

Assessing organisational readiness for change: use of diagnostic analysis prior to the implementation of a multidisciplinary assessment for acute stroke care.

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Abstract

Background

Achieving evidence-based practice in health care is integral to the drive for quality improvement in the National Health Service in the UK. Encapsulated within this policy agenda are challenges inherent in leading and managing organisational change. Not least of these is the need to change the behaviours of individuals and groups in order to embed new practices. Such changes are set within a context of organisational culture which can present a number of barriers and facilitators to change. Diagnostic analysis has been recommended as a precursor to the implementation of change to enable such barriers and facilitators to be identified and a targeted implementation strategy developed. Although diagnostic analysis is recommended, there is a paucity of advice on appropriate methods to use.

Methods

A mixed method approach to data collection was used. Twenty staff with strategic accountability for stroke care were purposively sampled to take part in semi-structured interviews. Six recently discharged patients were also interviewed. Focus groups were conducted with one group of registered ward-based nurses (n=5) and three specialist registrars (n=3) purposively selected for their interest in stroke care. All professional staff on the study wards were sent the Team Climate Inventory questionnaire (n=206). This elicited a response rate of 72% (n=148).

Results

A number of facilitators for change were identified including: stakeholder support; organisational commitment to education; strong team climate in some teams;

exemplars of past successful organisational change; positive working environments. A number of barriers were also identified including: unidisciplinary assessment/recording practices, varying in structure and evidence-base; weak team climate in some teams; negative exemplars of organisational change; uncertainty created by impending organisational merger.

Conclusions

Diagnostic analysis had been recommended as a precursor to change, however a specific methodological approach had not been proposed. This study used a combination of qualitative and quantitative methods to ensure that a range of data and respondents were included. The findings supported the use of leadership, a multidisciplinary guideline development group, evidence-based guidelines for assessment linked to a new recording system and education as part of a combined strategy to implement changes in local stroke assessment practice.

Background

Achieving evidence-based practice in health and social care is integral to the drive for quality improvement in the NHS [1]. Encapsulated within this policy agenda are challenges inherent in leading and managing organisational change. Not least of these is the need to change the behaviours of individuals and groups in order to embed new practices. Such changes are set within a context of organisational culture, resources, economic and political factors which can create uncertainty[2]. A recent systematic review by Shaw et al. [3] emphasised that while some strategies to change professional behaviour are successful, others may not exert a positive impact due to barriers operating in local settings, which can vary over time. Such barriers operate at

the level of the individual but also in conjunction with the social and organisational contexts of care provision [3,4]. However, facilitators for organisational change can also be present and it is essential to identify these prior to implementing new practices, for example through evidence-based standards and guidelines, opinion leadership, education or other strategies likely to improve the uptake of an innovation [5,6]. Strategies which are designed or ‘tailored’ to overcome barriers [3] and maximise the impact of facilitators are most likely to embed change [7], although the evidence from the small number of studies which have addressed this is not conclusive. The question then is, how to diagnose and assess the likely impact of these barriers and facilitators in any organisational setting.

Diagnostic analysis is a process for assessing organisational readiness for change, which incorporates some of the constructs identified in models of change and organisational development. A diagnostic analysis requires information gathering prior to the implementation of change and is designed to identify the complexities (barriers and facilitators) within an organisation which may frustrate or facilitate the uptake of change [8]. Elements of diagnosis are evident in some stage models of change, notably the preliminary stages of force field analysis [9]; social marketing [10] and the ‘precede/proceed’ model of Green and Kreuter [11]. Contextualist approaches, which do not align with rational-linear stage models (such as Lewin[9]), also emphasise the need to consider internal organisational factors (past history of change, culture, social networks, political and economic environment) in assessments of readiness to implement an innovation[12].

Shaw et al. [3] have commented that more research is needed to identify and overcome barriers to implementation. Comparatively few studies that have employed diagnostic analysis have discussed the methodological approaches used in any depth. Exceptions include Turrell [13] who used semi-structured interviews and a documentary analysis to identify internal and external factors which could impact on the production of nursing practice guideline documentation. A systematic review by Davis et al [14] concluded that interventions were most likely to change medical practice when informed by a preliminary analysis of educational needs and barriers to change identified using survey methods. In the South Thames Evidence-Based Practice Project (STEP) a range of formal and informal diagnostic methods was used to elicit views and opinions of key stakeholders (patients, staff) encompassing assessments of work environment, semi-structured interviews, focus groups, questionnaires, documentary analysis (case-notes, Trust strategies, policies), direct observation and structured reflection by change agents using field diaries [7,15]. In contrast, Newman et al. [16] conducted a rapid organisational appraisal utilising formal and informal interviews, focus groups, observation of meetings and clinical practice to identify organisational barriers for change.

This study used a combination of qualitative and quantitative methods to identify potential barriers and facilitators to the implementation of evidence-based practice in multidisciplinary stroke assessment in an acute hospital setting.

Methods

Aims and Objectives

Specific aims were to identify barriers and facilitators for change to multidisciplinary stroke assessment and to utilise the information obtained to inform a change management approach tailored to local context. Specific objectives were to identify past experiences of change in the Trust, to evaluate the extent and nature of multidisciplinary team working and to secure early ownership of the project from key stakeholders (health professionals, managers, and patients).

Ethical approval for the study was granted by the Local Research Ethics Committee.

Setting

The study was conducted in an acute NHS Trust (600 beds) over a six month period and formed Stage I of a larger study. At the time, the Trust did not have a Stroke Unit and patients were admitted to one of nine medical/care of the elderly wards.

Sampling Framework and Methods

Four data collection methods were used: documentary analysis of 6 publicly available Trust documents; 2 focus groups with 8 ward-based professional staff; interviews with 20 senior professional staff and 6 recently discharge patients; and a questionnaire to all professional staff involved with stroke care at the Trust (n=206) producing a 72% response rate (n=148).

Documentary Analysis: was conducted on 6 authentic, verifiable Trust documents in the public domain to obtain evidence on strategies supporting evidence-based practice, clinical effectiveness and quality outcome measures used by a range of professional groups. Furthermore, decision making structures in the organisation,

policies for staff development, multiprofessional working and resources available to support the implementation of practice change were identified together with networks for the dissemination of information. The range of documents analysed included annual reports, research and development reports, Trust profile, nursing and midwifery strategy and five year vision for health service delivery. Documentary data were abstracted and analysed thematically using a structured framework [17,18].

Interviews and Focus Groups: were used to elicit the views and experiences of professional staff who would be affected by changes in stroke assessment and recording. Twenty staff with strategic or operational accountability for aspects of stroke care were purposively sampled (ward managers, executives, medical consultants, service managers, senior dietitians and senior physiotherapists) to take part in semi-structured interviews. An interview topic-guide focused on organisational culture, organisational history, stroke assessment and multiprofessional working. The same topic guide was used with focus group. Focus groups were conducted with one group of qualified ward nurses (n=5) and three specialist registrars (n=3).

Interviews were also conducted with six patients, one month after discharge home following an acute stroke. The interview schedule was structured, containing sequential questions exploring experiences from the time of admission to discharge, focussing on satisfaction with care, activities of daily living, physical problems encountered and the awareness of these problems in the assessment.

All interviews and focus groups were tape recorded and transcribed with the permission of the participants, independently checked for reliability of transcription

by a senior academic and analysed thematically using a structured framework [17]. An additional check of validity came from returning transcripts to respondents for their agreement that it accurately represented their views [19,20]. A further check would have been to return the analysis to respondents for comments [21], however, assurances of confidentiality had been given which would have been violated by respondents having access to the comments of other respondents. Content validity for each of the data collection tools was informed by the literature review and face validity was strengthened by the involvement of a senior academic.

Team Climate Inventory(TCI): this multidimensional measure of work group climate developed and validated by Anderson and West [22] was used to evaluate existing teamwork practices across the range of professional disciplines responsible for stroke assessment and recording. Climate refers to the manner of working together and can be described as the shared perceptions of the way things are. This includes formal and informal organisational policies, practices and procedures. The TCI comprises a 44 item questionnaire with responses graded on a 5 point Likert scale across categories of team function relating to communication, innovation, objectives and task style. TCI questionnaires were distributed via the internal post to the total population (n=206) of nurses, therapists and medical staff working on the 9 study wards. This elicited an overall response rate of 72% (n=148) following reminders. Respondents were asked to indicate in their own words on the front of the questionnaire, the team to which they belonged. Respondents indicated affiliation with nine teams; nursing (7 ward teams, n=105); medicine (1 team operating across all wards, n= 27); therapists (physiotherapists, occupational therapists, dietitians, speech and language therapists (1 team operating across all wards, n=16). Responses were analysed using TCI

software to generate ‘STEN’ (Standardised Ten) scores across the areas of participative safety, support for innovation: vision and task orientation. Extensive validation of the TCI questionnaire had previously been undertaken. Importantly for the study reported here, tests for predictive validity regarding innovativeness had been conducted with NHS teams [22].

Results

Results

Documentary analysis: five themes were identified; 1) evidence-based practice and clinical effectiveness; 2) management approaches and decision making structures; 3) staff development and training; 4) multiprofessional working and 5) support for the project.

Theme 1 : Evidence-based practice and clinical effectiveness; The organisation supported evidence-based practice and research and development initiatives, although a process for implementing such innovations as part of clinical governance procedures was not identified.

‘Clinical effectiveness and clinical governance are key pillars on which the government wants health care to be built. This Trust already has a reputation for quality.’ (Trust Annual Report.)

‘R&D is the foundation of evidence based practice, and should be the basis for planning and delivering clinical care.’ (R&D Annual Report)

An encouraging finding was the commitment to the provision of training in critical appraisal skills and development of nursing outcome indicators.

'The Trust will encourage training in R&D methodology and critical appraisal of research findings to contribute to evidence based medicine'. (R&D Annual Report)

'...the development of valid nursing outcome indicators in collaboration with clinical audit, research and development. (Nursing and Midwifery Strategy).

Theme 2 : Management approaches and decision making structures; the Trust Profile provided an overview of a clear and unambiguous decision making structure, with a commitment to participative decision making and multidisciplinary team work.

'The general approach taken to the management of the Trust is based on the following principles: maximum devolution of authority: multidisciplinary teams at all levels'.

(Trust Profile)

Multidisciplinary teams were responsible for the management of ten service areas; medical professionals were the leaders in nine teams. However, it was not clear how multidisciplinary teamwork operated at ward level.

Theme 3 : Staff development and training; although a strong emphasis on staff training and development was identified in all the documents analysed, exemplars of training and educational achievements were not presented. Explicit commitment was given:

'...to be a teaching, learning and research organisation' **(Trust Profile)**

A high profile was given to education as part of continuing professional development and explicit links were made between education and improved patient care.

Education was also presented as creating a positive environment that would improve staff recruitment.

'Education too is crucial to the delivery of patient quality care. All employees are encouraged to increase their knowledge and, as a result, achieve practical benefits'

(Annual Report)

'...a progressive employer, enabling staff to realise their full potential and being an organisation in which people wish to work'. **(Trust Profile)**

While there was clear support for education and training generally, nursing leadership, research and supervision was also emphasised in terms of commitment.

'...clinical and professional leadership, research and supervision' **(Nursing and Midwifery Strategy)**

Theme 4 : Multiprofessional working; the decision-making structure of the Trust highlighted the adoption of a multidisciplinary approach, yet little operational evidence was found of this commitment, with reference to only one initiative.

‘...a multidisciplinary surgical procedure review committee will be established to assist the rationalisation of procedures based on outcome measures of success in accordance with a certification process developed by the Royal College of Surgeons’

(Five Year Vision for Health Services)

Theme 5 : Support for the project; there was clear support for the stroke assessment project in terms of funding and the appointment of the researcher as cited in three documents. Furthermore, the Trust was moving towards implementing the unique electronic patient record and expectations were that the project would link with this.

‘Nursing documentation/records will be completely reviewed and updated ready for incorporation into the ‘unique medical record’ **(Nursing and Midwifery Strategy)**.

Interviews and Focus Groups (staff): Four themes were identified; 1) stroke assessment and recording; 2) stroke services; 3) the Trust as an organisation; and 4) past history of change at the Trust.

Theme 1 : Stroke assessment and recording; the assessment of stroke patients was fragmented, unidisciplinary, separately documented and lacked cohesion.

Furthermore, the use of evidence-based, validated assessment tools varied across disciplines. Exemplars included the Waterlow Scale [23] and standardised swallow assessment [24], both of which were used by nurses in conjunction with a series of questions based on the Roper, Logan & Tierney nursing model [25]. Medical staff used an assessment model based on anatomical and physiological systems together with three validated assessments; the Glasgow Coma Scale [26]; the Abbreviated

Mental Test Score [27] and the Barthel Index [28]. Not all physiotherapists routinely used assessment tools, but in one area, a modified Rivermead Mobility Index [29] had been adopted. In speech and language therapy, routine use of the Frenchay Dysarthria Assessment [30]; the Frenchay Aphasia Screening Test [31] and the Psycholinguistic Assessment of Language in Aphasia [32] were reported.

All respondents described how each discipline undertook an individual assessment of stroke patients and documented the results in separate records. Only the medical and nursing assessments were accessible to all professional groups on the ward.

'Its often difficult for us nurses because we don't know what's happened to them (the patient) in physio or OT, there's nothing written for us to read, they (the physios and OTs) do their assessments in the gym and we don't get to see it' **(Nurse - interview)**

Some therapists, in addition to maintaining separate, full assessment records, also recorded abridged versions in the medical and nursing notes, omitting technical details. Some professionals reported that the current approach to stroke assessment did not have any gaps, but nurses were concerned that their assessments did not contain enough information to inform the care plan.

'...that's a big gap, its about how we as a professional organisation enable nurses to link the two together, with assessment informing care planning' **(Manager - interview)**

Similarly, lack of written detail in the medical assessment relating to functional assessment was also identified as a gap.

'...for example, right hemiplegia doesn't tell you much' (**Doctor – focus group**)

Theme 2 : Stroke Services; many respondents acknowledged that comprehensive multidisciplinary working did not occur and identified multidisciplinary team meetings which varied functionally, as the main focus.

'...the multidisciplinary team meetings are the focus of multidisciplinary working on the wards, and they work better on the elderly care wards' (**Allied Health Professional - interview**)

Liaison was highlighted as part of multidisciplinary working, with mixed views expressed about its efficacy. The diverse geographical spread of wards to which stroke patients were admitted, the numbers of different nurses involved and lack of a stroke unit made liaison difficult.

'...there's no dedicated stroke unit, that's the problem, if all stroke patients were in one place it would be so much easier for all staff to liaise, therapists would be there on the unit' (**Manager - interview**)

Despite the lack of a stroke unit, perceptions of the quality of service delivered varied.

‘...in some areas its not very good, within some areas there are probably some areas of good practice as well, but I would say that overall it is about average’ (Manager - interview)

Theme 3 : the Trust as an organisation; overall, participants identified many strengths, most commonly the positive working environment and management structures which were flat hierarchies, with devolved decision making.

‘...The Trust has a fairly flat hierarchical structure’ (Doctor - interview)

‘...The Trust has made good attempts to devolve decision making’ (Manager – interview)

Limitations were also evident. Notably the devolved management structure often led to communication problems. Furthermore, shortages of nursing staff were evident, however this was part of a wider national problem. A lack of qualified nurses had led to use of agency and bank nurses. Different agency nurses worked on the wards each day, which led to lack of continuity.

‘sometimes I despair, I don’t know why we can’t have the same agency nurse if she’s available, it means that each shift I have to start again, tell her all the things about how we do things on the ward’ (Nurse – focus group)

Theme 4 : the organisational history of change; the general consensus from participants was that the Trust responded positively to change and that this was a constant feature of working in the NHS.

'...its (change) so constant now isn't it, if you can't cope with it you're gone...you're still reeling from the last one when the next one comes along' **(Manager - interview)**

Many exemplars of well managed change were cited, including a recent rationalisation of services, introduction of pharmacy stations on wards, introduction of swallow screening and extended roles for nurses. Key characteristics of these changes were good communication, planning, involvement of staff and training provided prior to implementation. Exemplars of less well managed change, including changes to catering services, a change in the way ward-based nursing was organised, changes from mixed to single sex wards. These changes were described as poorly communicated, brought in too quickly and lacking adequate staff consultation and preparation.

Patient interviews:

All patients reported their care to be good to excellent and five patients said they would recommended the care and treatment to others. A need for improvements in access to a wheelchair and the poor quality of food were noted by two patients. Three patients and one carer were satisfied with the information provided on admission; three patients were not provided with discharge information. Four patients could recall specific positive aspects of treatment by therapists; all who were referred to therapists were satisfied with their treatment and five patients were satisfied with their recovery generally. In four cases, occupational therapy was restricted to a home assessment due to staff shortages.

Team Climate Inventory:

Important findings from the Team Climate Inventory questionnaire (Table 1) were variability in team work across the professional groups. Scores of 8 or above indicated excellent team working; scores between 4 and 7 indicated room for improvement; scores of less than 4 indicated low levels of team working.

The therapy team scores ranged from 6-10, with 9 sub-scale items scoring more than 8 (indicating excellent team working) and scores on only four items (range 6-7) suggested room for improvement. In contrast, the medical team sub-scores ranged between 1 and 9, with only two items scoring more than 8 and six items less than 4. Low scores on 'interaction frequency', 'clarity', 'sharedness', 'appraisal' and 'excellence in task orientation' were matters of concern. Nursing team 2 (range on sub-scores 3-7; one item scored above 8) and 7 (range on sub-scores 2-6; no item scored above 8) demonstrated the weakest team working. All aspects of 'participative safety' in team 7 produced low scores and the low score for 'sharedness' in team 2 were matters of concern. In contrast, nursing teams 1 and 3 were the highest scoring, the former with 9 items scoring above 8 and the latter with 8 items scoring above 8.

Developing a tailored strategy for local change

A summary of the barriers and facilitators for change in stroke assessment practices together with their implications as identified from this diagnostic assessment are summarised in Table 2. Key issues related to communication and perception of the change; workforce issues including severe shortage of professional staff; unidisciplinary assessment and working practices; and a lack of organised stroke care in the organisation.

Discussion

A need exists to identify and overcome local barriers before the implementation of new practices in organisational settings can be implemented [3]. A diagnostic analysis was recommended for this purpose [8], however few approaches or methods had not been proposed. In this study a combination of qualitative and quantitative methods were chosen. These included documentary analysis, interviews and focus groups as these had previously been used successfully by Newman [16]; Turrill [13]; McLaren et al. [7]. Data analysis revealed a complex mix of organisational, team working, and specific assessment-related factors as barriers and facilitators for change.

Organisational factors are acknowledged to be influential in determining the outcome of practice change[33]. Pettigrew [12] has emphasised the importance of investigating the past history of organisational change in planning future developments. In this organisation, examples of successful change were characterised by effective planning and communication with key stakeholders and the provision of appropriate training when new skills were required. Negative experiences were associated with poor communication, rapid implementation, lack of consultation and preparation. These findings concur with those of Eve et al.[34], Miller et al. [35] and Dunning et al [36] who found that establishing effective communication, securing local ownership through consultation and providing training opportunities for staff were vital for the successful implementation of practice change.

The change management strategy needed to build on positive prior experience, clarifying and establishing lines of communication with key individuals and groups across all organisational levels and fostering local ownership by engaging in face to face meetings with targeted clinical leaders and professional teams. The use of a training intervention to implement new stroke assessment needed careful consideration. Existing organisational commitment to continuing professional education strengthened the case for such an educational intervention, an approach supported in a recent systematic review[37]. The organisation was also committed to evidence-based medicine, clinical effectiveness, multidisciplinary working and training in research and development methodologies, including critical appraisal. These findings indicated that development of evidence-based guidelines for stroke assessment, utilising a multiprofessional guideline development group for critical appraisal could be considered as part of a tailored strategy.

Instability due to organisational restructuring is known to create a major barrier for change [33]. This constituted a major potential challenge for change management in this project, since it would be difficult to ameliorate or remove. Possible facilitators which could offset the potential for instability were the very positive views of staff relating to the work environment, the current management structure and explicit local support for the project. Building coalitions and partnerships with key stakeholders, setting up a steering group with influential support and working across organisational boundaries as the merger evolved, would be a vital component of the project leader's role in attempting to manage and sustain change.

Another barrier, with the potential to cause discontinuity in stroke assessment, was the shortage of permanent nursing staff (leading to increased use of agency nurses) and occupational therapists (leading to prioritisation of home assessments). These workforce shortages reflected national recruitment problems and had been found to constrain change in other studies [37] and were unlikely to be resolved within the timescale for the current project. Although the presence of a stable core of experienced professional staff might help to offset this barrier, strategies would have to be implemented to involve agency nurses in any training required for stroke assessment and recording. The systematic reviews by Thomson et al. [6] emphasise the value of educational outreach in implementing change. Providing ward-based training for agency nurses on a day to day basis therefore offered one solution. However, this would have implications for the role of the project leader. Staff shortages and workloads also suggested that the timetabling and delivery of an educational intervention would have to be flexible and delivered on a number of occasions to enable attendance.

Weaknesses in team climate in medicine and some areas of nursing, the prevalence of a restricted, unidisciplinary team concept and concerns about efficacy of liaison in selected areas, were clear barriers to the development and implementation of a multiprofessional assessment and recording system. Offsetting these, were the strongly developed team climate in therapy and other nursing teams, linked to the positive experiences of multidisciplinary meetings and liaison in other areas. Clearly, positive team role models existed within the organisation and could be supportive of future change. Involving professional groups and supporting multidisciplinary team development to secure a common understanding and commitment, have been

acknowledged as important in supporting change in other studies [33,36].

Implications for this strategy were that a common focus for team work could be created within a multidisciplinary guideline group developing the evidence-base for assessment and in the delivery of a shared, workshop-based education programme, which fostered interaction and utilised role play based on clinical practice.

Multiprofessional education can be of benefit where it is interactive and relates to the reality of practice; professional education delivered using workshop-based approaches is also more likely to be effective in implementing change [38,39].

In relation to the current status of stroke assessment and recording, the main diagnostic findings were that assessment was fragmented, uni-disciplinary and lacked cohesion; recording practices did not facilitate information transfer between staff or, on discharge, to patients. Although assessment was in part evidence-based, the information used was narrow in range and did not reflect the scope offered by published evidence [40]. Moreover, information was not sourced from evidence-based guidelines. Implications for the development of a strategy for change, were that a multidisciplinary advisory group could undertake a review of the evidence to support the development of a new assessment and recording system. The strong support within the organisation for critical appraisal training could assist this, but it was recognised that the project leader would also need to facilitate the work of the guideline development group.

Effective leadership is intrinsic to the success of a change management project [36,41,42] and the diagnostic findings had implications for the developing role of the project leader in this study. The scope of the project leader's role would encompass

building organisational support at all levels, establishing local ownership, communication networks and working across organisational boundaries, recognised as key elements of partnership working to support change [15]. In addition, support for an educational intervention encompassing outreach and facilitation of multidisciplinary team work would demand a range of change agent skills in role modelling, establishing credibility, using facilitation, negotiation, participation and critical appraisal to influence the uptake of change. These requirements for leadership are consistent with the role of opinion leaders, shown in some studies to benefit changes in practice [6]. In fulfilling this role, the project leader would need to draw support from clinical leaders representing each professional discipline, to champion the uptake of change.

The broad range of findings identified from the diagnostic analysis has highlighted the usefulness of the approach for identifying barriers and facilitators prior to the implementation of change in clinical practice. Such an approach is recommended to inform the tailoring of implementation strategies to the specific organisational context.

Conclusions

Diagnostic analysis had been recommended as a precursor to change, however a specific methodological approach had not been proposed. This study used a combination of qualitative and quantitative methods to ensure that a range of data and respondents were included. The findings supported the use of leadership, evidence-based guidelines for assessment linked to a new recording system and education as

part of a combined strategy to implement changes in local stroke assessment practices.

Competing interests

None

Authors' contributions

SH contributed to the study design, undertook data collection, data analysis and wrote the first draft of the paper. SMcL developed the study concept and design and contributed to data collection and made a major contribution to analysis and re-drafting of the paper. AM advised on study design and made a major contribution to data analysis and interpretation and contributed to re-drafting the paper. All authors read and approved the final manuscript.

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Tables

Table 1 - Results of Team Climate Inventory: STEN scores for each team

Items and Sub-scales from	Nursing Teams	Medical	*Therapy
TCI			

Team Number	1	2	3	4	5	6	7	8	9
Participative Safety	8	5	6	6	7	6	3	4	9
Information sharing	10	5	8	6	6	7	3	5	6
Safety	7	4	6	7	7	6	3	7	10
Influence	8	5	5	6	8	5	2	4	10
Interaction frequency	8	5	6	5	8	7	3	3	9
Support for Innovation	9	6	10	8	6	8	4	7	8
Articulated support	9	6	10	8	6	8	4	8	10
Enacted support	10	7	10	8	6	8	4	6	6
Vision	8	4	8	6	7	7	4	4	10
Clarity	9	5	8	6	7	6	4	3	9
Perceived value	9	4	9	7	8	9	4	9	10
Sharedness	6	3	6	4	6	4	4	2	10
Attainability	7	5	8	6	7	8	5	5	7
Task Orientation	7	5	8	7	7	5	4	2	7
Excellence	8	6	8	8	8	7	4	2	8
Appraisal	6	5	6	5	6	4	3	1	6
Ideation	8	5	8	7	8	7	6	6	8

*Therapy team = occupational therapists, physiotherapists, speech and language therapists, and dietitians.

Scores 8 or above (excellent team working); scores between 4 and 7 (room for improvement in team working); scores less than 4 (low levels of team working).

Table 2 - Diagnostic findings: implications

Organisational Factors		
Barriers	Facilitators	Implications
Communication problems, lack of staff consultation, preparation and ownership associated with past history of poorly managed change	Good communication, planning and training provision associated with past history of well managed change.	Build on previous success. Clarify lines of communication; establish local ownership; use training intervention to benefit staff skills related to changes.
Uncertainty relating to a potential Trust merger; possible negative impact on management, staff capacity and work environment	Positive staff views of the work environment and management structure. Local project support explicit.	Strengthen teamwork; set up project steering group with influential support; work across organisational boundaries.
Nursing workforce shortages; use of agency staff leading to potential discontinuity in assessment and care planning.	Core of stable senior staff : median service of interviewees 10 years.	Ensure agency staff included in outreach training to implement assessments; flexible scheduling of training to maximise attendance.

Processes for implementing innovations not clear in organisational strategy.	Strategic commitment to clinical effectiveness, multidisciplinary working, evidence based medicine, education of staff.	Develop strategy using recognised clinical effectiveness methods, education/training, multidisciplinary approaches
Teamwork Factors		
Team work less well developed in medicine and some areas of nursing	Team work strongly developed in therapies and some areas of nursing; positive role models exist.	Create positive focus and environment for team work within strategy eg shared training; outreach necessary in areas of weak team work and staff shortages.
Team concept; unidisciplinary Negative views of multidisciplinary ward meetings and efficacy of liaison. Service teams and ward meetings largely medically led.	Positive views of multidisciplinary ward meetings and efficacy of liaison. Leadership potential evident within therapy and some nursing teams	Professional representatives /champions needed to provide leadership on equal basis to drive change
Stroke Assessment Factors		
Assessments	Local commitment to	Utilise evidence-based

<p>unidisciplinary, fragmented, variable evidence-base, and using separate recording systems. Negative experiences of patients on discharge information provided</p>	<p>developing evidence-based practice. Need for assessment project supported by Trust. Positive views of patients on assessment and care provided</p>	<p>guidelines for assessment and recording . Mechanisms for critical appraisal to be set up. Guidelines for discharge information needed</p>
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