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Fetal	Growth	Assessment	Guideline
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Classification:	Guideline					
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Guideline to be followed by (target staff): Midwives and Obstetricians providing antenatal care

To be read in conjunction with the following documents:

- Saving Babies' Lives' Version Two: A care bundle for reducing perinatal mortality (July 2019)
- Antenatal Care Pathway Guideline
- Fetal Monitoring Guideline
- Multiprofessional Handover of Care Guideline
- Obesity in pregnancy Guideline
- RCOG Green-Top Guideline: 31. The Investigation and Management of the Small-for-Gestational-Age fetus
- GAP care pathway v2 (November 2019)

Are there any eCARE implications? No

CQC Fundamental standards:

Regulation 9 – person centered care

Regulation 10 – dignity and respect

Regulation 11 – Need for consent

Regulation 12 – Safe care and treatment

Regulation 13 – Safeguarding service users from abuse and improper treatment



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Disclaimer

Since every patient's history is different, and even the most exhaustive sources of information cannot cover every possible eventuality, you should be aware that all information is provided in this document on the basis that the healthcare professionals responsible for patient care will retain full and sole responsibility for decisions relating to patient care; the document is intended to supplement, not substitute for, the expertise and judgment of physicians, pharmacists or other healthcare professionals and should not be taken as an indication of suitability of a particular treatment for a particular individual.

The ultimate responsibility for the use of the guideline, dosage of drugs and correct following of instructions as well as the interpretation of the published material lies solely with you as the medical practitioner.

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Guideline Statement

This guideline uses a standardised risk assessment tool and care pathway for the management of low, moderate and high-risk pregnant woman/people in relation to fetal growth assessment. It has been developed in conjunction with Saving babies' lives version 2 and the Perinatal Institute's Gap Care Pathway version 2.

The purpose of the guideline is to support provision of care using;

- Standardised method for serial fundal height measurement across all disciplines
- Use of an enhanced surveillance system for higher risk pregnant woman/people
- Facilitating early detection from the normal growth curve when using a customised growth chart leading to appropriate intervention following identification.

This guideline aims to address **Element 2: Risk assessment and surveillance for fetal growth restriction**

"The previous version SBL element 2 has made a measurable difference to antenatal detection of small for gestational age (SGA) babies across England. It is however, possible that by seeking to capture all babies at risk, interventions may have increased in pregnant women/people who are only marginally at increased risk of FGR related stillbirth. This updated element seeks to address this possible increase by focusing more attention on pregnancies at highest risk of FGR, including assessing pregnant women/people at booking to determine if a prescription of aspirin is appropriate. The importance of proper training of staff who carry out symphysis fundal height (SFH) measurements, publication of detection rates and review of missed cases remain significant features of this element." Widdows K., Roberts SA., Camacho EM., Heazell AEP. (2018). Evaluating the implementation of Saving Babies' Lives care bundle in NHS Trusts in England: stillbirth rates, service outcomes and costs. Manchester: Maternal and Fetal Health Research Centre, University of Manchester

Assessment of fetal growth is an integral element of antenatal care. Fetal growth restriction (FGR) is associated with stillbirth, neonatal death and perinatal morbidity and FGR remains a focus in the most recent MBBRACE report (Draper et al., 2019).

RCOG (2013) suggest the only way to manage growth restriction is early delivery of the baby; Therefore, antenatal detection of growth restricted babies is vital and has been shown to reduce stillbirth risk significantly because it gives the option to consider timely delivery of the baby at risk.

"An epidemiological analysis based on the comprehensive West Midlands database has underlined the impact that fetal growth restriction has on stillbirth rates, and the significant reduction which can be achieved through antenatal detection of pregnancies at risk." (perinatal.org.uk/fetalgrowth)

Continuity of Carer provides further improves the accuracy of fetal growth surveillance. An accurate and consistent standardised method of measurement allows appropriate clinical decisions to be made therefore promoting best practice.



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Executive Summary

The Saving Babies' Lives Care Bundle (O'Connor, 2016; NHS England 2019a) is designed to tackle stillbirth and neonatal death. Version 2 of the care bundle (NHS England 2019b) brings together five elements of care that are widely recognised as evidence based and best practice:

- 1. Reducing smoking in pregnancy
- 2. Risk assessment and surveillance for fetal growth restriction
- 3. Raising awareness of reduced fetal movements
- 4. Effective fetal monitoring during labour
- 5. Reducing preterm birth

Definitions

SGA: Small for gestational age. This is defined as a weight (fetal or at birth) measurement below the 10th centile on the customised growth chart but with normal growth velocity

FGR: Fetal Growth Restriction. The term used for babies that have slow or no growth. This is defined as a growth trajectory which is less or slower than the curve/growth velocity indicated by the **10**th **centile** (for fundal height measurement) or 3rd centile (for EFW by USS) lines of the customised growth chart over the same gestational age interval

Abbreviations

ADDIEVIAL	10113				
AC	Abdominal circumference	MLC	Midwifery Led Care		
ADAU	Antenatal Day Assessment Unit	NICE	National Institute for Health and		
AGA	Adequate for gestational age	Care Exce	ellence		
ANC	Antenatal Clinic	OGTT	Oral glucose tolerance test		
CLC	Consultant Led Care	RCOG	Royal College of Obstetricians		
CTG	Cardiotocograph		and Gynaecologists		
EFW	Estimated Fetal Weight	SBL	Saving Babies Lives		
FGR	Fetal Growth Restriction	SFH	Serial Fundal Height		
GAP	Growth Assessment Protocol	SGA	Small for Gestational Age		
LGA	Large for Gestational Age	USS	Ultrasound Scan		
MKUH	Milton Keynes University Hospital				
NHS Foundation Trust					

1.0 Roles and Responsibilities:

It is the responsibility of all Obstetricians and Midwives working within Milton Keynes NHS Trust to:

- Adhere to this guideline
- Use associated guidelines to support practice
- Complete associated training according to Maternity Specific training policy

2.0 Implementation and dissemination of document

This document will be placed on the Trust's central database (Guidelines and Patient Information System) which can be accessed via the Trust's Intranet.



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3.0 Processes and procedures

3.1 Procedure

Using the SBLv2 Care Bundle (O'Connor, 2016; NHS England, 2019b), midwives should undertake an initial risk assessment at booking **(appendix 1)** or at the point of which a pregnant woman/people transfer's her maternity care to MKUH.

This risk assessment provides midwives with a screening tool to help identify the level of risk for FGR and initiate referral for consultant led care (if indicated).

At booking, pregnant women/people should also be assessed for Aspirin requirement in pregnancy as per criteria below – recommend Aspirin 150mg at night from 12 weeks until delivery

Hypertensive disorder in a previous pregnancy	Age ≥ 40 years old at booking
Chronic hypertension	Pregnancy interval ≥ 10 years
Previous SGA/FGR (< 10th centile)	Booking BMI ≥ 35
Type 1 or type 2 diabetes	Multiple pregnancy
Iow PAPPA	IVF with doner egg only
Autoimmune disease (e.g. systemic lupus	Family history of pre-eclampsia
erythematosus or antiphospholipid)	(1st degree relative e.g. mother or sister)
Placental dysfunction in previous pregnancy	Primigravida
Chronic kidney disease	
(If latest creatinine result is >150 mg/dl low dose aspirin 75mg only)	

Placental dysfunction

History of placental dysfunction in previous pregnancy is suggested by:

- Abnormal uterine artery Doppler (mean pulsatility index >95th centile) earlier in pregnancy (20 24 weeks) and/or
- Abnormal umbilical artery Doppler (absent or reversed end diastolic flow or pulsatility index >95th centile).
- Placental histology confirming placental dysfunction

Please note: Aspirin 75mg for those with a booking weight below 50kg

In addition to the initial risk assessment:

 All pregnant women/people should have a customised growth chart generated online, using GROW 2.0 at booking or at the point of which a pregnant woman/person transfer's their maternity care to MKUH.





Some pregnant women/people may have an indication to use a paper version of the
customised growth chart e.g. pregnant women/people sharing care with a different Trust (this
is to ensure the sharing Trust has access to view the growth velocity as they will not be able
to access MKUH GROW 2.0). Once a chart is generated on GROW 2.0 - the chart can be
printed and put in hand held notes.

- Out or area booking (CLC by MKUH): For serial scans all scans at MKUH – Use GROW 2.0 and plot EFW using electronic GROW 2.0 chart
- Out of area booking: (MLC outside of Trust): suitable for SFH Use
 GROW 2.0 Print paper copy of chart, manual plotting required on paper chart
- Shared care having scans outside of Trust Print paper copy of GROW
 2.0 chart, manual plotting required on paper chart
- At every subsequent encounter with the pregnant woman/person the clinician should review changes in risk status and refer when indicated.
- Pregnant woman/people with "moderate" and "high risk "factors should have serial scans offered in accordance with the protocol outlined in the SBL 2 "Algorithm for using uterine artery Doppler as a risk assessment tool for early onset FGR" (appendix 3).
- EFW measurements should be entered on the GROW 2.0 system, this will automatically plot on the customised growth chart (if using a paper chart, the measurement should be plotted using a with a circle around it on the customised growth chart).
- Doppler results must also be entered on GROW 2.0 unless paper charts are in use.
- AC should be entered in the comments section of when entering EFW and dopplers on GROW 2.0 as this will assist the reviewing clinician when planning care (clinicians will need to refer to USS results if paper chart being used.

Referral to consultant led care will initiate an individualised plan of care which will guide all healthcare professionals as to the appropriate, ongoing method of fetal surveillance.

- To ensure a consistent approach, pregnant women/people requiring EFW surveillance should have this clearly and documented within e-care and on the hand-held pregnancy summary
- Low risk pregnant women/people who present with risk factors in pregnancy should be referred to Consultant led care ensure plan visible on hand held records and eCare

Reassess risk at anomaly scan, at 28 weeks and after any antenatal admission. Assess for complications developing in pregnancy, e.g. hypertensive disorders or significant bleeding.

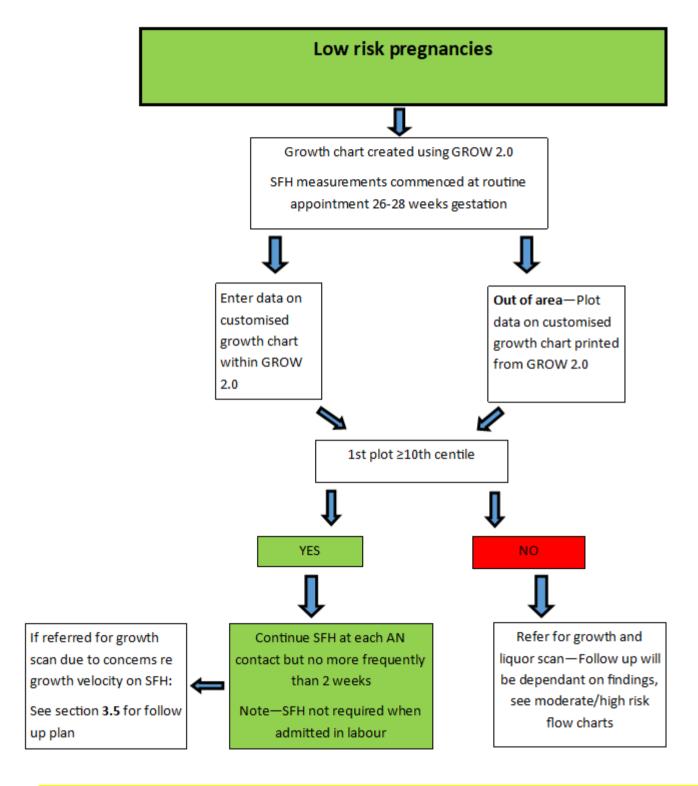
When new complications develop i.e. PET, gestational diabetes, obstetrician to arrange serial USS from detection of complications until delivery.

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3.1.1 Low risk pregnancies:



SFH entered on the GROW 2.0 system will automatically plot on the customised growth chart (if using a paper chart, the measurement should be plotted using an **X** on the customised growth chart).



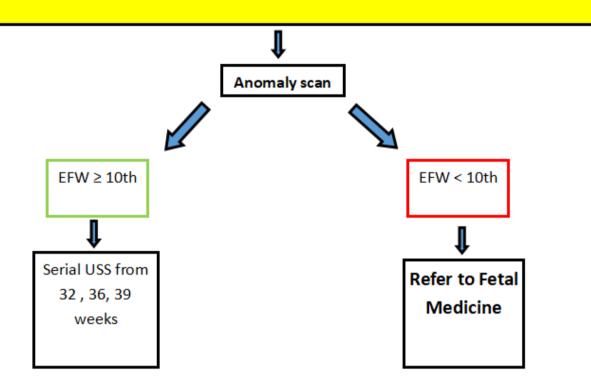


For pregnancies that are unsuitable for SFH or those of moderate or high risk for FGR, GAP care pathway, RCOG and SBL Care Bundle recommend serial ultrasound assessment of fetal growth and umbilical artery Doppler.

3.1.2 Pregnant women/people unsuitable for monitoring of growth by SFH

Pregnant women/people unsuitable for monitoring growth velocity by SFH

BMI >35/Large fibroids





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3.1.3 Moderate risk factors:

Pregnant women/people at moderate risk of FGR **do not** require uterine artery Doppler assessment but are still at risk of later onset FGR and should be offered serial ultrasound assessment of fetal growth in the third trimester.

At MKUH, pregnant women/people with moderate risk factors should be offered the following plan of care: (see appendix 3):

Pregnant women/people with moderate risk factors

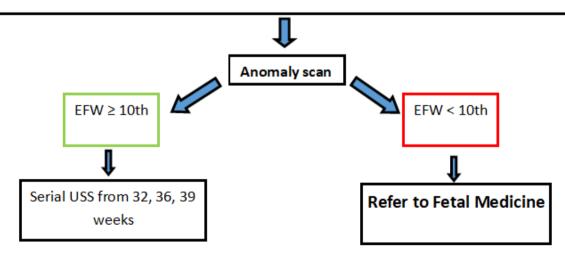
Previous SGA/Previous still birth (AGA birthweight)/Current smoker (includes vaping) / Drug misuse/ Age ≥ 40 at booking



Assess risk factors for Aspirin (commence at 12 weeks) - Use checklist criteria in 3.1

Please note:

- If chronic kidney disease (Aspirin 75mg if latest creatinine result is >150mg/dl)
- History of placental dysfunction in previous pregnancy is suggested by:
- Abnormal uterine artery Doppler (mean pulsatility index >95th centile) earlier in pregnancy (20 24 weeks) and/or
- Abnormal umbilical artery Doppler (absent or reversed end diastolic flow or pulsatility index >95th centile).
- Placental histology confirming placental dysfunction





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3.1.4 High risk factors:

Uterine artery Doppler can be used in the second trimester (20 - 24 weeks) to further determine the risk of placental dysfunction and therefore risk of hypertensive disorders or early onset FGR for pregnant women/people at high risk.

For pregnant women/people with a normal uterine artery Doppler pulsatility index (mean ≤95th centile), the risk of these disorders is low and thus serial scanning for fetal biometry can be commenced in the third trimester.

At MKUH, sonographers do not perform uterine artery dopplers yet and training is underway. Until the training is complete, *High risk pregnant women/people* must be offered serial scans from 28 weeks until delivery.

Pregnant woman/people having serial scans until delivery under fetal medicine pathway do not need scans in ultrasound department.

Pregnant women/people with high risk factors should be offered the following plan of care: (see appendix 3):

Pregnant women/people with high risk factors

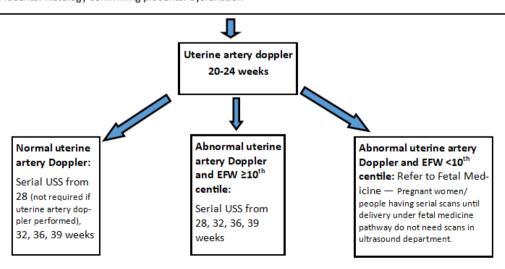
Chronic kidney disease/Hypertension/Autoimmune disease (SLE,APLS)/Cyanotic congenital heart disease/
Previous FGR/PAPPA <5th centile/Echogenic bowel/Significant PV bleeding/PreviousSGA stillbirth/
EFW<10th centile in current pregnancy/Hypertensive disease in previous preganancy



Assess risk factors for Aspirin (commence at 12 weeks) - Use checklist criteria in 3.1

Please note:

- If chronic kidney disease (Aspirin 75mg if latest creatinine result is >150mg/dl)
- History of placental dysfunction in previous pregnancy is suggested by:
- Abnormal uterine artery Doppler (mean pulsatility index >95th centile) earlier in pregnancy (20 24 weeks)
- Abnormal umbilical artery Doppler (absent or reversed end diastolic flow or pulsatility index >95th centile).
- Placental histology confirming placental dysfunction





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3.2 Plotting EFW on GROW 2.0 chart

- Log into GROW 2.0 using individual clinician log in
- Search for pregnant woman/person using demographic details
- Access chart
- Click 'Add Scan'
- Enter EFW and all relevant data from scan (include AC in comments section), save and continue, the growth chart will reappear with the plotted scan as a dot
- Click on plotted scan dot to review, add doppler details, review and save
- If deviation from expected trajectory refer as appropriate (see section 3.4 Recommendations)
- Ensure clinician log out when finished

Note: If using a paper customised growth chart (in cases of shared care between Trusts or transfer from another Trust) follow steps below:

- Use the gestational age from the Growth scan and predicted EFW. The weight from charts will need to be rounded up or down using general mathematical principles i.e. 3426 g to be plotted as 3450
- A set square should be used to ensure plot is in the correct place on the GROW chart
- The estimated fetal weight should be calculated and plotted (using an O) on the customised GROW chart by the Sonographer
- The plot should be initialed by the Sonographer with the date on the horizontal axis

3.3 Method for measuring (See appendix 2) and plotting SFH;

- Once you have measured SFH
- Log into GROW 2.0 using individual clinician log in
- Search for pregnant woman/person using demographic details
- Access chart
- Click 'Add SFH'
- Enter SFH as exact measurement e.g. 29.3 (do not round up of down to nearest whole) and all other relevant data save and continue, the growth chart will reappear with the plotted SFH as an X
- Click on plotted X to review and save
- If deviation from expected trajectory refer as appropriate (see section 3.4 Recommendations)
- Ensure clinician log out when finished

If using a paper customised growth chart (in cases of shared care between Trusts or transfer from another Trust) follow steps below:

- Calculate the gestational age from the agreed EDD (dating scan)
- Plot must be exact measurement e.g. 29.3 (do not round up of down to nearest whole)
- A set square should be used to ensure plot is in the correct place on the GROW chart
- The SFH is plotted (using an X) on the customised growth chart by the clinician (Midwife or Obstetrician)
- The plot should be initialed by the clinician with the date on the horizontal axis



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3.4 Recommendations

Referrals to Ultrasound for Low risk pregnancies where the woman is having SFH measurements;

- When there is an indication for a growth scan the Midwife/Doctor will refer directly for scan via eCare.
- The ultrasound Department will give an appointment within:
 - o 72 hours for slow/static growth or first plot <10th centile
 - 1 week for concerns of increased growth velocity
- Arrangements for follow up by the referrer should be made prior to the scan
- Indications for a growth and liquor volume scan are (GROW 2.0 will automatically highlight this when data is entered and reviewed), if using paper chart, this will be a visual assessment:
- <u>First fundal height</u> measurement plots below the 10th centile on the customised growth chart.
- <u>Excessive Growth</u>: If, based on consecutive measurements, there is concern about excessive growth because of the sharpness of the curve a fetal growth and Liquor volume scan should be requested
- <u>Slow or Static Growth</u>: If, based on consecutive measurements, growth is static (flat), or slow (growth trajectory which is less (slower) than the slope of the curve/growth velocity indicated by the 10th centile line on the customised chart over the same gestational age interval)

Please note - A **first** measurement above the 90th centile line does not need referral for scan for query LGA, unless there are other clinical concerns such as polyhydramnios.

3.5 Follow up:

It is the responsibility of the person performing the scan to plot the EFW on the customised growth chart (either using GROW 2.0 (or a paper chart if this is indicated). This will identify any deviation from the expected growth trajectory.

Normal EFW;

- If referral for scan was for slow or static growth Sonographer to book second scan 2-4 weeks from last (to ensure normal growth trajectory), inform woman to see community Midwife/Obstetrician as planned
- If attending antenatal appointment and awaiting second scan If SFH has not been performed within two weeks of last, measure and plot SFH (act on findings as per 3.4)
 Please note: Last SFH will become the new baseline for the subsequent measurements



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Abnormal EFW;

- **EFW growth trajectory showing slow or static growth**; refer to ADAU for same day appointment for obstetric review
- EFW plotting < 10th centile; refer to ADAU for same day appointment for cCTG and obstetric review

If they do not wish to attend ADAU the same day, Sonographer to discuss with ADAU so that a follow up appointment can be offered.

- For cEFW below 3rd centile at ANY gestation-Refer to fetal medicine (appointment within 4 days)
- For pregnant woman/people <36 weeks: Follow appendix 1 of <u>Ultrasound for Suspected</u>
 SGA guideline
- If pregnant woman/people at 36 weeks or more & cEFW below 10th centile -Refer to fetal medicine (appointment within one week). Follow appendix 2 of <u>Ultrasound for Suspected</u> SGA guideline

Pregnant woman/people having serial scans until delivery under fetal medicine pathway do not need scans in ultrasound department.

Other USS findings not within range;

- LGA; EFW >90th centile –. Direct to ANC for a consultant appointment and OGTT within 1 week
- **Umbilical artery** PI above 95th centile, absent or reversed EDF" refer to ADAU for same day appointment for cCTG and urgent obstetric review
- Abdominal circumference Deceleration > 40 points since the anomaly scan, refer to ADAU for same day appointment for obstetric review
- Polyhydramnios
 - AFI >=30 OGTT and referral to fetal medicine (appointment within 4 days)
 - AFI <30 OGTT and referral to consultant ANC within 4 days.

Upon review the Doctor should review the EFW plot and growth trajectory/clinical picture and make subsequent management plan; this <u>must</u> be clearly documented within e-Care and printed for the handheld pregnancy records.

3.6 Antenatal admission / attendance:

All pregnant women/people calling with any concerns should be appropriately assessed using the telephone triage sheet. If admission is required, fetal wellbeing assessment using CTG should be planned according to the clinical need and **Fetal Monitoring Guideline**.

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3.7 Intrapartum Care:

High risk pregnant women/people - review indication for serial growth scans;

- BMI ≥35: If serial growth scans show normal growth velocity and there are no other
 indications to use continuous electronic fetal monitoring in labour (unless risks change
 during labour), continuous fetal monitoring is not required for raised BMI.
- **Smoker:** If serial growth scans show normal growth velocity and there are no other indications to use continuous electronic fetal monitoring in labour (unless risks change during labour), continuous fetal monitoring is not required for smokers.
- All other high-risk pregnant women/people be offered an Obstetric review as soon as
 possible to discuss and develop a clear management plan for intrapartum care which will be
 documented within the pregnant woman/person's healthcare record (on e-care).

Low risk pregnant woman/people – Offer routine intermittent auscultation unless risk changes during labour

For further guidance on fetal monitoring in labour please refer to the <u>Fetal Monitoring Guideline</u> on the intranet.

3.8 Postnatal Surveillance:

The Midwife will calculate birth weight centile using the GROW 2.0 centile calculator software. This is designed to identify babies at risk of neonatal complications related to FGR and plan appropriate care. Data is also used to monitor and our identification of FGR and assist in auditing early detection and management of FGR in the antenatal period.

- Babies below the 10th centile require additional observations for 24hrs post-delivery –
 please refer to the Hypoglycaemia in the Newborn guideline.
- Babies below the 2nd centile require an additional care pathway please refer to the <u>Hypoglycaemia in the Newborn guideline</u>.
- All babies who were undetected SGA (<10th centile) require a RADAR incident report



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4.0 Statement of evidence/references:

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5.0 Governance

5.1 Document review history

Version number	ersion number Review date Reviewed by		Changes made			
6	03/2022	G Leroux/Miss F Nizami	Guideline review and alignment with new procedures using			
5	11/01/2021	Miss F Nizami	GROW 2.0 Alignment of guideline with SBL2 algorithm for risk assessment for early onset fetal growth restriction			
4	07/2020	Georgena Leroux	Guideline review and implementation of SBL 2 and Gap care pathway 2019			
3	05/2016	Kirsty Hart	Implement new national recommendations			
2	07/2012	Georgena Leroux	Revision and update			
1	03/2009	Mary Plummer	New practice - to originate document			

5.2 Consultation History

Stakeholders Name	Area of Expertise	Date Sent	Date Received	Comments	Endors ed Yes/No	
Michelle Fynes	O&G Consultant	14/05/20 20	15/05/20 20	No amendments suggested	N/A	
Julie Cooper	Head of Midwifery	14/05/20 20	17/05/20 20	Incorporated	Yes	
Rebecca Daniels	Consultant Midwife	14/05/20 20	14/05/20 20	Incorporated	Yes	
Jessica Matson	Community Midwife	14/05/20 20	14/05/20 20	Incorporated	Yes	
Rachael Bickley	Co-Chair Maternity:MK MVP	02/2022		Incorporated	Yes	
Katie Selby	Governance lead	03/2022		Incorporated	Yes	
Melissa Coles	ADAU Manager	03/2022		Incorporated	Yes	
Charlotte Auker	Midwife	03/2022		Incorporated	Yes	
		03/2022		Incorporated	Yes	





5.3 Audit and monitoring

This Guideline outlines the process for document development will be monitored on an ongoing basis. The centralisation of the process for development of documents will enable the Trust to audit more effectively. The centralisation in recording documents onto a Quality Management database will ensure the process is robust.

Audit/Monitoring Criteria	Tool	Audit Lead	Frequency of Audit	Responsible Committee/Board
	Audit	Fetal		
a) Standardised risk assessment completed	Audit		Annual	Audit meeting
correctly for all pregnant		Surveillance		Labour ward forum
women/people:		lead		Laboui waiu ioiuiii
- at booking		Midwife and		
- at anomaly scan		Obstetric		
- at 28 week appointment		lead		
b) Fetal growth surveillance				
plan appropriate (dependent				
on risk)				
c) SFH performed, recorded,				
and plotted on customised				
growth chart (either GROW 2.0				
or paper chart as appropriate)				
d) EFW calculated,				
recorded, and plotted on				
customised growth chart (either GROW 2.0 or paper chart				
as appropriate)				
e) Appropriate action is				
taken when deviation from				
normal				
f) Identified FGR < 3 rd centile				
delivered < 38weeks				
g) In pregnancies identified				
as high risk at booking				
uterine artery Doppler flow				
velocimetry is performed by				
24 completed weeks				
gestation				
			1	

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5.4 Equality Impact Assessment

As part of its development, this Guideline and its impact on equality has been reviewed. The purpose of the assessment is to minimise and if possible remove any disproportionate impact on the grounds of race, gender, disability, age, sexual orientation, religion or belief, pregnancy and maternity, gender reassignment or marriage and civil partnership. No detriment was identified. Equality Impact assessments will show any future actions required to overcome any identified barriers or discriminatory practice.

parriers or discriminatory practice.								
	Equality Impact Assessment							
Division		Pregnant woman/people's a Children's Health			Department Obs		Obstetrics	
Person completing the Eq	Person completing the EqIA Georgena Lero			Contact No.		act No.	86582	
Others involved:					Date	of assessment:	05/2020	
Existing policy/service			Yes		New p	oolicy/service	No	
Will patients, carers, the p be affected by the policy/s		taff	Yes					
If staff, how many/which g	roups wil	l be	All midwives	and doct	tors wo	rking in the mate	ernity	
affected?			department					
		T						
Protected characteristic		Any ir	Any impact? Comme		nts			
Age		NO			Positive impact as the policy aims to ecognise diversity, promote inclusion and			
Disability		NO						
Gender reassignment		NO		fair treatment for patients and staff				
Marriage and civil partne	ership	NO						
Pregnancy and maternity	у	NO						
Race		NO						
Religion or belief		NO						
Sex			NO					
Sexual orientation			NO	VO				
What consultation method	` '							
Circulation via email. Disc								
How are the changes/amendments to the policies/services communicated?								
Circulation via email. Discussion at guidelines meeting and CIG.								
What future actions need to be taken to overcome any barriers or discrimination?								
What? W	ho will le	will lead this? Da		te of completion		Resources nee	ded	
Review date of EqIA 03/02/2024								





Appendix 1: Booking Risk Assessment



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Appendix 2: Fundal Height Measurement

Fetal Growth - Fundal Height Measurements



1. Mother semi-recumbent, with bladder empty.

- . Explain the procedure to the mother and gain vertal consent
- Wash hands
- . Have a non-elastic tape measure to hand
- Ensure the mother is confortable in a semi-recumbent position, with an
- . Expose enough of the abdomen to allow a thorough examination



2. Palpate to determine fundus with two hands.

- . Ensure the abdomen is soft (not contracting)
- Perform abdominal pulpation to enable accurate identification of the uterine fundus.



3. Secure tape with hand at top of fundus.

- Use the tape measure with the continuetres on the underside to reduce
- . Secure the tape measure at the fundus with one hand



4. Measure to top of symphysis pubis.

- . Measure from the top of the fundus to the top of the symphysis pubis
- . The tape measure should stay in contact with the skin

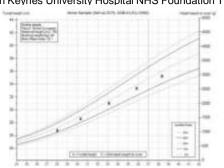


Measure along longitudinal axis of uterus, note metric measurement.

- Measure along the longitudinal asis without correcting to the abdominal midline
- Measure only once







. Necord the metric measurement and plot it on the growth chart.

Use GROW 2.0 to plot measurements unless there is an indication to use paper chart e.g., shared care with a different Trust.

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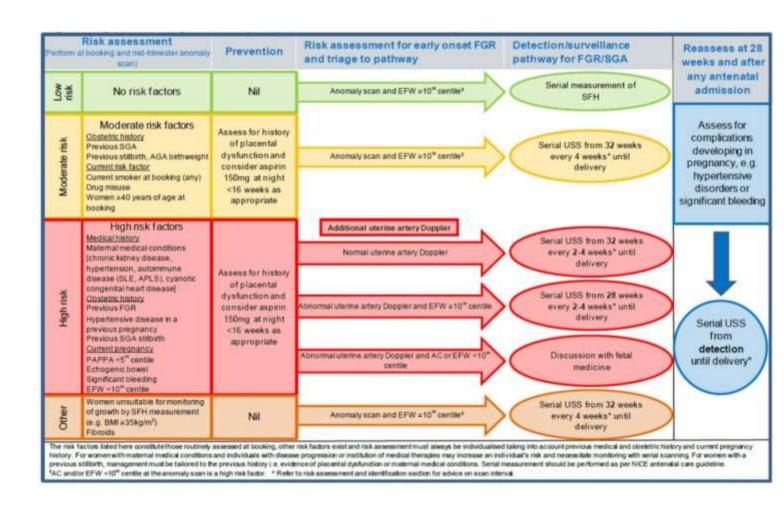


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Appendix 3: Algorithm for using uterine artery Doppler as a risk assessment tool for early-onset FGR

Please note:

- Smoker at booking (any) includes any kind of vaping
- Unsuitable for SFH scans 32, 36, 39
- Moderate risk scans 32, 36, 39
- High risk –28,32,36,39 (If uterine artery Doppler at 20-24 weeks normal, 28 weeks scan is not required)
- New pregnancy complications: from detection to delivery serial scans to include scan at 39 weeks







Appendix 4 – Link to resources in intranet

https://intranet.mkuh.nhs.uk/grow

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