Third trimester ultrasound and fetal measurements questionnaire Questions and layout of on-line survey

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About you & your Workplace		
Which best describes your workplace? (if you w practices, select the answer that applies to the working at today)		
O Obstetrician led private practice		
O Radiologist led private practice		
O Obstetrician led service in a public hospital		
O Radiologist led medical imaging service in a public hospital		
O Other (please specify)		
The postcode for my practice is: (if you work at multiple practices, select the answer to the practice you are working at today)	r that applies	
O Australia		
O New Zealand		

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My qualification in clinical ultrasound and/or medical imaging is: (please select all that apply)
DDU (general)
DDU (obstetric)
FRANZCR
FRANZCOG
CMFM
Obstetric trainee/registrar
Radiology trainee/registrar
Other (please specify)

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I have been reporting obstetric ultrasound for:

O Less than 5 years
○ 5-10 years
O More than 10 years

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Reporting third trimester ultrasound	
At this practice, I usually report third trimester i measurements alongside: (please select all that apply)	fetal
An equivalent number of weeks and days e.g. AC 270mm	n, 31w1d
A reference range e.g. AC 270mm, 30w3d - 32w0d	
The measurement and standard deviation e.g. AC 270mm +/- 2SD	
The percentile for the known gestational age e.g. AC 270mm, 90th percentile	
The z score e.g. AC 270mm, z = 1.28	
Other (please specify)	
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My practice uses the following reference chart for the **biparietal diameter (BPD)** measurement:

	~
ASUM charts (2000)	
Chitty (2002)	
Hadlock (1982)	
Jeanty (1984)	
Schulter (2004)	
Snijders (1994)	
IG21 (2014)	
GROW	
Do not know	
Other	



circumference (HC) measurement:

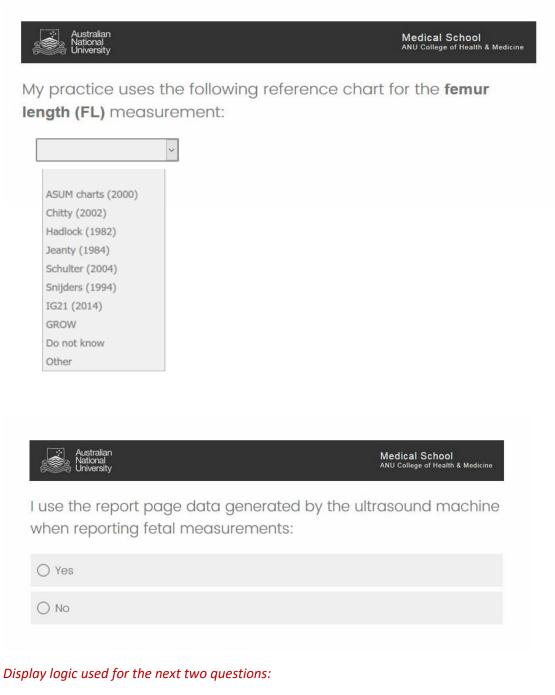




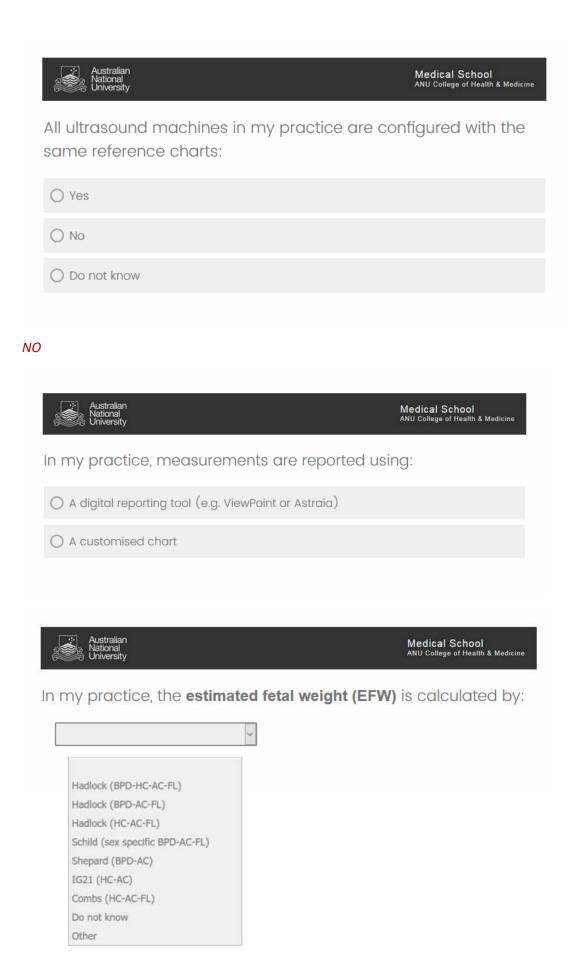
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My practice uses the following reference chart for the **abdominal circumference (AC)** measurement:

	~
ASUM charts (2000)	Ŀ
Chitty (2002)	
Hadlock (1982)	
Jeanty (1984)	
Schulter (2004)	
Snijders (1994)	
IG21 (2014)	
GROW	
Do not know	
Other	



YES



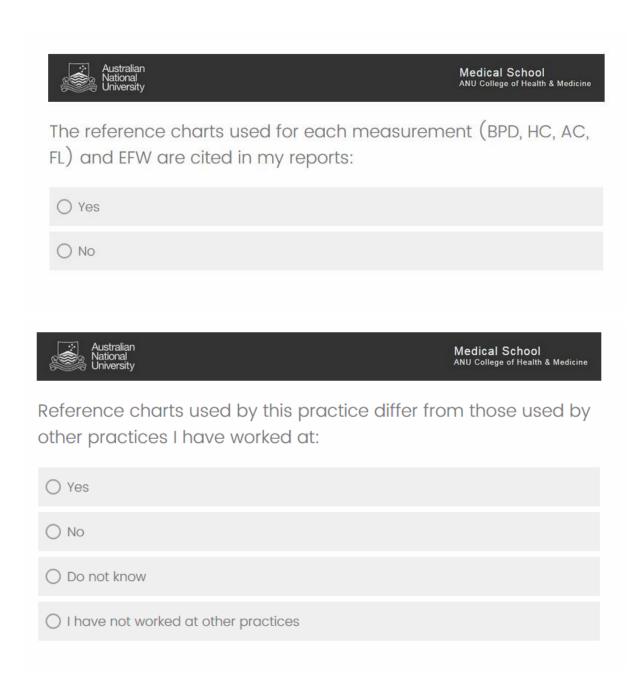
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I usually report EFW alongside:	
O The percentile for the known gestational age e.g. 1481g, 71st	percentile
\bigcirc The percentage error of the estimation e.g. 1481g +/- 15%	
○ The error of the estimation in grams e.g. 1481g +/- 222g	
○ The z score e.g. 1418g, z=0.58	
O Nothing - I just report the EFW in grams	
O Other (please specify)	

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My practice uses the following reference chart for **EFW**:

Υ	
Australian national birthweight percentiles by gestational age (Roberts 1998) Australian national birthweight percentiles (Dobbins 2012)	
NZ-WHO growth charts (2010)	_
NZ customised charts (2015)	-
New South Wales population based birthweight charts (Beeby 1996)	
Fenton growth chart for preterm infants (2013)	
Hadlock EFW chart (1991)	
WHO fetal growth charts (2017)	
FMF fetal and neonatal population charts (2018)	
Do not know	
Other	



I comment the fetus may be small for gestational age or growth restricted at the following cut-off: (select all that apply)

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EFW below the 10th percentile
EFW below the 5th percentile
AC below the 10th percentile
AC below the 5th percentile
Both EFW and AC below the 10th percentile
Both EFW and AC below the 5th percentile
I don't comment on small for gestational age or growth restriction
Other (please specify)



Third trimester Doppler

These questions relate to the use of Doppler in third trimester ultrasound for fetal growth

In my practice, **Umbilical Artery (UA)** Doppler is performed in third trimester ultrasound assessment in the following circumstances: (select all that apply)

It is performed in all third trimester ultrasound assessments
It is only performed at specific gestational ages
EFW below the 10th percentile
EFW below the 5th percentile
When requested by the referring doctor
It is never part of a third trimester ultrasound in my practice
Other (please specify)

Skip logic used to skip the next three questions when 'It is never part of a third trimester ultrasound in my practice' is selected.

Display logic used for the next question when 'It is only performed a specific gestational ages' is selected.



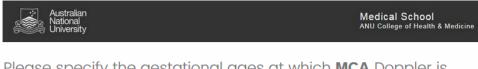
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I usually report UA Doppler using: (select all that apply)	
Systolic/Diastolic ratio (S/D)	
Pulsatility index (PI)	
Resistive index (RI)	
Other (please specify)	
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My practice uses the following reference chart for UA Doppler:	

	~
Trudinger (1985))
Arduini (1990)	
Baschat (2003)	
Acharya (2005)	
Medina Castro (2	.006)
Ebbing (2007)	
Parra-Cordero (2	007)
Do not know	
Other	

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In my practice, Middle Cerebral Artery (MCA) Do performed in third trimester ultrasound assess following circumstances: (select all that apply)	
It is performed in all third trimester ultrasound assessment	ts
It is only performed at specific gestational ages	
EFW below the 10th percentile	
EFW below the 5th percentile	
When the UA Doppler is abnormal	
When requested by the referring doctor	
It is never part of a third trimester ultrasound in my practic	ce
Other (please specify)	

Skip logic used to skip the next six questions when 'It is never part of a third trimester ultrasound in my practice' is selected.

Display logic used for the next question when 'It is only performed a specific gestational ages' is selected.

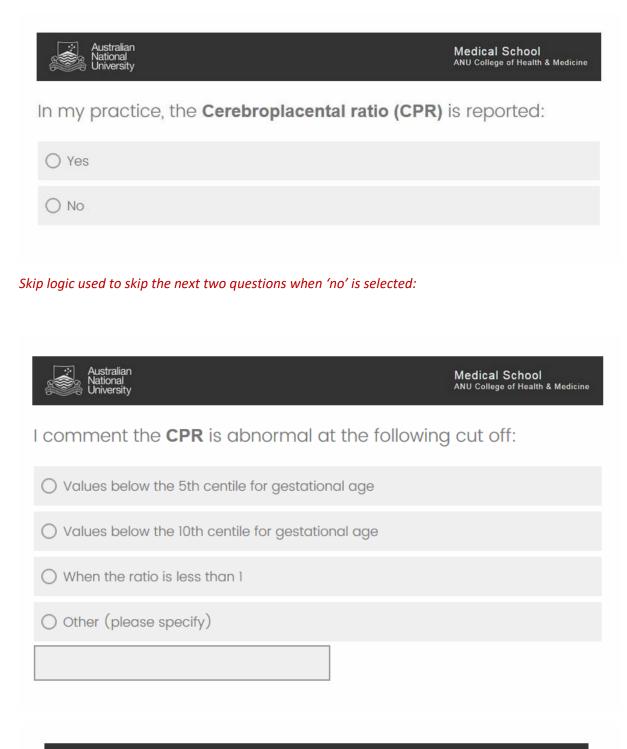


Please specify the gestational ages at which **MCA** Doppler is performed:

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I usually report MCA Doppler using: (select all that apply)	
Systolic/Diastolic ratio (S/D)	
Pulsatility index (PI)	
Resistive index (RI)	
Peak systolic velocity	
Other (please specify)	
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My practice uses the following reference chart for **MCA** Doppler:

	~
Kurmanavicius (2001)	
Baschat (2003)	
Medina Castro (2006)	
Ebbing (2007)	
Bahlmann (2012)	
Ayoola (2016)	
Do not know	
Other	



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My practice uses the following reference chart for **CPR**:

	~
Ebbing (2007)	
Baschat (2003)	
Morales-Rosello (2015)	
Do not know	
Other	

In my practice, **Ductus Venosus (DV)** Doppler is performed in third trimester ultrasound assessment in the following circumstances: (select all that apply)

It is performed in all third trimester ultrasound assessments
It is only performed at specific gestational ages
EFW below the 10th percentile
EFW below the 5th percentile
When the UA Doppler is abnormal
When the MCA Doppler is abnormal
When requested by the referring doctor
It is never part of a third trimester ultrasound in my practice
Other (please specify)

Skip logic used to skip the next three questions when 'It is never part of a third trimester ultrasound in my practice' is selected.

Display logic used for the next question when 'It is only performed a specific gestational ages' is selected.

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Please specify the gestational ages at which DV Do performed:	ppler is
	I School _{ge of Health} & Medicine
I usually report DV Doppler using: (select all that apply)	
Systolic/Diastolic ratio (S/D)	
Pulsatility index (PI)	
Pulsatility Index for Veins (PVIV)	
Resistive index (RI)	
Peak systolic velocity	
Other (please specify)	

My practice uses the following reference chart for **DV** Doppler:

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	~
Hecher (1994)	
Kessler 2006	
Tongprasert (2012)	
Turan (2015)	
Do not know	
Other	

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It is performed in all third trimester ultrasound assessments
It is only performed at specific gestational ages
EFW below the 10th percentile
EFW below the 5th percentile
When requested by the referring doctor
It is never part of a third trimester ultrasound in my practice
Other (please specify)

Skip logic used to skip the next three questions when 'It is never part of a third trimester ultrasound in my practice' is selected.

Display logic used for the next question when 'It is only performed a specific gestational ages' is selected.



Please specify the gestational ages at which **Ut** Doppler is performed:

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I usually report UtA Doppler using: (select all that apply)	
Systolic/Diastolic ratio (S/D)	
Pulsatility index (PI)	
Resistive index (RI)	
Peak systolic velocity	
Other (please specify)	



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My practice uses the following reference chart for **UtA** Doppler





Choice of reference chart

To what extent do you agree that the following factors are important considerations in the choice of reference charts?

	Strongly disagree	Disagree	Neither agree nor disagree	Agree	Strongly agree
Recommendations and guidelines of professional bodies	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Chart methodologies	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Referring practitioner preferences	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
The software configuration of the ultrasound machine	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

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Under which circumstances would you consider changing the reference charts used at your practice?

	Extremely likely	Somewhat likely	Neither likely nor unlikely	Somewhat unlikely	Extremely unlikely
ASUM recommendation	0	0	0	0	0
RANZCR recommendation	0	0	0	0	0
RANZCOG recommendation	0	0	0	0	0



Is there anything you would like to add about how third trimester ultrasound is performed and reported?