

VU Research Portal

The Fetal Heart

Uittenbogaard, L.B.

2011

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Uittenbogaard, L. B. (2011). *The Fetal Heart: Critical appraisal of three-dimensional echocardiography*.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

CONTENT

1	General introduction	9
2	A systematic analysis of the feasibility of four-dimensional ultrasound imaging using spatiotemporal image correlation in routine fetal echocardiography <i>Adapted from <i>Ultrasound Obstet Gynecol</i> 2008; 31: 625–632</i>	17
3	Feasibility of automated 3-dimensional fetal cardiac screening in routine ultrasound practice <i>Adapted from <i>J Ultrasound Med</i> 2009; 28: 881–888</i>	35
4	Validation of volume measurements for fetal echocardiography using four-dimensional ultrasound imaging and spatiotemporal image correlation <i>Adapted from <i>Ultrasound Obstet Gynecol</i> 2010; 35: 324–331</i>	49
5	Reliability of fetal cardiac volumetry using spatiotemporal image correlation assessment of <i>in-vivo</i> and <i>in-vitro</i> measurements <i>Adapted from <i>Ultrasound Obstet Gynecol</i> 2010; Sep; 36(3): 308–14</i>	67
6	STIC Hallucinations. Gating artefacts in an <i>in vitro</i> model Submitted for publication	81
7	Fetal cardiac function assessed with four-dimensional ultrasound imaging using spatiotemporal image correlation <i>Adapted from <i>Ultrasound Obstet Gynecol</i> 2009; 33: 272–281</i>	91
8	Assessment of fetal cardiac function, an overview Submitted for publication	109
9	General discussion and future prospects	141
10	Summary	151

APPENDICES

1	Summary in Dutch Samenvatting	157
2	Words of thanks in Dutch Dankwoord	163
3	Curriculum Vitae	169