Kidney Quality Improvement Partnership (KQuIP) #KQuIPYH

MAGIC next steps

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Managing Access by Generating Improvements in Cannulation

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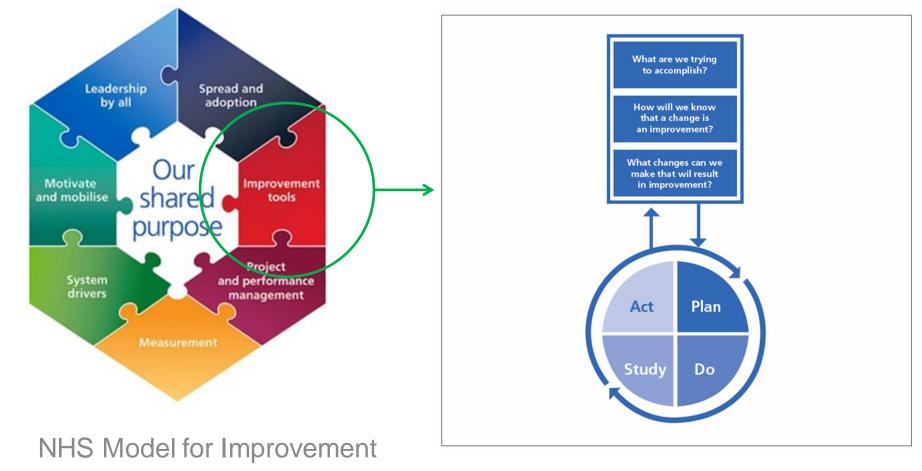
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Implementing MAGIC

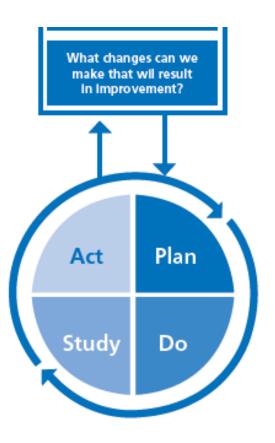
Leaders **Training Training Training Training** Day 2 Day 1 -Days 3 Celebration Phase 1 Phase 3 Phase 2 Baseline **KQuIP KQuIP KQuIP** Region event and Staff **Patient** Jan Measures **Education** Awareness designed further QI 2019, 09/04/19 14/08/19 11/12/19 13/02/1





IMPROVEMENT TOOLS

What are we going to change?



Staff knowledge about good cannulation practice

- Knowledge
 - Content of recommendations
- Theory-practice divide
 - How to apply to practice
- Reflection
 - Awareness of what they are / are not doing

Patient awareness of good cannulation practice

- Allow good practice to happen
- Sprive the right practice
- Make informed choices



PDSA Cycle

Evaluates the change Respond to success and challenges Intrinsically linked with question 3



The four stages of the PDSA cycle are:

Plan – the change to be tested or implemented

Do – carry out the test or change

Study – based on the measurable outcomes agreed before starting out, collect data before and after the change and reflect on the impact of the change and what was learned

Act – plan the next change cycle or full implementation.

Application to MAGIC

What are we going to change – Staff Education

Plan – Today

Do – Take and implement the plan in your units

Study – how have you baseline measures changed

Act – Patient Awareness on 14/08/19



Summary of MAGIC

What are we trying to accomplish – Aims and objectives

How we will know we've created an improvement

What are we going to change – Staff Education region designed phase)

Driver Diagrams Process Maps

Plan - Today

Do – Take and implement the plan in your units

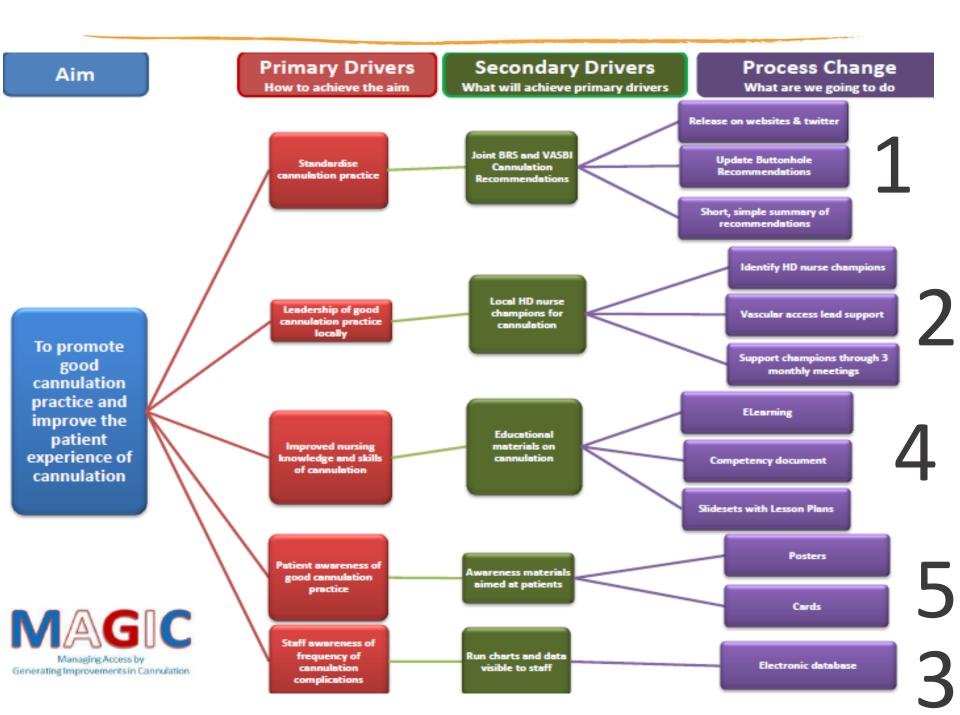
Study – how have you baseline measures changed

Act – Patient Awareness PDSA starts on 14/08/19

• • • •

Act – Region designed phase – 12/12/19





Staff Education



Why Staff Education (for Nurses)?

Area puncture is predominant cannulation technique

CKD PREM highlights patients' needling experience as an area for improvement

Consensus expert opinion

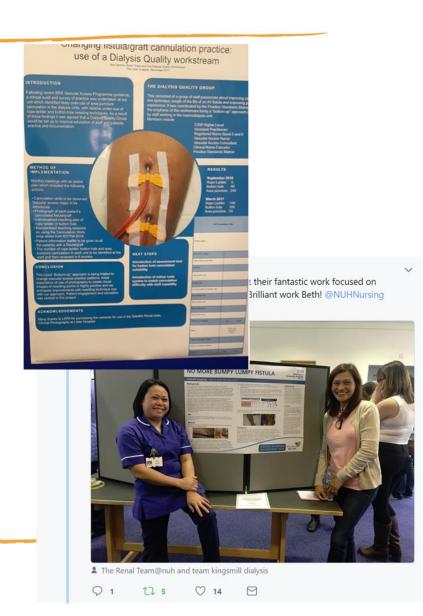
- **BRS VA**
- VASBI

Nursing staff practice is predominant driver of cannulation practice

- Nurses teach nurses
- Nurses teach patients

Education improves cannulation practice





What can we do....

... to improve knowledge, but also apply to practice and create awareness of practice?

BRS & VASBI recommendations

Define best practiceMAGIC ELearning

Feasible and effective education



BRS & VASBI Recommendations

Definition of Best Practice



BRS VA and VASBI Cannulation Recommendations

Released 25/09/18

Available on BRS website (News and BRS VA section)

Incorporates:

- AV grafts and fistulae
- Adults and paediatrics
- Buttonhole, rope ladder and area puncture cannulation
- Existing BH recommendations



https://britishrenal.org/news/brs-

vasbi-needling-recommendations/



Sections of the Recommendations

A)Principles of a Good Needling Technique

B)Technical Principles to aid Decision Making Prior to Needle Insertion

C)Procedural Principles for Good Need

Define Good Cannulation (3)

D)Assessment of AV Access Prior to Ne

Assessment Pre-Cannulation (1)

E)Definitions of Needling Techniques

F)Choosing the Needling Technique and Planning Needling

G)Rope Ladder Needling Technique

H)Buttonhole Needling Technique

I)Area Puncture Needling Technique

Needling Techniques (5)

J)Needling of New AV Access

K)Use of Nurse-Led Ultrasound to Ass

Needling new Access & US (2)

L) Managing Anxiety during Needling

M) Involving Patients in Care of their V

N)Teaching Patient how to Self-Needle

O)Staff Training to Perform Needling o

Managing Anxiety (1)

Involving Patients (2)

Staff Training (1)



Tools within the Recommendations

Pre-Cannuation Assessment

Cannulation decision making model

Avoiding area puncture



Section D: Pre-Cannulation Assessment

Assessment ...

Determines how you are going to insert the needle **Detects complications**

Includes

History

Look, listen, feel assessment

Look

Visual inspection

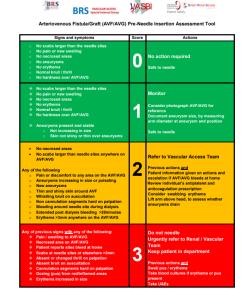
Listen

Auscultate bruit with stethoscope

Feel

Vessel

Thrill







Date	Score (0-3)	Present - YN	Normal (N) / Abnormal (A) / Abnormal (NE.)	Normal (N) / Abnormal (A) / Abnort (NIL)	Sot (S)/ Hard(H)	Use Y/N	initials
							_
_							_
							_



Section F: Choosing your Cannulation Techniques

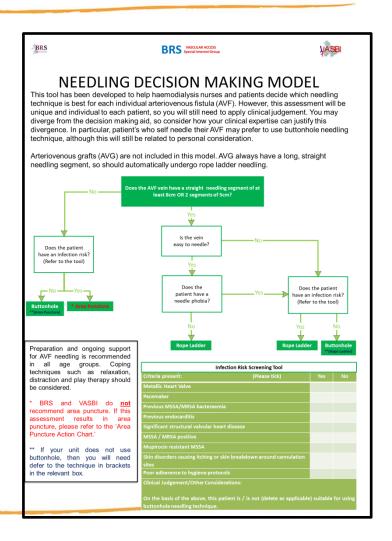
With patients

Length of cannulation segment
Infection risk

Screening tool (Swain et al, 2017)

Needle phobia

Ease of cannulation





Section I: How to Avoid Area Puncture

Avoid if possible

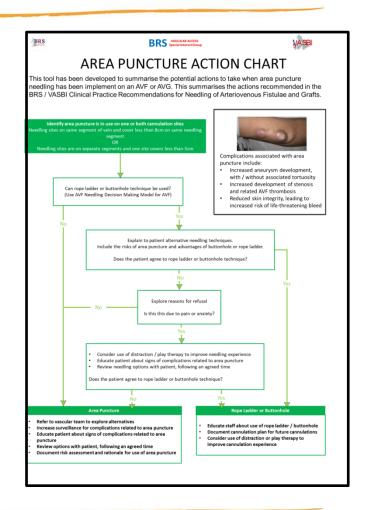
May be a necessary evil

Educate patients

Educate staff

Needling plan

If necessary, monitor for complications





MAGIC ELearning



MAGIC ELearning

Based on the Needling Recommendations
Application of the recommendations

Content created by BRS VA and VASBI nurses group Learning points promote reflection

- Further reading
 Includes videos and links to external resources
 Renal Association platform
- **C**Log ins
- Saves progress
- Certificate of completion



5 sections

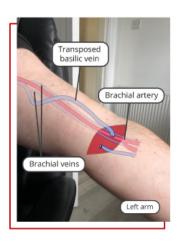
- 1) Vascular Access for Haemodialysis
- 2) Assessment of Matured AV Access Look, Listen, Feel and Drain
- 3) Cannulation of AV Access
- 4) Complications associated with AV Access
- 5) Quiz
- Before and after



Vascular Access for Haemodialysis

Brachio-Basilic Fistula

Section 1: Vascular Access for Haemodialysis

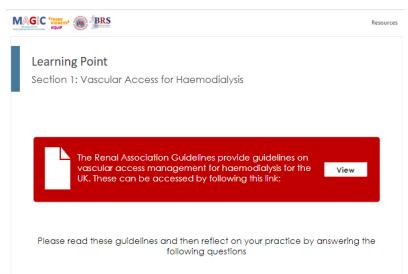


The brachio-basilic fistula is normally explored if the brachio-basilic fistula is not possible or fails.

This involves joining the brachial artery to the basilic vein at the elbow.

The basilic vein is large vein that often provides a good vessel for a fistula. However the basilic vein often runs deeply on the inside (proximal side) of the arm.

Sometimes the basilic vein will be raised nearer to the surface (superficialisation) to allow needles to be inserted for haemodialysis. Sometimes without superficialisation the basilic vein is too deep to use for haemodialysis.



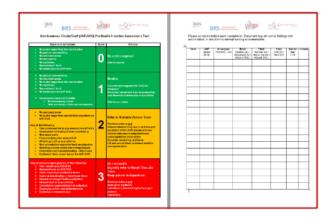


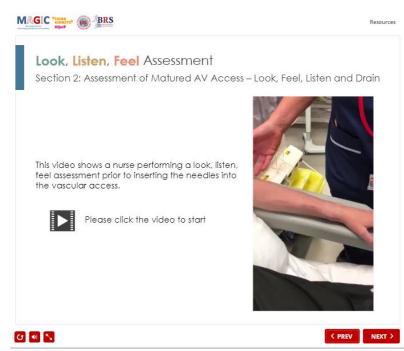
Assessment of Matured AV Access

BRS / VASBI Pre-Needle Insertion SCORING TOOL

Section 2: Assessment of Matured AV Access - Look, Feel, Listen and Drain

BRS and VASBI have created a scoring tool to allow healthcare workers to document their look, listen and feel assessment prior to needle insertions. (NB. This is only for arteriovenous access that is to have needles inserted for haemodialysis.)







Distraction Techniques

Relaxation Techniques

These are helpful for children, young people or adults who are particularly worried or anxious about having their AV fistula accessed. These should be started before the procedure begins to allow the patient to engage and begin to relax.



The three cannulation methods

Section 3: Cannulation of AV Access

Rope ladder

To learn more about the three cannulation methods, please click on the im (6)

Area puncture

Cannulation

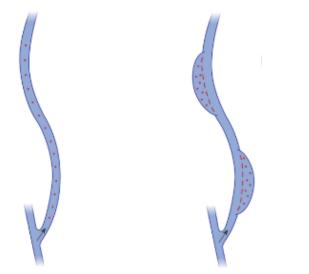
Rope Ladder Cannulation

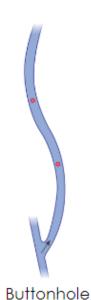




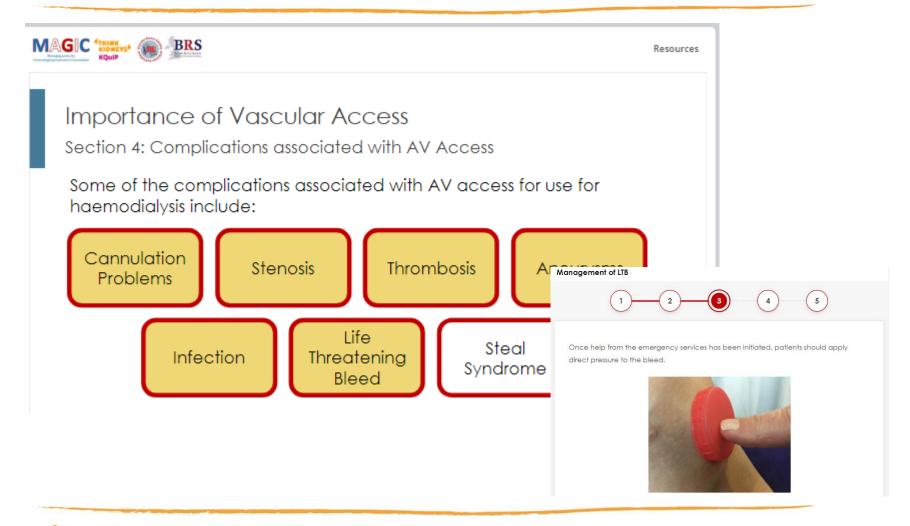








Complications





Quiz

Bank of 53 MCQ questions

Asked to complete 15 questions randomly

80% pass rate to complete

Certificate of completion



Measuring Impact

Outcomes

Make a note of the date you started

Do these change?

See trend change in run chart

Statistical process control

Life QI

Process

How many completed ELearning

Evaluation of ELearning

Pre and post test scores

Use of tools

Evaluation of tools

Balancing

What has got worse?

Missed cannulation?

Patient experience?



Groupwork

Next Steps



What will you need to do to implement the ELearning package with staff?

Do you want to add anything else?

If so, what?

Intervention?

Measures?

How will you co-ordinate with the region?



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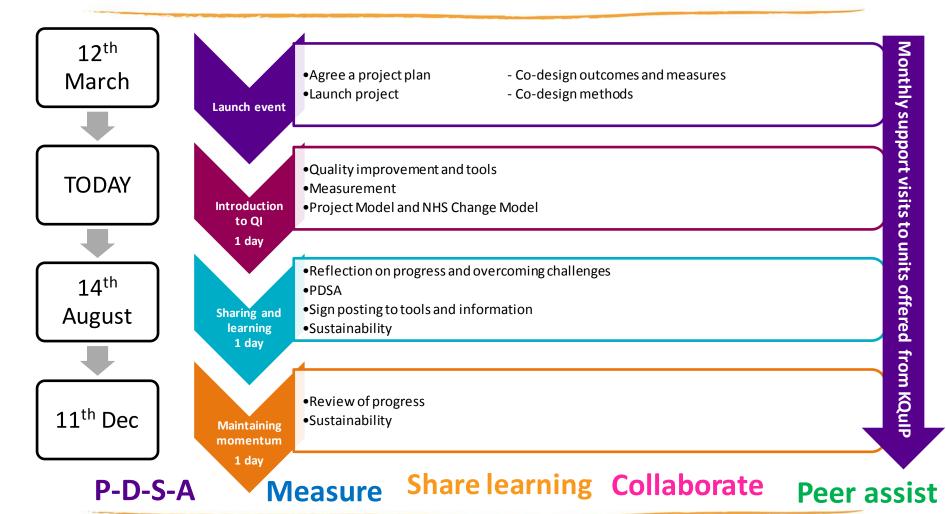
KQuIP Offer

Leeanne Lockley





Project phase

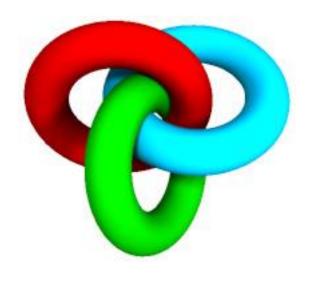








My role...



- Support to connect teams collaboration
- Assimilate and communicate learning between KQUIP training days – action learning sets, webinars
- Website resources and communications
- Support for organising and providing training /meeting venues / sponsorship



KQuIP...

IS...

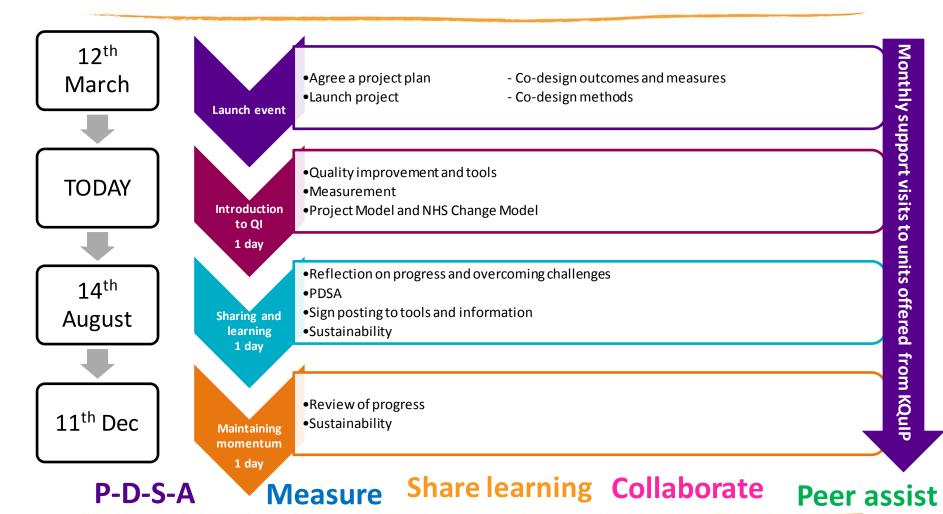
- Facilitative
- Enabling
- Local ownership teams are responsible for the decisions, results and actions
- Keeping the energy, momentum, drive
- Tailored support

IS NOT...

- The subject matter expert or owner of the project
- Oirective
- Inflexible or rigid



Project phase





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Thank you and travel safe



