



Royal Liverpool & Broadgreen
University Hospitals NHS Trust



Our Vascular Access Experience

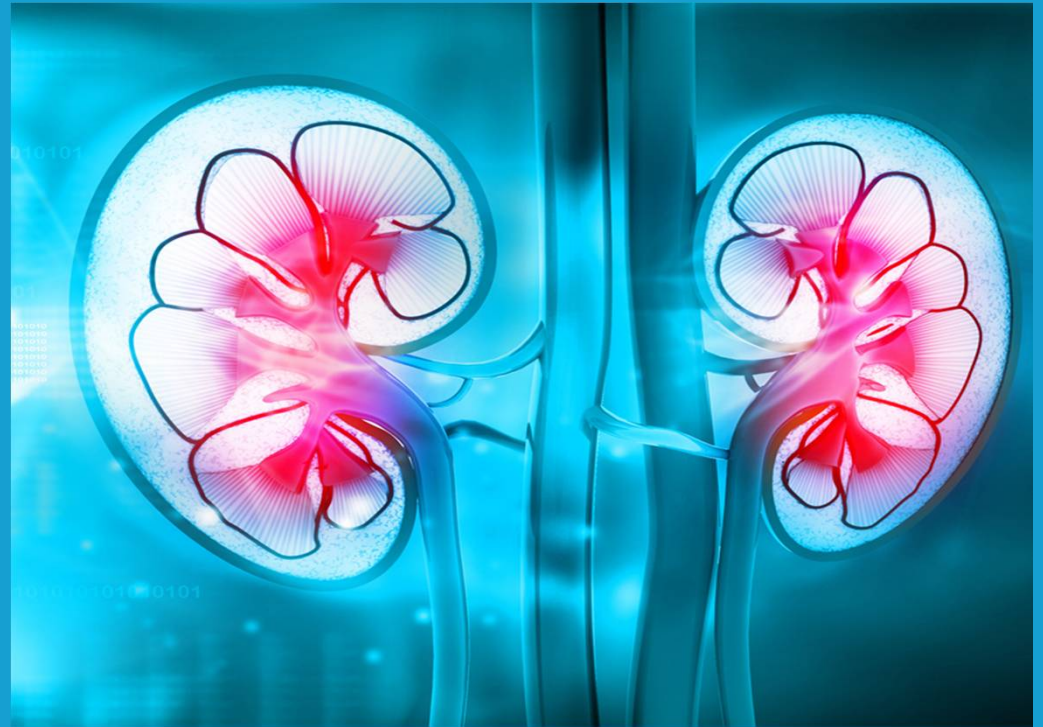
Tilly Leach (VAN)

Vicky Ashworth (ANP)

Where we all make a difference

Outline

- Vascular access audit past and present
- Past process
- Current process
- Low clearance clinic
- 1st dialysis pathway



2015	2016	2017
24%	31%	44%

Audit Jan – Dec 2017

106 new starters

40 patients unpredictable	66 RRT choice (HD)
17 AKI/CKD3-4/ crashlanders	45 working AVF/AVG
15 unplanned conversion PD	14 AVF/AVG not ready to use
4 change of RRT	7 no access plan
68%	

Prevalent Patients AVF/AVG

Jan 2015	June 2016	Jan 2018
????	69%	77%



Royal Liverpool & Broadgreen
University Hospitals NHS Trust



Current Population

Site	Patients	AVF/AVG	PNL
Royal	147	94	53
Broadgreen	78	65	13
Halton	35	31	4
Warrington	44	37	7
St Helens	50	41	9
HHD	43	37	6
	397	305	92
Total		77%	23%
			22 AVF maturing 53 unable to have AVF/AVG 17 in work up for AVF/AVG

In the past

- Unstructured
- Un coordinated
- Prone to congestion





Low clearance clinic NOV 2014

MDT

Consultant

Vascular access surgeon

Pre dialysis nurse

Dietician

ANP



Focus on transplant first, RRT plan, Access, Education, Support



Where we all make a difference

Complex Transition period

- Delivery of care is multi-disciplinary and complex
- Multiple needs

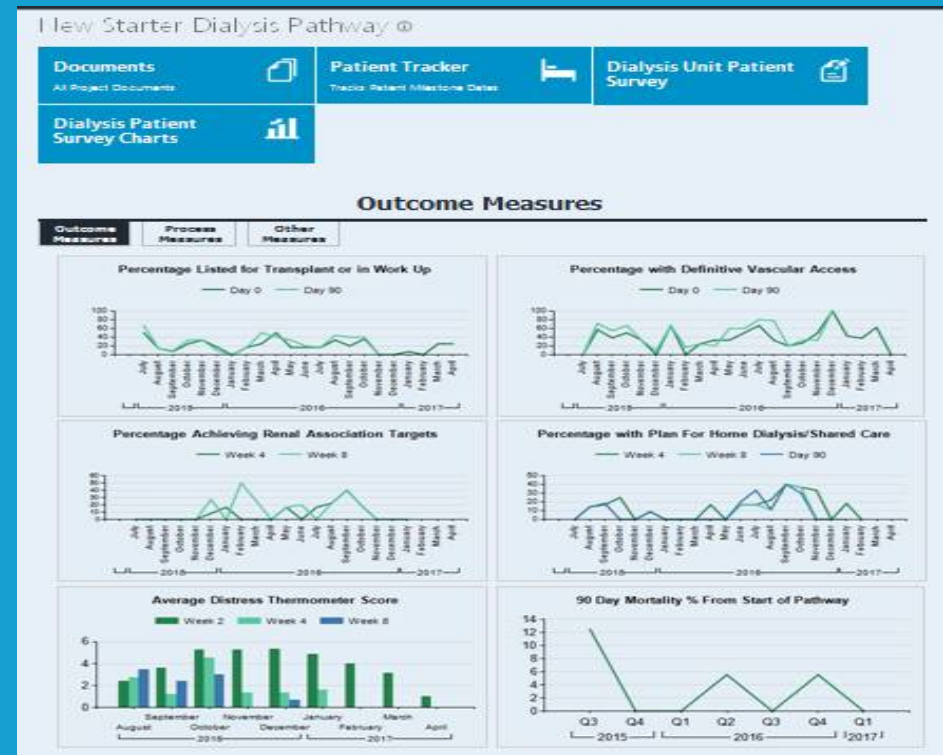


Nursing intervention

Novel Nurse-Led Pathway		
	Mandatory Interventions	Personalised Interventions
First 6 Sessions	<ul style="list-style-type: none">• Early review of dialysis prescription• Venous access plan• Early review of dry weight• Medication & dietary advice• Monitoring of anaemia & blood biochemistry• Distress scoring & early psychological review	<ul style="list-style-type: none">• Patient experience questionnaire• Prioritisation of home therapy if appropriate• Transplantation plan• Supportive approach for frailer patients• Individualised educational support for patients & families• Support for patients & families
> 6 weeks	Early Consultant Review	
	Summary letter for consultant, patient & GP	

Monitoring the patient

- Bespoke dashboard
- Developed with Business Intelligence team



Patient Demographics

	Control group	New pathway
Patients (n)	78	94
Mean age (SD)	58.4 (15.6)	60.5 (14.1)
% male	62%	59%
% diabetic	45%	43%
Mean eGFR starting HD (SD) (ml/min)	8.6 (2.7)	7.7 (2.4)
% definitive vascular access at day 0	31%	44%

Improved Process

	Control Group	New pathway
% with documented transplant status at 90 days	61%	95%
% with definitive vascular access plan at 90 days	89%	93%
% with defined dry weight at 2 weeks	58%	98%
Time interval to first clinic review (days)	98 days	43 days

Improved Experience: PREM questionnaire and distress thermometer



Patient

I am really happy.
All staff are competent
and efficient.
I am very grateful

Patient

When I first came on
dialysis I was
apprehensive. The staff
put me at ease. I now
feel much better



Nurse

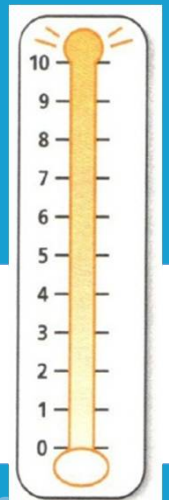
Since the introduction of
the new pathway, things are
much more organised, giving
us more time to concentrate
on what we need to do

Renal Consultant

The pathway has benefitted
patient care.
I get a comprehensive update
of their care and I am seeing
them much quicker in the
renal clinic

Patient distress diminished from a score of 4.3 (week 2) to 2.4 (week 8)

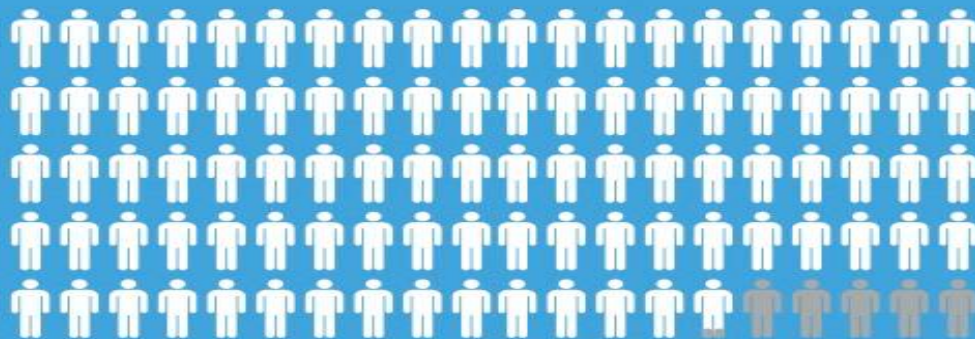
Patient feedback has been strongly positive



58% reduction in unadjusted mortality

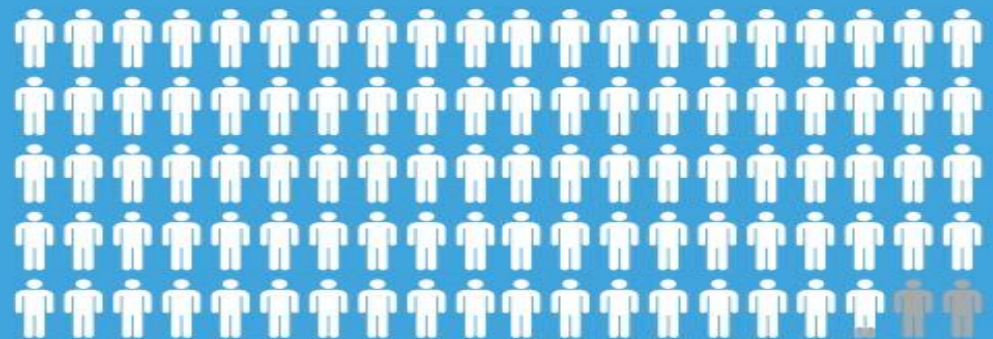
90-Day Mortality (%)

Baseline



5.1%

Pathway

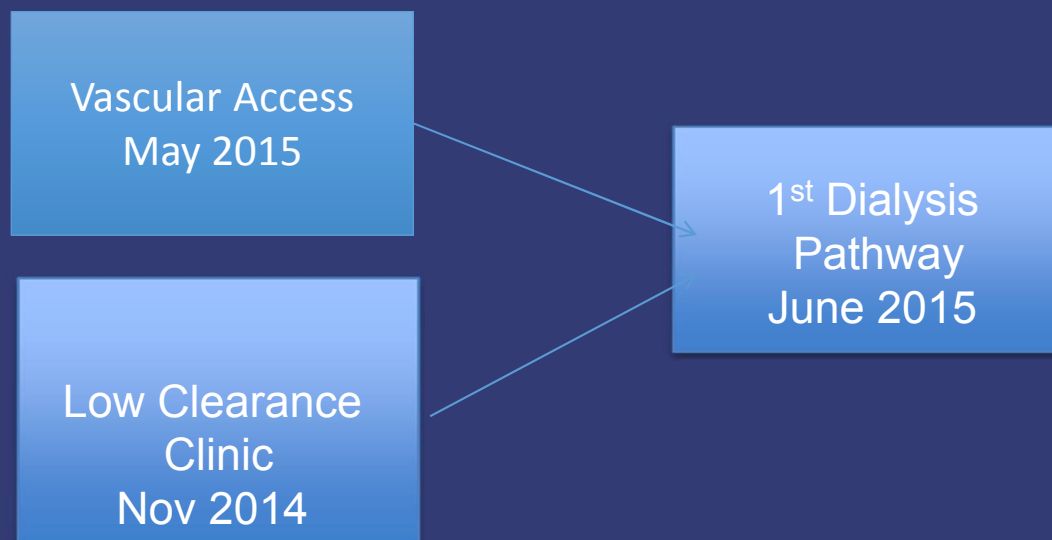


2.1%



Royal Liverpool & Broadgreen
University Hospitals NHS Trust

The new process



ANP/VAN overseeing patient pre and transitioning onto haemodialysis

Where we all make a difference

Next steps....

- Continue to improve performance
- Acknowledge the challenges around maintaining vascular access and strive for best practice
- Nurse patient education crucial
- Aim to provide the best for our patients



Where we all make a difference



Royal Liverpool & Broadgreen
University Hospitals NHS Trust



Thank you.

