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LIST OF ABBREVIATIONS

ADC  apparent diffusion coefficient
BPD  bronchopulmonary dysplasia
BSID-III  Bayley scales of infant development - version 3
CC  corpus callosum
CBCL  child behavior check list
DEHSI  diffuse excessive high signal intensity
DWI  diffusion weighted imaging
DTI  diffusion tensor imaging
FA  fractional anisotropy
GA  gestational age
GMFCs  gross motor function classification system
GMH  germinal matrix hemorrhage
HC  head circumference
IUGR  intrauterine growth retardation
IVH  intraventricular hemorrhage
MDI  mental developmental index
PDA  persistent ductus arteriosus
PDI  psychomotor developmental index
PLIC  posterior limb of internal capsule
PMA  postmenstrual age
PWML  punctate white matter lesion
RDS  respiratory distress syndrome
TEA  term equivalent age
VPTI  very preterm infants
WM  white matter
CURRICULUM VITAE

The author of this thesis was born on the 2nd of January 1956 in Comodoro Rivadavia, Argentine. After completing secondary school in 1974, she started her medical studies at the University of Leiden in 1978 and obtained a medical degree in 1985.

In 1985 she commenced a radiology residency at the Academic Hospital Leiden (Head, Professor Dr. A.E. van Voorthuisen), which she completed in 1990. Since then she works as a staff member at the Radiology Department of the Leiden University Medical Center (Head, Professor Dr. J.L. Bloem). Her subspecialty is neuroradiology (Chief, Professor Dr. M.A. van Buchem), with a special interest in pediatric neuroradiology.

The research which resulted in this thesis was initiated in 2008 in close cooperation with Dr. Gerda van Wezel-Meijler, former neonatologist from the Neonatology Department of this hospital, and Dr. Jeroen van der Grond from the Radiology Department.