



# Algorithm & SGA Risk Assessment Tool for New Zealand: Screening and assessment of fetal growth in singleton pregnancies

Adapted from NHS England stillbirth 'care bundle' and based on NZ MFM SGA Guideline

**Major Risk for SGA**




**Recommend specialist referral** 

**Consider low dose aspirin 100mg nocte** 









**Maternal Risk Factors**

- Maternal age >40 years
- Continued smoker after 16 weeks (>10/day)
- Recreational drugs

**Previous Pregnancy History**


- Previous SGA baby (<10<sup>th</sup> cust centile)  
- Previous stillbirth 

**Maternal Medical History**



- Chronic hypertension  
- Diabetes with vascular disease  
- Renal impairment  
- Anti-phospholipid syndrome  

**Current Pregnancy Complications**

**Early Pregnancy**


- PAPP-A <0.4 MoM (if MSS1 performed) 
- Heavy bleeding <20 weeks

**Late Pregnancy**

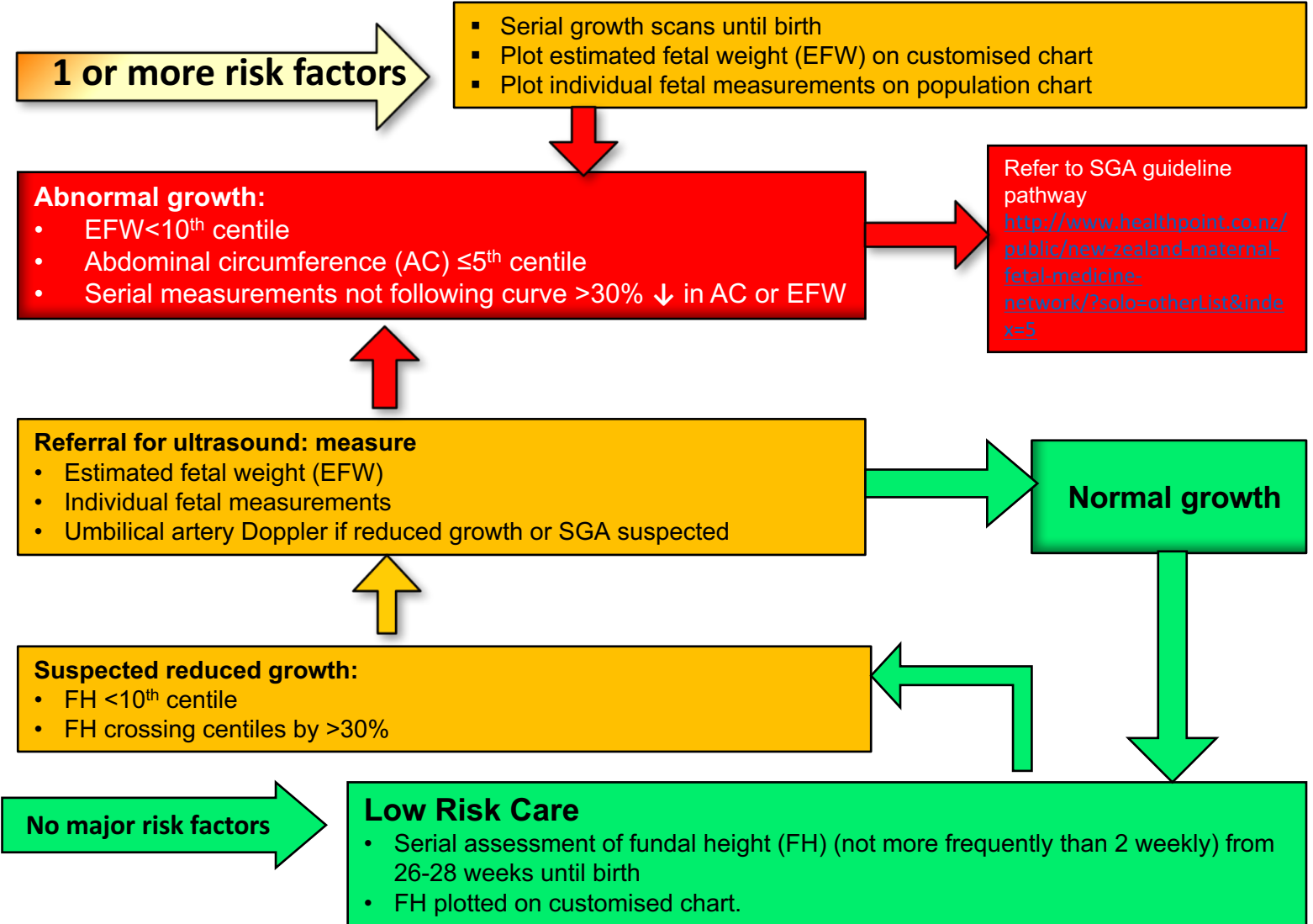
- Pre-eclampsia /severe gestational hypertension 
- Antepartum haemorrhage 

**Low Risk of SGA** No known major risk factors

**Fundal height measurement likely to be unreliable:-**

- Large fibroids
- BMI 35+ 

Third trimester scanning based on local guidelines and resources



# Suggested Schedule of Growth Scans Depending on Local Resources / Guidelines

<p><b>High risk early onset SGA*</b> e.g. severe medical, previous SGA birth &lt;34wk or stillbirth, ↓ PAPP-A</p>	<p><b>High risk late onset SGA *</b> e.g. previous SGA born ≥ 34 wk, mild chronic hypertension, age &gt;40</p>	<p><b>Moderate risk late onset SGA*</b> e.g. smoke &gt;10/day <b>or</b> FH measurement likely to be unreliable (BMI 35+, fibroids)</p>
<p><b>Monthly</b> growth scans from 24 weeks' to birth Consider uterine artery Doppler at 20 or 24wks</p>	<p><b>Monthly</b> growth scans from 28-30 weeks' to birth e.g. 30, 34, 38 weeks</p>	<p>Scan 30-32 &amp; 36-38 weeks'</p>



**SGA or poor interval growth**  
EFW < 10<sup>th</sup> centile  
Abdominal circumference (AC) ≤ 5<sup>th</sup> centile  
Serial measurements (AC or EFW) cross centiles by > 30%



**Fortnightly scans until birth. Plot individual measurements and estimated fetal weight (EFW) on customised chart.  
Manage as per NZMFM SGA Guideline**  
<http://www.healthpoint.co.nz/public/new-zealand-maternal-fetal-medicine-network/?solo=otherList&index=5>

\* Early onset SGA=SGA baby born <34 weeks, late onset SGA = SGA baby born ≥34 weeks