Fetal Growth Disorders - Small for Gestational Age (SGA); Fetal Growth Restriction (FGR); Suboptimal growth Full Clinical Guideline

Reference no.: UHDB/AN/02:22/S3

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This guideline does not address multiple pregnancies or pregnancies with fetal abnormalities.

1. Introduction

50–70% of SGA fetuses are constitutionally small, with fetal growth appropriate for maternal size and ethnicity.

Structurally normal SGA fetuses are at increased risk of perinatal mortality and morbidity but most preventable adverse outcomes are concentrated in the growth restricted group.

A systematic review concluded that in comparison to mild COVID-19 infection, severe COVID-19 infection is associated with a significant increase in risk of having a baby of low birth weight (OR 1.89). However, a histopathology study which examined placentas of women with asymptomatic or mild COVID-19 infection reported no differences in outcomes (including birth weight) compared to COVID-19 negative controls.

Ultrasound to assess fetal biometry and placental function for women who have been seriously or critically unwell from COVID-19 should be undertaken and this approach has been adopted internationally.

Guidance on fetal growth surveillance following COVID-19 was developed along with NHS England and NHS Improvement Saving Babies' Lives Care Bundle.

2. <u>Purpose and Outcomes</u>

The purpose of this guideline is to provide advice that is based on the best evidence where available in order to guide clinicians, regarding the investigation and management of the small-for-gestational age (SGA) fetus.

3. <u>Abbreviations</u>

AC	-	Abdominal Circumference
APH	-	Antepartum Haemorrhage
AREDV	-	Absent/Reversed End–Diastolic Velocities
BMI	-	Body Mass Index
CTG	-	Cardiotocograph
CMV	-	Congenital Cytomegalovirus
DV	-	Diastolic Velocities
ED	-	End Diastolic
EFW	-	Estimated Fetal Weight
FGR	-	Fetal Growth Restriction
FHR	-	Fetal Heart Rate
MCA	-	Middle Cerebral Artery
PI	-	Pulsatility Index
PAPP-A	-	Pregnancy Associated Plasma Protein-A
PIH	-	Pregnancy Induced Hypertension
SD	-	Standard Deviation
SFH	-	Symphysis Fundal Height
SGA	-	Small for Gestational Age
UA	-	Umbilical Artery
UV	-	Umbilical Vein
USS	-	Ultrasound scan

4. Key Responsibilities and Duties

- Identification of risk factors for SGA / FGR (CMW at booking)
- Risk assessment and defining risk as either high or moderate risk (senior obstetrician)
- Clear documentation of aimed care pathway based on level of risk (senior obstetrician)
- SFH low risk care pathway and escalation for low risk pregnancies

Staff managing fetal growth problems should appreciate that small for gestational age (SGA with EFW <10th centile) and Fetal growth restriction (FGR) where a fetus fails to reach its growth potential, are distinct entities. Although SGA babies are at increased risk of FGR compared to appropriately grown fetuses, fetuses <3rd centile are far more likely to be FGR than those between 3^{rd} -10th centile.

For growth surveillance in the presence of diabetes see Diabetes guidelines. For growth surveillance in case of twin pregnancies see multiple pregnancy guidelines.

5. <u>Definitions</u>

Fetal Growth disorder:	includes SGA; FGR and Suboptimal growth
SGA:	EFW/AC or birth weight <10 th centile
Suboptimal growth:	increase of EFW <280 gram over a period of 14 days
	(20 grams per day) from 34 weeks or AC/EFW crossing >20 percentiles (e.g. from 70 th centile to below the 50 th centile)
Fetal growth restriction	Pathological restriction of growth potential

Definition of FGR in a previous pregnancy as a risk factor:

defined as any of the following:

- Birthweight <3rd centile
- Early onset placental dysfunction necessitating birth <34 weeks
- Birthweight <10th centile with evidence of placental dysfunction as defined below for current pregnancy

Definition of FGR in a current pregnancy:

Early FGR: Gestational age <32 weeks, in	Late FGR: Gestational age ≥32 weeks, in
absence of congenital anomalies	absence of congenital anomalies
AC/EFW <3 rd centile or UA-AEDF	AC/EFW <3 rd centile
OR	Or at least two out of three of the following:
AC/EFW <10 th centile with either:	1. AC/EFW <10 th centile
1. UtA-PI >95 th centile and/or	 AC/EFW crossing centiles >2 quartiles on growth centiles (e.g. from 70th centile to below 20th centile)
2. UA-PI >95 th centile	3. MCA/CPR <5 th centile or UA-PI >95 th centile

6. <u>Small for Gestational Age Risk Assessment</u>

Although risk assessment needs to be clearly documented at booking for all women, risk factors may become apparent at a later stage and will trigger consultant review of fetal growth surveillance.

It is recommended that women who have been seriously or critically unwell due to confirmed COVID19, requiring hospitalisation:

- 1. For those discharged prior to their anomaly scan:
 - a. To have their FASP continued as planned
 - b. To have CLC throughout pregnancy (aim for ANC appointment combined with dating scan or anomaly scan)
 - c. To have serial growth scans as per high risk pathway
- 2. For those discharged after their anomaly scan:
 - a. To have a scan 2 weeks following resolution of their acute illness with review in ANC
 - b. To have CLC throughout pregnancy
 - c. To have serial growth scans as per high risk pathway

6.1 Initial booking

At booking by community midwife:

- Risk assessment to be completed for all women (see AN Care guideline)
 - <u>SGA low risk</u>: fetal growth surveillance by SFH measurements as per AN care guidelines
 - <u>SGA at risk</u>: consultant booking by 16 weeks for fetal growth surveillance management plan and aspirin risk assessment
 - <u>Factors identified that may affect SFH accuracy (e.g. BMI ≥35, h/o fibroids)</u>: consultant booking for fetal growth surveillance management plan (latest by 24 weeks in the absence of other risk factors)
- promote smoking cessation if applicable as per smoking cessation guideline

6.2 Consultant booking

At consultant booking:

- Review risk factors
- Define risk group as high risk or moderate risk
- Clearly document fetal growth surveillance management plan: Low (SFH only); Intermediate (moderate risk/risk of late onset FGR); Intensive (high risk/risk of early onset FGR)

- SFH is required only until the first growth scan is commenced as per this guideline with minimal of 3 growth scans in 3rd trimester planned. If less scans booked for other reasons, clearly document that SFH will be required to monitor fetal growth.
- Book first scan only (prevent block booking ahead)
- Assess pre-eclampsia risk and advise/prescribe Aspirin 150mg (OD at night, 12-36 weeks) if applicable and not contraindicated

For growth surveillance in the presence of diabetes see Diabetes guidelines. For growth surveillance in case of twin pregnancies see multiple pregnancy guidelines.

6.2.1 High risk

Pregnancies complicated by the following risk factors should be considered for an intensive fetal growth monitoring pathway (high risk/risk for early onset FGR):

- Maternal medical conditions (chronic kidney disease, chronic hypertension, autoimmune disease (SLE, APLS), cyanotic congenital heart disease, solid tissue transplant, connective tissue disease)
- Previous FGR (see definitions)
- Previous severe early onset pre-eclampsia prior to 34 weeks
- Previous SGA stillbirth
- Low Papp-A <1st centile (0.2 MOM)
- Echogenic bowel on anomaly scan
- Two vessel cord
- EFW < 10th centile on anomaly scan
- Heavy bleeding 1st trimester or placental haematoma on USS
- Seriously or critically unwell due to confirmed COVID19, requiring hospitalisation, during current pregnancy

6.2.2 Moderate risk inclusive of factors affecting SFH accuracy only

Pregnancies <u>to be considered</u> for an intermediate fetal growth monitoring pathway (moderate risk/risk of late onset FGR):

- SGA risk (cumulative risk as per risk assessment tool 3 or more) but NOT considered for high risk pathway
- Low Papp-A ≥1st centile
- Factors identified that may affect SFH accuracy but NOT considered for high risk pathway
- Growth concerns in previous pregnancy necessitating delivery, especially prior to 39 weeks (e.g. FGR as per definition above but EFW/birth weight >10th centile)

7. Intermediate fetal growth monitoring pathway

Fetal growth monitoring:

- Aim for 3 growth scans in the 3rd trimester at 30, 34 and 38 weeks gestational age
- Aim for scans to be a minimum of 3 weeks apart if there are no concerns to minimise false positive rates for diagnosing FGR
- If a scan is considered less than 3 weeks following a growth scan, a consultant opinion is warranted

8. <u>Intensive fetal growth monitoring pathway</u>

Fetal growth monitoring:

- Aim to commence growth scans at 26-28 weeks
- Aim to scan every 3-4 weeks until delivery
- Aim for scans to be a minimum of 3 weeks apart if there are no concerns to minimise false positive rates for diagnosing FGR
- If a scan is considered less than 3 weeks following a growth scan, a consultant opinion is warranted

9. Reduced growth velocity

A diagnosis of suboptimal growth (see definitions) should prompt a repeat ultrasound for biometry in 2 weeks but should not be used in isolation to make decisions regarding birth.

Suspected fetal growth restriction:

The following should be managed as suspected fetal growth restriction until a further assessment of growth can be made:

- Static growth, defined as minimal change in fetal biometry over at least two weeks
- A drop in growth velocity (EFW or AC) of more than 2 quartiles or more than 50 percentiles (see definitions)

10. Fetal growth surveillance ultrasound scans

Fetal growth surveillance scan should consist of:

- Biometry
- UAD (measuring PI)
- Liquor volume with deepest vertical pool (DVP)

In the event clinical signs raise concern but serial USS confirms linear growth on 2 or more occasions refer for medical review

11. Referral to FMMC

Refer to FMMC if:

- Raised PI in presence of fetal growth disorder
- Biometric value or EFW on ultrasound <3rd centile including at FASP anomaly scan
- In case of FGR <34 weeks

12. Investigations in Fetal Medicine department

Investigations as part of the Fetal Medicine consultation to be considered:

- Karyotyping
- Serological screening for congenital cytomegalovirus (CMV) and toxoplasmosis
- Uterine Artery Doppler

13. Growth restriction identified in pregnancy

- When a fetal growth disorder is suspected or diagnosed an assessment of fetal wellbeing should be made to include a discussion regarding fetal movements and a cCTG where there are any concerns. A maternal assessment should be made to include a blood pressure and proteinuria assessment
- For investigations, surveillance and management plan and the optimal gestation for delivery in pregnancies with identified growth restriction follow flow chart Appendix B.
- Any CTG carried out for growth restriction or reduced fetal movement during pregnancy should be reviewed by a senior obstetrician (SpR 3-7 or higher).
- In case of fetal growth disorder, women in spontaneous labour should be counselled for early admission in labour ward for continuous FHR monitoring

14. Mode and timing of Delivery

See appendix B for pregnancies where fetal growth restriction is identified. For other growth disorders follow the links below.

<u>Click here for IOL guideline</u> <u>Click here for Fetal monitoring in labour guideline</u>

15. Dual Processes during phasing out of CRIS / Implementing Viewpoint

Viewpoint will be implemented on the 24th of July 2023. Pregnancies where serial growth scans have commenced prior to this date need to remain on the CRIS reporting system for the remainder of the pregnancy. See in red specific guidance.

16. Monitoring Compliance and Effectiveness

Audits and Risk Management Meetings.

17. <u>References</u>

RCOG Green-top Guideline 31: The investigation and Management of the Small-for-Gestational-Age Fetus, Royal College of Obstetricians and Gynaecologists, 2013 (and peer reviewed document 2022)

Knight M, Tuffnell D, Kenyon S, Shakespeare J, Gray R, Kurinczuk JJ (Eds.) on behalf of MBRRACE-UK. Saving Lives, Improving Mothers' Care - Surveillance of maternal deaths in the UK 2011-13 and lessons learned to inform maternity care from the UK and Ireland Confidential Enquiries into Maternal Deaths and Morbidity 2009-13. Oxford: National Perinatal Epidemiology Unit, University of Oxford 2015

Dan O'Connor et all. for NHS England, 2019; Saving Babies' Lives. A care bundle for reducing stillbirth. Version 2. NHS England.

NHS England and NHS Improvement; Saving Babies' lives care bundle version 3 June 2023

SGA Risk as	ssessment (as per SGA guideline)						
Parity	Nulliparity	1					
	Pregnancy interval > 10 years	1					
	Pregnancy interval < 6 months	1					
Age	$\leq 16 \text{ years}$						
	>35 years	1					
	≥40 years	3					
BMI	<18	1					
Lifestyle	Smoking	3					
	Extreme exercise regime / eating disorders	3					
	Substance or alcohol abuse	3					
Medical	Diabetes	3					
history	Chronic hypertension	3					
	Renal impairment						
	Autoimmune disorder (Antiphospholipid syndrome, SLE, ALS), thrombophilia						
	Solid tissue transplant						
	Cyanotic congenital heart disease	3					
	Connective tissue disease	3					
Previous	Pre-eclampsia	1					
obstetric	Severe, early onset pre-eclampsia prior to 34 weeks	3					
	Previous stillbirth	3					
	Previous SGA baby <10 th centile / IUGR	3					
	Recurrent miscarriage (3 consecutive medically confirmed < 16 weeks or any \ge 16 weeks)	3					
	Placental abruption	1					
Current	Mild PET <30 weeks (normal blood results, asymptomatic, no fetal concerns)	1					
obstetric	Severe PIH or Pre-eclampsia	3					
	PAPP-A <0.4 MOM in 1 st trimester	3					
	Fetal echogenic bowel or 2-vessel cord	3					
	Heavy bleeding 1st trimester, unexplained APH or placental haematoma on US	3					
Total	SGA cumulative risk						

CLC booking for fetal growth surveillance management plan if:

- SGA cumulative risk \geq 3
- Factors identified that may affect SFH accuracy (e.g. BMI ≥ 35, h/o fibroids)



Appendix C

	Intergrov	vth - Boy	Intergrowth - Girl		
	3rd	10th	3rd	10th	
35	1700	1950	1710	1920	
35+1	1740	1990	1740	1960	
35+2	1770	2020	1770	1990	
35+3	1800	2050	1800	2020	
35+4	1830	2090	1830	2050	
35+5	1870	2120	1860	2080	
35+6	1900	2150	1890	2110	
36	1930	2180	1920	2140	
36+1	1960	2210	1950	2170	
36+2	1990	2240	1980	2200	
36+3	2020	2270	2000	2230	
36+4	2050	2300	2030	2250	
36+5	2080	2330	2060	2280	
36+6	2110	2360	2080	2310	
37	2130	2380	2110	2330	
37+1	2160	2410	2140	2360	
37+2	2190	2440	2160	2380	
37+3	2220	2470	2180	2410	
37+4	2240	2490	2210	2430	
37+5	2270	2520	2230	2460	
37+6	2290	2540	2250	2480	
38	2320	2570	2280	2500	
38+1	2340	2590	2300	2530	
38+2	2370	2620	2320	2550	
38+3	2390	2640	2340	2570	
38+4	2420	2670	2360	2590	
38+5	2440	2690	2380	2610	
38+6	2460	2710	2400	2630	

39	2490	2730	2420	2650
39+1	2510	2760	2440	2670
39+2	2530	2780	2460	2690
39+3	2550	2800	2480	2710
39+4	2570	2820	2500	2730
39+5	2590	2840	2510	2740
39+6	2610	2860	2530	2760
40	2630	2880	2550	2780
40+1	2650	2900	2560	2800
40+2	2670	2920	2580	2810
40+3	2690	2940	2600	2830
40+4	2710	2960	2610	2840
40+5	2730	2980	2630	2860
40+6	2750	2990	2640	2870
41	2760	3010	2650	2890
41+1	2780	3030	2670	2900
41+2	2800	3050	2680	2910
41+3	2820	3060	2690	2930
41+4	2830	3080	2710	2940
41+5	2850	3090	2720	2950
41+6	2860	3110	2730	2960
42	2880	3120	2740	2980

Appendix D Overview of different growth disorders and levels of risk

Intermediate fetal growth monitoring pathway	Intensive fetal growth monitoring pathway
Risk factor	s for consideration
 SGA risk (cumulative risk as per risk assessment tool 3 or more) but NOT considered for high risk pathway Factors identified that may affect SFH accuracy but NOT considered for high risk pathway Growth concerns in previous pregnancy necessitating delivery, especially prior to 39 weeks, with FGR as per definition in current pregnancy even if EFW/birth weight >10th centile 	 Maternal medical conditions (chronic kidney disease, chronic hypertension, autoimmune disease (SLE, APLS), cyanotic congenital heart disease, solid tissue transplant, connective tissue disease) Previous FGR (see definitions) Previous severe early onset pre-eclampsia prior to 34 weeks Previous SGA stillbirth Low Papp-A <1st centile (0.2 MOM) Echogenic bowel on anomaly scan Two vessel cord EFW < 10th centile on anomaly scan Heavy bleeding 1st trimester or placental haematoma on USS Seriously or critically unwell due to confirmed COVID19, requiring hospitalisation, during current pregnancy
Care pa	thway guidance
 Aim for 3 growth scans in the 3rd trimester at 30, 34 and 38 weeks gestational age 	 Aim to commence growth scans at 26- 28 weeks Aim to scan every 3-4 weeks until delivery
 Aim for scans to be a minimum minimise false positive rates for one of the scan is considered less than opinion is warranted 	of 3 weeks apart if there are no concerns to diagnosing FGR 3 weeks following a growth scan, a consultant
Reduced	I growth velocity
 A drop in growth velocity (EFW prompt a repeat ultrasound scar use WHO centiles tables. Dro approximate growth of 280 grams 34 weeks gestation. 	/ or AC) of more than 20 percentiles should n for biometry in 2 weeks. For those on CRIS, p of EFW of 20 centiles is comparable to s over 14 days (20 gram per day average) from
To manage as suspected fetal g	rowth restriction until further assessment made
 A drop in growth velocity (EFW percentiles); check full definitions Static growth, defined as minim weeks 	or AC) of more than 2 quartiles (more than 50 for FGR al change in fetal biometry over at least two
Case discussion with / referral	to retai waternal wedicine Centre team

- Raised PI in presence of fetal growth disorder
- Biometric value or EFW on ultrasound <3rd centile including at FASP anomaly scan
- In case of FGR <34 weeks

Gestational Age (Weeks)	Abdominal Circumference (mm) by Percentile								
	2.5	5	10	25	50	75	90	95	97.5
14	69	71	73	77	81	86	89	92	95
15	79	81	83	87	92	96	100	103	106
16	89	91	93	98	103	108	112	115	118
17	99	102	104	109	114	119	124	127	130
18	110	113	116	121	126	131	136	139	142
19	121	124	127	132	138	143	148	152	155
20	132	136	139	144	150	155	161	164	167
21	143	147	150	156	162	168	173	177	180
22	154	159	162	167	173	180	186	189	193
23	165	170	173	179	185	192	198	202	205
24	176	181	184	190	197	203	210	214	217
25	186	191	195	201	208	215	222	226	229
26	196	201	205	212	219	226	233	238	241
27	206	211	215	222	230	237	245	249	253
28	215	220	225	232	240	248	256	260	264
29	224	229	234	242	250	258	266	271	276
30	233	238	243	251	260	269	277	282	287
31	241	246	252	260	269	279	287	292	298
32	249	254	260	269	279	288	298	303	308
33	257	262	269	278	288	298	308	313	319
34	265	270	277	287	298	308	318	324	330
35	273	279	286	297	307	318	329	335	342
36	282	287	294	306	317	329	340	346	353
37	290	296	304	316	328	340	352	358	365
38	299	306	313	326	338	351	364	371	378
39	309	316	324	337	350	363	377	384	392
40	319	327	335	349	363	377	391	399	406

Appendix E WHO centile charts

doi:10.1371/journal.pmed.1002220.t008

Gestational Age (Weeks)	Estimated Fetal Weight (g) by Percentile									
	2.5	5	10	25	50	75	90	95	97.5	
14	70	73	78	83	90	98	104	109	113	
15	89	93	99	106	114	124	132	138	144	
16	113	117	124	133	144	155	166	174	181	
17	141	146	155	166	179	193	207	217	225	
18	174	181	192	206	222	239	255	268	278	
19	214	223	235	252	272	292	313	328	340	
20	260	271	286	307	330	355	380	399	413	
21	314	327	345	370	398	428	458	481	497	
22	375	392	412	443	476	512	548	575	595	
23	445	465	489	525	565	608	650	682	705	
24	523	548	576	618	665	715	765	803	830	
25	611	641	673	723	778	836	894	938	970	
26	707	743	780	838	902	971	1,038	1,087	1,125	
27	813	855	898	964	1,039	1,118	1,196	1,251	1,295	
28	929	977	1,026	1,102	1,189	1,279	1,368	1,429	1,481	
29	1,053	1,108	1,165	1,251	1,350	1,453	1,554	1,622	1,682	
30	1,185	1,247	1,313	1,410	1,523	1,640	1,753	1,828	1,897	
31	1,326	1,394	1,470	1,579	1,707	1,838	1,964	2,046	2,126	
32	1,473	1,548	1,635	1,757	1,901	2,047	2,187	2,276	2,367	
33	1,626	1,708	1,807	1,942	2,103	2,266	2,419	2,516	2,619	
34	1,785	1,872	1,985	2,134	2,312	2,492	2,659	2,764	2,880	
35	1,948	2,038	2,167	2,330	2,527	2,723	2,904	3,018	3,148	
36	2,113	2,205	2,352	2,531	2,745	2,959	3,153	3,277	3,422	
37	2,280	2,372	2,537	2,733	2,966	3,195	3,403	3,538	3,697	
38	2,446	2,536	2,723	2,935	3,186	3,432	3,652	3,799	3,973	
39	2,612	2,696	2,905	3,135	3,403	3,664	3,897	4,058	4,247	
40	2,775	2,849	3,084	3,333	3,617	3,892	4,135	4,312	4,515	

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Documentation Control

Reference Number:		Status: FINAL	Version: 4.3
UHDB/AN/02	:22/53	Author	Rosson / amondmonto
1	Sont		Now
1	2004	Di J Ashwolth Consultant Obstatrician	INEW
2	2004 Juno 201	6 Dr. I Ashworth	Poviow
2	June 201	Consultant Obstetrician	I/eview
		Dr M Khurshid	
		Miss S Raouf – Consultant	
		Obstetrician	
3	Oct 2018	Guidelines group – obstetric	Early review following audit and QI
		consultants	
3.1	Jan 2019	C Meijer	Added new assessment tool as appendix
3.2	April 202	UHDB Maternity	COVID19 Pandemic deviated guidance
3.3	October	UHDB Maternity	Increase of scans in third trimester from 2
	2020		to 3
3.4	Jan 2021	UHDB Maternity	Aligned with UHDB maternity records and
			new electronic booking forms that are now
2.4.4			aligned.
3.4.1	April 202		site specificity
4	lan 2022	LIHDB Maternity	COVID amendment with guidance for
-	5411 2022	of IDD Materinity	growth scans and extending guidance
			related to time of delivery
4.1	Novembe	r Cindy Meijer – Lead	Removed two-tiered smoking risk; all
	2022	midwife guidelines and	smoking in pregnancy considered at risk
		audit	
4.2	May 2023	B Miss S Dixit	Added to consider serial growth if growth
		Consultant Obstetrician	concerns in previous pregnancy
			necessitating delivery prior to 39 weeks.
			Terminology consistent with national
		Miss S Raout – ACD	guidance. Extended for full review by 12
			months in View of expected RCOG
			Added EEW at anomaly apon
13	luly	Cindy Majiar - PM: MPas	& amonded for implementation of
4.5	July		Viewpoint
4.4	August	Cindy Meijer- RM: MRes	Added clear guidance during interim
	2023		period of implementation of Viewpoint
			when there is a Dual Process in place
			when phasing out CRIS for reporting
4.5	June 202	4 Joanna Harrison-Engwell -	Amendment to sentence re SFH to be
		Lead midwife for guidelines	completed on all women until first growth
		and audit	scan.
Intended Re	cipients: A	Il staff caring for pregnant women	1
Training and	Dissemin	ation:	- lettere etc
	ougn senic	or midwives/doctors; Published or	n Intranet;
I o be read in	n conjunct	ION WITH:	
Consultation	with:	ACD and guidelines group	
Business Uni	t sign off:	02/05/2023: V4.2	
		07/07/2023: V4.3 Maternitv Gui	delines Group: Miss S Rajendran –

			Chair
	19/06/2023: V4.2		
	10/07/2023: V4.3 Maternity Goverr	nance Committee	
Notification Overview se	ent to TIER 3		
Divisional Quality Gove	rnance Operations & Performance:	V4.2: 20/06/2023	
		V4.3: 18/07/2023	
V4.4 exceptional sign off r V4.5 exceptional ratifica	ny CD R Devraj, HOM N Stringer; DD S ation all levels - 08/05/2024	5 Whale	
Implementation date:	V4.5 19/07/2024		
Review Date:	July 2024		
Key Contact:	Joanna Harrison-Engwell		