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## Imaging the prenatal brain in congenital heart defects

Everwijn, S.M.P.

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**SHEILA MARIA PIETERNELLA EVERWIJN**

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# Imaging the prenatal brain in congenital heart defects

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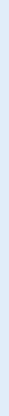
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Voor mijn geliefden





# Imaging the prenatal brain in congenital heart defects

**Chapter 1** Introduction and outline of this thesis

*Part I. The prenatal detection of conotruncal anomalies by ultrasound*

**Chapter 2** The effect of the introduction of the three-vessel view on the detection rate of transposition of the great arteries and tetralogy of Fallot

*Part II. The HAND-study: The assessment of different techniques of brain development in fetuses with isolated congenital heart defects.*

**Chapter 3** Fetal brain imaging in isolated congenital heart defects – a systematic review and meta-analysis.

**Chapter 4** Feasibility of neurosonography in CHD-fetuses and controls in a time-limited clinical tertiary setting.

**Chapter 5** Serial neurosonography in fetuses with congenital heart defects shows mild delays in cortical development.

**Chapter 6** Cortical development in fetuses with congenital heart defects using an automated brain-age prediction algorithm.

**Chapter 7** The association between flow and oxygenation and cortical development in fetuses with congenital heart defects using an automated brain-age prediction algorithm

**Chapter 8** General discussion

**Chapter 9** Summary / Samenvatting

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                                    Dankwoord