/L) data of the study population during the neonatal period (postnatal age day 1-28) are presented. Due to the limited number of observations for each neonate, and the variable sampling dates, data are presented by a unique symbol for each individual. FT4 observations are available until postnatal age day 17. For one neonate FT4 was reported in ng/dL (2011). Conversion to pmol/L was performed as ng/dL x 12.86.

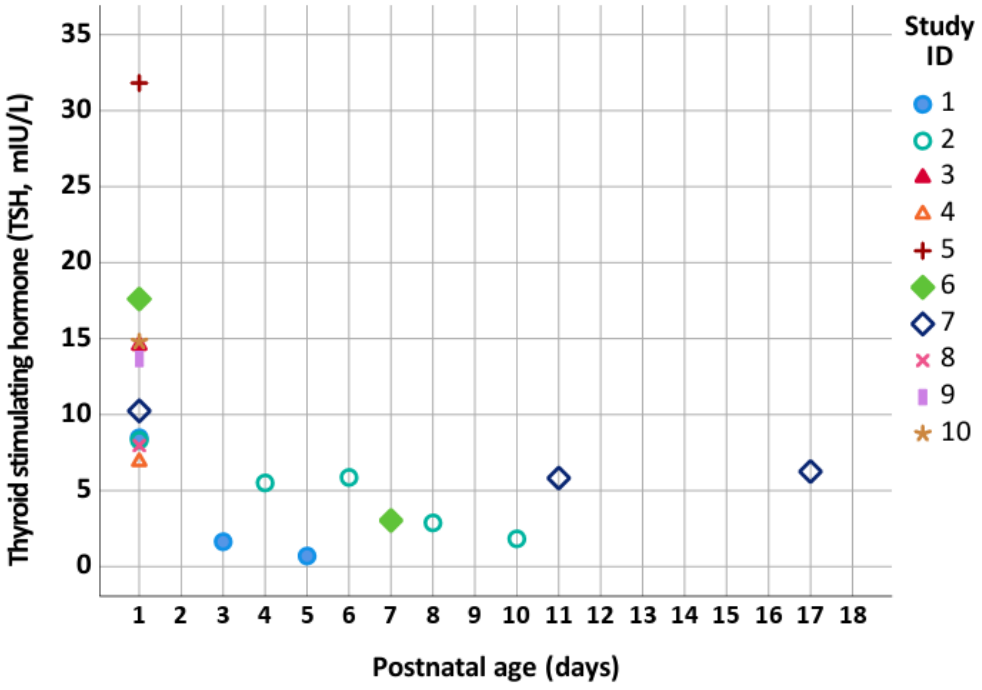


**Figure S9**: Available plasma thyroid stimulating hormone (TSH, mIU/L) data of the study population during the neonatal period (postnatal age day 1-28) are presented. Due to the limited number of observations for each neonate, and the variable sampling dates, data are presented by a unique symbol for each individual. TSH observations are available until postnatal age day 17.

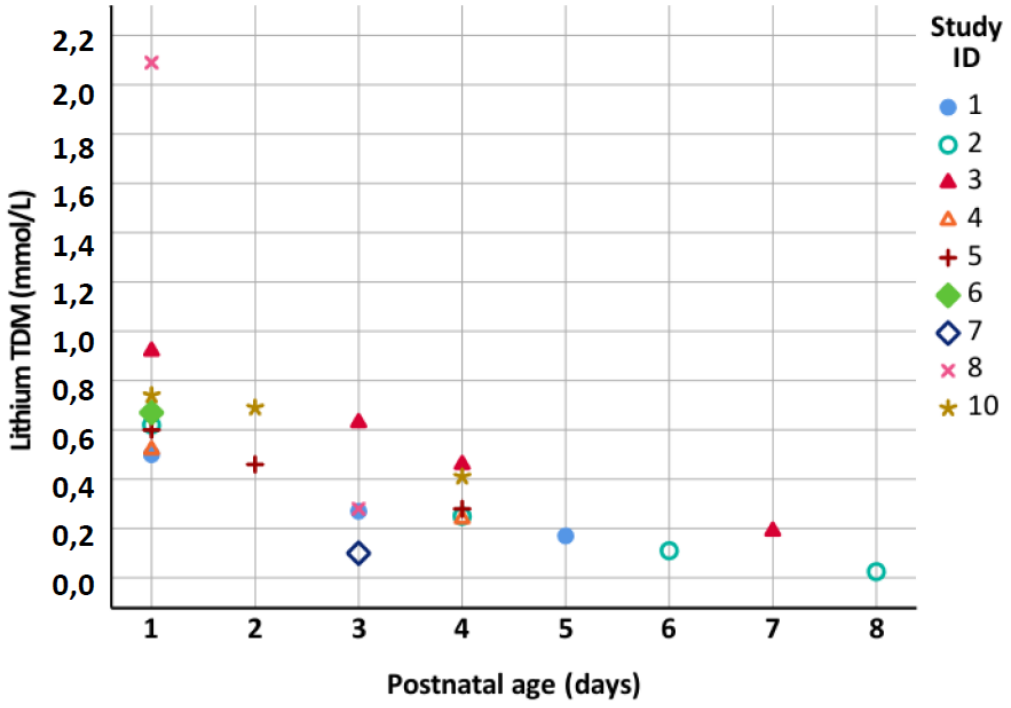


**Figure S10**: Available neonatal lithium serum concentrations (lithium TDM, mmol/L) are presented. Due to the limited number of observations for each neonate, and the variable sampling dates, data are presented by a unique symbol for each individual. TDM observations are available until postnatal age day 8.