Quality improvement and person-centredness: a participatory mixed methods study to develop the ‘always event’ concept for primary care

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ABSTRACT
Objectives: (1) To ascertain from patients what really matters to them on a personal level of such high importance that it should ‘always happen’ when they interact with healthcare professionals and staff groups. (2) To critically review existing criteria for selecting ‘always events’ (AEs) and generate a candidate list of AE examples based on the patient feedback data.

Design: Mixed methods study informed by participatory design principles.

Subjects and setting: Convenience samples of patients with a long-term clinical condition in Scottish general practices.

Results: 195 patients from 13 general practices were interviewed (n=65) or completed questionnaires (n=130). 4 themes of high importance to patients were identified from which examples of potential ‘AEs’ (n=8) were generated: (1) emotional support, respect and kindness (eg, “I want all practice team members to show genuine concern for me at all times”); (2) clinical care management (eg, “I want the correct treatment for my problem”); (3) communication and information (eg, “I want the clinician who sees me to know my medical history”) and (4) access to, and continuity of, healthcare (eg, “I want to arrange appointments around my family and work commitments”). Each ‘AE’ was linked to a system process or professional behaviour that could be measured to facilitate improvements in the quality of patient care.

Conclusions: This study is the first known attempt to develop the AE concept as a person-centred approach to quality improvement in primary care. Practice managers were able to collect data from patients on what they ‘always want’ in terms of expectations related to care quality from which a list of AE examples was generated that could potentially be used as patient-driven quality improvement (QI) measures. There is strong implementation potential in the Scottish health service. However, further evaluation of the utility of the method is also necessary.

INTRODUCTION
Over 2000 years ago (ca. 460–370 BC), Hippocrates taught that “It is more important to know what sort of person has a disease than to know what sort of disease a person has.” Recently, continuing advances in medical science and technology have contributed to major achievements in disease prevention and effective clinical care management, and also to the creation of a clinician and disease-centred model of healthcare. Consequently, there is now a growing recognition of the essential need to take a ‘person-centred’ approach to further improving service quality, clinical outcomes, and the patient’s experience. While a raft of patient experience and satisfaction surveys are available, routinely capturing meaningful feedback from the patient’s perspective is problematic and is only the first step in further improving the quality and safety of healthcare.

The ‘always event’ (AE) concept (originally developed by the US-based Picker Institute)
offers a person-centred approach to quality improvement (QI) that may further optimise different aspects of the patient’s experience of their healthcare, and which can potentially be used routinely within many care settings. An ‘AE’ can be defined as “…a clear, action-oriented and pervasive practice or set of behaviours that, when implemented reliably, will ensure an optimal patient and family experience and improved outcomes.” A simple example might be that a patient “always wants to know what happens next” after a clinical consultation. In other words, AEs are those actions and behaviours of healthcare organisations, teams, professionals and staff that create a satisfactory experience for patients.

The AE method is strongly rooted in identifying and considering quality-of-care issues that are highlighted by patients, families and carers as being of great importance to them personally. It ‘plays opposite’ to, but is correlated with the systems-centred development and implementation of Never Event lists (of serious patient safety incidents that should never happen if the appropriate mitigation strategies are in place) to facilitate the reporting of adverse events and near misses, collective learning and improvement to make healthcare safer.

However, a key feature of the AE approach is its ‘open architecture’ in preference to a discrete and prescriptive list of ‘AEs’ for all or even specific care settings. The perceived advantage of an ‘open’ engagement approach is that organisations and teams can identify and contextualise their own patients’ priorities, and also adapt AEs to a constantly changing healthcare environment. Application of the same engagement process will, therefore, most likely produce different lists of AEs which are of great importance to the care-related needs and wants of specific local patient groups.

A recent review of empirical studies concerned with measuring patient experience, and a general search of common bibliographic databases does not appear to highlight any examples of the AE approach in the published literature. However, a number of funded research programmes are reportedly underway in US-based healthcare settings focused on, for example, overcoming the improvement challenges associated with patient–provider communication issues, pain control and comfort, and the prevention of falls.

Against this background, therefore, the purpose of this study was to ascertain from patients in a primary care setting what really matters to them on a personal level of such high importance that it should ‘always happen’ when they interact with healthcare services, professionals and staff groups. Furthermore, we aimed to critically review the applicability of existing criteria for selecting AEs to the Scottish primary care context, before generating examples of AEs based on the patient feedback study data collated, and demonstrating how these could potentially be implemented for QI purposes.

### Box 1 Conceptual definitions and principles

#### Quality Improvement

The conception of improvement finally reached… was to define improvement as better patient experience and outcomes achieved through changing provider behaviour and organisation through using a systematic change method and strategies.

#### Person-centred care

Health Foundation framework comprising four principles of person-centred care:

1. Affording people dignity, compassion and respect
2. Offering coordinated care, support or treatment
3. Offering personalised care, support or treatment
4. Supporting people to recognise and develop their own strengths and abilities to enable them to live an independent and fulfilling life

### METHODS

#### Conceptual definitions and principles

While a simple operational definition of what is understood by ‘QI’ in healthcare is readily available, adequately defining ‘person-centredness’ is arguably more problematic because it is an emerging and evolving concept. In recognising this definitional limitation, the UK Health Foundation has identified a framework that comprises four principles of person-centred care which should underpin any improvement intervention (box 1).

#### Setting

**Scottish general medical practices**

**Study design, subjects and data collection**

A mixed methods study, informed by participatory design principles, utilising brief semistructured interviews and short cross-sectional questionnaire surveys was conducted with convenience samples of patients identified as having a long-term clinical condition (eg, type II diabetes, or chronic pulmonary obstructive disease) over a 1-week period in April 2014. Participatory design is a flexible user-centred approach which attempts to actively involve all relevant stakeholders (eg, patients, healthcare professionals, policymakers, researchers and academics) in the design process, so that the outcome meets their needs, and both feasibility and usability are enhanced.

Prior to this, three groups of practice managers were emailed with study details and asked to volunteer to participate: group 1 were members of the National Learning and Development Network of practice managers, and groups 2 and 3 were based in NHS Ayrshire and Arran and NHS Lanarkshire health board areas, respectively. Participating managers conducted a brief interview with five consenting patients, and recruited a further 10 consenting patients to self-complete a short questionnaire while attending practice appointments. A dual purpose data collection proforma (to prompt interview questions and use as a questionnaire survey) consisting of three interlinked questions was adapted by the authors from similar work for these tasks (box 2).
Data analysis
Qualitative and quantitative data were uploaded to an Excel spreadsheet, treated as a single dataset and subjected to basic content analysis or descriptive statistical analysis by JF. For the qualitative data, themes and sub-themes of relevance were then generated, which were checked against the original data sources by PB. Disagreements were resolved by joint checking of data and themes to reach consensus.

Redesign and application of ‘AE’ criteria
A development group (consisting of frontline general practitioners (GPs), a practice manager educator, clinical and health psychologists, GP educators and QI experts) adapted the existing selection criteria by applying similar validation methods to those used for generating Never Events to make them more relevant and feasible for Scottish primary care settings. The adapted criteria were then applied jointly by three authors (DM, PB and CdW) to the study themes and linked quotations to generate potential AEs. This was achieved by developing a potential AE statement that was explicitly based on the verbatim phraseology and words used by patients, and which was judged by the three authors to best reflect the findings summarised in that specific study theme—a pragmatic and subjective task that practice teams will have to undertake to generate local AEs with a degree of face validity. Each generated AE was then linked to practice systems or professional behaviours that were potentially amenable to routine measurement for QI purposes. The wider group then considered the adapted criteria and potential AEs, and discussed their relevance, clarity and feasibility via electronic mail and face-to-face discussions on an iterative basis until consensus was reached on a final candidate list of AE examples.

RESULTS
Response rate and demographics
Thirteen general practices participated, which equates to 65 patient interviews and questionnaire completion by a further 130 patients (n=195). The demographic characteristics of participating practices are outlined in Table 1.

The following four themes of high importance to patients were identified.

Emotional support, respect and kindness
It was of great importance to patients that all the clinical and administrative staff they interacted with smiled, adopted a friendly attitude towards them and acted in a pleasant and polite manner. Patients want to be treated with full respect on a personal, empathic basis as distinct individuals at all times by staff groups, rather than feel they were ‘just a number’ or ‘just another patient’.

It should be friendly and efficient and I should always be No.1
All staff should be polite and pleasant towards patients
That you are treated with respect at all times
Being treated as an individual—not next in line, but don’t feel this is a problem
Someone shows genuine concern for any matter that I present with.

Clinical care management
How their problems, diagnosis and illness are managed was viewed as an important care priority by patients. For example, that symptoms are not ignored, that healthcare professionals are knowledgeable about their condition and its treatment, and that patients feel confident in the

Table 1 Demographics and characteristics of participating general practices (n=13)

<table>
<thead>
<tr>
<th>Practice factors</th>
<th>Participating general practices (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participating health boards</td>
<td></td>
</tr>
<tr>
<td>NHS Ayrshire and Arran</td>
<td>4</td>
</tr>
<tr>
<td>NHS Greater Glasgow and Clyde</td>
<td>2</td>
</tr>
<tr>
<td>NHS Highland</td>
<td>2</td>
</tr>
<tr>
<td>NHS Lanarkshire</td>
<td>4</td>
</tr>
<tr>
<td>NHS Shetland</td>
<td>1</td>
</tr>
<tr>
<td>Training practice accreditation</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>9</td>
</tr>
<tr>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td>Type of practice</td>
<td></td>
</tr>
<tr>
<td>Remote and rural</td>
<td>2</td>
</tr>
<tr>
<td>Semi-rural</td>
<td>3</td>
</tr>
<tr>
<td>Urban</td>
<td>8</td>
</tr>
<tr>
<td>Inner city</td>
<td>0</td>
</tr>
<tr>
<td>Size of practice population</td>
<td></td>
</tr>
<tr>
<td>&lt;5000</td>
<td>5</td>
</tr>
<tr>
<td>50 001–10 000</td>
<td>5</td>
</tr>
<tr>
<td>&gt;10 000</td>
<td>3</td>
</tr>
<tr>
<td>Active patient participation group</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>No</td>
<td>12</td>
</tr>
<tr>
<td>Routine patient input to practice developments</td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td>3</td>
</tr>
<tr>
<td>No</td>
<td>10</td>
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</table>
skills and expertise of clinical staff. Specifically, they identified that it was important to them that clinical conditions are diagnosed correctly and in a timely manner, and that the treatment given is always appropriate to the condition.

The correct treatment in accordance with my past medical history

That I receive it when I want it. It is free and I do not have to pay for it. It is delivered quickly. It is given to me by people who are properly qualified and understand my needs

It matters a lot to me that I receive good care which I do, as this allows me to continue working and doing the many things I do.

Communication and information

It was important for patients that they felt able to speak freely to healthcare professionals about their condition, and that they were being genuinely listened to. Similar views were expressed in terms of the importance of being engaged by, and listened to by frontline reception and administrative staff. It was important also for patients to have their problems, test results, diagnosis, treatment and prognosis explained in a timely manner and in a way that is clearly understood by them, but is not patronising.

That you can ask the GP anything you need to and to understand what they say because they are saying it using word and language you understand. That they talk to you, not look at the book or computer...

The appreciation by reception staff that patients (more often than not) actually do need some consultation with someone whom they find approachable and whose diagnoses and judgement they trust

I feel that when I leave the surgery that I have had a positive outcome e.g. any questions that I had have been answered and even more importantly that I have been listened to.

Access to, and continuity of, healthcare

Being able to easily contact the surgery to make an appointment was mentioned by a majority of participants as being of great importance to them. However, some participants stated that at certain times of the day, for example, in early morning, it was difficult to access an appointment by telephone and this was a continual source of frustration. The ability to make appointments for a time that suits the patient was frequently mentioned as important to them, whether it is on the same day, with 48 h or a few weeks in advance. Being seen by the GP or practice nurse close to the time of the allocated appointment time, and not being kept waiting, was also viewed as important. Being able to request to be seen by a specific doctor or nurse on a routine basis was important for many patients, particularly given their long-term clinical conditions.

The ability to book appointments in advance with a GP of my choice and at a time convenient to me

Being able to arrange appointments around work and family commitments

That we are able to access a doctor or practice nurse ‘on the day’ for important problems...

Prefer to see same GP every time and if given bloods want to know exactly what the results are...

That I should be able to see the nurse/doctor I always see and have confidence in...

Candidate AE list

A preliminary candidate list of eight ‘AEs’ was generated (table 2) based on the redesigned selection criteria (table 3) that were applied to the feedback data from patients. Each AE was linked to how it could be perceived by patients in everyday ‘real-life’ interactions with the practice together with suggestions on how practices could facilitate related measurement for improvement using existing or new systems or processes.

DISCUSSION

To the best of our knowledge, this small study is the first known attempt to develop and refine the AE concept in the primary care context. The outcomes strongly suggest that this method can translate to the primary care setting, that is, practice managers were able to collect data from patients on what they ‘always want’ in terms of expectations and desires related to care quality in general practice, which can potentially inform the development of localised lists of AEs or, for example, related care bundles. However, the identification of ‘AEs’ is only the first step in their use as a potential QI method. The next step involves practices implementing changes and measuring performance to ensure that AEs consistently occur. Further evaluation of this process, including identification of educational needs for practices, will also be necessary.

The study also provided an opportunity to reflect upon, refine and contextualise the original definitional criteria for selecting AEs for potential implementation in the Scottish primary care setting. This allowed us to generate a candidate list of AE examples based on the patient data collected, but we do not suggest that these should necessarily be considered for use by practices as we undertook this task more as a ‘proof of principle’. The preliminary events we arrived at are merely offered as examples to illustrate how a care team can implement a flexible process and apply the selection criteria to derive possible AEs of interest. The implication is that this can then help drive person-centred QI which...
<table>
<thead>
<tr>
<th>Examples of candidate ‘Always Events’</th>
<th>What would it look like to the patient?</th>
<th>Link to care process?</th>
<th>How to measure—specific example (subset of patients?)</th>
<th>Feasibility</th>
</tr>
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<tbody>
<tr>
<td>1. “I want to be able to get through on the telephone to reception quickly”</td>
<td>Telephone would be answered within 1 min. If the practice has a call queuing system—call transferred to operator within 1 min</td>
<td>Technology—to direct phone calls efficiently to correct member of staff ▶ Manager to ensure enough staff are present to answer phones and prioritise this based on demand</td>
<td>▶ Measure time to answer phone. Performed by manager at several points through the day ▶ Time until speak to operator in call queuing system ▶ Patient satisfaction with access</td>
<td>▶ Yes but may have staff implications ▶ Technological solution may have cost implications</td>
</tr>
<tr>
<td>2. “I want to access a doctor or nurse on the day when I have a problem that is important to me”</td>
<td>When calling, patient is asked if they need to see or speak to a clinician that day</td>
<td>A standard script is developed for telephone staff ▶ Staff ask all patients if they feel they need to see or speak to a clinician that day</td>
<td>▶ Observation of call handling ▶ Patient satisfaction questionnaire results</td>
<td>▶ This may be feasible depending on current systems and demand ▶ It may have staff and therefore cost implications ▶ Yes</td>
</tr>
<tr>
<td>3. “I want to arrange appointments around my family and work commitments”</td>
<td>When patient phones for appointment they are offered appointments in advance at varying times through the day. This may involve waiting for appointments ▶ Patients are seen within 30 min of appointment time</td>
<td>▶ A standard script is developed for telephone staff ▶ Staff ask all patients if they feel they need to see or speak to a clinician that day</td>
<td>▶ Observation of appointment handling ▶ Patient satisfaction results</td>
<td>▶ Yes</td>
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<tr>
<td>4. “I want to be seen at or near to my appointment time”</td>
<td>▶ Staff warn patients if clinician is running late and they are offered another appointment ▶ Pre-bookable appointments are created for each clinician</td>
<td>Measurable in computer appointment booking system ▶ Data for average time after appointment time that patients are called into the clinician’s room</td>
<td>▶ Pre-bookable appointments are on the system 4 weeks in advance</td>
<td>▶ Not always possible, as clinicians may need to deal with emergencies or an urgent house call may be required that requires the GP to leave the practice. This may occur in a single handed practice</td>
</tr>
<tr>
<td>5. “I want to see the doctor or nurse who best knows me”</td>
<td>When the patient books an appointment, they are asked who they wish to see and are given an appointment with them. This may involve a longer wait</td>
<td>▶ Staff are to routinely ask this information and it is embedded within their telephone script ▶ Pre-bookable appointments are created for each clinician</td>
<td>▶ Observation by practice manager to ensure all patients asked this information ▶ Patient satisfaction questionnaire results ▶ Retrospective audit of who saw patient</td>
<td>▶ Yes</td>
</tr>
<tr>
<td>6. “I want all practice team members to show genuine concern for me at all times”</td>
<td>Patients feel they are able to speak freely, that staff show empathy towards them, allow them to speak and actively listen to them</td>
<td>Staff training on communication skills and active listening. Use of empathy and key phrases for staff embedded in telephone ‘script’</td>
<td>▶ Observation of staff, patient satisfaction questionnaire relating to staff interaction with patients</td>
<td>▶ Yes</td>
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</table>
### Table 2  Continued

<table>
<thead>
<tr>
<th>Examples of candidate ‘Always’</th>
<th>What would it look like to the patient?</th>
<th>Link to care process?</th>
<th>How to measure—specific example (subset of patients)?</th>
<th>Feasibility</th>
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<td>N Events’</td>
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<td>7. “I want the correct treatment for my problem”</td>
<td>Patient-centred treatment given that is evidence-based, when appropriate</td>
<td>Clinicians with up-to-date skills. An active educational programme is in place within the practice to help identify and address needs. Learning and its impact will be included in appraisal</td>
<td>Options may include case note review to assess if correct treatment was given, audit of outcome of referrals and review of prescribing data</td>
<td>Yes</td>
</tr>
<tr>
<td>8. “I want the clinician who sees me to know my medical history”</td>
<td>Patients are made aware that the clinician knows their history. Not having to retell the whole story, being aware of the outcome of appointments, results and current medication</td>
<td>Up-to-date clinical information including coding is correct. Protocols are in place for medicines reconciliation and results handling systems</td>
<td>Patient satisfaction questionnaire results Audit of accuracy of coding Audit of medicines reconciliation and results handling bundles</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Table 3 Comparison of original and redesigned selection criteria for always events (AEs)

<table>
<thead>
<tr>
<th>Original AE selection criteria</th>
<th>Redesigned AE selection criteria by NES development group</th>
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<tbody>
<tr>
<td>1. <strong>Important</strong>: Patients have identified the experience as fundamental to their care</td>
<td><strong>An Always Event</strong>…</td>
</tr>
<tr>
<td>2. <strong>Evidence-based</strong>: The experience is known to be related to the optimal care of, and respect for, the patient</td>
<td>1. Is any healthcare interaction, process or outcome that is judged by patients, carers or relatives to be a highly important determinant of care quality and experience; AND</td>
</tr>
<tr>
<td>3. <strong>Measurable</strong>: The experience is specific enough that it is possible to accurately and reliably determine whether or not it occurred</td>
<td>2. Is unambiguous and specific to enable reliable measurement; AND</td>
</tr>
<tr>
<td>4. <strong>Affordable and sustainable</strong>: The experience can be achieved by any organisation without substantial renovations, capital expenditures or the purchase of new equipment or technology</td>
<td>3. Is consistently deliverable to applicable patient groups by all relevant healthcare organisations, teams and individuals; AND</td>
</tr>
</tbody>
</table>

NHS, NHS Education for Scotland.

Additionally, the ‘evidence-base’ criterion may lead to the premature exclusion of potentially useful AEs, given the relative lack of evidence for some healthcare interventions in different settings.

A further difference is the addition of the criterion that an AE “can consistently be delivered…to every patient by all relevant individuals…” In other words, for a care interaction, process or outcome to be an ‘AE’, its successful delivery should be completely operator dependent. For example, consider the following potential ‘AE’ that a patient proposed: “The person I speak to has access to my records…” The statement fulfils three of the four selection criteria: it is of importance to the patient and it is unambiguous, measurable and potentially feasible. However, factors outwith a clinician’s control may make it impossible to deliver this experience and expectation at all times (eg, interruption to power supply to the practice, hardware issues, or human–computer interaction problems). The final difference is that the criterion ‘affordable and sustainable’ was reworded as ‘feasible’ (ie, ‘possible and practical to do easily or conveniently’). Feasibility includes affordability and sustainability but also time, weighting of competing priorities and consideration of local contextual influencers.

Comparison with existing literature

Our findings are comparable with the research undertaken by the Picker Institute, which informed development of the AE concept.23–25 They found that patients’ ‘wants’ from healthcare are universal and consistent and include: (1) easy access to coordinated, integrated care; (2) effective communication; (3) reliable, understandable and useful information; (4) physical comfort, emotional support, and to be treated with respect; (5) continuity/seamless transitions and (6) involvement of family and friends. So, while our findings are not unique and are arguably rather ‘obvious’, they do have value, because in addition to explicitly linking the person-centredness and QI agendas, there is very limited empirical data related to what patients actually want and expect from high-quality general practice care.7 8

Strengths and limitations

One of the principles of the AE approach reflected in the study design is that improvements are informed by the desires and preferences of patients, rather than on the assumptions of care providers about their wants and needs. A specific strength of the study, therefore, is the participatory design method adopted which involved the co-development and testing of the AE process in a partnership between patients, managers, clinicians, educators and academic leaders representing a range of frontline groups, health authorities, educational organisations and national government. We also adopted a pragmatic but methodical approach to rapid data collection, analysis and consensus building to add a degree of rigour to the process. Finally, we focused on patients with long-term clinical conditions because they have good experience and knowledge of care process interactions with GP surgeries, healthcare professions and staff which would be beneficial to our study aims.

The limitations include the potential for bias from over-representation of practices with specialty training accreditation, and the use of a small convenience sample of volunteer enthusiasts. Including broader groups of patients who were more representative of local GP populations may have identified other issues of importance to them. Patients may not have been as forthcoming in terms of offering views on what is important to them because of the data collection methods employed, for example, practice managers were not trained in interview techniques, while short questionnaires may not be the most rigorous method for capturing this type of largely qualitative data. Additionally, we did not collect data on how many patients in total were approached before the requested interview and survey numbers were achieved. A more in-depth qualitative approach using purposive samples of patients may have yielded deeper insights.
Potential implementation of the AE method

In terms of developing a process to measure compliance with selected AEs as a means to monitor and drive improvements in patient experience and care quality, then it is possible that the ‘care bundle’ method (eg, around the respect and kindness theme highlighted in this study or related local issues identified by practices) could be usefully linked to feedback from patient survey tools or internal observations of staff behaviours, or from existing patient opinion infrastructure.

The person-centredness and QI agendas form a key (but underdeveloped) element of, for example, general practice specialty training, medical appraisal and regulation, the Scottish Patient Safety Programme, the pay-for-performance Quality and Outcomes Framework, and arrangements for continuing professional development in the UK, thereby providing a range of potential opportunities to introduce the AE method into routine healthcare practice as part of existing educational and QI obligations. However, it is clear that care teams will require educational support to develop processes to help them collect relevant data, identify AEs, measure compliance and make meaningful improvements in care within their own work contexts.

CONCLUSIONS

This small study has taken the first steps in establishing a ‘proof of principle’ for ‘AEs’ as a person-centred QI method in this primary care setting, and providing some evidence of the possibilities. We would support the ‘open architecture’ concept of empowering local care teams to engage with their patient populations to co-develop and test their own priority AEs, but also share access to these examples as part of developing a wider person-centred community of practice within healthcare—a key development stage of the AE programme that is recommended.

Although it is clear that there is strong implementation and spread potential with regard to embedding the AE approach within and across a range of educational, safety improvement and contractual initiatives in the Scottish health service, further testing and evaluation of the utility of this care improvement method with more diverse patient groups, general medical practices and other health sectors is clearly necessary.

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