no.	Issue	Detail /Rationale	Action:	Outcome:	Accountability:	How are they	Date for "deep	Date to be
			What are we going to do about this?		Who is responsible?	reporting back?		completed
				to see?				
	1. Miscellaneous Action							-
1.1	Local data and knowledge	Ascertain the main causes of infant death in LLR	Gather information via:	A better evidenced-based understanding of local causes of infant deaths	Lisa Hydes, Julia Austin, Rob Howard and Lucy Smith	Cross-reference data and report back in Nov 16	Nov-16	Review regularly
			 CDOP Annual Report CDOP cumulative report 2009-14 MBRRACE-UK data & report (due May 2016) UHL/NHS Perinatal Mortality Review report (due May 2016) Data can be cross-referenced with the results of the Health & Wellbeing Survey and data from ASH Use data on ethnicity collected by the Perinatal Mortality Review Group (stillbirths) to identify themes Use information recorded by CDOP low birth weight and infant deaths to identify key groups CDOP record smoking in pregnancy as part of the review and this information could be audited CDOP record known domestic violence, and this could be crossed referenced with other factors they collect (such as 					
1.2	Learning from others	Research actions taken in areas that have reduced infant mortality	birth weight) to create a local picture Gain insight from peer comparator areas that have significantly reduced infant mortality rates (e.g. Barking and Dagenham)	A better evidenced-based understanding of actions that will reduce infant mortality and stillbirth	Infant Mortality Steering Group (IMSG) –	each member to share information at IMSG meetings	t	Ongoing
1.3	Review of previously identified actions	Review National Strategy Team recommendations (2010)	Undertake a full audit against all the NST recommendations	Report back to Infant Mortality Strategy Group	Clare Mills, Public Health		Nov-16	Nov-16
	2. Maternal characteris	tics & risk factors						
2.1	All risk factors	See below	Create a calendar of events to highlight key issues	Raising awareness of what parents can to reduce the risk of infant mortality and stillbirth	Infant Mortality Steering Group	update/planning at each IMSG meeting		Review Quarterly
2.2	Maternal age	Mothers under 20 are 1.4 times more likely and mothers over 40 are 1.7 times more likely to have a stillbirth. Mums under 20 are 4 times more likely to have a SIDS compared to the over 20's The teenage conception rate in Leicester has significantly reduced from a baseline in 1998 of 64.6 per 1,000 to in 29.7 in 2013. Reducing under-18 conceptions would decrease the infant mortality gap by 1%	Work with and commission partners and schools to create tailored Relationships & Sex Education (RSE) packages that meet the needs of individual schools and children across LLR	Young people making positive health choices about their own sexual health and relationships	Liz Rodrigo, Clare Mills, Public Health and partners		Feb-17	Feb-17

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		Looked-after teenage girls are 2.5 times more likely to become pregnant than other teenagers	Have a particular focus on meeting the needs of LAC children	As above	твс		Feb-17	Feb-17
2.3	Maternal ethnicity	Mothers of Black ethnic origin are more than twice as likely and mothers of Asian ethnic origin are 1.5 times more likely to have a Stillbirth	Raise staff awareness across partner organisations and flag as a potential vulnerability. Staff to be made particularly aware of accumulating risk factors		All partners		accumulating risk factors 01/02/2018	on going
		Mothers from the Asian or Asian British ethnic groups are reported to have	Target support and services appropriately (Staff to be made aware of accumulating risk factors)		All Partners	ny avcantion	accumulating risk factors 01/02/2018	on going
			Introduction of GROW protocol at UHL to identify small babies by personalised growth charts		UHL; training and roll-out	update Nov 16, and then by exception		Training to begin Sep 2016
2.4	Maternal smoking	Smoking in pregnancy doubles the risk of stillbirth and is a significant risk factor for SIDS	Contract mandatory delivery of brief intervention training and referral of smokers into NHS Stop Smoking Services for new HCP	More babies born to non- smoking mothers	Public Health	by exception	May-17	on going
		NICE recommends that prospective parents are advised prior to pregnancy and that smokers are identified as early as possible by midwives and referred to specialist stop smoking services.	Record the smoking status of each pregnant woman	Increase in the number of women with Smoking status recorded	Health Visitors and Midwives.	by exception	May-17	Ongoing
		reduce the incidence of stillining and early	Continue to record the Carbon Monoxide (CO) reading for pregnant woman who smoke – with a view to a gold standard of recording readings for <u>all</u> pregnant women	CO reading being taken	UHL.	by exception	May-17	Ongoing
		both the national rate and our peer comparator	Ensure new mums know about and have the opportunity to be referred to STOP Smoking Service (opt out) at 28-36 week HV visit	Referrals being made to STOP at 28 weeks.	Clare Mills, HCP provider, STOP	by exception	May-17	Ongoing
		local authorities. However, large variations exist across LLR.	Create a robust referral system from the point of discharge		STOP, Midwifery	by exception	May-17	Ongoing
2.5	Second-hand smoke (passive smoking)	'Passive Smoking and Children' report concluded that; maternal smoking after birth was associated with a three-fold increased risk of sudden unexpected death in infancy and that having one or more smokers living in the household more than doubled the risk of sudden unexpected death in infancy.	Increase the number of parents being given advice on protecting their baby from second-hand smoke (SHS)	More babies born and living in smoke free homes	a)Maternity Care Assistants and Maternity Support Workers at health visit	by exception	May-17	Ongoing

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				to see?		Shorting addit		
			Provide training/guidance to all appropriate staff in partner organisations to enable them to advise prospective parents and parents on the risks of SHS to their baby or unborn child. Link to NICE guidance 48.	Training sessions delivered to all relevant staff. Staff feeling confident and competent at discussing second-hand smoke with parents	b) STOP (Karen House and Louise Ross) & Rod Moore UHL	by exception	May-17	Dec-16
			Ensure that all parents are given advice on protecting their baby or unborn child from SHS at each maternity visit, post- natally (in line with requirements of HCP spec) and during episodes of treatment at UHL Children's Hospital (in line with PH48 Recommendation 5)	Second-hand smoke advice given and recorded on paperwork. returns of Step Right Out sign ups (as appropriate)	c)Midwives (and MCAs/MSWs) STOP	by exception	May-17	Ongoing
2.6	Maternal obesity	Women with a pregnancy BMI >35 increase the risk of stillbirth	Provide information and advice about healthy eating in "Bumps to Babies"	Women receive advice on health eating in pregnancy as per PH guidance		by exception via Assurance and Development Group		Ongoing
		Reducing the prevalence of obesity would decrease the infant mortality gap by 2.8%	Look at data and costings to continue and possibly expand Maternal Obesity clinics for women (currently women with 40+BMI are seen at UHL)	Women are supported to have a healthy pregnancy	Undertake a health needs Assessment (Ben Rush, LeicestershireCC)	Update at each meeting	May-17	May-17
		In 2010/11, 25% of pregnant women in Leicester were recorded as overweight and 19% as obese (higher than the national rate of 15.6%)	Map what is currently happening via PH funding (and audit against NICE Guidance PH27)	Identification of gaps and planning for future services	Undertake a health needs Assessment (Ben Rush, LeicestershireCC)	Update at each meeting	May-17	May-17
2.7		NICE recommends that prospective parents are advised prior to pregnancy that influenza in pregnancy is a risk factor for stillbirth	All Health Visitors and Midwives to check immunisations and refer to GP as required	All mothers fully vaccinated as appropriate	GPs Midwifery HCP Provider	by exception		Embedded and Ongoing
			Increase uptake of flu vaccination by frontline staff		Dave Giffard to investigate CQUINS			
2.8	Nutritional status, such as folic acid supplements	Folic acid intake can increase the chances of having a healthy baby. NICE recommends that prospective parents are advised prior to pregnancy and provide guidance for vitamin D and folic acid supplements	All Health Visitors, Midwives and Children Young People and Families (CYPF) Centre staff to promote use of appropriate nutrition, supplements and healthy diet throughout pregnancy at all contacts	All mothers eating well and taking the right supplements during pregnancy	HCP Provider Midwifery	by exception		Ongoing
			Revisit Vitamin D and Healthy Start Vitamins	1	Clare Mills and Jane Roberts	report at each meeting		Aug-17
2.9	Domestic violence	Domestic violence is associated with increases in rates of miscarriage, low birth weight, premature birth, foetal injury and foetal death	All relevant professionals to be confident to have discussions about domestic abuse and protecting children. [Achieved by core mandatory training and HV care plans]	More mothers and babies living free from domestic abuse	CYPF Centre staff, Midwifery and Health Visiting	by exception	Aug-17	Ongoing

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				to see?				
		NICE recommends social care support – to identify and support women with complex social factors, including vulnerable parents, children in need and those at heightened risk of domestic violence	b)All professionals able to give relevant advice and to identify accumulating risk factors			by exception	Aug-17	Ongoing
2.10	Poor mental health	Poor mental health of either, or both parents has been found to be a compounding characteristic in cases of sudden unexplained infant deaths	All relevant professionals to be confident to have discussions about mental health and emotional wellbeing	More parents of babies managing their mental health well	Health Visiting and Midwifery	by exception	Aug-17	Ongoing
			All professionals able to give relevant advice and to identify accumulating risk factors			by exception	Aug-17	Ongoing
2.11	Substance misuse	NICE recommends that prospective	All relevant professionals to be confident to have discussions about substance misuse and protecting children	More parents of babies living free from substance misuse	Health Visiting and Midwifery	by exception	Aug-17	, Embedded and Ongoing
			All professionals able to give relevant advice and to identify accumulating risk factors and act as appropriate Specialist Midwife in post			by exception	Aug-17	Embedded and Ongoing
2.12	Parents who have difficulty reading or speaking english	NICE Guidance (2010) highlights complex social factors that may adversely impact on pregnancy outcomes and increase the risk of infant/maternal death	Identify accumulating risk factors and put support in place to help parents		All partners	by exception	accumulating risk factors 01/02/2018	Ongoing
			b)CDOP to work with Local Safeguarding Children's Board on access to emergency services		Lisa Hydes	by exception	accumulating risk factors 01/02/2018	Complete by June 2017
			Promote use of Lullaby Trust downloadable material in 20 languages		All partners	by exception	accumulating risk factors 01/02/2018	Ongoing
2.13	Preparation for parenthood		Evaluate the current local offer "Bumps to Babies" programme and implement recommendations to the programme.	Increased parenting confidence and capacity	Children, Young People & Family Centres			Ongoing
		Breastfeeding rate			HCP provider			
		 Healthy behaviours Contact with services Support for anxiety and depression Satisfaction with birth 	Follow-up people who have used Bumps to Babies (journey mapping)		Liz Mair			Jun-18
	3. Factors related to th	This should be provided in the community, as close as possible to the family home. Pregnant women with health, emotional or social needs should be referred to specialist care.	Increased number of parents attending "Bumps to Babies", and identify vulnerable mothers who don't attend, and target them. Working Group to be reconvened; link to Early Help.		Julia Pilsbury/Clare Mills	Update November 16	Feb-17	on going

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3.1	Breastfeeding	Increasing the rate of breastfeeding initiation and prevalence in the Routine and Manual group would reduce the infant mortality gap by 4%	Please see Infant Feeding Strategy for actions	to see? Increased number of mothers initiating breastfeeding, and more mothers breastfeeding for longer	Clare Mills on behalf of Infant Feeding Strategy Group and Infant Feeding Network	by exception		Infant Feeding Strategy consultation to be launched by July 2016
		Breastfeeding rates in Leicester are significantly higher with levels consistently above national averages, particularly at 6-8 weeks, although there are areas that are lower than the average – particularly in deprived areas	Health Visitors ensure mothers are fully supported to breastfeed for as long as they chose, and that information about support is made available to mothers.		HCP provider	by exception		Ongoing
			Bumps to Babies, session 3, covers infant feeding and the value of breastfeeding		HCP provider	by exception		Ongoing
			NCT's Breastfeeding Peer Support service is able to provide volunteers on UHL wards		NCT, midwifery			Ongoing
3.2	Safer sleep	Targeted interventions to prevent Sudden Infant Death Syndrome (SIDS) would decrease the gap by 1.4%	help spread the message about the risks of bed sharing and consider developing a concerted campaign around preventing	More babies sleeping safely because key Public Health messages are delivered, encouraging early access to provision of formal services	CONI leads	by exception		Ongoing
			b)Support development of LLR wide Baby Box project, that includes Lullaby Trust safer sleep and Little Lullaby leaflets to ensure safer sleep messages are delivered to younger parents	and promoting attachment and emotional wellbeing	b)Voluntary Action Leicestershire Public Health	update from VAL/Untapped me as required		
			Health Visitors to support breastfeeding at night, including an open discussion around safer sleeping practices		HCP Provider	by exception		Ongoing
			UHL including safer sleep in the mandatory training for all midwives		UHL	by exception		Ongoing
3.3		(Evidence provided under each characteristic or risk factor heading)	Look at adapt Rotherham card "Child at risk of SIDS" for use by professionals	Professionals being aware, identifying and guarding against the accumulation of risk factors		by exception	accumulating risk factors 01/02/2018	
			Provide training to Paediatric Liaison Staff to raise awareness of characteristics and risk factors		UHL CONI coordinator	by excpetion	accumulating risk factors 01/02/2018	Ongoing
			Adapt current Paediatric Liaison referral form adding a box entitled "vulnerable families"		UHL CONI coordinator	by exception	accumulating risk factors 01/02/2018	Ongoing
			Identifying and guarding against accumulation of risk factors			by exception	accumulating risk factors 01/02/2018	

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3.4	Poverty and deprivation	Low socioeconomic status of mother is a risk factor for still birth Improving maternal educational attainment reduces the risk of infant mortality Reducing child poverty would reduce the infant mortality gap by 3%	Create more targeted and tailor interventions	More parents supported to reduce the risk of SIDS in their family environment	Infant Mortality Strategy Group		accumulating risk factors 01/02/2018	Ongoing
3.5	Housing and overcrowding	Improving housing conditions and reducing overcrowding would reduce the infant mortality gap by 1.4%	No action identified at this date	n/a	n/a		Nov-17	n/a
	4. Other factors relating	to preconception care, pregnancy and deli	very				I	
4.1	Early booking for antenatal care	In Leicester, the proportion of women booking before 12 weeks is significantly lower than the national average (Quarter2, 2014/15)	No action identified at this date	n/a	n/a			n/a
4.2	Screening for infections and congenital anomalies	NICE Pre-existing familial conditions - genetic counselling, screening and support if needed	Develop a strategic delivery model for screening that ensures services are commissioned, contracted, performance managed and governed for health outcomes.					
			Ensure that sonographers are recruited, trained and supported to implement the first trimester combined screening for Down's screening (National Support Team 2010)					
	5. Important issues whi	ch are relevant to the IM Strategy, and are	discussed at IMSG, but are core business for partners and report	ted to other forums (e.g. CCG o	or CQC)			
5.1	Foetal growth restriction	-	Identify the local approach to antenatal detection of foetal growth restriction	Reduced number of stillbirth and neonatal deaths of SGA babies	Midwifery	update Feb 27		
		risk assessment and surveillance for foetal growth restriction would reduce the incidence of stillbirth and early neonatal	Identify whether UHL calculates and publishes their antenatal detection of Small for Gestational Age (SGA) babies rates		Midwifery	update feb 17		
			Identify whether UHL audits SGA cases that are not detected antenatal in order to identify the reasons why, learn from them and improve future detection		Midwifery	update feb 17		
5.2	Reduced foetal movement	'Saving Babies' Lives' care bundle identifies that raising awareness of reduced foetal movement would reduce the incidence of stillbirth and early neonatal death	Provide information and advice to pregnant women on reduced foetal movement (RFM) and how they should respond by 24 th week of pregnancy, and discussed at every subsequent contact	Reduced number of stillbirths following awareness raising regarding RFM	Midwifery and Health visiting	hy excention	accumulating risk factors 01/02/2018	Ongoing
			Use the provided checklist to manage the care of pregnant women who report RFM		Midwifery	hy excention	accumulating risk factors 01/02/2018	Ongoing
5.3	Issues during labour	'Saving Babies' Lives' care bundle identifies that effective foetal monitoring during labour would reduce the incidence of stillbirth and early neonatal death	Identity whether LIHI provide annual training and competency	Reduced number of stillbirth and neonatal deaths	Midwifery	by exception		Ongoing

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5.4	Medical conditions during pregnancy, such as diabetes and hypertension	NICE recommends that prospective parents are advised prior to pregnancy and that pregnant women with specific medical conditions such as diabetes, hypertension, epilepsy, renal/cardiac and mental health needs to be identified and offered specific support tailored to their needs		More mothers experiencing these conditions during pregnancy managing them well	GPs and Midwifery; report to CCG	by exception		Ongoing
			Specialist midwives in post for diabetes and hypertension		GPs and Midwifery; report to CCG			Ongoing
5.5	Low birth weight	The main risk factors associated with low birth weight include: maternal age, multiple birth, smoking (including passive) in pregnancy, language barriers and delay in accessing the antenatal care pathway, maternal infection, and poor maternal nutrition.	GROW programme to be implemented to support early IDE notification and identification of growth retarded babies		Midwifery	by exception	accumulating risk factors 01/02/2018	Ongoing
5.6	Infections	Childhood immunisations reduce the risk of infections in infancy. Leicester has a good uptake of childhood immunisation of more than the recommended 95% coverage.	HVs to promote vaccinations	Increased take up of childhood immunisations	HCP provider	by exception		Ongoing