Developing frailty friendly hospitals: the Specialised Clinical Frailty Network

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Introduction
The aim of the Specialised Clinical Frailty Network (SCFN) was to develop frailty-attuned pathways in specialised services in England.

Methods
We developed a breakthrough series collaborative involving a range of specialised services, using quality improvement methods (including experience-based design) to implement improvements designed to enhance the experience and outcomes of older people living with frailty who have specialised healthcare needs.

Results
Specialised teams responded positively to the SCFN, many implementing process changes aligned to the needs of older people living with frailty. Some were able to demonstrate improvements in service and/or patient outcomes, including greater identification of frailty, more holistic care and increased use of shared decision making.

Discussion
The network has successfully demonstrated how frailty can be assessed both at individual, as well as population level, to support both local teams and systems to best manage the health of their patients.

KEYWORDS: frailty, specialised healthcare needs, quality improvement

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specialties that participated in the network (British Association of Spine Surgeons (BASS) and the Centre for Perioperative Care (CPOC)). The specialties were selected to participate by the specialist commissioning team at NHS England, based on clinical and service priorities. The primary quality improvement (QI) method was the Model for Improvement that focused on introducing and refining change through ‘plan, do, study, act’ cycles to improve services, with support from national clinical and improvement experts.

Network approach

Building upon the learning from the related but separate Acute Frailty Network, the SCFN supported hospitals in redesigning services according to a set of principles that were co-produced with lay and clinical stakeholders (Box 1). These principles were adapted slightly for each specialty but remained true to the overarching approach outlined in Fig 1.

The 6–9-month SCFN programme began by understanding the local context, planning for change and discussing possible barriers, as well mapping the patient pathway for each service. This ‘diagnostic’ was fed back to sites with recommendations for improvements. Each participating service was allocated an improvement coach and had access to both measurement and clinical expertise to support planning, delivery, and monitoring of local change and service redesign. Site visits from measurement experts and access to the NHS Elect Guide to Measurement for Improvement gave hospital teams the ability to obtain and effectively use data, including access to the Frailty Opportunity Identifier (https://future.nhs.uk/SDEC_CommunityofPractice/view/objectID = 22746256), built using the Hospital Frailty Risk Score.

During the programme, teams from participating hospitals attended four national events, and a series of masterclasses and webinars to support team development, networking, and sharing of experiences. They had access to the SCFN toolkit, which contains service improvement principles, specific measurement support, and were trained in the experience-based design (EBD) approach (https://improvement.nhs.uk/resources/the-experience-based-design-approach). The SCFN coached teams to use EBD as a QI approach to incorporate an alternative perspective of the service. The aim of EBD is to work closely with patients, staff and members of the public to understand how our services make them feel and identify ways to be centred to our patients’ needs.

The SCFN team developed a bespoke tool for patient-facing teams to capture the experiences of those who use and deliver frailty services to put the patient perspective at the centre of pathway improvements. EBD tools were created for inpatient care, outpatient care and also staff experience.

The SCFN encouraged values and standards for person-centred patient care to be written and driven by clinical leaders in order to reduce unnecessary variation and instil best practice. This approach was not limited to the immediate specialty team but, as many of the specialist services were tertiary referral centres, it was extended to referring hospitals as well.

Results

Between 2018 and 2021, a total of 50 clinical teams across a range of specialties were supported to deliver an improvement project as part of the SCFN. The specialties involved in the network included:

- nephrology
- oncology
- interventional cardiology
- cardiac surgery
- spinal surgery
- critical care medicine
- vascular surgery
- cancer surgery
- neurosurgery
- vascular surgery.

Overall impact of the SCFN

Teams responded positively to the network and support received; for example, evaluation demonstrated that 99% of teams in waves one to four rated the events put on through the network as good or better (unpublished data) and would recommend to others.

Most sites improved processes of care; some started to demonstrate outcome-based improvements. Many sites added elements of frailty assessment into their pathways without the need for additional resources or geriatric-specific expertise. These are summarised against the SCFN principles in Table 1.

| Box 1. Over-arching principles to consider for older people living with frailty who have specialised needs |
|---------------------------------------------------------------|
| Establish a mechanism for early identification of people with frailty |
| Deliver personalised care and improve patient experience |
| Communicate shared decision making across services, settings and systems, making frailty everyone’s business |
| Use a holistic approach early in the pathway to inform subsequent care planning |
| Decide upon tailored interventions, personalised to the patient |
| Develop a measurement / quality improvement mindset |
| Adopt clinical professional standards to reduce unnecessary variation |
| Identify clinical change champions |
| Put in place appropriate education and training to develop a highly capable workforce |
| Identify an executive sponsor and underpin with a robust project management structure |

| Fig 1. Specialised Clinical Frailty Network overarching approach using frailty to inform clinical care. |
|---------------------------------------------------------------|
| Fit / mild frailty | Moderate frailty | Severe frailty |
| Care as usual but address reversible issues, such as sarcopenia ('pre-habilitation'), nutrition and social prescribing | Actively seek out and manage geriatric syndromes, e.g. falls, cognitive impairment, continence and polypharmacy (Comprehensive Geriatric Assessment) | Think about supportive care versus cure, advanced care planning and recognition that enhanced supportive care is an active intervention in itself offering improved quality of life and, sometimes, quantity of life |

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Teams shared their learning within and beyond their organisations. Many sites developed case studies to share project outcomes, and a number have shared learning at national specialty conferences and published their projects in specialty journals.\textsuperscript{5,30–33}

Development of frailty-attuned pathways

Forty-one teams embedded frailty assessment (with all using the Clinical Frailty Scale) in their pathways of care alongside implementing other improvement principles developed through the network, such as using a holistic assessment early in the pathway.

The SCFN demonstrated how a focus on improving care for the older person in specialised service pathways can lead to more personalised care and treatment, consequently leading to improvements in overall outcomes. Examples from the different specialties are highlighted.

\begin{itemize}
  \item At the Royal Papworth Hospital adult critical care service, as a result of undertaking frailty assessment and anaesthetist-led CGA, they implemented a bespoke anaesthetic pathway designed to optimise patients in the days pre-surgery, including simple bed-bound exercises, medication reviews and reducing risk of post-surgical delirium through avoidance of opioids.
  \item Barts Health NHS Trust transcatheter aortic valve implantation (TAVI) service found that by assessing for frailty, the team were able to highlight patients with mild to no frailty who were able to access an enhanced recovery pathway with same day admission and plan for early discharge, freeing up capacity for more complex patients. The average length of stay for TAVI reduced from 3 to 2 days.
  \item Royal Preston Hospital undertook a test of change to improve personal kidney/renal treatment plans for older people living with frailty. They set up a weekly multidisciplinary team (MDT) meeting with frailty therapist input, a specialist renal physician, and nurses from the kidney choice team, dialysis unit and inpatient ward area to explore patients of concern who may benefit from a home follow-up visit from a frailty therapist.
  \item Teams across The Christie NHS Foundation Trust have successfully incorporated frailty assessment into cancer pathways and cancer (MDT) meetings, without needing support from an embedded geriatrician.
  \item Imperial College Healthcare NHS Trust implemented ‘turbo’ teaching on frailty for nurses, therapists and junior medical staff supporting neurosurgery patients, which led to a demonstrable improvement in understanding of frailty among staff who participated.
\end{itemize}

Developing personalised care and shared decision making

Many teams involved in the SCFN focused on improving and measuring shared decision making within their pathways; for example, the Newcastle ear, nose and throat cancer team reviewed shared decision-making processes using SDM-Q-9 (www.patient-alz-partner.de/index.php?article_id=20&clang=2) and collaborRATE (www.glynelwyn.com/collaborate-measure.html) measurement tools.

Supporting professionals to use improvement methodology

The improvement collaborative approach has enabled not just a focus on embedding the concept of frailty, but also the development of QI capabilities of teams involved in the network. The majority of clinical teams involved in the network did not have a background or significant experience in using QI. Through the support offered by the network, teams learnt how to undertake a QI project and applied this learning in relation to their focus on frailty; for example, of the first 28 teams participating in network, 24 agreed that their understanding of QI tools and techniques had improved, and 27 agreed that they have developed a measurement for improvement mindset.

All teams involved in the programme adopted measurement for improvement techniques to develop their own process, outcome and balancing measures to gauge their improvement.

Developing whole system approaches to frailty

Connecting different professional disciplines around the shared goal of improving services for older people has encouraged more inter-disciplinary approaches to care being developed. It has fostered connections between different teams and disciplines within specialty centres to encourage the development of more integrated approaches to care (eg between specialised teams and geriatricians); for example, the renal frailty team at Royal Preston Hospital liaised with clinical commissioning group representatives.
to discuss a more structured integration of care for patients living with frailty and chronic kidney disease across primary and secondary care services.

The impact of COVID-19

The SCFN adapted its traditional face-to-face delivery in response to COVID-19: the network support was delivered entirely virtually during this period. Workshop sessions were broken down to shorter 2–3-hour workshops held over series of weeks as opposed to large full day events. Engagement was still good during the pandemic, though it varied depending on site location as well as service. Several sites were less able to engage with the work due to redeployment or beds being lost to support adult critical care.

Discussion

The SCFN introduced a wide range of clinical specialties to the concept of frailty. By creating a common language for talking about frailty within systems and between services, the programme was able to set the direction, and individual teams were able to set up projects and develop pathways relevant to their team and service.

Improvement collaboratives can support the development of bottom-up, ground-level approaches to national or regional commissioning priorities that allow more sustainable approaches to implementation. Within this programme, the role of the national team was to agree and set out the broad principles for change (eg set out in the 10 principles developed as part of the toolkit), and individual sites were then able to adapt these to their own local contexts and pathways, embedding learning from other parts of the network and drawing on resources provided by the network.

Knowledge has been shared across pathways within health economies. Simple, practical improvement methods have been used to rapidly test and refine approaches, with learning shared within and between specialties. It has also demonstrated how to bring a focus on patient (and staff) experience into projects and has promoted co-design of pathway improvements. The development and use of experience-based design tools is one aspect that other improvement programmes can adopt.

The SCFN has also developed the use of the Hospital Frailty Risk Score to improve our understanding of frailty at a population level (within specialised service pathways) and, for the first time, has allowed commissioners of specialised services to recognise frailty from a population data perspective.

Implications for practice

The programme has successfully demonstrated how frailty can be assessed at individual as well as population level to support both local teams and systems to best manage the health of their patients. The programme has also developed examples of how CGA can be embedded within pathways, using competencies across the specialised MDT. The approach used by the SCFN is an example of how a national or regional body can drive broad strategic ambitions effectively at a local system and hospital level. It has led to the development of multi-professional and multi-specialty approaches in many specialised centres across England.

The SCFN toolkit is a key product of the programme; it is endorsed by the British Geriatrics Society and Royal College of Physicians. It is supported by a variety of resources made available to teams, including case studies and vignettes from other teams within the network that are available from the network website (www.scfn.org.uk/resources).

Implications for research

Through the programme, further national clinical policy research has been instigated into the important focus of frailty in younger populations. The first stage was completed in summer 2020, which was a literature review undertaken by the National Institute for Health and Care Research Policy Research Unit in Older People and Frailty. Following on, research to understand frailty in younger people has been funded and its life course determinants will start in October 2022.

Conclusion

The SCFN has demonstrated that it is feasible to introduce frailty thinking into specialised services, without necessarily relying upon geriatricians. It has shown that care processes can be developed to better reflect the needs of older people living with frailty, with some early suggestions of improvements in outcomes.

Conflicts of interest

Simon Conroy was remunerated for leading the network.

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