



**Using a national archive of patient experience narratives to  
promote local patient-centred quality improvement: an  
ethnographic process evaluation of 'accelerated'  
Experience-based Co-design**

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1     **Using a national archive of patient experience narratives to promote local patient-**  
2     **centred quality improvement: an ethnographic process evaluation of ‘accelerated’**  
3     **Experience-based Co-design**

4     **Abstract**

5     **Objectives:** To evaluate an accelerated form of Experience-based Co-design (EBCD), a  
6     participatory action research in which patients and staff work together to improve  
7     quality; to observe how acceleration affected the process and outcomes of the  
8     intervention.

9     **Methods:** An ethnographic process evaluation of an adapted form of EBCD was  
10    conducted, including observations, interviews, questionnaires and documentary  
11    analysis. Whilst retaining all components of EBCD, the adapted approach replaced  
12    local patient interviews with secondary analysis of a national archive of patient  
13    experience narratives to create national trigger films; shortened the timeframe; and  
14    employed local improvement facilitators. It was tested in intensive care and lung  
15    cancer in two English National Health Service (NHS) hospitals. A total of 96 clinical staff  
16    (primarily nursing and medical), and 63 patients and family members participated in  
17    co-design activities.

18    **Results:** The accelerated approach proved acceptable to staff and patients; using films

1 of national rather than local narratives did not adversely affect local NHS staff  
2 engagement, and may have made the process less threatening or challenging. Local  
3 patients felt the national films generally reflected important themes although a  
4 minority felt they were more negative than their own experience. However, they  
5 served their purpose of 'triggering' discussion between patients and staff, and the  
6 resulting 48 co-design (improvement) activities across the four pathways were similar  
7 to those in EBCD but achieved more quickly and at lower cost.

8 **Conclusions:** Accelerated EBCD offers a rigorous and relatively cost-effective patient-  
9 centred quality improvement approach.

10 **Preferred keywords:** experience-based co-design, narrative, quality improvement,  
11 patient experience

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**Background**

*Measuring or improving patient experience?*

Measuring, understanding and improving patient experience is a priority for healthcare systems worldwide<sup>(1)</sup>. Policy documents in several countries describe ‘patient experience’ as a core component of care quality, drawing on frameworks for patient-centred care developed by, for example, the Picker Institute (following Gerteis et al.<sup>(2)</sup>) and the US Institute of Medicine<sup>(3)</sup>. The English NHS has led the way in measuring patient experience by introducing the first nationally mandated patient survey<sup>(4)</sup>.

Justifications for seeking to improve patient experience include moral humanitarian concern; the need to maintain political legitimacy in state-funded systems; and the need to increase/maintain market share in more competitive systems. A growing international body of evidence suggests patient experience, safety and clinical effectiveness are linked, showing positive associations between patient experience measures and both self-rated and objectively measured health outcomes<sup>(5, 6)</sup> as well as positive organisational outcomes<sup>(7-13)</sup>.

Despite the strong policy focus, some patients continue to report unsatisfactory experience in even the best funded health systems<sup>(14)</sup>. In England, recent

1 government policy has identified the lack of a genuinely patient-centred approach.  
2 Examples of poor care have dominated healthcare debate, the Francis Inquiry into  
3 Mid Staffordshire Hospital being the most widely reported<sup>(15)</sup>.  
4  
5 Robert and Cornwell<sup>(4)</sup> argue that the focus on experience surveys and targets may  
6 paradoxically have 'contributed to a tick-box or compliance mentality on the part of  
7 [hospital] management boards... [and] lulled them into thinking that they were paying  
8 attention to their patients' experiences'. Experience data presented to NHS hospital  
9 boards is often 'noted for information' rather than leading to action points and  
10 organisational learning<sup>(16)</sup>.  
11  
12 Failure to attend to basic human needs and dignity, as documented in the Francis  
13 Report, has resulted in numerous recommendations to re-educate healthcare staff  
14 and initiatives to improve compassion. No-one would dispute the importance of  
15 compassion and kindness, but the danger is that the energy behind this latest series  
16 of initiatives may produce more targets, tools, metrics and inspection, reinforcing  
17 the 'compliance mentality' as organisations work to measure how compassionate  
18 their staff are, rather than the more fundamental task of focussing on patients and

1 changing the culture to enable this to happen.

2 A large, growing body of quantitative and qualitative research<sup>(3, 17-19)</sup> already  
3 identifies aspects of care that patients and families think are important. The  
4 challenge is to find meaningful ways to enable organisations to learn from this  
5 evidence and move beyond data-gathering to *using patient experiences to improve*  
6 *care*<sup>(20-22)</sup>. Surveys provide useful information to make comparisons between sites  
7 and across time, but as a recent review of the impact of the UK National Inpatient  
8 Survey<sup>(23)</sup> concludes, ‘the inpatient survey is not in itself a quality improvement tool’  
9 and ‘simply providing hospitals with patient feedback does not automatically have a  
10 positive effect on quality standards’.

11 There is increasing interest in the use of in-depth qualitative research to gain richer,  
12 meaningful accounts of what being a patient is like, yet healthcare providers struggle  
13 to use qualitative experiential evidence for improvement<sup>(16)</sup>.

14 ***The Value of Narrative and Experience-Based Co-Design (EBCD)***

15 Narrative persuasion is an established psychological theory<sup>(24)</sup> demonstrating that  
16 narrative is a powerful way of accessing human experience, transporting us to another  
17 world and enabling us to see things through another’s eyes. Narratives can engage  
18 care providers, at a deep emotional level, in reflecting on how services could be

1 improved<sup>(25, 26)</sup>. Narratives are not gathered because they are assumed to be  
2 objective, accurate or verifiable but because they are uniquely human and subjective,  
3 describing not a fact or a reality but a recalled experience or set of experiences.

4 Experience-Based Co-Design (EBCD), a participatory action research approach, marks a  
5 significant contribution to using narratives and involving patients in quality  
6 improvement in healthcare<sup>(26)</sup>. The approach has been implemented in over 60  
7 services internationally and independently evaluated in both England and Australia<sup>(27-</sup>  
8 <sup>29)</sup>. It is effective in making specific improvements to particular services, as well as  
9 wider improvements within - and sometimes between – healthcare organisations.

10 EBCD projects typically last 12 months, beginning with a 6-month ‘discovery’ phase,  
11 in which local patients and staff are interviewed about their experiences of a service.

12 Patient narratives are video-recorded, and used to develop a ‘trigger film’ to  
13 stimulate discussion between staff and patients about potential quality  
14 improvements. The discovery phase is characterised by rigorous, narrative-based  
15 research with a broad sample, rather than relying on a few anecdotes. Equally  
16 important is the subsequent co-design phase, in which patients, families and staff  
17 join as partners in small working groups to set priorities for quality improvement,  
18 and design and implement changes.

1 However, the discovery phase is felt by staff to be lengthy and costly, and has been  
2 reported as a barrier to adoption of the approach<sup>(30)</sup>. Undertaking 5-6 months of  
3 qualitative interviewing on each pathway in each hospital is seen as impractical.

4 ***'Accelerated' EBCD and our research questions***

5 The Health Experiences Research Group (HERG) at the University of Oxford collects and  
6 analyses video/audio-recorded interviews with people about experiences of illness. It  
7 has an archive of around 3000 interviews, covering over 80 different conditions or  
8 topics. Selected interview extracts are disseminated for a lay audience on  
9 [www.healthtalkonline.org](http://www.healthtalkonline.org). In this study we investigated whether this archive could  
10 replace the need for local discovery interviews, thus making EBCD faster and cheaper;  
11 we describe this as accelerated EBCD or 'AEBCD'. By using national rather than local  
12 patient interviews, we aimed to halve the cycle from 12 to 6 months. Our research  
13 questions can be summarised as:

- 14 1) What improvement activities does the approach stimulate (for what cost) and how  
15 do these compare with traditional EBCD?
- 16 2) How does using films of national rather than local narratives affect the level and  
17 quality of engagement with service improvement by local NHS staff?
- 18 3) How well do local patients feel national narratives represent themes important to



1 their own experience?

## 2 **Methods**

3 The intervention was an adapted form of EBCD: we used national trigger films,  
4 shortened the time frame and employed local improvement facilitators (senior nurses  
5 or service managers in the participating hospitals who were trained in EBCD). It was  
6 tested in intensive care and lung cancer in two English NHS hospitals. 96 staff  
7 (primarily nursing and medical), and 63 patients and family members participated.

8 The trigger films were derived from secondary analysis of the Oxford University  
9 collections of patient experience interviews. We re-analysed all the interviews in the  
10 archive with people with lung cancer, and individuals and family members with  
11 experiences of intensive care. The local facilitators interviewed staff to understand  
12 their experience of providing care. Thereafter the process followed the usual EBCD  
13 pattern: the film was shown to local patients in a workshop; staff had a separate  
14 meeting to discuss the results of their own feedback. Staff and patients then came  
15 together in a further workshop to view the film, agree priorities for quality  
16 improvement and establish co-design working groups to take these priorities forward.

17  
18 An ethnographic process evaluation using multiple data sources was conducted to  
19 observe implementation in both pathways in each hospital. Ethnography can

1 contribute to process evaluation by providing rich accounts of activities, projects and  
2 programmes<sup>(31)</sup>. The ethnographer was in post throughout and was therefore able to  
3 observe all stages of the project. Data collection took place between November 2011  
4 and December 2012 including 155 hours of observations (of facilitator training  
5 sessions, staff and patient workshops, joint events, co-design meetings and celebration  
6 events, project steering group and core group meetings); 30 interviews (designed  
7 around the following themes: involvement in the project and perceptions of the  
8 process; project contribution to service delivery; and project sustainability and legacy);  
9 two group interviews with four patient participants to discuss their involvement and  
10 perceptions of the process during each step of the intervention; cost analysis; and four  
11 service improvement logs (tables listing local improvement activities completed by the  
12 facilitators). Interviews, training sessions and events were audio-recorded and  
13 transcribed. Observations and brief conversations were recorded as fieldnotes and 22  
14 reflective diaries were completed (standard forms e-mailed to project team members  
15 on a monthly basis to gather direct information and reflections on issues and concerns  
16 regarding the day-to-day running of the project). 166 evaluation questionnaires (self-  
17 completion questionnaires, identical to those used in previous EBCD projects) were  
18 distributed to all participants at the end of each event and collected by the evaluator.  
19 Reports from 12 previous EBCD projects were analysed for comparison.

1 Transcripts, documents, fieldnotes and emails were entered into NVivo. Coding was  
2 based on our research questions (see above), as well as emerging themes (such as  
3 different styles of facilitation and implementation). Data were tabulated using  
4 framework analysis, a method of drawing up summarised data by theme and by case  
5 into a matrix<sup>(32)</sup>. Data analysis involved the following stages: familiarisation with  
6 AEBCD and EBCD data; thematic analysis of qualitative data; tabulation and graphical  
7 representation of quantitative questionnaire and quality improvement data; indexing  
8 and developing a comparative framework based on key themes. Members of the  
9 project team refined the analysis at a two-day workshop.

## 10 **Results**

11 The accelerated approach proved readily acceptable to staff and patients; using films  
12 of national rather than local narratives did not adversely affect local staff engagement,  
13 and may have made the process less threatening or challenging. Local patients felt the  
14 national films generally reflected important themes although a minority felt they were  
15 more negative than their own experience. However, they served their purpose of  
16 'triggering' discussion and the resulting improvement activities were similar to those in  
17 EBCD, but this was achieved more quickly and at reduced cost.

### 18 ***Improvement activities and cost***

19 We recorded 48 co-design activities across the four pathways, and these were similar

1 in nature and scale to those typically seen in EBCD (see Box 1).  
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11 [Box 1 here]  
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13 Although small-scale changes and process redesign within one service area are the  
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15 most common result of both AEBCD and EBCD, it was observed that small-scale change  
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17 is often remarkably complex to implement, and what looks like a small change can be  
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19 immensely valuable to patients. Moore and Buchanan have recently referred to this as  
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21 ‘sweating the small stuff’<sup>(33)</sup>. For example ensuring an inpatient’s belongings follow  
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23 them as they move around the hospital seems a minor issue, but as the facilitator  
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25 involved in this change noted, being without your false teeth when talking to the  
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27 consultant is both practically difficult and humiliating.  
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35 Cost reductions were (as anticipated) in the ‘discovery’ rather than the ‘co-design’  
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37 phase; in AEBCD the cost of developing a trigger film was £8,289, compared to £30,485  
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39 for EBCD (see Box 2). In AEBCD this is a one-off cost so future projects would only incur  
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41 the co-design phase costs, which in this project were £20,276 (over half of which was  
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43 for facilitator salary). Full details of costings are reported elsewhere<sup>(34)</sup>.  
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51 ***Acceptability and impact - staff participants***  
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1 Previous evaluations have EBCD to be highly acceptable <sup>(27, 28, 35)</sup>. Before the study, we  
2 speculated that removing local patient interviews might negatively affect local  
3 ownership and engagement. In fact, the project was positively received by both  
4 patients and staff; results from post-workshop questionnaires suggested broadly  
5 similar satisfaction levels to traditional EBCD. The interviews and comments recorded  
6 during observations featured many positive accounts. The opportunity to hear directly  
7 from patients and carers had a transforming effect on some staff. One described  
8 herself as 'a better nurse because of it.' A facilitator commented:

9  
10 *The absolute core of it is the humanistic connections. Because of hearing*  
11 *patients', relatives' and staff experience it acts as a catalyst and gives you*  
12 *energy to keep going and make the change, and make sure it happens [...]*  
13 *So many people have echoed that without me saying anything. I have not had*  
14 *to convert people into this methodology now. People just get it and wonder*  
15 *why we've never done it before. (Facilitator, interview)*

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17 It was striking that the approach successfully engaged medical staff, a group often not  
18 closely involved in quality improvement projects <sup>(36)</sup>. One consultant reflected how the  
19 project gave staff an opportunity to see the person behind the patient:

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*'I think [AEBCD] is phenomenal [...] I don't have any idea, as a unit we don't have an idea of what is beyond what I'm seeing. This informs that process. So I can see that this person is not only a human being, but he is also a father, he is a son, he is a brother, he is a friend, he is a cousin, he's a plumber or an electrician, he is a sportsman, he has an interest in horse-riding, whatever it happens to be. He has a dog, he has a budgie, he has plans, he has expectations, he has regrets, he has feelings.'* (Consultant, intensive care, interview)

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A nurse reported her changed attitude immediately after the first co-design workshop:

*'I have already changed the way I think and care for patients even though we haven't started implementing changes yet. I have a better understanding now of how things are from the patients' perspective.'* (Nurse, intensive care, fieldnote of conversation)

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Our data suggest face-to-face encounters with patients in co-design groups often had a profound effect on staff in making them think differently about their practice and reconnect with their core professional values, resulting in renewed motivation. A senior manager reported that a staff member in intensive care had said it was the first

1 time in 20 years of practice that he had sat down and talked to patients in this way. A  
2 senior lung cancer nurse (unprompted) told a meeting of the project advisory group  
3 that it was the most inspiring thing in her professional career.

4 Critical aspects of the process included creating space to think and listen to others  
5 (both patients and colleagues):

6 *'I think the most important things were that staff really appreciated the time to*  
7 *think about the experience. It became apparent that they perhaps didn't have*  
8 *or make time to reflect on what they do in their daily workings, so I think they*  
9 *actually found it quite cathartic and therapeutic. [...] I think the staff really*  
10 *appreciated that their point of view was being listened to because up until that*  
11 *point the political drive had always been patient experience and now all of a*  
12 *sudden we were interested in staff experience.'* (Facilitator, interview)

13 One principle of EBCD is that seeing one's own patients talking about their experiences  
14 will be an especially powerful insight that motivates staff to rethink how care is  
15 provided. We were concerned that using films of national rather than local narratives  
16 might enable staff to distance themselves from the experiences shown and claim such  
17 things do not happen in their trust. Staff were therefore asked to rank their experience  
18 of seeing the national trigger film at the joint patient-staff co-design workshops. They

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1 consistently ranked the film and its representation of experiences more highly than  
2 patients at the same events, always ranking it as good or excellent. It was observed in  
3 one site that staff defended the film when patients said they felt some aspects were  
4 too negative and therefore not an accurate reflection of care in the trust (see below);  
5 staff felt able to challenge this perception, confirming that such things did indeed  
6 happen locally on occasion and sharing experiences of witnessing sub-optimal care.

7  
8 The observational data confirmed that the film achieved the goal of triggering thought,  
9 discussion and plans for action, and that using national narratives seemed to allow  
10 staff to engage comfortably with patient experiences.

11 One facilitator reflected that the use of national narratives may have helped staff feel  
12 less threatened by negative comments and able to externalise criticisms of care.

13 *It made me wonder that [...] if the DVD had been produced locally, and we were*  
14 *all in a room together, and that was maybe the first time that healthcare*  
15 *professionals had had feedback from patients, as to how potentially devastating*  
16 *that could have been [...]* *It did make me grateful that I didn't have to deal with a*  
17 *potential fallout if a patient had criticised a member of staff. [...] I think that*  
18 *potentially could have quite catastrophic effects. That's why I wondered whether*



1           *the Healthtalkonline actually minimised that risk.*

2       It is arguable that a degree of unsettlement amongst staff can be productive<sup>(36)</sup>, and  
3       ensure opportunities for deep emotional reflection and self-challenge. At the same  
4       time, a genuine staff-patient coalition is central to EBCD, and may be easier to achieve  
5       if staff do not feel personally criticised.

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#### 7       ***Acceptability and impact – patient/carer participants***

8       Intriguingly, patients and relatives sometimes felt the national films were more  
9       negative than their own experiences; this may be partly because people who volunteer  
10      for such projects feel positive about their local hospital and want to give something  
11      back for potentially life-saving care. However, the great majority of those present  
12      rated the film as ‘good’ (71%) or ‘excellent’ (14%) in answer to the questionnaire item  
13      ‘Seeing the film today - did you think it was a good representation of what it is like to  
14      be a [lung cancer/intensive care] patient at X NHS Trust?’ A few (8.5%) rated it as  
15      ‘average’ but no-one as a ‘poor’ representation of their experience. Data were  
16      incomplete for 6.5%).

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18      Workshop observations showed that after discussing the film, patients in both

1 pathways gradually revealed more things they felt had not gone well in their care, and  
2 began to reflect on aspects of care which could be improved. It thus seems to have  
3 served a similar role to the film in other EBCD projects – triggering discussion. Overall  
4 reflections on the process focus on the value of meeting with other patients/relatives  
5 and staff and getting truly involved in change.

6 *‘It was great to see you all at the “Patient Experience” event this week, what a*  
7 *wonderful thing it will be if we can contribute to and change what is already an*  
8 *incredible service that the intensive care department already provide - it makes*  
9 *me feel humble to be part of such a cause. Sorry to be gushing, but [facilitator]*  
10 *you truly are a guardian angel. I also feel that this experience should be shared*  
11 *with other hospitals as it seems they could learn a lot.’ (Patient, intensive care,*  
12 *email correspondence)*

13 A lung cancer patient contrasted AEBCD with normal consultation in which *‘people say*  
14 *I’ll do this, I’ll do that, and nothing happens’*. An intensive care participant said, *‘I feel I*  
15 *was really listened to’* and it was *‘much better than expected.’* Several expressed  
16 surprise that they had felt able to contribute as equal partners and that their views  
17 were taken seriously.

18 *‘I wondered what, if anything, will be taken on board. To be honest with you,*

1 everything has been taken on board, and that in itself was a complete surprise.'

2 (Patient interview)

3 Patients who presented at celebration events expressed strong support for the  
4 process. The ethnographer noted:

5 'There was a comment from a patient within the event who said that everything  
6 that had been discussed had been taken forward into improvements... 'our  
7 views were not dismissed, they were looked at and things changed'. 'Thank you  
8 for looking at the little things.' (Excerpt from ethnographer's field notes at  
9 celebration event)

## 10 **Conclusions - the fundamental importance of co-design**

11 This study was designed to answer specific questions about whether local patient  
12 discovery interviews in traditional EBCD could be replaced with a nationally derived  
13 trigger film, how this would affect patient and staff engagement, and whether this  
14 would affect the resulting quality improvement activities. For this study, we re-  
15 analysed just three of the interview collections in the archive. At the time of writing, it  
16 contains collections on over 80 different conditions, with more added each year. Sister  
17 projects have also been established in eight other countries under the auspices of the  
18 DIPEX International collaboration (see [www.dipexinternational.org](http://www.dipexinternational.org)). This is an

1 enormous potential resource for new films on a range of topics.

2 As the intervention progressed, it became increasingly apparent that agreement or

3 identification with the film content was not central. The purpose of the films in both

4 AEBCD and traditional EBCD is simply to ‘trigger’ discussion and enable people to share

5 ideas and concerns; then joint work to redesign care can begin. If national trigger films

6 are ‘good enough’ to initiate such conversations, local specifics can be brought into

7 discussion along the way, and even disagreement with the content can generate

8 productive discussion. But the element of the intervention that left both staff and

9 patients feeling energised and empowered is the direct mutual encounter, the active

10 partnership in co-design groups to achieve change, and the sense of tangible results.

11 A realist review of studies using participatory research<sup>(37)</sup> argues that the link between

12 process and outcome in participatory research can best be explained by the middle

13 range theory of ‘partnership synergy’<sup>(38)</sup>; that is to say, ‘multiple stakeholder

14 collaboration creates or enhances research outcomes beyond what could be achieved

15 by a single person or organization working under similar conditions’<sup>(36)</sup>. While on

16 occasion the result can be conflict and negative outcomes, the review demonstrates

17 that partnership synergy brings many benefits, including culturally and logistically

18 appropriate research; better quality of outputs and outcomes over time; increased

1 sustainability of project goals beyond funded timeframes; system changes; and new,  
2 unanticipated projects and activities. This resonates strongly with our findings, and is  
3 the antithesis of the problems underlying the Francis Report of failing to listen to  
4 patients or take their concerns seriously.

5 It is possible to implement improvements based on patients' experiences without  
6 involving them in the change process. Staff could be shown a trigger film or interview  
7 data previously collected from patients and then decide as a staff working group what  
8 needs doing. It is true that just seeing patient narratives on film can in itself have a  
9 powerful effect. But our observations suggest face-to-face encounters with patients  
10 have been even more transformative, inspiring and revelatory to staff in making them  
11 think differently about their values and practice. Having continued patient involvement  
12 helps ensure improvements really do address patient concerns and holds staff to  
13 account to see change through. Patients' physical presence constantly reminds  
14 everyone who change is for, and why it matters compared to other potentially  
15 overwhelming work pressures and demands. When staff report that this is the first  
16 time in 20 years that they have really talked to patients in this way or that it is the  
17 most rewarding thing in their careers, the potential of EBCD to reconnect staff with  
18 their fundamental values of care and compassion is striking. Patients, too, report a  
19 new level of appreciation for staff, a belief that they will be listened to and that change

1 is possible, and renewed trust in their local NHS.

2 There is limited evidence on the costs and cost-effectiveness of patient-centred quality  
3 improvement. In comparing EBCD and AEBCD, this study has for the first time analysed  
4 the costs of EBCD. The next stage is to understand more about relative cost-  
5 effectiveness as no quality improvement activity is cost-free; it requires staff time,  
6 energy and commitment to make it happen. We believe there may still be scope for  
7 further economies in developing trigger films, whilst ensuring they remain based on  
8 high quality research into patient experience.

9 As ever with in-depth qualitative research, our findings relate to a small number of  
10 sites and may not transfer easily to other contexts; further evaluation would be  
11 helpful. What we have demonstrated, however, is one way to implement a proven  
12 technique faster and more cheaply without undermining its effectiveness. But, perhaps  
13 more importantly, we believe it is an approach that can revitalise staff. This is  
14 supported by work demonstrating that staff experience and patient experience are  
15 closely linked <sup>(39)</sup>, providing a new way of stimulating compassionate care.

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Under Review

**Box 1 Comparison of improvement activities in AEBCD and EBCD**

Changes in the four AEBCD pathways were compared with those in two previous EBCD projects on breast cancer and lung cancer. The scale of the changes was similar. There were 28 activities across the two EBCD pathways, compared to 48 across the four AEBCD examples. There were similarities in terms of the co-design group topics. For example, two EBCD lung cancer groups focused on the same overall topics as the AEBCD lung cancer groups: information and diagnosis giving. There are also identical improvement actions in the EBCD and AEBCD lists. For example, name boards were introduced so that patients would know staff names and both groups identified the importance of a special, private room for diagnosis giving. Finally, there was a similar distribution of activities, with more small scale changes and process redesign within teams than wider process redesign between services and between organisations. An overview of the number and nature of changes in EBCD and AEBCD is given below:

	Small scale changes	Process redesign with teams	Process redesign between service activities	Process redesign between organisations
EBCD	12	12	2	2
<i>Examples</i>	<i>reviewing and improving patient information; regular updates on waiting times for patients in clinic</i>	<i>designated phlebotomist to reduce waiting time for blood tests</i>	<i>physiotherapists reviewed timing to give patients advice about exercise</i>	<i>link nurse scheme to improve cross-site working and cross-site visibility of test results</i>
AEBCD	21	21	5	1
<i>Examples</i>	<i>sourcing clocks to aid patient orientation in ICU; more comfortable V-shaped pillows for post-operative patients</i>	<i>new private room identified for receiving support after diagnosis; introducing mini 'Schwartz rounds' on ICU</i>	<i>changed process for porters to remove waste avoiding ICU rest times; redesigned discharge summary with input from all professions</i>	<i>improved cross-site information booklet for patients transferring to another hospital for surgery</i>

Box 2 – Comparison of costs between AEBCD and EBCD				
Activity	EBCD per pathway (based on the budget for a previous study funded by the Guy's and St Thomas' Charity)		AEBCD per new pathway	
<i>Fieldwork to collect patient narratives &amp; staff interviews (and non-participant observation)</i>	– Full-time researcher salary for 6 months (incl. LA & NI)	23375	Not applicable	0
	– Researcher travel & subsistence	300		
	– Transcription costs	1000		
<i>Production of 'trigger' films</i>	– Editing film	1100	– Researcher time	5289
			– Editing	3000
<b>TOTAL</b>		<b>30485</b>		<b>8289</b>