

#### Primary Care Cardiovascular Society

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# PCCS CKD QI Programme Preparing for end stage renal disease and dialysis

Dr Katie Vinen
Consultant Nephrologist, King's College Hospital, London and Clinical Vice President, United Kingdom Kidney Association

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## Dr Katie Vinen Disclosures



No declarations of interest



# Preparing for end stage renal disease and dialysis



- Discuss how ESRF is classified
- Discuss when may be appropriate to initiate dialysis and the types available
- Consider complications and risks associated with ESRF including risk of sudden cardiac death
- Early identification of end of life care and palliative care management for patients with ESRF
- Explore education strategies and SDM in ESRF
- Share resources available for patients in ESRF and on dialysis
- I have tried to give you a lot of information about how the patient may be experiencing the situation in order to help you support them



## How is end stage renal disease classified?



- Classified by glomerular filtration rate into 5 stages
- Patients with eGFR < 15 ml/min are in CKD 5</li>
- Patients receive pre-emptive transplants with GFR between about 8 – 15 ml/min
- Patients generally start planned dialysis with GFR between 7-10 ml/min
- Patients who choose to forgo dialysis will generally die from kidney failure alone at GFR of less than 5 ml/min. Others will die at a higher GFR due to other co-morbidities
- Kidney teams often describe severity of kidney disease as "% of function remaining" as GFR very roughly equates to this

Stage of CKD	eGFR result	What it means		
Stage 1	90 or higher	- Mild kidney damage - Kidneys work as well as normal		
Stage 2	- Mild kidney damage - Kidneys still work well			
Stage 3a	45-59	Mild to moderate kidney damage     Kidneys don't work as well as they should		
Stage 3b	- Moderate to severe damage - Kidneys don't work as well as they s			
Stage 4	15-29	- Severe kidney damage - Kidneys are close to not working at all		
Stage 5	less than 15	Most severe kidney damage     Kidneys are very close to not working or have stopped working (failed)		

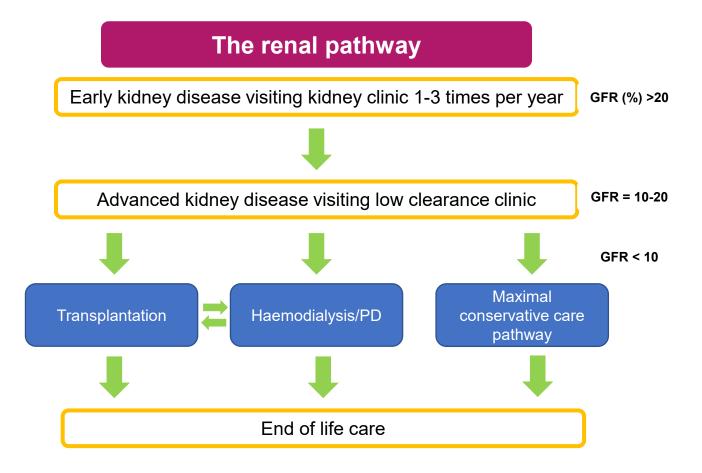


## Decision making in late stage kidney disease



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 Likely to take place in an advanced kidney care or low clearance clinic (AKCC) using principles of shared decision making where possible provided by an MDT



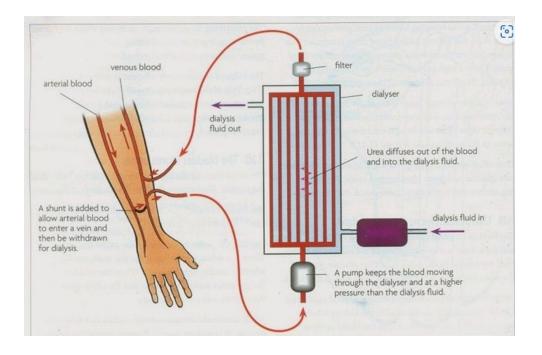


## Preparing for end stage renal disease and dialysis



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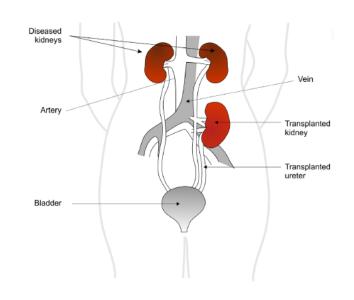


# ESRF - avoiding dialysis - pre-emptive transplantation



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- Patients < 75 yrs (not absolute)</li>
- Fit enough for significant anaesthetic
  - CVD
  - Respiratory disease
  - PVD
- No contraindications to life long immunosuppression
  - Ongoing uncontrolled infection (well controlled HIV is NOT a contraindication)
  - Ongoing malignancy or malignancy in last few years
- If possible with a live donor but still possible without
  - Live donors do NOT need to be
    - Related
    - The same gender or race
    - The same blood group





# Indications for dialysis initiation - mixture of biochemical and symptom driven initiation



- Uraemic symptoms (nausea, pruritis, malaise) generally urea >35-40 mmols/litre
- Intractable persistent hyperkalaemia (K+ >6.5 mmols/litre consistently)
- Therapy resistant fluid overload
- Significant acidosis (bicarbonate ≤15 mmols/litre
- Malnutrition
- Asymptomatic CKD 5 where GFR ≤7 mls/min
- Considerable variation in level of symptoms for same blood values
- Some patients "perceive" themselves to have no symptoms even at a GFR of 7 mls/min

- Mostly gentle downward trajectory an art not a science
- Planned and ready
- Complications addressed
  - Anaemia
  - Electrolyte imbalances
  - Bone disease
  - Fluid overload
- Physically ready (fistula created, hep B vaccinations completed); active on transplant list where possible
- Psychologically ready (good education, practicalities after major trip, after studies complete) - many patient in denial or late presenters
- Co-morbidities addressed frailty needs assessed and addressed with realistic understanding of aims of dialysis and ideally some understanding of prognostic implications
- Differentiate renal and non-renal symptoms especially in elderly/multi-co-morbidity where benefits of dialysis more marginal
- Only renal symptoms likely to be helped by RRT

Q

Excellent dialysis preparation...

...is multi-disciplinary



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Social

Worker

Housing

needs Benefits

### Peer Supporters

Patient education and support

### Supportive Care Team

Excellent symptom control

Referral to other services - falls, memory, CGS

Advanced care planning

#### Transplant Co-ordinator

Co-ordination of transplant w/u tests

Anaemia Nurses

lvi Iron and epo management

#### Dietician

Fluid and salt restriction

Potassium and phosphate advice

Malnutrition and obesity

Access Nurse and Surgeon

Plan and create dialysis fistula

### Pre-dialysis MDT

### Dialysis Nurses (HD and PD)

In depth support for HD and PD preparation

Home visits

Establishing schedules that fit a patient's life not fitting life round dialysis

#### **Doctors**

Overall patient
assessment (include
cognitive and physical
frailty) and symptom
treatment

Assess and treat comorbidity

Reduce CVS risk

Manage renal bone disease and anaemia

#### Counsellor

Cognitive behavioural therapy

Body image concerns

Support to patient and family

Referral to CMHT or psychiatric services

Sexual function and distress

#### Physio/rehab

team

Falls and frailty prevention

Active exercise to reduce CVS risk

BMI exercise programme

OT needs

#### **AKCC Nurses**

Patient and family education

BP, fluid and electrolyte Mx

Hep B vaccination

Planning future care

BMI, body mass index; BP, blood pressure; CMHT, community mental health team; CVS, cardiovascular; HD, haemodialysis; Mx, management; OT, occupational therapy; PD, peritoneal dialysis.

**Pharmacist** 

Education

Drug dose

adjustment

Concordance

assessments



# Excellent dialysis preparation... complex, supportive, positive and ...is honest



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'The doctors, the nurses, they lied to me... they said it would be easy and dialysis would simply fit around my life'



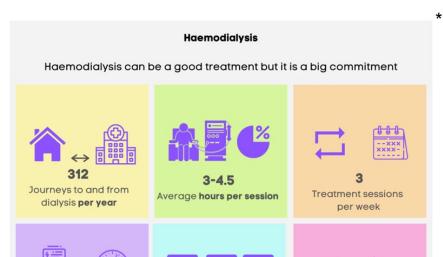


# Haemodialysis - "blood dialysis" - "machine that cleans your blood"



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Haemodialysis is a

long term treatment



Lots of patients/families have relatively little understanding of the complexity and time required for dialysis

- Keeps you alive
- Reduces your symptoms (but may take time to recover)
- Bridges to transplant
- High level of support
- Compartmentalises treatment (in time and space)
- In centre (vast majority) attracts majority of patients
- Semi-rigid schedules (transport 6am 11pm)
- Fistula (needles) v less optimal dialysis line (no needles)
- Holiday travel limited
- Reduced treatment free time
- · Disrupted work or study time
- Strict diet and fluids constraints
- Life extending but shorter life expectancy than peers
- Home (enough space/cleanliness, activated patients, dextrous, practical, good vision, good cognition)
- Greater flex, less travel to HD unit
- Extra sessions possible and may improve health

HD, haemodialysis.

\*London Kidney Network.

Some people take

several hours to

recover after

haemodialysis

Haemodialysis involves of

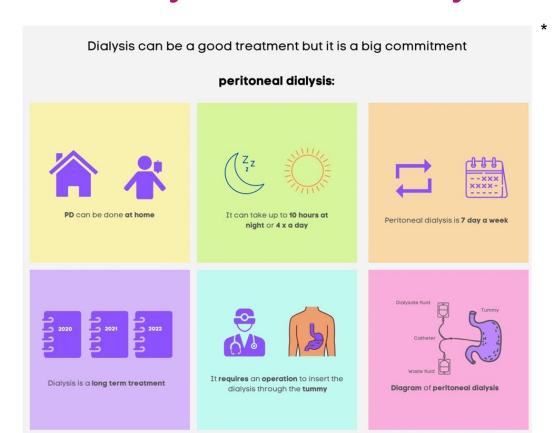
small operation



# Peritoneal dialysis, tummy dialysis - fluid being run in and out of tummy cavity to take away toxins



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Lots of patients/families have relatively little understanding of the complexity and time required for dialysis

- Practically mostly self-delivered
- Small abdominal operation
- 5-7 days/week commitment
- Needs space at home
- Not possible after major abdominal surgery (breeched peritoneum)
- Patient delivered with training and remote support (motivation, dexterity, cognition, cleanliness, vision)
- Greater flex with work and travel
- · Greater flex with food and fluid
- · Greater level of control





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Lots of patients/families have relatively little understanding of the complexity and time required for dialysis

#### Haemodialysis

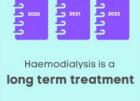
Haemodialysis can be a good treatment but it is a big commitment





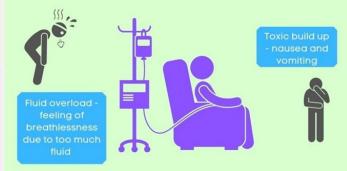














Dialysis can be a good treatment but it is a big commitment

#### peritoneal dialysis:

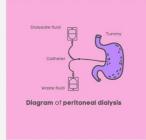












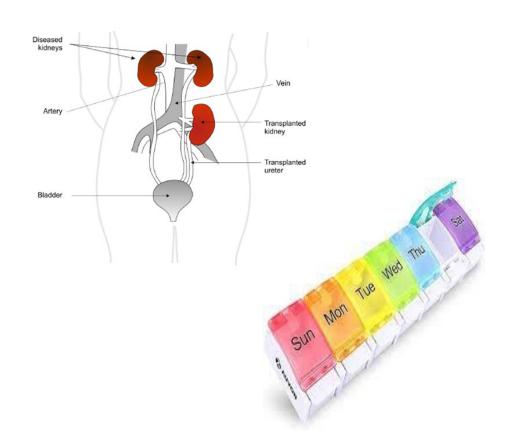
PD, peritoneal dialysis.

\*London Kidney Network.





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- Work up
- Heart, lung, blood vessels for major surgery
- Cancer and viral screening for immunosuppression
- Operation
- Unpredictable timing uncertainty
- 1 week hospital stay
- 3 month basic recovery
- Post transplant
- Life long immunosuppression
- Concordance vital
- Degree of uncertainty rejection
- Uncertain transplant longevity

1. Queensland Government. The kidney transplant operation. Available from <a href="https://www.qld.gov.au/health/services/specialists/kidney-transplant/the-kidney-transplant-operation">https://www.qld.gov.au/health/services/specialists/kidney-transplant/the-kidney-transplant-operation</a>. Accessed March 2023; 2. Amazon. AUVON Weekly Pill Box Organiser. Available from <a href="https://www.amazon.co.uk/AUVON-iMedassist-Compartments-Supplements-Medication/dp/B07794YMY7?ref\_=Oct\_d\_otopr\_d\_27347574031\_1&pd\_rd\_w=gvxWD&content-id=amzn1.sym.222608eb-f887-4329-bb45-ef37761e5b56&pf\_rd\_p=222608eb-f887-4329-bb



# One size does not fit all - priorities for different patients at different stages



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- Three phases
- Aggressive life prolonging, symptom controlling, target driven transplant seeking - often young patients
- Stable life prolonging, symptom relieving,
- Later/supportive quality of life orientated, symptom orientated, may lead to RRT discontinuation - often older patients
- Symptoms may be caused by
  - Renal disease
  - Treatment
  - Other conditions









# Preparing for end stage renal disease and dialysis

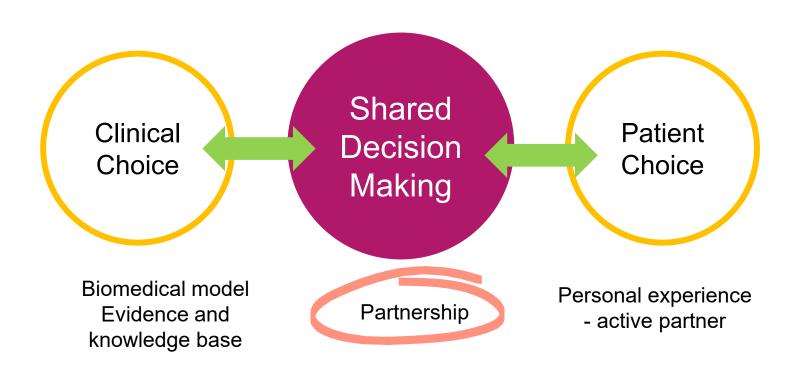


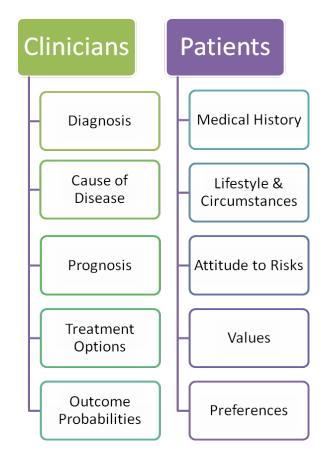
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- Explore education strategies and SDM in ESRF examples throughout talk
- Share resources available for patients in ESRF and on dialysis
- I have tried to give you a lot of information about how the patient may be experiencing the situation in order to help you support them



## Excellent dialysis preparation... ...is a partnership









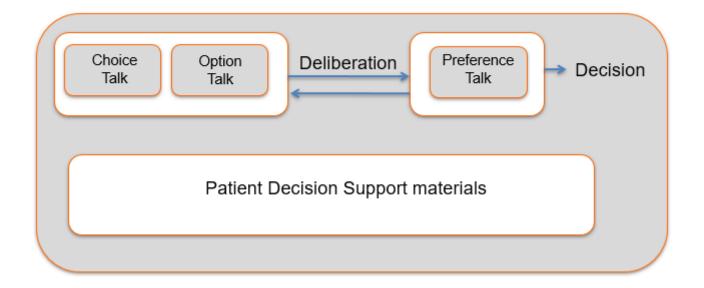
## Shared decision-making



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#### Core Skills in SDM





### Making a dialysis fistula

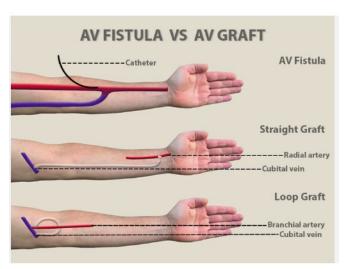


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#### **Clinician centred Information:**

- Join of artery and vein
- •Radiocephalic/brachiocephalic
- Local or general anaesthetic
- Alternatives, including lines



#### **Patient-centred information:**

- •What it will look like
- •How much it may hurt
- •How it may affect use of the arm
- What clothes can be worn
- How likely it is to fail



1. Vein & Endovascular Medical Care. AV Fistula vs. AV Graft. Available from <a href="https://www.astraveinvascular.com/av-fistula-vs-av-graft/">https://www.astraveinvascular.com/av-fistula-vs-av-graft/</a>. Accessed March 2023; 2. Indian Vascular Surgery. AV Fistula – A Perfect Vascular Access For Prolonged Dialysis. Available from <a href="https://www.indianvascularsurgery.com/av-fistula-perfect-vascular-access-prolonged-dialysis/">https://www.indianvascularsurgery.com/av-fistula-perfect-vascular-access-prolonged-dialysis/</a>. Accessed March 2023.



### **Key Components of SDM**



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- Starts early in the treatment pathway
- Reliable, balanced, evidence-based information outlining treatment options, outcomes and uncertainties
- Decision support counselling with clinician or health coach to clarify options and preferences
- System for recording, communicating and implementing patient's preferences
- Honest
- Individualised
- Patient-centred

- More important in kidney care because:
  - Preference sensitive choices HD v PD
  - Complexity of available and non-available choices e.g. transplant
  - Uncertain evidence RRT v MCM
  - Significant impact of ESRF on wider life over long timescale
  - Improves long term relationship between patient and clinician







ESRF, end-stage renal failure; HD, haemodialysis; MCM, maximum conservative management; PD, peritoneal dialysis; RRT, renal replacement therapy; SDM, shared decision-making. Coulter A. Shared Decision Making: Why Patient's Preferences Matter. November 2012. Available from <a href="https://www.kingsfund.org.uk/sites/default/files/angela-coulter-shared-decision-making-nov12.pdf">https://www.kingsfund.org.uk/sites/default/files/angela-coulter-shared-decision-making-nov12.pdf</a>. Accessed March 2023.

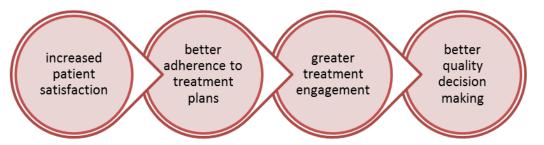


## The many benefits of sharing decisions



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- Patients want it
- It improves patient knowledge
- Helps patients make healthcare choices aligned with their personal needs, values and circumstances
- Improves clinical outcomes and safety
- Helps achieve the right intervention rate and reducing unwarranted practice variation
- Reduces healthcare costs and litigation costs

#### POTENTIAL OBSTACLES TO SDM IN RENAL MEDICINE

- Clinicians and patients sometimes speak different languages (literally and metaphorically)
- Denial
- Uncertainty
- It's difficult for clinicians to not treat (assumption that more care = better care); difficult conversations



# Using dialysis decision aids - hosted on Kidney Research UK website



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	Haemodialysis (HD)		Peritoneal Dialysis (PD)	
	CHD/ HDF: Centre Haemodialysis / Haemo- diafiltration	HHD: Home Haemodialysis	CAPD: Continuous Ambulatory Peritoneal Dialysis	APD: Automated Peritoneal Dialysis
Place Of Dialysis Care	People travel to kidney centres for CHD/ HDF sessions	People have CHD sessions at home	Most people choose to have CAPD at home or work, Can be any dean place	Most people choose to have APD at home, Can be any dear place
How Dialysis Works	Attaching to a machine for 4 hours per session by the arm or leg.	Attaching to a machine for 4 hours per session by the arm or leg.	Attaching to a bag of fluid for about 45 minutes by the belly	Attaching to a machine for about 9 hours by the belly
Usual Number Of Sessions In A Week	3 times a week (day)	At least 3 times a week (day or night)	Every day	Every night
Usual Number Of Sessions In A Day	1 x 4 hour session	1 x 4 hour session	4 x 45 minute sessions	1 * 9 hour session
People Carrying Out Dialysis	Staff at the centre. Person with EKD trained for shared care.	Person with EKD trained by kidney staff.	Person with EKD trained by kidney staff.	Person with EKD trained by kidney staff.
Assisted and shared dialysis	Some people are trained to share CHD/HDF care in centres.	A carer can be trained to carry out HHD. A carer can be family, friend or health assistant (assisted HHD).	A carer can be trained to carry out CAPD. A carer can be family, friend or health assistant (assisted CAPD).	A carer can be trained to carry out APD. A carer can be family, friend or health assistant (assisted APD).

List the activities you do now and want to keep doing when you are on dialysis	
<b>Socialising</b> (e.g. with friends and/or family)	
Hobbles (e.g. gardening, fishing, music, knitting)	
<b>Leisure</b> (e.g. walking, cycling, swimming, sport)	
Holidays, Trips Away (e.g. locally, abroad)	
Local travel (e.g. public transport, driving)	
<b>Household</b> (e.g. cooking, washing up, housework)	
Looking after others (e.g. caring for family, pets)	
<b>Relaxing</b> (e.g. sleeping, watching TV, religion)	
<b>Self-care</b> (e.g. toileting, bathing, dressing, hair)	
<b>Study</b> (e.g. evening classes, writing, reading)	
Work (e.g. job paid, voluntary)	



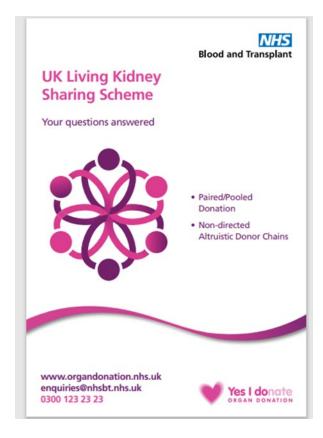
### Support materials for transplantation



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#### **Patient information leaflet**



#### Peer support leaflet



#### PHONE BUDDY SCHEME

The scheme supports Black
African Caribbean people living
with Chronic Kidney Disease (CKD
by matching them with living
donors and living donor
recipients to talk about living
kidney donation.

1. NHS Blood and Transplant. UK Living Kidney Sharing Scheme: Your questions answered. Available from <a href="https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/15427/29800-606mv-living-kidney-sharing-olc2173-web-1.pdf">https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/15427/29800-606mv-living-kidney-sharing-olc2173-web-1.pdf</a>. Accessed March 2023; 2. GOLD: Gift of living donation. Our Vision. Available from <a href="https://www.giftoflivingdonation.co.uk/">https://www.giftoflivingdonation.co.uk/</a>. Accessed March 2023.



# Excellent dialysis preparation... ...utilises the power of peer interventions

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'They will give you the truth but you know that is the truth because they have been through it, more than someone who has read through a book... for someone that has actually been through it and felt the pain, the grief and the happy times and the bad, you know all of it, they know because they have been there.'

'I have learnt more from the patients than I have the medical staff to be honest.'

'I didn't know
what dialysis was
or what it looked
like but when I saw
the machine, I saw
someone else
having it done and
I thought it don't
look too bad.'

'I feel like I am just repeating a cycle... I feel so worthless... she gave me hope, she gave me the confidence that I needed.'

'There was so much information... she helped make sense of it and explained a lot of it.'

'To me, the patients know more because they are on it, I am not saying they know how to do it, or what it exactly does but they know the pain part of it, like all the rest of it, all of the important bits to me, the doctors know all of the professional bits, if that makes any sense.'



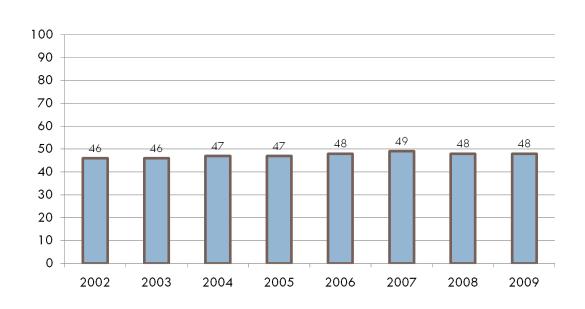
## Are patients satisfied with current SDM?



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What proportion of patients want more involvement in treatment decisions? Source: NHS inpatient surveys<sup>1</sup>

Patient Reported Experience of Kidney Care in the UK 2020 KCUK & RA<sup>2</sup>





Shared Decision Making – still room for improvement, but how?



## Shared decision making and transplantation



- Risks and benefits
- Option of live donor and possible benefits
- Option to transplant pre-emptively
- Realistic need to re-transplant
- BMI optimisation

- How long will I have to wait on the transplant list?
- Can I go on holiday whilst on list?
- How might I ask someone to be my live donor?
- How long will I be in hospital for?
- How big will my scar be?
- When can I go back to work?
- How can I get hold of the team urgently if I run out of tablets?
- How long will my kidney last?



# Preparing for end stage renal disease and dialysis



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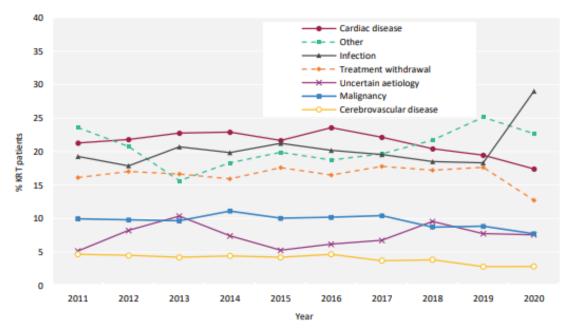


# Complications and risks associated with ESRF including risk of sudden cardiac death



- CVS events
- Vascular events
- Infection
- Malignancy
- Access failure
- Treatment withdrawal

**Figure 3.16** Cause of death between 2011 and 2020 for adult patients prevalent to KRT at the beginning of the year



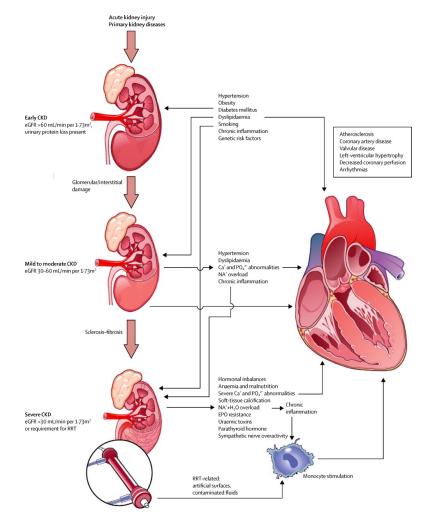


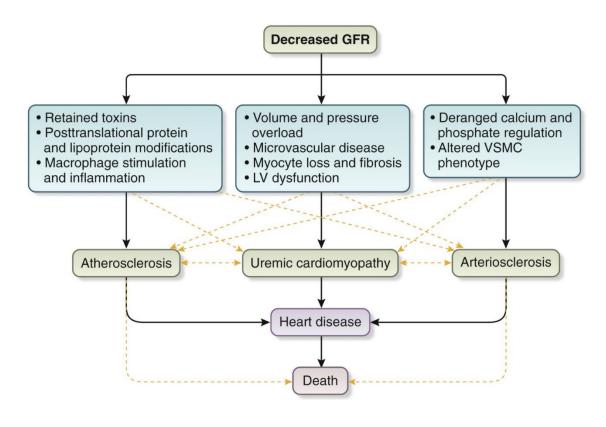
### CVS effects of CKD



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CKD, chronic kidney disease; CVS, cardiovascular; GFR, glomerular filtration rate; LV, left ventricular; VSMC, vascular smooth muscle cell. Gansevoort RT, et al. Lancet 2013;382:339-352.

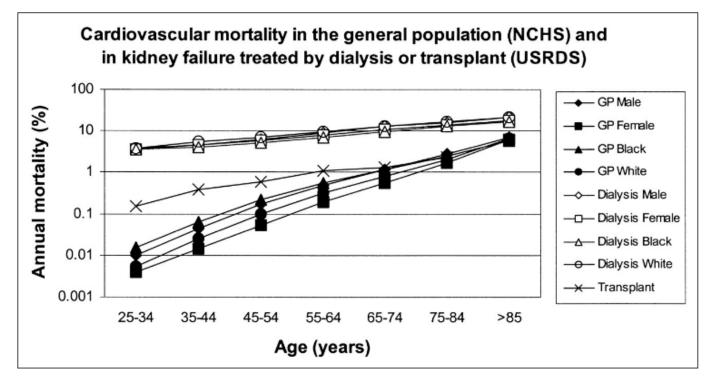


### CV mortality in the general population and in kidney failure treated by dialysis or transplant

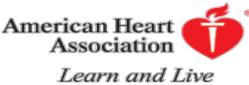


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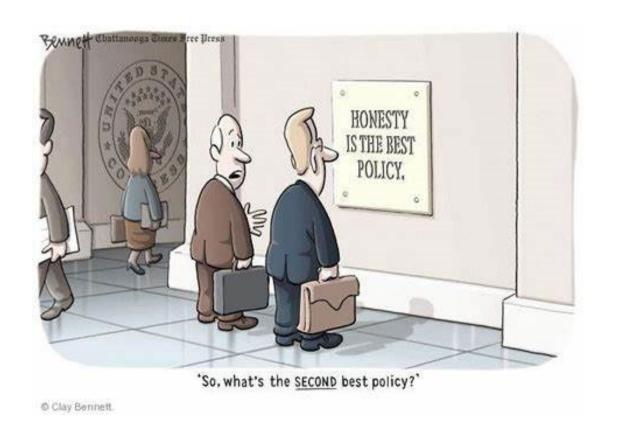


## Excellent dialysis preparation... ...is honesty



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'The doctors, the nurses, they lied to me... they said it would be easy and dialysis would simply fit around my life'

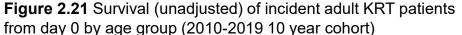


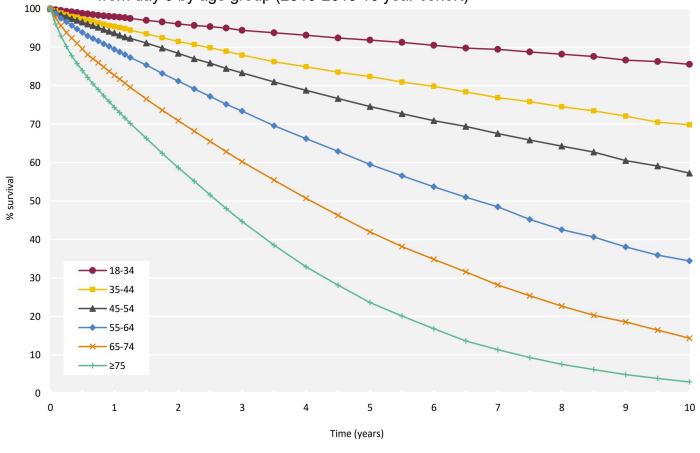


# Excellent dialysis preparation... ...is honesty



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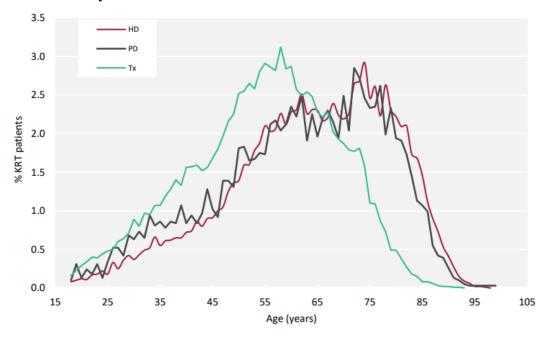
# Where possible transplantation is the best option<sup>1,2</sup>



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**Figure 3.6** Age profile of adult patients prevalent to KRT on 31/12/2020 by KRT modality



HD, haemodialysis; KRT, kidney replacement therapy; PD, peritoneal dialysis; Tx, transplant.

1. BBC News. Covid: Third time lucky for kidney transplant siblings. Available from <a href="https://www.bbc.co.uk/news/uk-wales-55641118">https://www.bbc.co.uk/news/uk-wales-55641118</a>. Accessed March 2023; 2. UKKA. 24th Annual Report: Chapter 3: Adults on kidney replacement therapy (KRT) in the UK at the end of 2020. Available from <a href="https://ukkidney.org/sites/renal.org/files/24th">https://ukkidney.org/sites/renal.org/files/24th</a> UKRR ANNUAL REPORT PREV Ch3 0.pdf. Accessed March 2023.

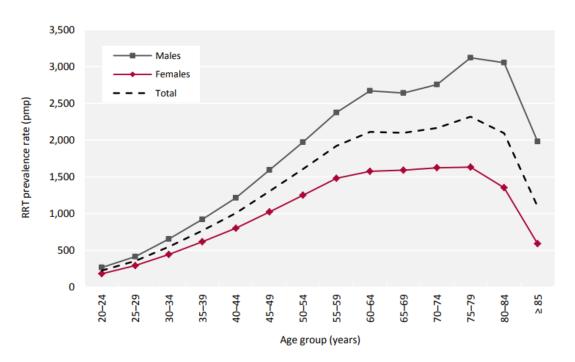




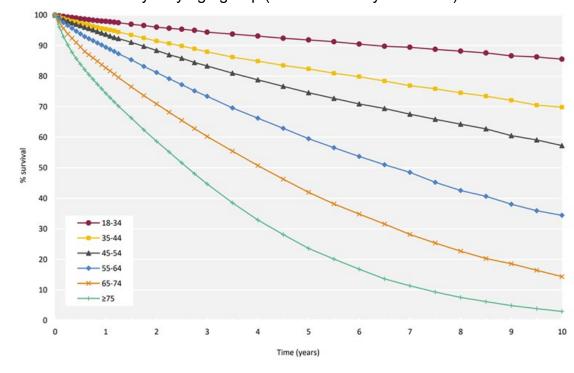
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#### Patients on RRT by age - an older population with changing needs

**Figure 2.4** Prevalence rates for adult patients on RRT on 31/12/2018 by age group and sex



**Figure 2.21** Survival (unadjusted) of incident adult KRT patients from day 0 by age group (2010-2019 10 year cohort)



KRT, kidney replacement therapy; RRT, renal replacement therapy.

1. UKKA. 22<sup>nd</sup> Annual Report: Chapter 2: Adults on renal replacement therapy (RRT) in the UK at the end of 2018. Available from <a href="https://ukkidney.org/sites/renal.org/files/22nd">https://ukkidney.org/sites/renal.org/files/22nd</a> UKRR ANNUAL REPORT Ch2.pdf. Accessed March 2023; 2. UKKA. 24<sup>th</sup> Annual Report: Chapter 2: Adults starting kidney replacement therapy (KRT) for end-stage kidney disease (ESKD) in the UK in 2020. Available from <a href="https://ukkidney.org/sites/renal.org/files/24th">https://ukkidney.org/sites/renal.org/files/22nd</a> UKRR ANNUAL REPORT INC Ch2 0.pdf. Accessed March 2023.

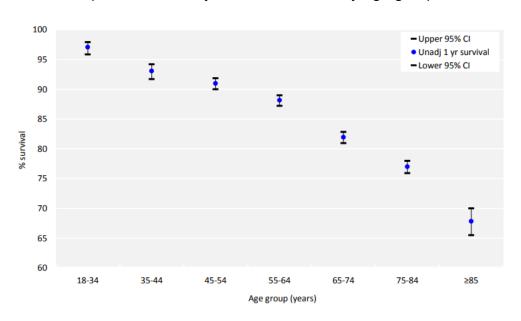


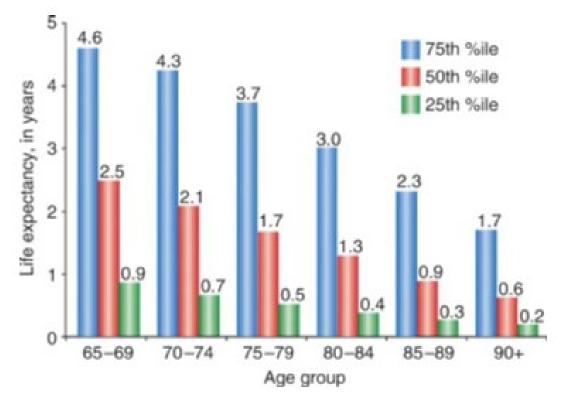


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#### Survival on dialysis by age

**Figure 2.12** 1 year survival (unadjusted) of adult patients prevalent to dialysis on 31/12/2017 by age group





#### CI, confidence interval.

1. UKKA. 22<sup>nd</sup> Annual Report: Chapter 2: Adults on renal replacement therapy (RRT) in the UK at the end of 2018. Available from <a href="https://ukkidney.org/sites/renal.org/files/22nd\_UKRR\_ANNUAL\_REPORT\_Ch2.pdf">https://ukkidney.org/sites/renal.org/files/22nd\_UKRR\_ANNUAL\_REPORT\_Ch2.pdf</a>. Accessed March 2023; 2. Tamura MK, et al. Kidney International 2012;82:261-269.

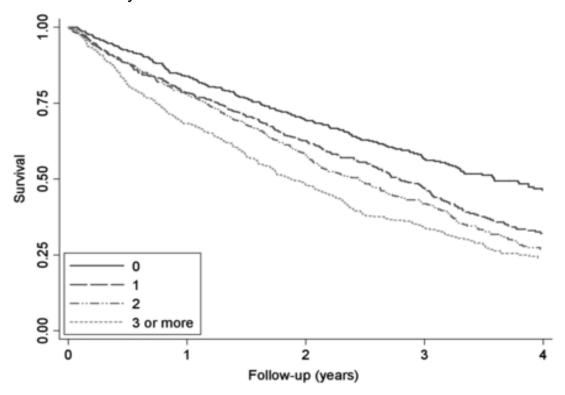




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#### Survival according to number of co-morbidities

**Fig. 2.** Survival of patients aged ≥75 years initiating dialysis in Australasia between January 2002 and December 2005.





## Conservative Care - an enabling pathway that allows maximum freedom



#### Primary Care Cardiovascular Society

- Choice after honest assessment SDM where possible emphasise dialysis slots ARE available for those who wish to try
- Optimisation of function and priorities
  - Symptom management
  - Specialised clinic referral falls, memory, CGA
  - Correct polypharmacy
  - Allow long periods of travel abroad
- Advance Care planning
  - Treatment escalation plans, preferred place of care
- Care of wider family after loss (including cultural/spiritual needs); information for relatives/carers
- Optimising functionality through to end of life goals of care

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DECISION MAKING > 15% - supporting you to make your treatment choice	STABILITY 10-15% Supporting you to achieve your goals	IMPROVING SYMPTOMS < 10%	LATER AND END OF LIFE CARE < 6%	CARE FOR YOUR LOVED ONES AFTER LOSS
Assessment Education Choice Shared decision making	Patient and family education  Preservation of kidney function  Optimisation of physical and cognitive function  Symptom control  Introduction of advance care planning	Patient and family education  Preservation of kidney function  Optimisation of physical and cognitive function  Symptom control  Creation of community care network  Creation of advance care plan  Crisis plan	Patient and family education Optimisation of quality of life Symptom control Increasing use of network of community care Enactment of advance care plan Crisis plan	Family support  Memorial events



### Background

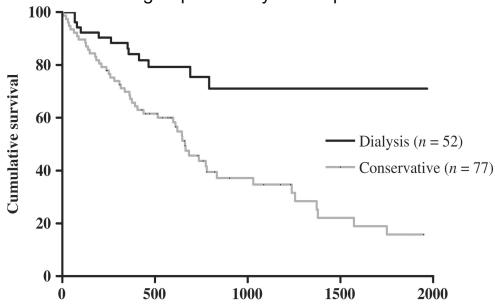


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### Comorbidity and survival RRT vs conservative management

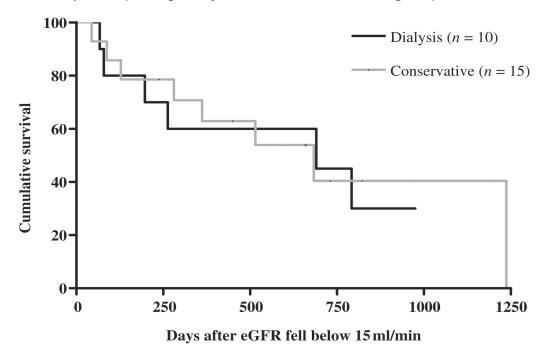
**Fig. 2.** Kaplan–Meier survival curves comparing the dialysis and conservative groups in >75 year old patients



Days after eGFR fell below 15 ml/min

A retrospective analysis of the survival of all over 75 years with CKD stage 5 attending dedicated multidisciplinary pre-dialysis care clinics (n = 129). Survival was defined as the time from estimated GFR <15 ml/min to either death or study endpoint.

**Fig. 3.** Kaplan–Meier survival curves for those with high comorbidity (score = 2), comparing dialysis and conservative groups



CKD, chronic kidney disease; eGFR, estimated glomerular filtration rate; RRT, renal replacement therapy. Murtagh FEM, et al. Nephrol Dial Transplant 2007;22:1955-1962.



# SDM for the older frailer patient - clinician guidance on key issues - what does the patient/family know already?



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- What do they know about dialysis?
- Do they know anyone on dialysis?
- Do they/their family understand what dialysis actually involves?
- What are they hoping dialysis will achieve?
- Will dialysis make them live longer?
- Will dialysis make them feel better, relieve symptoms and allow them to do the things that are important to them?
- Are their symptoms actually renal related?
- How medicalised do they feel they wish to be?
- Is dialysis practical where is their local dialysis unit?

- Will dialysis be distressing
  - Unfamiliar environment how often do they currently leave their house
  - Exhausting
  - Take away precious time with loved ones
- Is their an alternative path
  - To care for their kidneys
  - To treat their different problems (frailty, pain, memory, etc) more effectively
- This is not rationing this is choice
- Is the plan clearly documented and accessible to all relevant parties - patient, GP, community services?





#### Information gathering

What are their values (what might they want - QOL vs. length of life - trade offs; uncertainty)

- Who are they good social history
- What are their values/religious beliefs
- Who helps them to make decisions but also who will be doing the dialysis

#### What is their functional state (helps predict practicalities (or not) of dialysis and overall prognosis of patient)

- Physical Clinical frailty score
- Cognitive Cube/clock/MoCA

#### What is their likely need for renal replacement - many especially if progressing slowly will die prior to "needing" dialysis

Are they progressing at a rate (look at rate of GFR decline per year) which suggests they will reach of GFR of 7- 8 ml/min or less in their lifetime - deciding not to decide and acknowledging may not need to decide





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#### **Uncertainty**

#### SYMPTOMS & FUNCTION

Symptoms directly related to kidneys
(may be helped by RRT or medical care)
Symptoms related to wider needs
(not helped by dialysis - requiring OT/physio/specialist clinic Preservation of cognitive and physical function

#### SURVIVAL

Overall survival days
Treatment free survival days

#### **FAMILY**

PATIENT

#### CULTURAL CONSIDERATIONS

Religious beli<mark>efs</mark>
Nature of medical decision making
(individual or family driven)

#### QUALITY OF LIFE

Desire to avoid medicalisation and operations
Use of free time for pursuit of hobbies
Use of time to spend with loved ones
Ease of international travel
Prioritisation of achieving PPC at end of life

#### **PRACTICALITIES**

Physical ability to leave
House for treatment
Confusion in unfamiliar environment
Significant travel burden to dialysis unit

**Uncertainty** 



## Screening for Frailty in CKD



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- Perceived frailty is an inadequate proxy for measured frailty
- Older adults more likely to be misclassified as frail
- Need for an efficient, sensitive and discriminative outpatient frailty screening method in the CKD population
- Clinical Frailty Scale most accurate non-physical assessment frailty screening method in patients over 65
- There is also significant Frailty in patients under 65 with CKD

#### Clinical Frailty Scale\*



I Very Fit – People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.



2 Well – People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally.



3 Managing Well – People whose medical problems are well controlled, but are not regularly active beyond routine walking.



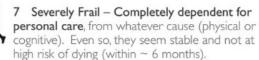
4 Vulnerable – While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up", and/or being tired during the day.



5 Mildly Frail — These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.



6 Moderately Frail – People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.







9. Terminally III - Approaching the end of life. This category applies to people with a life expectancy <6 months, who are not otherwise evidently frail.

#### Scoring frailty in people with dementia

The degree of frailty corresponds to the degree of dementia. Common **symptoms in mild dementia** include forgetting the details of a recent event, though still remembering the event itself, repeating the same question/story and social withdrawal.

In moderate dementia, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

In severe dementia, they cannot do personal care without help.

- 1. Canadian Study on Health & Aging, Revised 2008.
- K. Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:489-495.

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- Many elderly patients fare badly on dialysis:
  - >3000 nursing home residents with mean age 73 years, by 12 months after dialysis start 58% had died and all but 13% had experienced a substantial and sustained decline in functional status

'Give people the care they need and no less, the care they want and no more.'

'Just because we can, doesn't mean we should.'



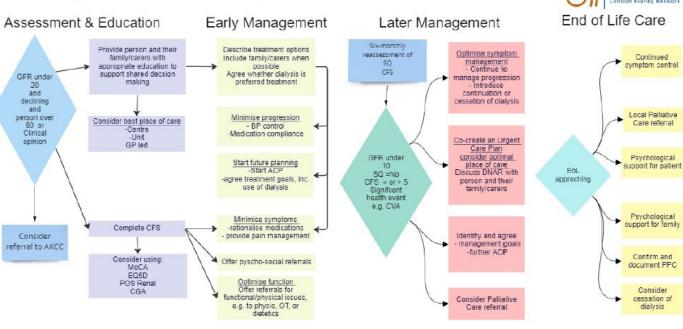
# London Kidney Network Supportive Care Pathway\*



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Metrics

Evidence of baseline assessment 2. Documentation of shared decision making discussion and outcome

 ACP discussion documented
 CFS reviewed
 Symptom assessment(s) documented ACP reviewed and decisions documented
 DNAR status documented
 Urgent Care Plan completed
 PPC documented

 Hospital admissions in last year of life
 Place of death recorded
 Symptom scored recorded



## Conservative Care - an enabling pathway that allows maximum freedom



#### Primary Care Cardiovascular Society

- Choice after honest assessment SDM where possible emphasise dialysis slots ARE available for those who wish to try
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# Medical and supportive care for older patients with CKD



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#### Older person with advanced CKD

Ageing, increasing frailty, co-morbidity, and disease progression

#### MEDICAL CARE FOR PATIENTS THROUGHOUT THEIR CKD JOURNEY

Disease-specific interventions to slow progression to ESKD

Addressing kidney disease-related complications (i.e. anaemia, metabolic acidosis, CKD-MBD)

Addressing issues related co-morbidity and frailty

Haemodialysis

**Peritoneal Dialysis** 

**Kidney Transplant** 

Conservative Kidney Management

Deciding not to decide

#### SUPPORTIVE CARE FOR PATIENTS THROUGHOUT THEIR CKD JOURNEY

Shared decision making and advanced care planning
Symptom assessment and management
Crisis planning and, when appropriate, end-of-life care discussions

#### Access

Tunnelled dialysis catheter instead of AV fistula

#### Consider an incremental regimen:

Shorter or less frequent HD sessions

Compassionate support for HD withdrawal

#### **Assisted PD**

Healthcare professional or family provided PD

#### **PD Prescription:**

Incremental PD Supportive two-exchange CAPD for symptom control

Compassionate support for PD withdrawal

#### Failing kidney transplant

Apply principles of supportive care, consider conservative care

Functioning kidney transplant approaching end-of-life for other reasons

Apply principles of supportive care

#### Individualised treatment plan based on person's priorities

QoL Functional independence Symptom control Survival

Regularly evaluate appropriate (drug) treatment

Compassionate support for patients not ready to commit for a particular treatment option

CAPD, continuous ambulatory peritoneal dialysis; CKD, chronic kidney disease; ESKD, end-stage kidney disease; HD, haemodialysis; MBD, mineral and bone disorder; PD, peritoneal dialysis; QoL, quality of life.



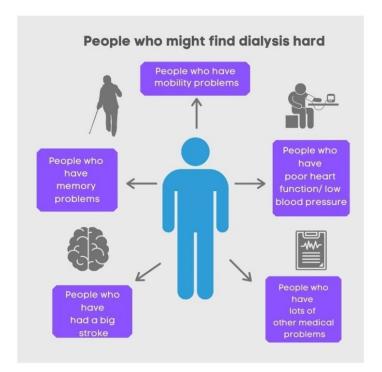
### Patient reassurance is important

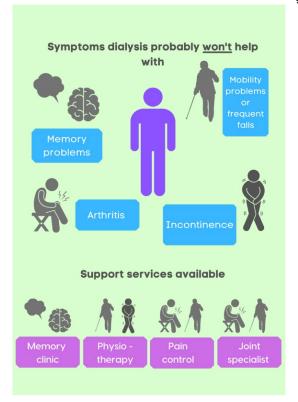


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 Some patients misunderstand what dialysis can/does not treat and fear missing out on treatment for other problems if they do not start dialysis - reassurance needed that they

will receive treatment even without dialysis

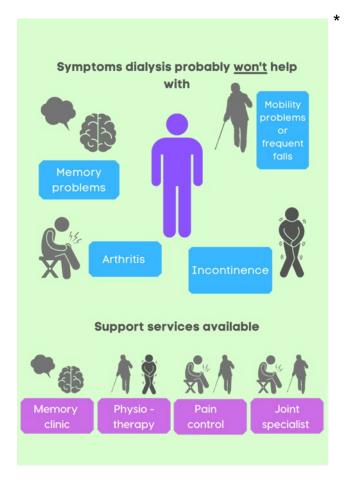






# What things can I do to help symptoms not related to kidneys





- Other specialists
- Falls clinic
- Memory clinic
- OT/PT
- Counselling
- Comprehensive geriatric assessment
- De-prescribe polypharmacy



## CKD in the elderly and frail



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#### **OVERVIEW**

- CKD in the context of frailty is associated with high risk of poor outcomes (AKI, CVD, fractures, dementia, harm from polypharmacy)
- However, reduced eGFR may be of less clinical significance in older or frailer patients than in the younger population
- Best management of these patients may differ from guidance for the general population, and needs to consider other factors such as independence and quality of life

Palliative Care The Renal Supportive Care team help look after patients with symptomatic Stage 5 CKD and those actively dving from it

- Please see separate guidance for advice regarding symptom control in Stage 5 CKD
- Palliative care services can provide assistance for patients dying of symptomatic Stage 5 CKD
- Consider advance care planning (DNACPR, preferred place of care and death) in a timely fashion, and ensure patient has an appropriate Coordinate My Care plan

#### Chronic kidney disease in the Elderly and Frail

Author: Dr Will White, Renal Department, Barts Health Version number: 1.0 Review Date: January 2025

#### **KEY POINTS**

#### Stage 3 and Stage 4 CKD

- GFR reduces with age (reduction of up to 2mL/min/year after age 70 years)
- In the absence of significant proteinuria (ACR > 70 mg/mmol or PCR > 100 mg/mmol) eGFR is less predictive of progression to symptomatic kidney failure with increased age
- Guidelines for the management of CKD lack evidence for use in older, frailer patients, and may be harmful

#### Stage 5 CKD

- Dialysis may offer only a modest increase in lifespan for patients > 80 years or > 70 years with poor performance status and significant comorbidities, and is often associated with reduced QOL
- Conservative or symptomatic management of kidney failure may be more appropriate for these patients
- Management should consider comorbidities, function and patient priorities, with an emphasis on maintaining independence and QOL
- Advance care planning should be considered at an early stage

#### CKD MONITORING + REFERRAL

#### Monitoring

- Frequency of monitoring of renal function should be agreed with the patient decline may be very slow and inconsequential in quality of life terms
- There is little purpose in routine blood testing of patients who are for purely symptomatic management

#### Referral to Nephrology

- If rapid decrease in eGFR consider:
  - obstructive uropathy (US KUB),
  - · myeloma (serum protein electrophoresis + serum free light chains)
  - LITIs
- Consider nephrology referral if there is an unexplained and sustained decrease in eGFR +/- new nephrotic albuminuria (urinary ACR > 320 mg/mmol)
- Any patient being considered for dialysis should be under the care of a nephrologist
- The Renal Supportive Care team help look after patients with an eGFR < 15 who are unsuited to or who have declined dialysis (email address under Speciality Advice)

#### Anaemia

- Patients with refractory and symptomatic renal anaemia (Hb < 100 g/L) may benefit from treatment with intravenous iron and/or subcutaneous erythropoietin via the vCKD service</li>
- Renal anaemia should only be diagnosed once other causes of anaemia are excluded such as iron deficiency / B12 deficiency / folate deficiency / GI bleed / haemolysis
- 6 monthly blood tests are recommended for all patients on erythropoietin and 1-2 months after starting, restarting or changing dose

ACR, albumin:creatinine ratio; AKI, acute kidney injury; CKD, chronic kidney disease; CVD, cardiovascular disease; DNACPR, do not attempt cardiopulmonary resuscitation; eGFR, estimated glomerular filtration rate; GI, gastrointestinal; Hb, haemoglobin; KUB, kidney, ureter and bladder; PCR, protein:creatinine ratio; QOL, quality of life; US, ultrasound; UTIs, urinary tract infections; vCKD, virtual chronic kidney disease. White W. Chronic kidney disease in the Elderly and Frail v.1. Renal Department, Barts Health NHS Trust.



## CKD in the elderly and frail



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#### Chronic kidney disease in the Elderly and Frail

#### MEDICATION CAUTIONS

- Elderly are susceptible to ↑ K+ with NSAIDs. ACE-Is/ARBS or spironolactone (the latter severe and persistent due to long half-life)
- Trimethoprim can cause a self-limiting ↑ K+ & ↑ creatinine by inhibiting renal
- Elderly are susceptible to ↓ K+ & ↓ Na+ with loop diuretics and thiazides
- Some β-blockers (including atenolol and bisoprolol) will accumulate in advanced CKD and can cause bradycardia / bradyarrhythmias

#### MANAGEMENT TIPS

- Aim systolic blood pressure 130-160 mmHq, diastolic 80-90 mmHq, assessing for postural drop (falls risk), in frail elderly patients
- · Renal metabolism of insulin decreases with reduced eGFR leading to an increase in risk of hypoglycemia:
  - Avoid excessively tight glucose control: aim HbA1C 58-70 mmol/mol in frail elderly patients
- Avoid treating isolated ankle oedema with diuretics
- Vitamin D deficiency is common in elderly:
  - · replace with colecalciferol (use of activated vitamin D to suppress PTH is no longer recommended in non-dialysis patients)
- There is an increased risk of bleeding in advanced CKD, which may outweigh the benefits of anticoagulation:
  - anticoagulation decisions (e.g. for AF) may need a MDT approach
- Elderly susceptible to acidosis:
  - keep serum bicarbonate > 22 mmol/L with oral sodium bicarbonate
- · Deprescribing of medications that will not increase quality (nor realistically quantity) of life reduces pill burden and complications of polypharmacy

#### SPECIALITY ADVICE FOR GPs

Virtual CKD (via EMIS) or A&G (Systm 1)

Renal Supportive Care: <u>bartshealth.renalsupportivecareteam@nhs.net</u>

#### DIETARY ADVICE

- Elderly people with advanced CKD generally have a reduced appetite
- · Strict adherence to usual renal dietary restrictions may not be necessary. It may be more appropriate to encourage "a little of what they fancy" to ensure small nourishing meals and snacks are eaten daily
- Healthy eating principles can also be relaxed and energy dense foods e.g. biscuits, cake, pastries can be encouraged
- Patients with diabetes should be guided by their diabetes team, in order to optimise their glycaemic control
- No added salt diet is recommended in Stage 5 CKD, the same as for the general population
- Foods can be flavoured with herbs, spices, garlic, onion, fresh ginger, lemon, vinegar and pepper instead of salt
- Fluid restriction is not typically required for elderly / frail patients with Stage 5 CKD. If a patient also has heart failure then fluid intake should be guided by their heart failure team
- If a patient has a healthy appetite then renal dietary advice may be applicable:
  - · Low potassium diet
  - · Low phosphate diet may help reduce itch
- · First line low potassium, low phosphate and no added salt dietary information is available in both written & pictorial form from bartshealth.RLHrenaldietitians@nhs.net

Kidney Care UK low potassium diet sheet https://www.kidneycareuk.org/documents/260/Lowering your potassium levels.pdf

Please see the separate sheet for advice about oral nutritional supplementation

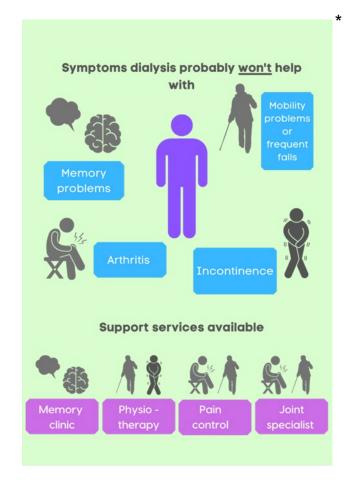
> Author: Dr Will White, Renal Department, Barts Health Version number: 1.0 Review Date: January 2025

ACE-Is, angiotensin-converting enzyme inhibitors; AF, atrial fibrillation; A&G, Advice and Guidance; ARBs, angiotension receptor blockers; β, beta; CKD, chronic kidney disease; eGFR, estimated glomerular filtration rate; GPs, general practitioners; HbA1c, haemoglobin A1C; K+, potassium; MDT, multidisciplinary team; Na+, sodium; NSAIDs, non-steroidal antiinflammatory drugs; PTH, parathyroid hormone; UK, United Kingdom. White W. Chronic kidney disease in the Elderly and Frail v.1. Renal Department, Barts Health NHS Trust.



# Working on dialysis and transplant units: what things can I do to help symptoms not related to kidneys





- Other specialists
- Falls clinic
- Memory clinic
- OT/PT
- Counselling
- Comprehensive geriatric assessment
- De-prescribe polypharmacy



# Supportive care on dialysis units working with our community care expert colleagues

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- For many patients this starts before they start dialysis
  - · Realistic expectations of objectives and limitations of dialysis
  - · Honest discussion of realistic goals of care
- Focus of optimising quality of life
  - Reducing renal symptoms
  - · Ensuring referrals for other frailty syndromes
- Acknowledgement of shorter prognosis
  - Removal of prognostically unhelpful meds
  - Loosening of targets BP, phosphate
  - · Opportunities to discuss with patients and family wishes for future
  - Place of care, circumstances where would wish to stop
- · Opportunities for altered dialysis regimes
  - · Shorter sessions
  - · Fewer sessions
- Exploration of stopping dialysis if desired
- Working with
- Primary care
- Hospices
- Community services











<sup>1.</sup> Nursing Standard. Majority of district nurses 'work in teams with unfilled posts'. Available from <a href="https://rcni.com/nursing-standard/newsroom/news/majority-of-district-nurses-work-teams-unfilled-posts-87271">https://rcni.com/nursing-standard/newsroom/news/majority-of-district-nurses-work-teams-unfilled-posts-87271</a>. Accessed March 2023; 2. Leeds Mental Wellbeing Service. Primary Care Mental Health (PCMH). Available from <a href="https://www.leedscommunityhealthcare.nhs.uk/our-services-a-z/leeds-mental-wellbeing-service/what-we-offer/primary-care-mental-health-pcmh/">https://www.leedscommunityhealthcare.nhs.uk/our-services-a-z/leeds-mental-wellbeing-service/what-we-offer/primary-care-mental-health-pcmh/</a>. Accessed March 2023; 3. St Christopher's. Visiting information. Available from <a href="https://www.stchristophers.org.uk/visiting">https://www.stchristophers.org.uk/visiting</a>. Accessed March 2023; 3. St Christopher's. Visiting information. Available from <a href="https://www.stchristophers.org.uk/visiting">https://www.stchristophers.org.uk/visiting</a>. Accessed March 2023; 3. St Christopher's.



# Why and when patients on dialysis units may wish to withdraw from dialysis



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- Have reached significant milestone e.g. anniversary achieved
- Death of significant other
- Major decline in health e.g. after CVA
- Loss of independence
  - Needs residential care
  - No longer able to recognise family
  - No longer able to drive
- Loss of vascular access does not wish to have further procedures
- No longer able to attend local dialysis unit due to increasingly complex medical problems - therefore would have to undertake much longer journey to medically supported unit



## Withdrawing from dialysis - checklist



- Ensure the patient understands what withdrawal means and what the consequences will be
- Try to involve the family (as long as patient allows)
- Validate their decision
- Treat depression
- Improve treatable symptoms
- Try to offer practical support if they have a sense of burden to others
- Offer a better dialysis schedule (twice weekly) or location if not currently being achieved
- Exclude external pressure



#### **Shared Decision Making Process**

Withdrawal from dialysis may be raised by patient, family or team caring for the patient in the renal unit or elsewhere, in or out of hours<sup>a</sup>.

Ensure Consultant lead team (including GP where possible) patient/representative and family discussion held and documented in patient's record.

#### Assess and address potentially reversible factors that may influence decision making such as:

- Depression.
- Practical issues transport.
- · Complications during dialysis.
- Complex symptoms which are untreated.
- Psychosocial issues.
- · Acute life threatening illness.

#### Withdrawal Process

- A negotiated cool-off period to ensure considered and consistent decision (if patient's clinical condition will permit).
- Planning meeting with patient, family and Consultant lead team including discussions around what to expect, prognosis, attempted resuscitation. Document
- 3. DNAR CPR Document completed as appropriate.
- 4. Provide patient with dialysis withdrawal information leaflet.
- Notify relevant community services and GP.
- Ensure appropriate information included within electronic discharge letter if patient being discharged from hospital.
- 7. Establish preferred place of care; home, hospice, nursing home, hospital.
- Complete fast track and Co-ordinate my Care register if appropriate.
- Refer to specialist palliative care (community/hospital) as appropriate.
- 10. Offer spiritual, social work, psychological support to patient and family.
- 11. Separate Referral to Renal Psychology service as appropriate.
- Review medications.
- Assess current symptoms and prescribe anticipatory medicines in line with Trust guidelines http://tww-wafr/WAFR-
- FAD/Applications/ClinicalGuidance/User/Details.aspx?id=3682
- Plan for care in line with Trust protocol for care in the last days of life.http://tww
  - sharepoint/sites/GeneralPolicies/Document%20Library/End%20of%20Life%20Care%20protocol.doc



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CPR, cardiopulmonary resuscitation; DNAR, do not attempt resuscitation; GP, general practitioner; MCA, Mental Capacity Act. Guy's and St Thomas' NHS Foundation Trust: Dialysis Withdrawal Protocol.



## Top messages primary care can share



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#### **PREVENTION**

- Most kidney disease is not symptomatic - this does not mean you are not ill
- Prevention of kidney disease is always better than "treatment" with dialysis and "cure" with transplantation

#### **SPECIALIST KIDNEY CARE**

- Not everyone can have a transplant but if you can it's the best treatment
- Live donors are best of all the criteria are wide
- Dialysis can be made to fit your life - think about home options where possible

#### **EXPERT HOLISTIC CARE**

- Many older patients are living with significant kidney disease but their life will come to a close due to other co-morbidities
- Not everyone benefits from dialysis - some people don't - its not rationing - please think about the patient in front of you and manage expectations accordingly



# Preparing for end stage renal disease and dialysis



- Discuss how ESRF is classified
- Discuss when may be appropriate to initiate dialysis and the types available
- Consider complications and risks associated with ESRF including risk of sudden cardiac death
- Early identification of end of life care and palliative care management for patients with ESRF
- Explore education strategies and SDM in ESRF
- Share resources available for patients in ESRF and on dialysis
- I have tried to give you a lot of information about how the patient may be experiencing the situation in order to help you support them



## General resources about kidney disease

#### Primary Care Cardiovascular Society

- Kidney Care UK
- National Kidney Federation
- Kidney Research UK
- NHS Blood and Transplant
- London Kidney Network: the patient information booklets containing the infographics referenced in this talk will be available via the London Kidney Network website which will go live later in Summer 2023.











## Resources to help transplantation - NHS BT<sup>1-3</sup>



#### Primary Care Cardiovascular Society

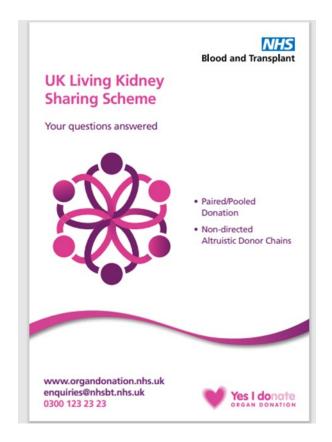
Driving primary care to deliver the best in cardiovascular health



## Expert support and resources for clinicians

Get the latest organ-specific reports, clinical guidance, procedural documents, strategic initiatives, meeting presentations and agendas from advisory and patient support groups.

#### >> Go to the ODT clinical website



#### GOLD programme



#### PHONE BUDDY SCHEME

The scheme supports Black
African Caribbean people living
with Chronic Kidney Disease (CKD
by matching them with living
donors and living donor
recipients to talk about living
kidney donation.

BT, Blood and Transplant; NHS, National Health Service; ODT, Organ Donation and Transplantation; UK, United Kingdom.

1. NHS Blood and Transplant. Organ donation and transplantation: Give the gift of life after your death. Available from <a href="https://www.nhsbt.nhs.uk/what-we-do/transplantation-services/organ-donation-and-transplantation/">https://www.nhsbt.nhs.uk/what-we-do/transplantation-services/organ-donation-and-transplantation/</a>. Accessed March 2023; 2. NHS Blood and Transplant. UK Living Kidney Sharing Scheme: Your questions answered. Available from <a href="https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/15427/29800-606mv-living-kidney-sharing-olc2173-web-1.pdf">https://nhsbtdbe.blob.core.windows.net/umbraco-assets-corp/15427/29800-606mv-living-kidney-sharing-olc2173-web-1.pdf</a>. Accessed March 2023; 3. GOLD: Gift of living donation. Introducing Our Phone Buddy Scheme. Available from <a href="https://www.giftoflivingdonation.co.uk/gold-telephone-buddy-scheme/">https://www.giftoflivingdonation.co.uk/gold-telephone-buddy-scheme/</a>. Accessed March 2023.



## Helping older, frailer patients with late stage kidney disease



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- To help understand prognosis
- Known risk factors for poor prognosis (age, comorbidities, severe malnutrition, poor functional status) can be used together with the 'surprise' question to estimate prognosis



Managing difficult conversations booklet



Table 7: Strategies and suggested language for dealing with direct confrontation

"I think it's a bit of a shock. Something like this would probably freak them out, 'How would you like to die?' 'You mean I'm dying already? I've just started on dialysis.'" (Hussain, person with kidney failure)				
Key ideas  People assume the health professional has bad news about their health status if they start a conversation	Strategies and suggested language Provide perspective. "I can tell that this is a hard conversation to be having. Right now, you are doing			
about future care.	well. I am bringing this up now because of the uncertainty about what is ahead, and our need to be prepared in case something unexpected happens."			
Conversations about the future inevitably bring up fears about dying.	Ask the person what makes them concerned "It sounds like you are pretty worried that you might be close to the end. Please tell me more."  Name and explore what is hard.  "I know that this can be scary to talk about. What are your biggest fears?"			
The health professional's key task is to manage anxiety, emphasising what is still possible while exploring the person's concerns and the medical realities.	Be honest and as hopeful as you can realistically be. "I do think you are in a very difficult place, and your disease is worsening. I think time may be getting short. At the same time, you are still here and still very much yourself, and I would like to focus on helping you feel as well as possible so you can spend time on what matters most to you."			

<sup>1.</sup> touchcalc. HD Mortality Predictor. <a href="http://touchcalc.com/calculators/sq">http://touchcalc.com/calculators/sq</a>. Accessed March 2023; 2. Kidney Care UK. The Difficult Conversations booklet. Available from <a href="https://www.kidneycareuk.org/health-professionals/difficult-conversations/#:~:text=advance%20care%20planning-">https://www.kidneycareuk.org/health-professionals/difficult-conversations/#:~:text=advance%20care%20planning-</a>





- Renal disease is classified by GFR into five stages
- Patients generally start planned dialysis with GFR between 7-10 ml/min
- Dialysis preparation requires a comprehensive MDT
- Dialysis can be an amazing life saving treatment, but it is also burdensome and complex and it doesn't not benefit every patient
- Patients and their families can have little understanding of the complexity and time involved in dialysis
  - Patient and family education on dialysis and SDM is key
- Early identification of end of life care and palliative care management for patients with ESRF is important





- I would like to thank
  - Those who helped with the talk
  - The audience for listening



the best in cardiovascular health





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  - All staff involved in the supportive care work at the London Kidney Network
  - Staff of the United Kingdom Kidney Association Kidney Quality Improvement Project who created the original patient information infographics subsequently used by the London Kidney Network