# Magic – Imperial experience to date Dec 2021- May 2022

### Core Aims and Objectives

MAGIC AIM: To promote good cannulation practice and improve the patient experience of cannulation

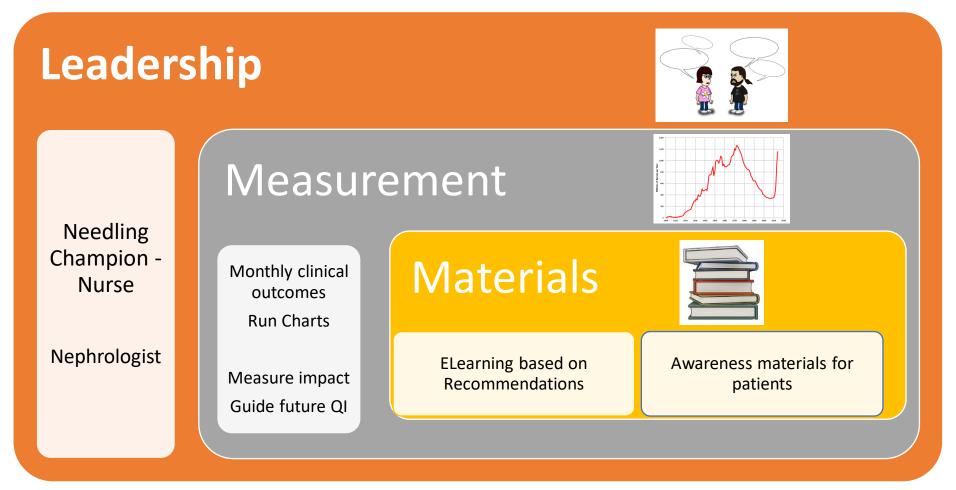
#### **Short Term**

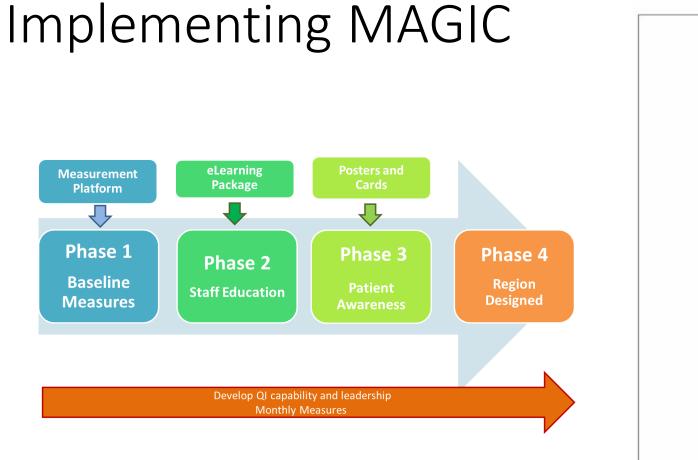
#### Long Term

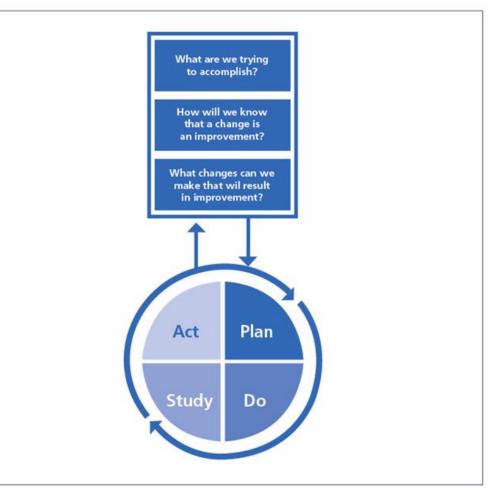
- Maximise RL and BH, minimise area puncture
- Minimise missed cannulation
- Minimise infection
- Optimise patient satisfaction

- Increase rates of AV access
- Reduce AV access loss
- Minimise CVC use

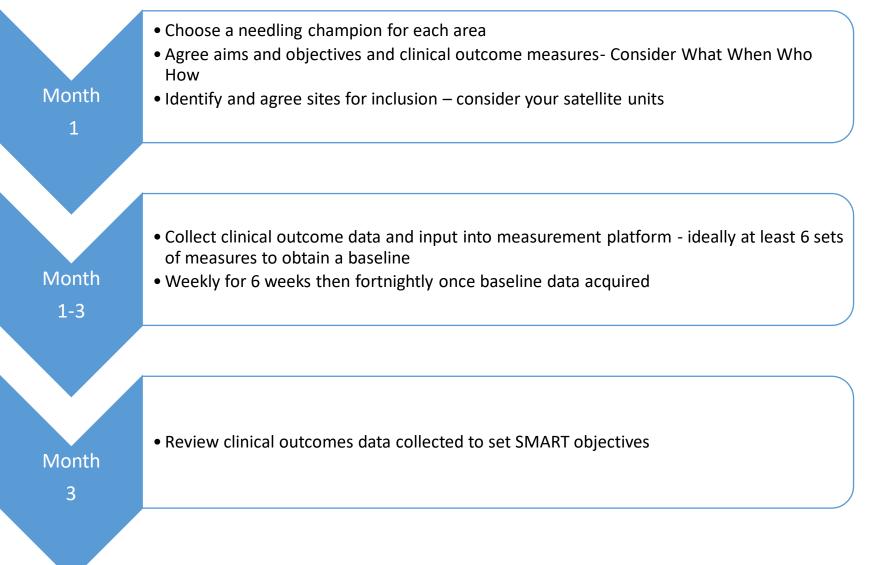
#### Elements of MAGIC

















4-6

7-9

• Continue collecting, inputting and reviewing clinical outcome data

- Collect and review MAGIC ELearning process data, including MAGIC ELearning evaluation forms
- Order patient awareness materials for printing
- Ask 10 random patients (per unit) to complete pre questions for patient awareness phase

- Launch patient awareness materials
- Continue collecting, inputting and reviewing clinical outcome data
- Review MAGIC ELearning process data



### Preparing the team

- We chose to run in the main centre and 8 satellites
- The vascular access link nurses stepped up to become the 'needling champions' along with other keen staff (approximately 3 from each unit)
- We had three meetings to explain how to capture the data
- Set up an area on the shared drive where data collected is uploaded
- The uploaded data is then collated and put on the magic platform
- We set up a WhatsApp group to keep in touch

#### MAGIC Measurement Tally Sheet

UNIT:

Date:

Please collect data from a sample of patients who are using AV access for HD on this day.

Measure	<b>Tally</b> (Keep tally marks here to count patients)	<b>Total</b> Total number of tally marks <b>Please enter onto MAGIC platform</b>		
Number of Patients using Buttonhole Cannulation of each cannulation site in the same manner each time. Involves removing the scab of the previous cannulation prior to needling. Includes cannulation with sharp needles or blunt needles.				
<b>Number of Patients using Rope Ladder</b> Cannulation that moves up the vein at each treatment in a progressive manner, to cover as much of the vein as is possible. Once the top of the vein is reached, cannulation starts at the bottom again. One cannulation site's (A or V site) needle marks should cover at least 5cm.				
Number of Patients using Area				
<b>Puncture</b> Cannulation in a different site each time that does not progress up the vein is systematic manner AND/OR one cannulation site's needle marks cover less than 5cm.				
Missed Cannulation Number of patients for that haemodialysis session that experienced <u>more than one attempt</u> to insert a needle at one needling site				

Your kidney team is working to improve your experience of having needles put into your dialysis fistula (or dialysis graft) at each haemodialysis treatment session. We would like to know how satisfied you are with your needling today.

We cannot identify you from this question, so please answer honestly.

Please rate your satisfaction between 1 and 7, by marking an X in one of the boxes below:

How was your	Very Bad	Very Good					
needling today?	1	2	3	4	5	6	7

If there are any other comments you would like to make about your needling, please insert these in the box below:

Most of their comments was nicely done less pain, no complained at all, very satisfied with the service I get. Over all, very good needling technique.

Thank you.

#### Capturing the unit measurements

Data manager collates: No. HD patients

No. of HD pts with AVF - prevalence

No. of AVFs in new starts - incidence

No. Bacteraemia in HD patients

Lacking: No. grafts / hybrid access
No. conversions to AVF in HD population
No. of lost AVFs / grafts
Some of the provided data doesn't add up and needs further investigation.

### Challenges

### Dec - Jan 2022 – new Covid wave: Impact:

- > Non essential meetings cancelled including London Wide support meetings for those units about to start.
- > Covid HD ramped up in our CXH satellite unit displacing patients.
- Staff sickness
- ➢ Fatigue

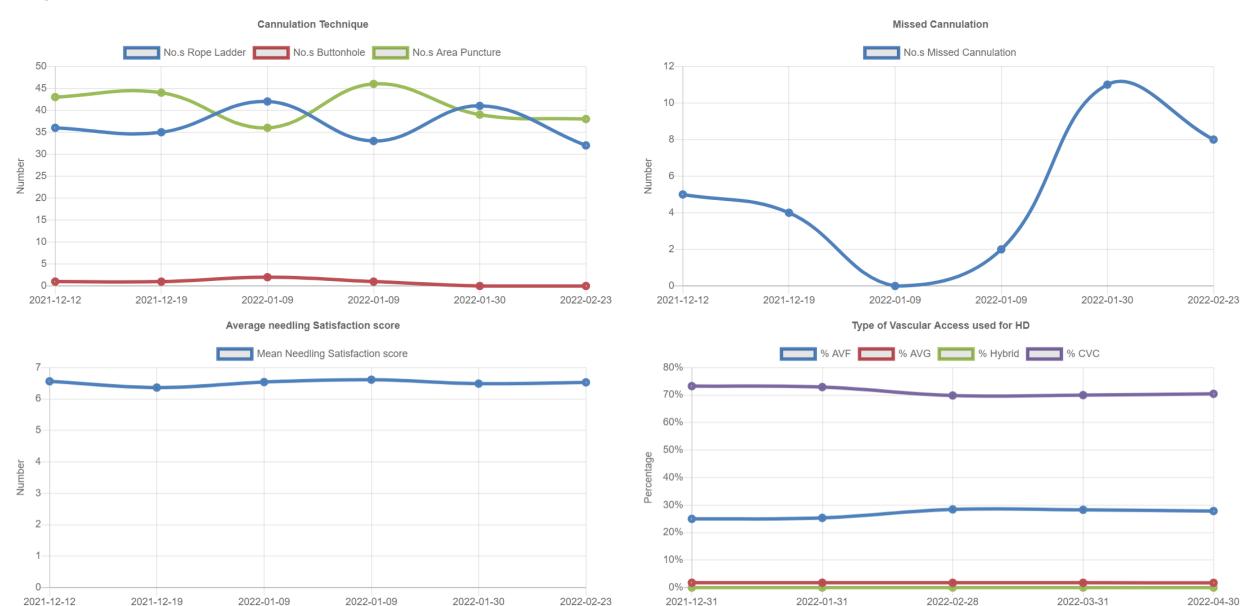
January 22 – Magic lead on bereavement leave. Impact

- Lost momentum in some of the units @ Imperial
- Reduced support for those units about to start

## **Successes @ Imperial**

- S units have produced 6 sets of baseline data some have produced more but for thesake if the platform I have only entered the six complete sets – the other data will be interrogated locally.
- We are now ready to move to the first intervention on-line training. Initially 30 of our nurses will be enrolled with more to follow. Some constraints around the time taken to enrol everyone.
- > We will introduce button-hole needling in one of our units.

#### Imperial Change





What the data tells us so far

- Prevalence of area needling 50%
- Low missed cannulation rate not necessarily a good thing
- High patient satisfaction score subject to bias
- High CVC use 70%

What's missing:

- Conversion from CVC to AVF in prevalent patients
- Infection rates

#### What's next?

Commence on-line learning in all units that have taken part, anticipating this will take longer than the suggested two months

Identify any learning needs not meet by the on-line package ie: using ultrasound

Try and bring the Covid HD Unit back on board

Move to monthly data collection to free up time for on-line learning

Enter missing data onto the platform

Provide individual units with their own results via excel

Along side the on-line education introduce as a pilot in one unit – button-hole needling, mainly for those patients who have short AVFs where the only alternative is area needling.

Continue with local access clinics run frequently.