Home Dialysis QI Project Report

Implementing a multisite shared haemodialysis care programme

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Region:	South East
Trust:	Oxford University Hospitals NHS Foundation Trust
Units:	Unit-wide
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Project end date:	
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Problem and background

The Oxford Kidney Unit (OKU) had no structured SHC programme and only a handful of incentre dialysis patients performed Shared haemodialysis care (SHC). There was widespread variation between OKU dialysis centres regarding staff knowledge and awareness, leading to inconsistencies in patient opportunity to engage with SHC. Aligning with RSTP and DAYLife objectives, we determined that introducing a structured SHC programme would be a priority for OKU.

SMART aim

To increase the percentage of OKU ICHD patients engaging with SHC to >20% by the end of 2023.

QI methodology

Interventions were planned to achieve the following objectives

1. Improve baseline levels of staff knowledge, confidence and empowerment
2. Identify and remove key barriers to implementation
3. Raise awareness and knowledge amongst the ICHD patient population
4. Develop centre SHC leadership hierarchy to sustain and rejuvenate improvement
5. Establish a process for automated data collection and review to ensure sustainability and make SHC embedded in the standard care for ICHD patients.

Project had 2 phases. Sentinel phase (April - November 22) focussing on the 2 main dialysis unit centres and a scaling up phase with roll out to all satellite centres (November 2022 to December 2023).

All dialysis unit managers attended a 2 day virtual training course developed by the Shared haemodialysis care improving outcomes collaborative

Interventions implemented include:

Staff questionnaire	To understand staff perceptions, knowledge and concerns regarding SHC. (Sentinel phase only)	April – May 2022
Education sessions	Targeted teaching sessions in 'espresso' format to improve staff awareness and knowledge	May – Nov 2022
Patient information leaflets	Developed and distributed to assist in approaching patients	July 2022
Patient facing noticeboards	With pictures and examples of SHC setup in waiting rooms of each HD centre in a high-profile area	July – Dec 2022
Virtual training for centre leads	Via a 2 day virtual training course developed by the SHCIO collaborative	Aug – Nov 2022
SHC Champions	A motivated staff member in each HD centre was designated as the SHC 'Champion' responsible for promoting, measuring, and sustaining change within their centre	Nov 2022
Monthly feedback meetings	HD centre leads and SHC champions meet with the project lead to discuss progress, new ideas and give feedback	Nov 2022
Virtual training for other centre staff	Junior HD centre staff members enrolled in the 2 day virtual training course developed by the SHCIO collaborative	April 2023 – Ongoing
Engagement with national forum	SHC champions attend a quarterly virtual forum hosted by the SHCIO collaborative to learn from and share SHC experiences	April 2023 – Ongoing

Stages of shared care competency were categorised as below:

Stage of SHC Competency

Patient can Independently:

1. Measure their weight
   Wash their hands
   Measure their blood pressure
2. Prepare their own dressing pack
3. Line the dialysis machine
   Prime the dialysis machine
4. Programme the dialysis machine
5. Prepare their dialysis venous access device (where applicable)
   Needle their arterio-venous access (where applicable)
   Connect to the dialysis machine
   Disconnect from the dialysis machine

Results

At the start of the project only 4% (19/483) of incentre dialysis patients were performing shared care. By December 2023, there were 43% (220/511) patients were doing shared care. In

December 2023, 137 patients were in stage 1, 31 patients in stage 2, 28 patients in stage 3, 15 patients in stage 4 and 9 patients in stage 5.

Lessons learned

Project benefitted from clearly defined leadership roles and designated SHC champions along with regular meetings with project lead

It gained traction from senior clinicians and management as it was aligned with national objectives

Patient participation in the virtual training courses helped staff see a different perspective

Shifting staff mindsets on benefits of shared care using existing resources and training materials from the shared haemodialysis care improving outcome collaborative

Next phase of the project is to aim for 50% of patients doing SHC by December 2024