

# Driver diagram and change package

## Increase the proportion of smoke-free pregnancies

Evidenced by a reduction in the proportion of women who smoke at booking and at delivery/36 weeks

National maternal and neonatal health safety collaborative

*A driver diagram is used to conceptualise an issue and to determine its system components which will then create a pathway to achieve the goal.*

*Primary Drivers are system components which will contribute to moving the primary outcome.*

*Secondary drivers are elements of the associated primary driver. They contain change concepts that can be used to create projects that will affect the primary driver.*

*Mandatory dataset and other suggested additional measures are also in this document.*

*To view a section, click on the appropriate colour on the driver diagram.*



collaboration

trust

respect

innovation

courage

compassion

# Instructions for use

- This document is interactive
  - Click on the secondary driver to view the change ideas and datasets.
  - Click on the links at the bottom of the pages to navigate through further parts of the document.
- Datasets are split into three distinct sets
  - Mandatory data that must be collected regardless of which secondary driver is being worked upon (this data has been emboldened)
  - Some mandatory data is collected by the Patient Safety Measurement Unit. This is marked with [PSMU].
  - Mandatory data that must be collected for the secondary driver that you are working on.
  - Supporting data that you can choose to collect to support your improvement project.
  - Some of the data can be sampled if you prefer (indicated by an [s]).
- Datasets must be input via the Maternal & Neonatal Health Safety Collaborative online portal : [psmu.improvement.nhs.uk](https://psmu.improvement.nhs.uk)

**Aim**

**Primary Drivers**

**Secondary Drivers**

**Increase the proportion of smoke-free pregnancies**



**Click on a driver to find out more**

<p><b>Change package</b></p>	<p><b>Increase the proportion of smoke-free pregnancies</b></p>
<p><b>Primary driver</b></p>	<p><b>Improving the quality and safety of care through Clinical Excellence</b></p> <ul style="list-style-type: none"> <li>The collaborative focuses on five key clinical drivers that will significantly improve the safety and quality of care and contribute to the national 50% reduction in stillbirths, neonatal deaths and hypoxic brain injury. These change packages have been developed so that we can break down the five clinical areas into manageable discreet projects.</li> </ul>
<p><b>Primary driver</b></p>	<p><b>Creating the conditions for a culture of safety and continuous improvement</b></p> <ul style="list-style-type: none"> <li>We see the value, as a collaborative, of ensuring that we examine local safety culture as well as developing improvement capability within the clinical teams. A focus on quality improvement interventions alone is unlikely to result in significant change. A good understanding of the work setting and team context and the approaches required are vital to ensure sustainable change.</li> </ul>
<p><b>Primary driver</b></p>	<p><b>Develop safe and highly reliable systems, processes and pathways of care</b></p> <ul style="list-style-type: none"> <li>The collaborative supports clinical teams to increase the understanding and support the redesign of pathways of care. This allows for identification of potential unreliability and waste. Effective pathways supports clinical staff to deliver high quality and safe care. We also support systems to reduce unnecessary clinical variation across England.</li> </ul>
<p><b>Primary driver</b></p>	<p><b>Improve the experience of women, families and staff</b></p> <ul style="list-style-type: none"> <li>The work of the collaborative focuses on improving the quality, safety and experience of care. This process needs to involve women and families in services re-design to ensure services fit the needs of those accessing care. Equally it is essential that we support staff to develop and improve services so that they support all staff in their work and make it easier to deliver high quality care.</li> </ul>
<p><b>Primary driver</b></p>	<p><b>Learn from excellence and error or incidents</b></p> <ul style="list-style-type: none"> <li>One of the collaborative's key aims is to encourage organisations to learn from care failures and examples of high quality care. We support teams to understand how to translate learning into ongoing improvement.</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	Improving the quality and safety of care through Clinical Excellence
<b>Secondary driver</b>	Increase the identification of women who smoke during their pregnancies and following child birth
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Ensure all pregnant women are offered CO (Carbon Monoxide) test at booking, repeated as appropriate throughout pregnancy</li> <li>• Develop effective pathways to allow for CO monitoring of all pregnant women, at booking and other antenatal appointments, with opt-out referral for those with elevated levels (4ppm or above)</li> <li>• Ensure all midwives, and other clinical staff have access to a CO monitor, and have received training on how to use it</li> <li>• Ensure appropriate data system capability/requirements to are in place to record smoking status and outcomes of CO monitoring</li> <li>• Develop clear opt-out referral pathways into specialist support that are an integral part of routine care for women who smoke</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• <b>Proportion of women who smoke at booking [PSMU]</b></li> <li>• <b>Proportion of women who smoke at time of delivery [PSMU]</b></li> <li>• Proportion of women who smoke at 36 weeks of pregnancy [s]</li> <li>• Proportion of women receiving CO test at booking</li> <li>• Proportion of women receiving CO test at 36 weeks [s]</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Proportion of women who test positive that receive brief a intervention</li> <li>• Proportion of women who smoke following child birth</li> </ul>

Change package	Increase the proportion of smoke-free pregnancies
Primary driver	Improving the quality and safety of care through Clinical Excellence
Secondary driver	Increase the provision of effective training for staff in relation to smoking during pregnancy and following childbirth
Change ideas	<ul style="list-style-type: none"> <li>• Ensure all relevant maternity staff are trained to have brief meaningful conversations with pregnant women about smoking</li> <li>• Ensure that regular training and updates regarding how to address smoking in pregnancy and postnatally are part of mandatory midwifery and medical post registration training</li> <li>• Use existing evidence based resources to enhance information provided to women on smoking during pregnancy and effects of second hand smoke exposure</li> <li>• All staff to use consistent and accurate information and messages for pregnant women regarding the risks of smoking in pregnancy and ensure that this is regularly reviewed</li> </ul>
Mandatory data	<ul style="list-style-type: none"> <li>• <b>Proportion of women who smoke at booking [PSMU]</b></li> <li>• <b>Proportion of women who smoke at time of delivery [PSMU]</b></li> <li>• Proportion of staff trained to deliver brief interventions</li> <li>• Proportion of staff trained in CO monitoring</li> </ul>
Supporting data	<ul style="list-style-type: none"> <li>• Proportion of staff trained to use a CO monitor</li> <li>• Proportion of midwifery staff trained to deliver brief intervention conversations</li> <li>• Proportion of neonatal staff trained to deliver brief intervention conversations</li> <li>• Number of brief intervention conversations</li> <li>• Proportion of clinical staff who attended mandatory training/updates.</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	Improving the quality and safety of care through Clinical Excellence
<b>Secondary driver</b>	Increase in the provision of specialist stop smoking support
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Establish effective local pathways to enable pregnant women to receive specialist advice and support to stop smoking</li> <li>• Secure the provision of specialist stop smoking support either within the maternity service or provided in the community through the local health system</li> <li>• Establish local systems for monitoring and reviewing referral systems, number of women referred, quit dates set and outcomes. Including mechanisms to re-engage women who may have relapsed</li> <li>• Establish local system to enable rapid access to nicotine replacement therapy for pregnant women when required (prescription, voucher system, direct supply through specialist advisors)</li> <li>• Ensure nicotine replacement therapy is available on hospital formulary for pregnant women admitted as in-patients and on postnatal wards</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• <b>Proportion of women who smoke at booking [PSMU]</b></li> <li>• <b>Proportion of women who smoke at time of delivery [PSMU]</b></li> <li>• Proportion of women with elevated CO levels referred for specialist stop smoking interventions</li> <li>• Proportion of women referred to specialist stop smoking support</li> <li>• Proportion of women setting quit dates with specialist stop smoking support</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Proportion of women setting quit dates with specialist stop smoking support who are quit at 4 weeks, 12 weeks or end of pregnancy</li> <li>• Proportion of women prescribed Nicotine Replacement Therapy</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	Improving the quality and safety of care through Clinical Excellence
<b>Secondary driver</b>	Establish a multi-agency partnership to support the commissioning and development of effective pathways across the LMS to increase the number of smokefree pregnancies
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Ensure all staff are aware of and utilise the support and local pathways available to enable pregnant women who smoke to become smokefree</li> <li>• Develop strategies to ensure effective engagement with target groups, utilising existing evidence based resources and recently published behaviour insights research</li> <li>• Development effective pathways of care for women unable to achieve a smoke free pregnancy</li> <li>• Ensure that women who are unable to achieve a smokefree pregnancy receive adequate information regarding the importance of maintaining a smokefree home for their new baby and any other children</li> <li>• Ensure there is ongoing support in place post-partum for women who have stopped smoking during pregnancy to help prevent relapse. Also to follow up with any women unable to quit during pregnancy to offer further advice or referral for specialist support, including for the wider family if necessary.</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• <b>Proportion of women who smoke at booking [PSMU]</b></li> <li>• <b>Proportion of women who smoke at time of delivery [PSMU]</b></li> <li>• Improvement against the CLear local tobacco control assessment (Smoking in pregnancy deep dive self-assessment tool)</li> <li>• Implementation of smokefree hospital status (smoking status of all patients asked/recorded; those who smoke offered support; smokefree estates policy fully implemented)</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Women/user feedback on stop smoking services</li> </ul>

References

**Increase the identification of women who smoke during their pregnancies and following child birth**

- NICE guideline - Smoking: stopping in pregnancy and after childbirth: <https://www.nice.org.uk/guidance/ph26>
- Publications on system wide action to increase identification and referral
  - Campbell et al (2017) 'Opt-out' referrals after identifying pregnant smokers using exhaled air carbon monoxide: impact on engagement with smoking cessation support <http://tobaccocontrol.bmj.com/content/26/3/300>
  - Bell et al (2017) Evaluation of a complex healthcare intervention to increase smoking cessation in pregnant women: interrupted time series analysis with economic evaluation. <http://tobaccocontrol.bmj.com/content/early/2017/02/10/tobaccocontrol-2016-053476>

**Increase the provision of effective training for staff in relation to smoking during pregnancy and following childbirth**

- NIHR funded research on "Barriers and facilitators to smoking cessation in pregnancy and following childbirth: literature review and qualitative study" : <https://www.journalslibrary.nihr.ac.uk/hta/hta21360/#/abstract>

**Increase in the provision of specialist stop smoking support**

- A Randomized Trial of Nicotine-Replacement Therapy Patches in Pregnancy <http://www.nejm.org/doi/full/10.1056/NEJMoa1109582>
- A randomised placebo-controlled trial of nicotine replacement therapy in pregnancy--clinical effectiveness and safety until 2 years after delivery, with economic evaluation - <https://www.ncbi.nlm.nih.gov/pubmed/25158081>

## Change package

## Increase the proportion of smoke-free pregnancies

## Resources and further reading

**Increase the identification of women who smoke during their pregnancies and following child birth**

- Smoking in Pregnancy Challenge Group have a range of resources available, in a variety of different languages, including postcards on CO testing and info on e-cigarettes: <http://www.smokefreeaction.org.uk/SIP/index.html>

**Increase the provision of effective training for staff in relation to smoking during pregnancy and following childbirth**

- Free on-line training on Very Brief Advice for smoking in pregnancy is available through RCM: <http://www.ilearn.rcm.org.uk/enrol/index.php?id=259> ; E-learning for healthcare: <https://www.e-lfh.org.uk/programmes/smoking-in-pregnancy/> and NCSCCT: [http://elearning.ncsct.co.uk/vba\\_pregnancy-launch](http://elearning.ncsct.co.uk/vba_pregnancy-launch)
- NCSCCT briefing "Smoking Cessation: a briefing for midwifery staff" : [http://www.ncsct.co.uk/usr/pub/Midwifery\\_briefing\\_%20V3.pdf](http://www.ncsct.co.uk/usr/pub/Midwifery_briefing_%20V3.pdf)
- Online training - Secondhand smoke: promoting smokefree homes and cars: [http://elearning.ncsct.co.uk/shs\\_vba-launch](http://elearning.ncsct.co.uk/shs_vba-launch)

**Increase in the provision of specialist stop smoking support**

- Service and delivery guidance for local stop smoking services.  
[http://www.ncsct.co.uk/publication\\_service\\_and\\_delivery\\_guidance\\_2014.php](http://www.ncsct.co.uk/publication_service_and_delivery_guidance_2014.php)

**Establish a multi-agency partnership to support the commissioning and development of effective pathways across the LMS to increase the number of smokefree pregnancies**

- Complete the CLeaR self-assessment tool to review local systems and identify areas for improvement.  
<https://www.gov.uk/government/publications/clear-local-tobacco-control-assessment> (deep dive for smoking in pregnancy)
- NHS England resources: Resource pack for Local Maternity Systems; Service Specification; and Qualification Criteria;  
<https://www.england.nhs.uk/publication/local-maternity-systems-resource-pack/>
- NIHR funded research on "Barriers and facilitators to smoking cessation in pregnancy and following childbirth: literature review and qualitative study" - to be published soon.

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Creating the conditions for a culture of safety and continuous improvement</b>
<b>Secondary driver</b>	<b>Understand the culture and learning system in the department</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Raise awareness of safety culture within the department / organisation</li> <li>• Undertake an assessment of local safety culture to gain an understanding of the departmental culture and learning system i.e. how learning is systematically used to continually improve, and repeat surveys at intervals to evidence change</li> <li>• Share findings and debrief with staff</li> <li>• Undertake informal listening exercises with staff to add to the understanding of the local culture and learning system</li> <li>• Seek the opinion of women and their families regarding communication issues and staff attitudes, using existing information such as complaints and feedback forms to gather their views as well as information gathered from the CQC Maternity Services Survey and Friends and Family surveys</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Proportion of staff undertaking a culture survey</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of listening events held</li> <li>• Number of actionable changes tested</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Creating the conditions for a culture of safety and continuous improvement</b>
<b>Secondary driver</b>	<b>Build capability to improve both the culture and the learning system in the department – Part 1</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Raise awareness of the use of improvement science to enable systematic improvement and change i.e. understand ‘how’ to implement evidence-based practice</li> <li>• Build capability of improvement science, including human factors with a critical mass of staff</li> <li>• Ensure teams use improvement science to test ideas of change before implementation and spread</li> <li>• As part of the local improvement plan, use the findings from the safety culture assessments and listening events to develop and test changes to improve the safety culture</li> <li>• Ensure leaders act as the guardians of the learning system and support teamwork and psychological safety, and the process of learning into improvement on a continuous cycle</li> <li>• Leaders, managers and team members to use learning boards to communicate and share the process of improvement</li> <li>• Build on the work of your board level maternity safety champion and improvement leads, with all staff acting as safety champions</li> <li>• Develop a departmental improvement infrastructure; a virtual or real space, where improvement leads and others supporting improvement work can meet, have safety improvement conversations, where the improvement plan is reviewed, and improvement activity is planned and reviewed regularly</li> <li>• Build safety and improvement conversations in staff PDRs (Performance and Development Reviews) to help focus on the knowledge, skills and behaviours required to nurture a safety culture and continuous learning, including leadership for safety</li> <li>• Ensure measurement over time is used to communicate the progress of improvement projects</li> <li>• Develop a resource of improvement ideas, case studies and tools that will provide further opportunities to build capability through staff knowledge, skills and behaviours</li> <li>• Raise awareness amongst all staff of the cultural aims of the department and the plan to achieve them</li> <li>• Communicate improvement success and failures within the department and MNHSC Local Learning System (LLS)</li> <li>• Ensure that patient safety and development of the LLS is everyone’s responsibility</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Creating the conditions for a culture of safety and continuous improvement</b>
<b>Secondary driver</b>	<b>Build capability to improve both the culture and the learning system in the department – Part 2</b>
<b>Mandatory data</b>	<ul style="list-style-type: none"><li>• Number of staff received training in: &lt;Insert subject&gt;</li></ul>
<b>Supporting data</b>	<ul style="list-style-type: none"><li>• Number of safety walk rounds/board rounds completed</li><li>• Number of staff trained in safety culture awareness</li><li>• Number of improvement projects</li><li>• Progression of mean trust progress assessment scale</li><li>• Number of staff using improvement methodology</li><li>• Number of projects where senior/exec/board leadership is actively involved</li><li>• Number of staff who have had safety and quality improvement as part of their PDR/CPD plan</li><li>• Proportion of projects that share data over time through the learning board</li></ul>

Change package	Increase the proportion of smoke-free pregnancies
Primary driver	Creating the conditions for a culture of safety and continuous improvement
Secondary driver	Develop and nurture the conditions that enable a just and safe culture – Part 1
Change ideas	<ul style="list-style-type: none"> <li>• Develop a shared vision and ambition for the department</li> <li>• Develop teams to work more effectively; ensure shared understanding and anticipation of needs and problems and agreed methods to manage these, including how to resolve conflict</li> <li>• Develop transparency and sharing between the workforce and leadership teams by publically sharing data relating to the safety and reliability of care, decision making and the process of improvement and learning</li> <li>• Create an environment where people feel confident, comfortable and have opportunities to raise concerns that will be actioned and can ask questions without redress</li> <li>• Individuals held to act in a safe and respectful manner and given the training and support to do so</li> <li>• Leaders at all levels to visibly prioritise safety and role model behaviours</li> <li>• Leaders at all levels to engage with the improvement leads and projects by visiting the site/s to regularly monitor, and review the progress; via learning boards, improvement walk rounds, drop ins and listening events</li> <li>• Leaders to understand the progress of improvement projects and to facilitate the removal of barriers where relevant</li> <li>• Teams should agree to a common set of behaviours and expectations, and for any deviation to be identified and challenged</li> <li>• Teams should use standardised communication tools such as SBAR (Situation, Background, Assessment, Recommendation) in team handovers and at transition points of care</li> <li>• Teams to use briefings or huddles to anticipate potential safety issues and agree how to monitor and respond</li> <li>• Teams use debriefs to learn from excellence and harm, after clinical interventions and at the end of shifts</li> <li>• Teams understand situational awareness and use it to improve safety in the working day and during high risk interventions</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Creating the conditions for a culture of safety and continuous improvement</b>
<b>Secondary driver</b>	<b>Develop and nurture the conditions that enable a just and safe culture – Part 2</b>
<b>Mandatory data</b>	<ul style="list-style-type: none"><li>• Number of cultural components implemented</li></ul>
<b>Supporting data</b>	<ul style="list-style-type: none"><li>• Number of staff trained in team working for safety</li><li>• Number of huddles with multidisciplinary team present</li><li>• Number of safety walk rounds/board rounds completed</li><li>• Proportion of times that safety briefing occurs</li><li>• Proportion of times that safety de brief occurs</li><li>• Number of times SBAR is used</li></ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Develop safe and highly reliable systems, processes and pathways of care</b>
<b>Secondary driver</b>	<b>Improve work processes and outcomes for mothers and babies using improvement tools and measurements over time</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Develop a local measurement plan that aligns with the local improvement aim(s) and the MNHSC national driver diagram</li> <li>• Identify project measures that monitor the effects of the changes being made by the improvement team over time, and enable learning as part of a PSDA cycle</li> <li>• Collect and share project measures with department staff, women and families using an agreed method, such as learning boards, posters or social media</li> <li>• Ensure data accurately records women’s status and movement through the care process is captured and used to inform learning</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Proportion of improvement projects reporting measures</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of occasions that project measures are collected</li> <li>• Number of occasions that project measures are uploaded as required to national or local system</li> <li>• Number of occasion in a month that measures are shared with wider team</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Develop safe and highly reliable systems, processes and pathways of care</b>
<b>Secondary driver</b>	<b>Learn from and design reliable pathways of care</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Apply best evidence and reduce unwarranted variation with the goal of failure free operation over time. To ensure all women and babies are consistently provided with safe reliable high quality care</li> <li>• Process map the whole pathway of care to understand the current process steps and their potential complexities, and to establish any duplication and processes which do not add value to the pathway. These will form the basis of change ideas for PDSA testing</li> <li>• Reduce any other 'waste' using lean principles to streamline the processes and pathway of care</li> <li>• Undertake demand and capacity modelling to improve flow and inform a redesign approach through the maternity and neonatal service</li> <li>• From learning above, simplify the pathway to reduce duplication and waste and activities which do not add value to the woman, family or the organisation</li> <li>• Design and develop pathways of care by working in partnership with women and the wider multidisciplinary team and test this by using the model for improvement approach</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Proportion of pathways reliably implemented</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of occasions a process in the testing phase is implemented accurately</li> <li>• Number of new processes that are tested for reliability</li> <li>• Number of pathways mapped</li> <li>• Number of projects achieving reliability</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Improve the experience of women, families and staff</b>
<b>Secondary driver</b>	<b>Work with mothers and families to improve their experience of care</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Use a range of approaches to better understand the perspectives and experiences of women and their families; surveys, listening events and focus groups</li> <li>• Engage with women and families to co design and make improvements to existing pathways and processes where appropriate</li> <li>• Engage all project team members to ensure that women and their families are part of the process to redesign and review new processes and pathways</li> <li>• Undertake an informal assessment/ listening event with women and their families focused on the local culture and improvement aim</li> <li>• Raise awareness of your improvement project aim and progress with women and families using services</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Proportion of improvement projects that women are involved with</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Proportion of women and their families invited to contribute to the project</li> <li>• Number of occasions progress is reported to women and their families</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Improve the experience of women, families and staff</b>
<b>Secondary driver</b>	<b>Work with staff to improve the work environment to support staff to deliver safer care</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Canvass staff opinion, what could be done better, what do we do well, what change ideas could we test</li> <li>• Undertake with staff an informal assessment/ listening event of the local culture in relation to the project aim</li> <li>• Provide staff with the opportunity and a range of ways that they can be involved in the project</li> <li>• Work with staff to Identify and acquire physical resources, educational needs and identify links with outside organisations required by staff to be able to make improvements</li> <li>• Engage with staff in peer organisations via the Learning system to share learning</li> <li>• Work with all the project team members to ensure that staff are part of the process to redesign and review new processes and pathways</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Proportion of projects where there is full multidisciplinary team involvement beyond the improvement leads</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of staff engagement events held</li> <li>• Proportion of staff that report being part of the project or know how to contribute if they wanted</li> <li>• Number of occasions progress communicated to staff</li> <li>• Proportion of staff trained in &lt;improvement project aim&gt;</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Improve the experience of women, families and staff</b>
<b>Secondary driver</b>	<b>Work effectively with local network and commissioning organisations to develop effective local maternity systems</b>
<b>Change ideas</b>	<ul style="list-style-type: none"><li>• Ensure involvement with Maternity Voice Partnerships , Maternity clinical Networks and Neonatal networks when improving pathways/services during the diagnostic , testing and refining and scale up phase</li><li>• Work collaboratively with and ensure improvements reflect discussions with local maternity systems and commissioners</li></ul>

Change package	Increase the proportion of smoke-free pregnancies
Primary driver	Learn from excellence and error or incidents
Secondary driver	Learn effectively from episodes of avoidable harm – Part 1
Change ideas	<ul style="list-style-type: none"> <li>• Engage staff within the team and risk/governance departments to map the current process for reporting, investigating and learning</li> <li>• Work with key stakeholders to develop a reliable reporting processes that align with national guidance and enables all staff to record episodes of harm at all times of day/out of hours</li> <li>• Regular review of investigations to ensure multidisciplinary team involvement and compliance with national guidance</li> <li>• Agree standards/training requirements for staff undertaking investigations (competency framework)</li> <li>• Develop a register of all staff who have received the appropriate training to undertake investigations</li> <li>• Ensure all investigations and action plans consider and seek to address underlying system and human factors</li> <li>• Ensure there is an ability to develop learning from multiple incidents and other qualitative sources of safety reporting</li> <li>• Develop a standardised approach for communicating with women and families</li> <li>• Ensure all women and families are offered choice and are adequately supported and prepared to participate in any local reviews</li> <li>• Develop reliable processes and fail-safe mechanisms for ensuring investigations are carried out on time</li> <li>• Develop reliable processes for communication and sharing learning with the multidisciplinary team</li> <li>• Ensure regular review to assess whether learning has been embedded and sustained over time</li> <li>• Agree approach for examining trends and measuring safety</li> <li>• Agree approach for presenting/displaying learning from incidents over time</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Learn from excellence and error or incidents</b>
<b>Secondary driver</b>	<b>Learn effectively from episodes of avoidable harm – Part 2</b>
<b>Mandatory data</b>	<ul style="list-style-type: none"><li>• Number of harm incidents /number of learning activities post harm</li></ul>
<b>Supporting data</b>	<ul style="list-style-type: none"><li>• Proportion of occasions care/intervention is omitted within the pathway</li><li>• Number of occasions dissatisfaction is reported by women or their families</li><li>• Number of occasions that staff report harm</li><li>• Proportion of staff trained to report harm</li><li>• Number of harm investigations that are investigated</li><li>• Number of near misses reported</li></ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Learn from excellence and error or incidents</b>
<b>Secondary driver</b>	<b>Learn effectively from examples of high quality care or excellence</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Develop reliable reporting processes so all staff are able to record examples of high quality care at all times of day/out of hours</li> <li>• Develop effective and timely feedback loops to acknowledge best practice and support staff in identifying the factors which contributed to the delivery of high quality care</li> <li>• Develop a reliable process for exploring the underlying the conditions, systemic and human factors which contributed to an event being well managed</li> <li>• Ensure all staff groups are communicated with and understand the reason and need for change</li> <li>• Ensure all staff, where appropriate are able to access peer support, coaching and/or mentoring to make the changes necessary to improve care provided to women and babies</li> <li>• Agree approach for disseminating and sharing learning from episodes of high quality care</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Number of excellence incidents / number of learning activities post harm</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of times women report satisfaction/excellence within the pathway</li> <li>• Number of episodes of excellence reported by staff in relation to the pathway</li> <li>• Proportion of staff informed/trained how to report excellence</li> <li>• Proportion of excellence episodes that are investigated</li> </ul>

<b>Change package</b>	<b>Increase the proportion of smoke-free pregnancies</b>
<b>Primary driver</b>	<b>Learn from excellence and error or incidents</b>
<b>Secondary driver</b>	<b>Share findings from incidents and high quality care between organisations and within local maternity systems to aid adoption and spread</b>
<b>Change ideas</b>	<ul style="list-style-type: none"> <li>• Agree communication processes within local learning system</li> <li>• Agree methods for measuring organisational/system learning</li> <li>• Ensure communities of practice include representation from service users</li> <li>• Agree processes for communication and engagement with local maternity voice partnerships</li> </ul>
<b>Mandatory data</b>	<ul style="list-style-type: none"> <li>• Number of incidents shared external to the organisation</li> </ul>
<b>Supporting data</b>	<ul style="list-style-type: none"> <li>• Number of times learning is shared outside the trust</li> </ul>