

Report Supplementary Materials 11 (17-99-85-sup11)

<b>Realist Data Extraction Table 2</b>			
<b>Improvements in ‘Being Open’/Open Disclosure: What Works and How for Services (Bolded Program Theories Have Been Included in CMO Configurations)</b>			
<b>‘BEING OPEN’ PATHWAY</b>	<b>SITUATION</b>	<b>Indications of Mechanisms (forces, interactions, reasoning and resources)</b>	<b>OUTCOMES for Services</b>
EVENT IDENTIFICATION	Incident uncertain/unfolding	Routine invitation to discuss felt harm prior to discharge or during an assessment of reported symptoms <sup>1</sup> ; standardised checks on women’s experiences embedded across maternity care pathways <sup>1</sup> and family perspective included in clinical records and incident analysis <sup>2</sup>	Leads to the development of trauma-informed maternity service <sup>1</sup> ; Reduces the possibility of litigation by families who feel ignored <sup>1</sup> and the loss of vital information for patient care <sup>2</sup>
		Extension of thresholds of harm (‘less’ serious incidents) <sup>1,3</sup> ; wider interest of improvement leads/committees in ‘trigger’ incidents <sup>4</sup> (with possibility of extension of these thresholds over time) <sup>5</sup>	Enhances view of service areas requiring improvement <sup>1,3-5</sup>
		<b>Following ‘Being Open’ guidance and Regulation 20(Duty of Candour)<sup>3,6</sup> with all reviews including a systematic and critical review of care<sup>7</sup></b>	<b>Increases reporting of incidents<sup>3</sup>; improves discussions with families<sup>6</sup>; meets regulatory requirements<sup>3</sup>; creates more opportunities to learn from mistakes and substandard care<sup>3,7</sup> and meets drive to improve maternity safety<sup>6</sup></b>
ONGOING CARE AFTER EVENT	When the incident has happened and during ongoing maternity care	Organisation-wide <sup>8,9</sup> staff training in Being Open purpose <sup>9</sup> , policy/principles <sup>10</sup> , and communication skills <sup>8</sup>	Leads to fewer possible repercussions for Trust (aggrieved families) <sup>10</sup> ; workforce competencies are more widespread <sup>8</sup> ; becomes more likely for disclosure to be enacted in local practice <sup>8,9</sup> .
DISCLOSURE PROCESS	Improvement Strategies and Infrastructures	<b>Specialist, multi-disciplinary ‘event response team’ manage processes across service<sup>8,10</sup> and immediate response to trigger events<sup>8</sup>; team selected by peers<sup>8</sup></b>	<b>Disclosure processes will be more consistent/coordinated, there will be clear accountability<sup>8,10</sup>; leadership</b>

			positions/expertise will be developed <sup>8</sup> ; a 'tenants of disclosure model' can be operationalised <sup>8</sup> ; duplication likely to be reduced <sup>10</sup> and advice and standards more likely to be consistent <sup>9</sup>
		<b>Concerted and resourced implementation strategy (including policy, guidelines, training, and evaluation of effect)<sup>9 11</sup>, maximum use of IT<sup>12</sup> with whole service engagement<sup>5</sup>/capacity to integrate patient experience intelligence<sup>4</sup></b>	<b>Will meet the broad objectives of a pilot<sup>11</sup>; OD more likely embedded in organisation (not a discretionary activity)<sup>5 9 12</sup>; more effective identification of improvement focus possible<sup>4</sup></b>
		<b>Comprehensive protocol/guidance (identification, disclosure, investigation, appropriate resolution)<sup>8</sup></b>	<b>Meets one condition of programme implementation<sup>8</sup></b>
		Dedicated, senior person to implement disclosure guidance (n Trust <sup>4</sup> ; in regional partnerships <sup>13</sup> )	Ensures clear and consistent leadership for implementation <sup>4 13</sup>
		Gaining and sustaining senior medical 'buy-in' (with responsibilities for implementation and case reporting <sup>8</sup> ) <sup>4 9 14</sup> and by local site engagement,(with benefits evidenced to them <sup>8</sup> and local services opportunities to adjust protocol to meet their own service conditions <sup>8</sup>	Encourages support by senior medical staff (required to promote uptake by colleagues; <sup>4 8</sup> ; reassures junior staff <sup>14</sup> ; crucial to ongoing practice <sup>9</sup> and policy implementation <sup>8</sup>
		Disclosure identified as more than clinical competence and as a service organisational issue about workload, supervision, rapid organisational change <sup>9</sup> ; documentation <sup>8</sup> ; administration and co-ordination <sup>14</sup> ; communication/discussion and coordination of protocol and practice across units <sup>8</sup> )	Embeds organisation-wide practice of openness <sup>8 9</sup> ; reduces burden of disclosure in individual clinicians; and enhances possibility of patient-centred disclosure practice <sup>9</sup>
		<b>Trusts' prompt referral of/comprehensive information on incident to external body<sup>6</sup></b>	<b>Possibility of reduced litigation (parents get answers and/or assistance more quickly)<sup>6</sup></b>
		Organisational regulation <sup>15 16</sup> with accommodation of differences in organisational maturity (how well systems support practice) <sup>17</sup>	Enables clear accountability for disclosure <sup>16</sup> ; but variations across units are expected during early implementation <sup>17</sup>

		<b>Disclosure, apology, and early redress embedded in quality improvement work<sup>18</sup></b>	<b>May reduce the need for the regulation of organisations<sup>18</sup></b>
		<b>National frameworks/guidance on programmes for all Trusts and services<sup>4 13</sup> (including for Board leads; staff skills; protected time; minimum data collection and reporting requirements)<sup>4</sup></b>	<b>Promotes a clear and consistent policy for family engagement and its requirements<sup>4 13</sup> ( combining specificity with flexibility)<sup>13</sup></b>
		<b>Education to address gap between disclosure guidelines and clinicians' practice<sup>19</sup>, including supported space for clinicians and patients to negotiate the practical demands/contradictions of disclosure<sup>9</sup></b>	<b>Effective disclosure becomes part of patient safety programmes<sup>19</sup>; and becomes more than 'in principle' agreement<sup>9</sup></b>
		Risk management formalised/embedded in improvement work/aspect of cultural change <sup>10 18</sup> committed risk managers identified to embed disclosure protocol in each unit <sup>8</sup>	Incidents of disclosure are likely to increase <sup>18</sup> ; evidence of impact of disclosure on reduction of incidents will be collected <sup>10</sup> ; implementation of disclosure will be successful <sup>8</sup> .
		<b>Staff commitment to disclosure (notably, risk managers<sup>18</sup>; senior clinicians<sup>20</sup>; board and medical director/nominated consultant) with time and resources<sup>4</sup>; consistent communication of commitment<sup>8</sup></b>	<b>Continuity of disclosure practice will be possible<sup>8 18 20</sup>; financial and HR investment in high-quality systems and processes more likely<sup>4</sup></b>
		Established provider service team reporting in Board and Commissioners into the divisions; and 'down' to wards and local forums <sup>10</sup>	Develops high-quality safety assurance with grassroots identification of risk and improvement implementation <sup>10</sup>
		<b>'Joined- up' intelligence from reviews/incidents, patient experience, complains and support services by Trust Boards<sup>3</sup></b>	<b>Enhances insights for safety improvement<sup>3</sup>;</b>
		<b>Adoption/development of legacy interventions (e.g., review tools, training, and engagement methods)<sup>4 12 21 22</sup></b>	<b>Creates a shorter/easier journey to improvement; interventions are more reliable<sup>4 12 21 22</sup></b>
	Ethos	<b>Disclosure communication enacted as moral-ethical obligation of clinicians (not an administrative task)<sup>15</sup>; enacted in service-wide early response teams to encourage disclosure<sup>8</sup></b>	<b>Embeds disclosure as an aspect of care s in each clinical service<sup>8 15</sup></b>

		<b>Parents central in guidance<sup>3 21</sup> and practice development<sup>4</sup></b>	<b>Enhances effectiveness of guidance<sup>3 21</sup>; strengthens partnerships with families<sup>4 21</sup></b>
		Change in NHS safety culture (with holistic work programme on structure, skills, capacity, and cultural reform) <sup>17</sup> ; culture change in ‘healthcare micro-systems’ (over wider systems reform) <sup>18</sup>	Refocuses SI management from punitive/political process to learning for improvement <sup>17</sup> (52% of 2017 survey respondents said not yet achieved <sup>17</sup> ); different programs for Trust settlement after incidents possible <sup>18</sup>
		<b>Change in inspection and Board priorities from how investigations conducted and completed (within timeframe) to learning disseminated and embedded<sup>3</sup></b>	<b>Practice will be valued for learning and improvement (not for meeting short targets)<sup>3</sup></b>
		‘High-level’ leadership in promoting ‘Just culture <sup>3 6</sup> ’; desire to learn a central organisational value <sup>4</sup> (e.g. Provider Boards; Commissioners and Regulators); embedded and consistent culture of openness/candour <sup>7 10</sup>	<b>Change more likely to happen within units<sup>3 6</sup> when incidents, complaints, and concerns are seen as learning opportunities<sup>10 4 17</sup> and when service-user experience if part of this learning<sup>7</sup></b>
	Organisation/Unit Legacies	<b>When implementation approaches recognise the different capacities of organisations to drive attitude and practice change so that gradual and uneven change expected in organisations<sup>8</sup> and varying degrees of foundational systems and expertise in organisations anticipated<sup>4 17 21</sup></b>	<b>Differentiated systems for support of staged implementation plans can be developed<sup>17 21</sup></b>
		<b>Established success/experience in other family engagement practices<sup>21</sup></b>	<b>Disclosure is more successful<sup>21</sup></b>
	Governance	<b>Local Maternity Systems<sup>13</sup> and Health-Board/Trust buy-in<sup>5</sup> (with trained<sup>17</sup> Executive and non-Executive leading these processes)<sup>23</sup>; resourcing available<sup>12</sup>; with clear and consistent guidance/standards/processes/tools<sup>3</sup> and time for development of expertise in their application<sup>12 21</sup>; Board-level family advocate<sup>4</sup> and minimum standard of training for all Board members<sup>17</sup></b>	Consistent disclosure improvements and learning are possible <sup>3 5 12 23</sup> ; investigating and learning emphasised <sup>13 17</sup> in time (with variations between services expected) <sup>21</sup> ; staff implementing family engagement are held to account <sup>4</sup>

	<b>Strong governance structures: e.g., review groups, including regular executive reviews<sup>4 5</sup>; promotion of unit reporting for external benchmarking<sup>13</sup>; monitoring of training effectiveness<sup>5</sup><sup>13</sup> and involvement guideline compliance<sup>13</sup>;</b>	<b>Essential for service improvement/learning and acting on lessons<sup>4</sup>; improvement monitoring<sup>13</sup></b>
	<b>Commissioning that includes: lead for incident reporting and process improvement<sup>3</sup>; for maternity safety<sup>6</sup>; and commissioners have time and training to quality assure disclosure and investigations<sup>13</sup></b>	<b>More coordinated improvement work<sup>3</sup>; clarification of accountabilities<sup>13</sup>; family participation more likely to be achieved<sup>13</sup></b>
	<b>Commissioners' responsibility for investigation reporting/action plans with family involvement<sup>13</sup>; Board-level clarification and resourcing of Candour regulations (and inclusion of parents and staff in investigation processes)<sup>6</sup></b>	<b>Regulation will be met<sup>6 13</sup>; variability of investigations will be reduced<sup>13</sup></b>
	<b>Inspection bodies include: mortality reviews/investigations<sup>3</sup>; compliance to family involvement guidelines<sup>13</sup> (e.g. to benchmark Trust leadership)</b>	<b>Improvements in national oversight and support for learning from failings; improvements in family involvement in national oversight would improve<sup>3 13</sup></b>
	Local Maternity Systems, supported by strategic partnership Boards, responsible for improving investigation process (and MVP involvement in it) <sup>13</sup>	National recommendations can be co-designed and included in local SI processes <sup>13</sup>
	Royal College clinical leadership and guidance to Trust/service investigators <sup>3</sup> ; professional-led national quality improvement introduced <sup>23</sup>	Costs of external investigations teams (c£100k per investigation) will be reduced <sup>3</sup> ; national standards and objectives will be established <sup>23</sup>
	<b>Value of user-voice already established in organisation/clinical governance (co-production-user forums)<sup>4 24</sup></b>	<b>Reduction in the cultural resistance to involving families in making improvements in reviews/investigation processes<sup>4</sup> (however practice of user-involvement will always be more challenging than other aspects of clinical governance, especially where addresses difficult issue of 'poor outcomes')<sup>24</sup></b>

		Networked governance structures to enhance disclosure practices (e.g. Board-level, Membership Councils, QI Steering Groups; Patient Leads) <sup>10 13</sup> ; annual reporting of national bodies to include lay summaries <sup>23</sup>	More effective learning and engagement for Sis and involvement of families <sup>10 13 23</sup>
Accessibility/Availability		<b>Family-centred approach to engagement in reviews and investigations<sup>3</sup>, including information materials noting multiple opportunities to engage<sup>22</sup>; and staff training in this perspective<sup>24</sup></b>	<b>Increases satisfaction of families<sup>3</sup>; family engagement improved<sup>22</sup>, along with care planning and delivery<sup>24</sup></b>
		<b>Culture that supports meaningful apology for any harm<sup>3 10 25</sup>; explanation of circumstances without blame<sup>25</sup>, including legal protection<sup>18</sup></b>	<b>Reduces likelihood of escalation or legal claim<sup>3 10 25</sup></b> <b>NB: [limited potential to reduce malpractice claims by US families with birth-injured infants]<sup>18</sup></b>
Explanations		<b>Comprehensive assessments of care during review<sup>13</sup>; Correspondence in care standard assessments (between services and external bodies)<sup>6</sup></b>	<b>Delays in settlements for families are mitigated<sup>6</sup> (possible reduction of costs)<sup>6</sup>; learning from cases for care systems improvements are increased<sup>6 13</sup></b>
		<b>Inclusion of family and carer understandings of events<sup>3 16</sup>, with understanding that common understanding of what happened might not be reached<sup>16</sup></b>	<b>Increases opportunities for learning from family experience of care across complete care pathway)<sup>3 16</sup>; reduces possibility of ongoing conflict if family listened to<sup>16</sup></b>
		<b>Investigations include clinical and legal experts (examining all relevant documents)<sup>6</sup></b>	<b>Investigations can bridge 'claims, safety and learning functions of the organisation'<sup>6</sup></b>
Consistency in Disclosure Process		<b>Formal, family engagement guidance (shared between services and between external organisations)<sup>6 16</sup> (and review tools<sup>23</sup>) co-developed with staff and parent advisors<sup>12 22</sup></b>	<b>Leads to more consistent information; shared resources<sup>16</sup>; that are relevant<sup>22 23 12</sup> and avoid duplication<sup>6</sup> are available to the service</b>
Navigation Strategies		<b>Named professional/patient representative or advocate to manage co-ordination of information between parents and clinicians<sup>5 26</sup></b>	<b>Leads to the provision of crucial infrastructure for improvement of 'Being Open' guidance<sup>6</sup> (more information and relational consistency between Trusts and</b>

			family <sup>26</sup> ) NB: [unclear if that person should be 'fully independent' of clinical team] <sup>5</sup> 26
DISCLOSURE DURING REVIEWS AND INVESTIGATIONS	When incident review and/or investigation initiated	Investigation Leadership that is expert in family liaison and includes risk management /governance team (not consultant in charge) <sup>10 22</sup>	Enhances the reliability and consistency of findings <sup>10</sup> ; the incorporation of action plans into clinical governance plans <sup>d 22</sup> and findings more likely to be underpinned by ethos of candour <sup>4</sup>
		Robust review/investigation process including whole care pathway (multi-agency <sup>27</sup> ; cross-department <sup>22</sup> ; multi-discipline <sup>21-24 28</sup> ); parents' perspective <sup>22</sup> ; external or independent peer-review <sup>13 22</sup> , and adequate RCA methodology <sup>13</sup> ;	Enhances learning from the incident by more comprehensive for improvement planning <sup>21-23 27</sup> ; encourages care variation and grading from a multi-disciplinary perspective <sup>22 28</sup> , along with the use of 'fresh eyes' to identify systems issues <sup>13 22 23</sup> to identify active and latent failure) <sup>13</sup> and the wider development of cross-sector relationships <sup>24</sup> . NB [but 17% reported PMRs 2018-19 completed by 1-2 same discipline clinicians) <sup>22</sup> ; 1:5 PMRs 2018-19 had external member input <sup>22</sup>
		Planning <sup>3</sup> and training <sup>28</sup> for multi-disciplinary/sector review/investigation (establishing ToR, leadership, expectations of contributions and time-lines reflecting complexity <sup>3 22</sup> (and building of cross-sector relationships) <sup>3</sup> ; investigators trained in RCA techniques <sup>3</sup>	Enhances reliability of review/investigation processes and completion in a realistic timeframe <sup>3 22 28</sup>
		Independent, structured peer-reviews underpinned by just culture approach <sup>13</sup>	Reduces risk of 'political hijack'; increases possibilities for the identification of systems-factors in development of action plans <sup>13</sup> NB [costs estimated as £2,100 per

			peer-reviewed case] <sup>13</sup> .
OUTCOMES OF DISCLOSURE PROCESS	System-Wide/QI Resolution	<b>Board and trusts governance teams invested in action planning for post-review improvement<sup>22</sup></b>	<b>Shared ownership of actions and system-level changes more likely<sup>22</sup></b>
		<b>Focus of national bodies on improvement processes rather than completion deadlines<sup>3</sup></b>	<b>Reduces focus by Boards on more immediate targets and greater focus on longer-term systematic change<sup>3</sup></b>
		<b>Integration/standardisation<sup>3</sup> of (internal; external) data collection/surveillance systems<sup>11</sup>; robust mechanisms to disseminate learning from investigations or benchmarking beyond single Trust<sup>3</sup> (e.g. across local maternity system); beyond single external bodies<sup>6</sup>; administrative support for Trusts to engage<sup>6</sup></b>	<b>Increases opportunities for national learning from local reporting<sup>11</sup>; possible reduction in repeated mistakes<sup>3</sup>; more rapid learning<sup>6</sup>; engagement possible<sup>6</sup></b>
		Ongoing review process/audit spirals or cycles <sup>29</sup>	Supports (re)evaluation of recommendations and their implementation <sup>29</sup>
	In-Case Resolution	<b>Meeting ongoing care requirements<sup>16</sup> (including offer of fair compensation, if admission of fault<sup>18</sup>; costs payments<sup>25 30</sup>; and informed sign-posting for expert follow-up<sup>16</sup></b>	<b>Diffuses anger towards individuals or service and may help to preserve relationship with family<sup>16 18 25 30</sup></b>
		Trust/employer recognition of duty of care to affected staff <sup>6</sup> ; investment in dedicated joined-up post-incident support <sup>6</sup> ; changed perspectives staff HR during investigation (e.g. time off work not a penalty) <sup>17</sup>	Leads to the development of joined-up and dedicated systems for effective post-incident staff support /workforce wellbeing/OH improvement <sup>6</sup> ; staff less traumatised/likely to feel penalised <sup>17</sup> ; staff more likely to be retained <sup>6</sup>
	Wider Social Influences	Professional insurance policies support participation in disclosure procedures <sup>8</sup>	Impact/use of disclosure protocols increases (and organisations promotion of disclosure work (and systems/team perspectives on issues for improvement not undermined) <sup>8</sup>
		Litigation fear and costs managed <sup>8 31</sup> (e.g. protected spaces <sup>3</sup> ); external agency interventions <sup>6 18</sup>	More reviews happen <sup>31</sup> ; open communication is more likely (expected to reduce complaint and litigation need <sup>3 6 18</sup> ; evidence that decreases malpractice costs <sup>8</sup> ; legal



			duty not breached <sup>3</sup>
		Consumer-perspective on incidents (personal/psychological <sup>1</sup> ), disclosure, involvement routinised <sup>15</sup>	Consumer experience is incorporated into wider patient safety issues <sup>15</sup> ; 'cultural shift' from bio-medical perspectives on incident <sup>1 15</sup>
		Increasing public pressure on policy makers <sup>11</sup> ; costs of clinical negligence claims (connected to marginalisation of families) <sup>6</sup>	High-level drivers on organisations to secure disclosure improvements <sup>6 11</sup>

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