ADVANCED CARE PLANNING & END-STAGE KIDNEY DISEASE

RENAL SUPPORTIVE CARE TEAM PRINCE OF WALES HOSPITAL



BACKGROUND

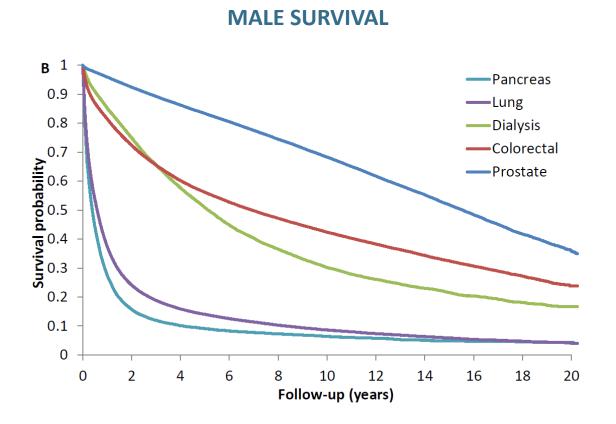
End-stage kidney disease (ESKD) management

- Dismal survival
- Excessive symptom burden
- Poorly defined ceilings of care

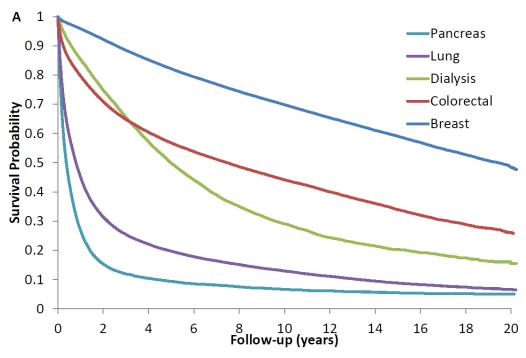
Contextual effects of disease/treatment/psychosocial factors change over time

Early advanced care planning (ACP) a critical factor in decision making

ESKD: WORSE SURVIVAL THAN MALIGNANCIES



FEMALE SURVIVAL

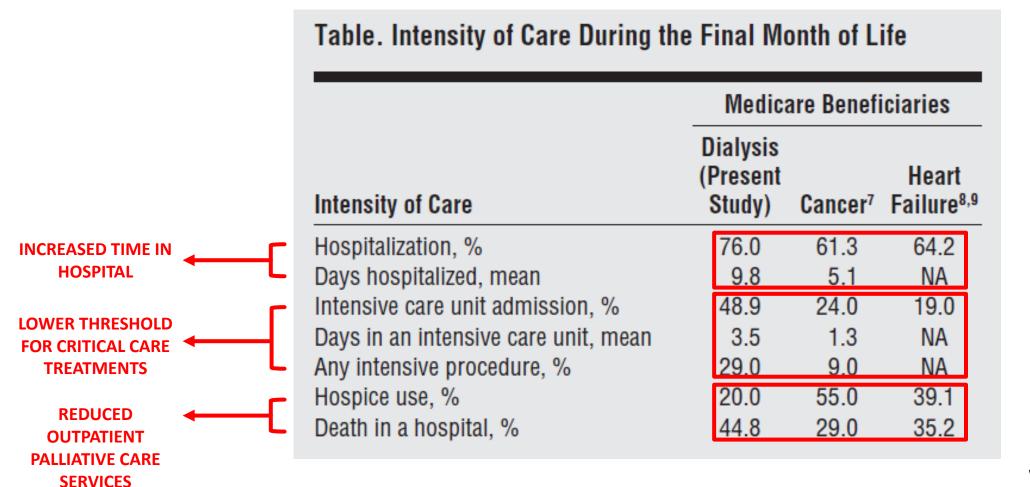


ESKD: COMPARABLE SYMPTOMS TO MALIGNANCY

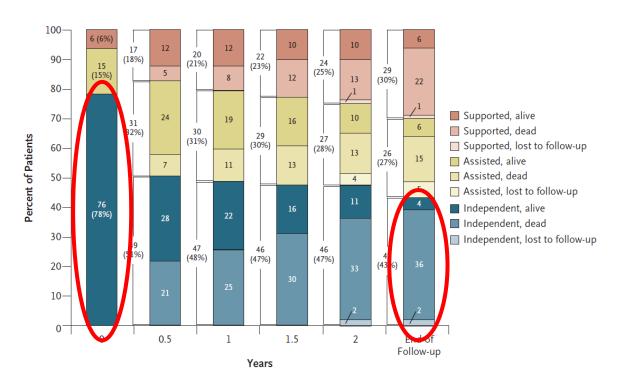
Adjusted Proportions (%)^b (After Propensity Weighting)

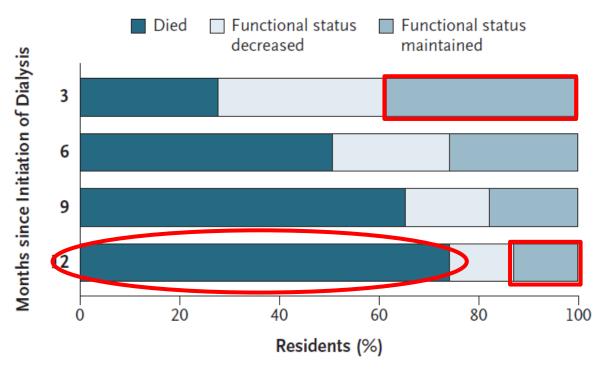
Outcomes ^c	ESRD	Cancer	P^d
Symptoms Often troubled by moderate/ severe pain during last year of	53.7	57.8	0.34
life $(n = 1864)$ Dyspnea $(n = 1466)$ Frequent vomiting $(n = 1444)$ Depression $(n = 1445)$ Periodic confusion $(n = 1466)$	61.1 14.9 53.1 41.4	53.5 20.7 54.2 44.2	0.12 0.09 0.83 0.52

ESKD: INCREASED TREATMENT INTENSITY



ESKD: TREATMENT EFFECTS & FUNCTIONALITY





ESKD LIVING STATUS

50% ESKD patients lose independent living status within 2-years of commencing RRT

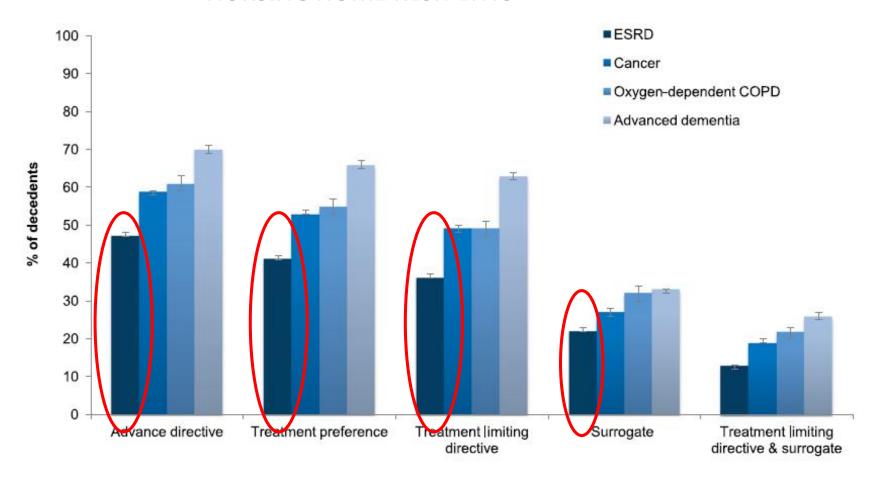
ESKD NURSING HOME FUNCTIONAL CAPACITY

Only 10-15% of nursing home patients maintain functional independence within the 1st year of RRT

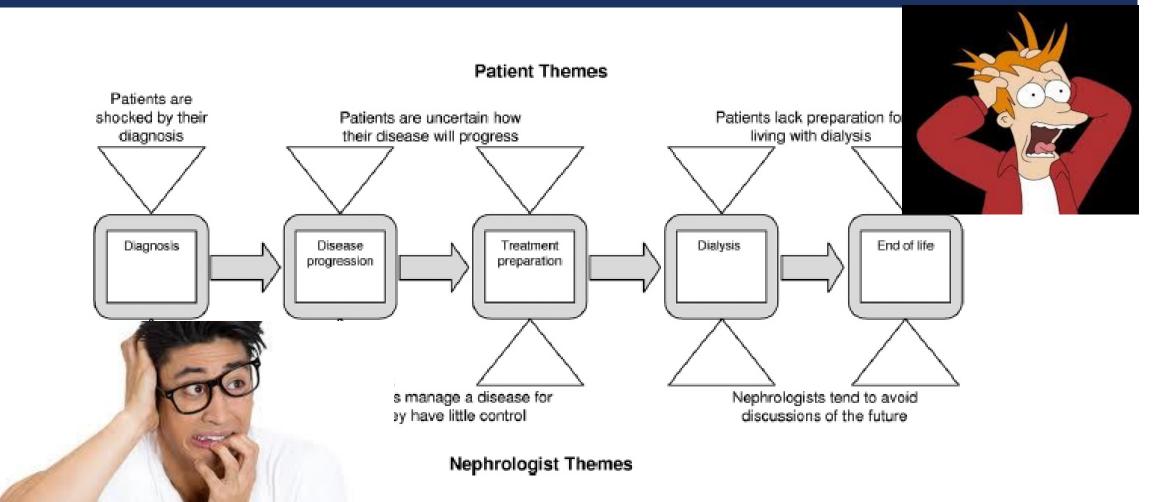
Jassal, *NEJM* 2009 Tamura, *NEJM* 2009 Swidler, *JASN* 2013

HOW ARE NEPHROLOGISTS AT ACP?

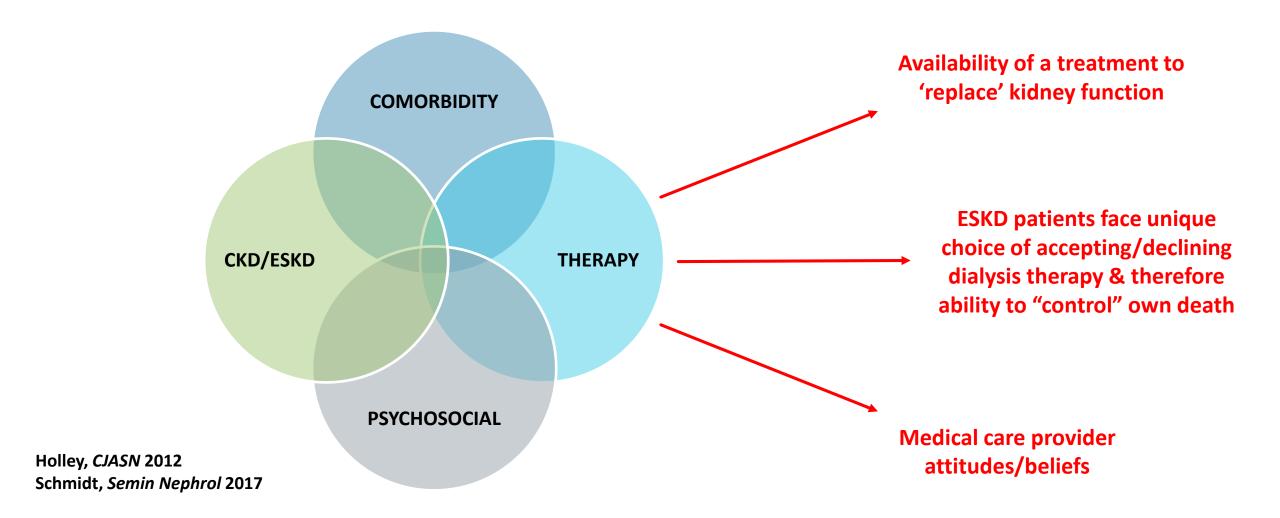
NURSING HOME RESIDENTS



ESKD: PATIENT & NEPHROLOGIST JOURNEY



ACP & ESKD: WHY IS THIS SO HARD?



ACP & NEPHROLOGISTS: WHAT EXACTLY DO WE DO?

Health-care role perceived as treatment provider rather than to 'with-hold beneficial treatment'

Supportive care viewed as 'no treatment' option and perceived as loss of hope/giving up

"I see myself as someone who provides hope for sick people...I see enough people feel so much better after dialysis..."

CM Not Integrated

Defining nephrologists' role

- · Determining treatment
- · Instilling hope
- Improving patient symptoms

Viewing CM as 'no care"

Experiencing moral distress

Circumventing end-of-life conversations

- · Contending with uncertainty related to prognosis
- · Fearing emotional backlash
- Concern over jeopardizing therapeutic relationship
- Insufficient training and lack of confidence in discussing CM and end-of-life

Confronting institutional barriers

- Time constraints
 - Care coordination
- Financial incentives for dialysis
 - Discomfort with varied CM approaches
- Lack of protocol for CM discussions
- · Uncertainty about implications of CM for practice

CM Routinely Integrated

37% of respondents

Defining role

- · Facilitating patient-centered decision-making
- · Accepting of patient preferences to initiate or forgo dialysis

Viewing CM as care and as promoting patient quality of life

Coping with moral distress through CM conversations

- Trust and coordination between nephrology, primary care, and support services
- Greater access to palliative

Institutional Facilitators

- Longer appointments for CM conversations from trained nurses and social workers
- Pay-for-performance for value-based care

Institutional barriers

Provider-level barriers

Ladin, Am J Kidney Dis 2018

ACP & NEPHROLOGISTS: WHAT EXACTLY DO WE DO?

37% of respondents

Discussions on goals of care and quality of life impeded by concern over patients' emotional response

Fear of damage to long-term therapeutic relationships and encourages 'doctor shopping'

"I can't deal with people who respond to me with...I end up saying: this is just going to happen and we'll just deal with it when they come into ED in a crisis situation"

inely Integrated

fining role atient-centered ing patient preferences to go dialysis

care and as promoting f life

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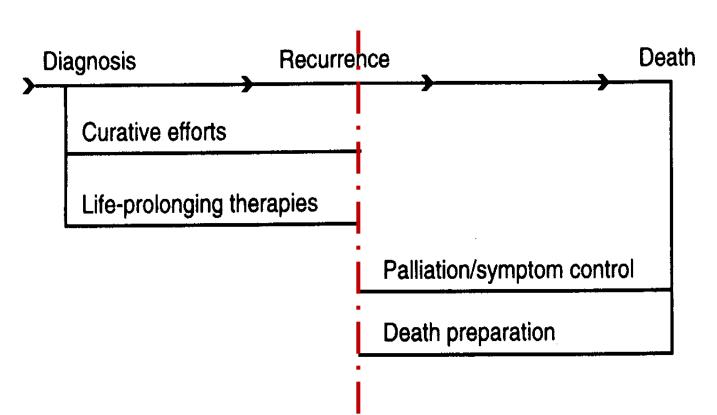
appointments for CM ations from trained and social workers performance for ased care

Providerlevel barriers

> Institutional barriers

Ladin, Am J Kidney Dis 2018

TRADITIONAL (?FLAWED) APPROACH TO ACP



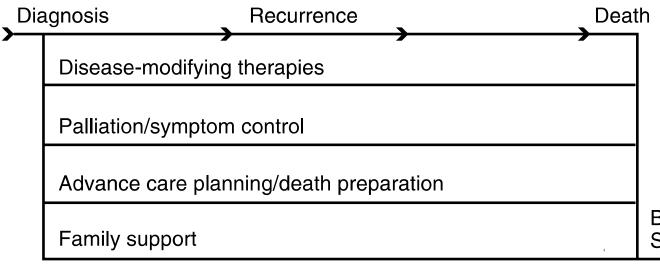
Single 'conversation' between patient/doctor

Often occurs late in disease trajectory

Barry, NEJM 2012 Swidler, CJASN 2013 Schmidt, Semin Nephrol 2017 Cassel, Institute of Medicine 1997 (Approaching Death)

NEEDS-BASED APPROACH TO ACP

Dynamic iterative process Evolves with contextual changes in health status



Shared decision making

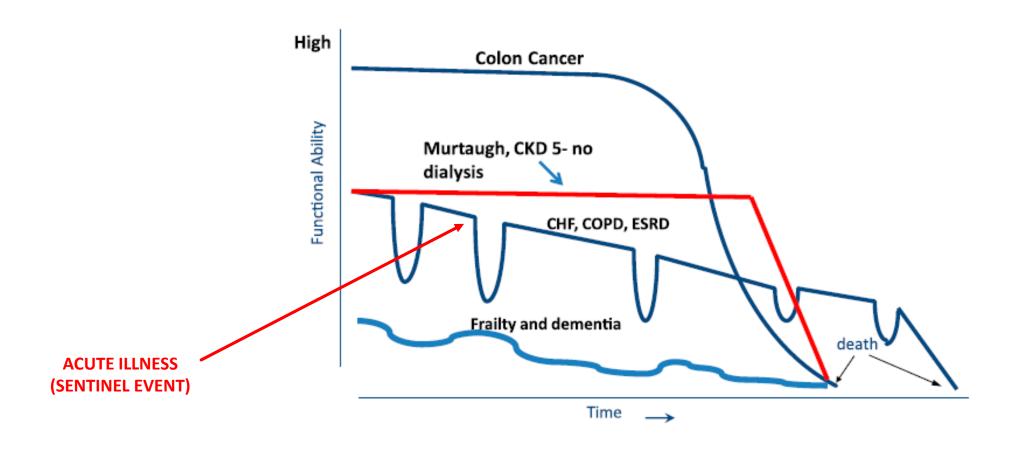
- Prognosis
- Dialysis trajectory
- Conservative pathway

Bereavement Support

Barry, *NEJM* 2012 Swidler, *CJASN* 2013

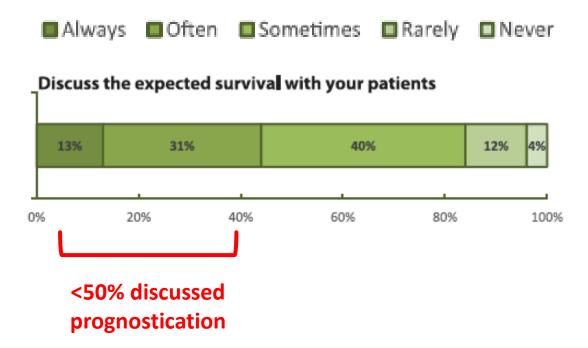
Schmidt, Semin Nephrol 2017
Cassel, Institute of Medicine 1997 (Approaching Death)

ESKD: UNDERSTANDING TRAJECTORY OF ILLNESS

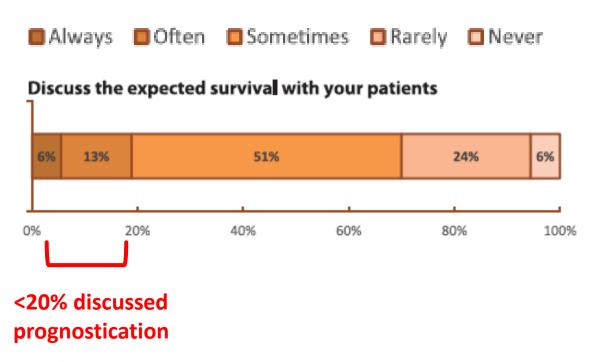


ARE NEPHROLOGISTS GOOD AT PROGNOSTICATION?

PREDIALYSIS CKD



ESKD/DIALYSIS



ACP: PROGNOSTIC TOOLS & ESKD

	MOSS (2008)	COHEN (2009)	COUCHOUD (2009)	BANSAL (2015)
POPULATION	revalent H	Prevalent HD	Incident HD	Pre-dialysis CKD (eGFR 47 ± 11)
OUTCOME	10'	6-month mortality	6-month mortality	5-yr mortality
TOOL/PREDICTORS	"Would ed if this next) o vs \((h; 95%Cl 11)	Age Dementia Hypoalbuminaemia Surprise question Peripheral vascular disease	Diabetes BMI <18.5kg/m² Cardiac failure (III/IV) Peripheral vascular disease Arrhythmia Active malignancy Behavioural disorder Transfer dependent Emergency RRT	Age Gender (male) GFR Albuminuria Smoking Diabetes Cardiac failure Cerebrovascular accident

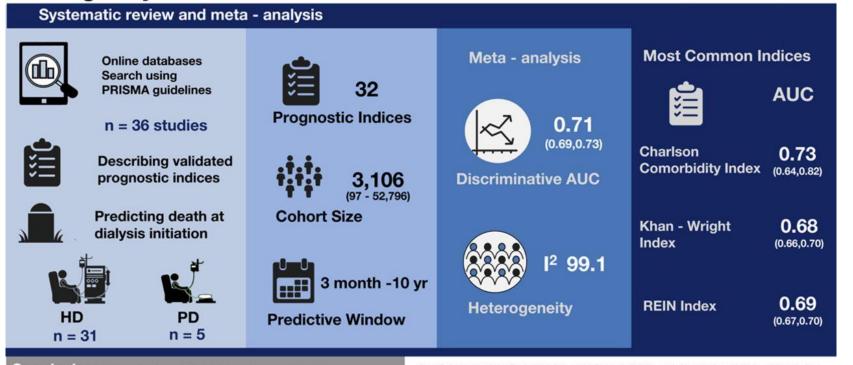
Clinical utility questionable
Only 'modest' changes in care in advanced CKD
(Salat, CJASN 2017)

Moss, CJASN 2008 Cohen, CJASN 2009 Bansal, CJASN 2015 Couchoud, Nephrol Dial Transplant 2009

ACP & MORTALITY PREDICTION: NO EASY TASK

How well do we predict the risk of death for patients starting dialysis?





Retrospective studies

Lack of evidence demonstrating beneficial effects of prognostication upon 'shared decision making'

Fear that overly pessimistic prognostic estimates leads to loss of patient hope

Conclusions: Several well validated indices with good discrimination are available for predicting survival at dialysis start.

Ryan T. Anderson, Hailey Cleek, Atieh Pajouhi, M. Fernanda Balldio, et al. Prediction of Risk of Death for Patients Starting Dialysis: A Systematic Review and Meta-Analysis. CJASNDC: https://doi.org/10.2215/CJN 00050119. Visual Abstract by Divya Bajpai, MD, PhD

ACP: BENEFITS OF EARLY INITIATION

PREVENT IMPORTANT DECISION MAKING DURING SITUATIONS WHEREBY OVERWHELMING SYMPTOMS AND FEAR OF DEATH

NOERATE STHE OPTIMAL CP??

MULTIPLE DISCUSSIONS ENTS + FAMILY/CAREGIVERS)

POTENTIAL IMMINENT DEATH TO OVERRIDE ANY PT CONSIDERATI P **CONSERVATIVE CONS**

AKE PATHWAY

HEALTH **CARE PROXY**



ACP: WHAT IS THE EVIDENCE?

Benefits of ACP remain unproven

- ?align treatment with patient preferences
- ?prevent intensive interventions
- ?reduce hospital admissions
- ?economic savings



Cochrane Database of Systematic Reviews

Advance care planning for haemodialysis patients (Review)

Lim CED, Ng RWC, Cheng NCL, Cigolini M, Kwok C, Brennan F

Authors' conclusions

We found sparse data that were assessed at suboptimal quality and therefore we were unable to formulate conclusions about whother advance care planning can influence numbers of hospital admissions and treatment required by people with ESKD, or if patients' advance care directives were followed at end-of-life. Further well designed and adequately powered RCTs are needed to better inform patient and clinical decision-making about advance care planning and advance directives among people with ESKD who are undergoing dialysis.

Sellars, PLOS One 2019 Sellars, Nephrology 2019 Lim, Cochrane Database Sys Rev 2016

ACP: WHAT IS THE EVIDENCE?

NEPHROLOGY 35% 30% 25% 20% 15% 10% Interventions in the last week of life by year (SGH). **■** 2004, **■** 2009, **■** 2014

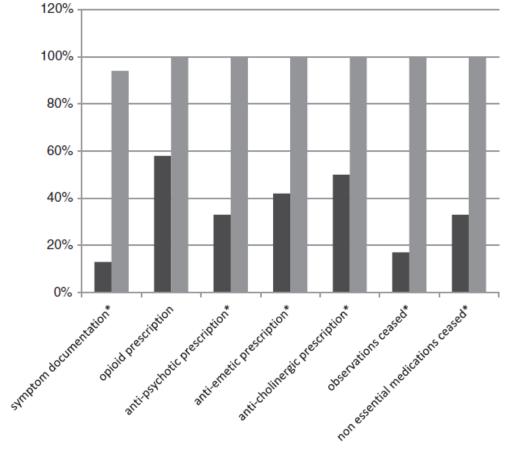


Fig. 7 Significant differences in quality indicators by use of EOLCP. EOLCP, end of life care plan. * Indicates statistically significant result. \blacksquare No EOLCP, \blacksquare EOLCP.

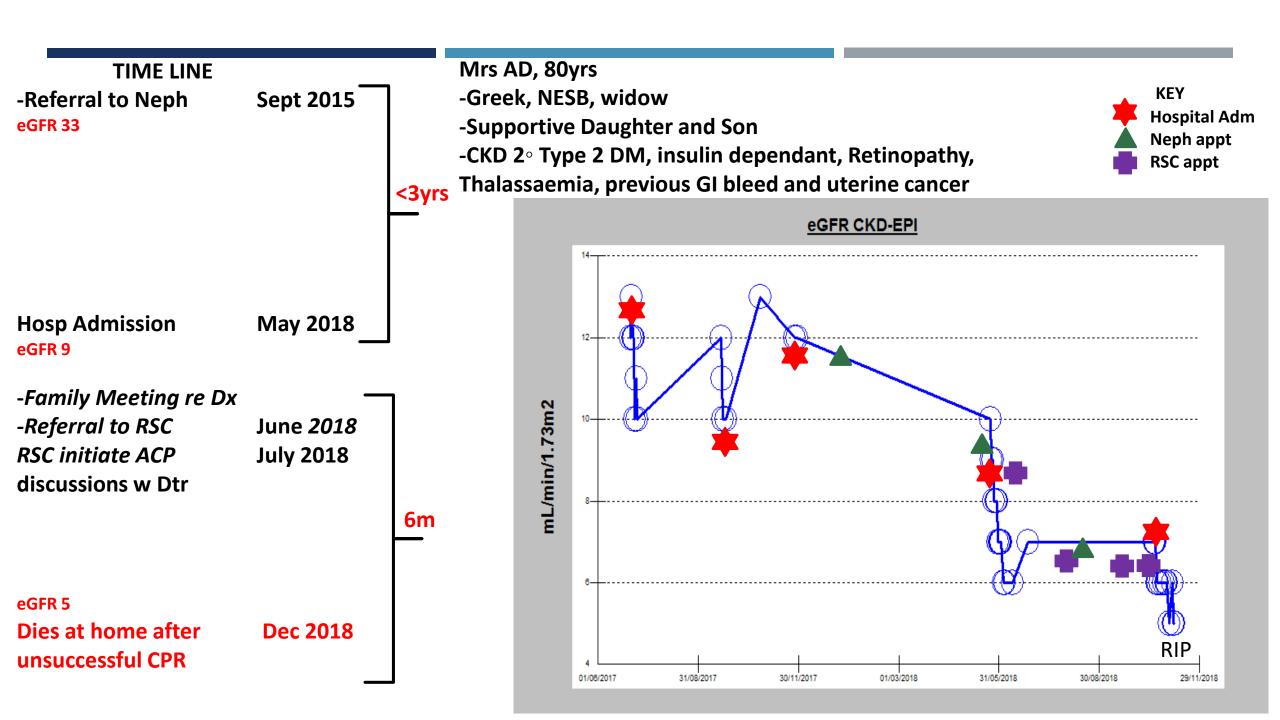
SUMMARY

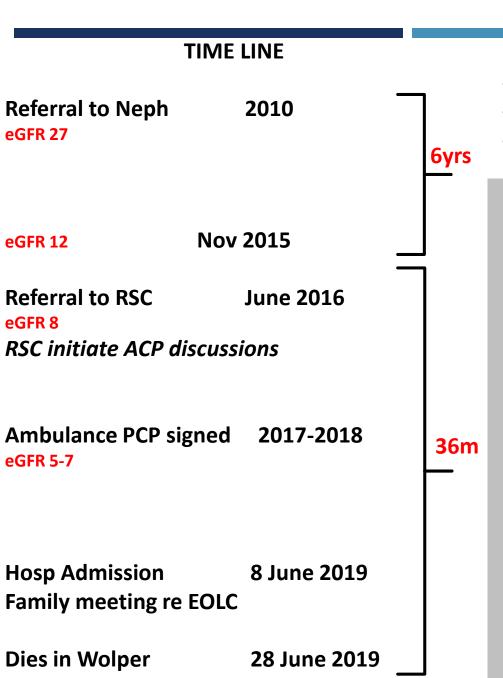
ACP is a dynamic iterative process involving shared decision making/patient centered outcomes

Early (timely) initiation with appears crucial for successful outcomes

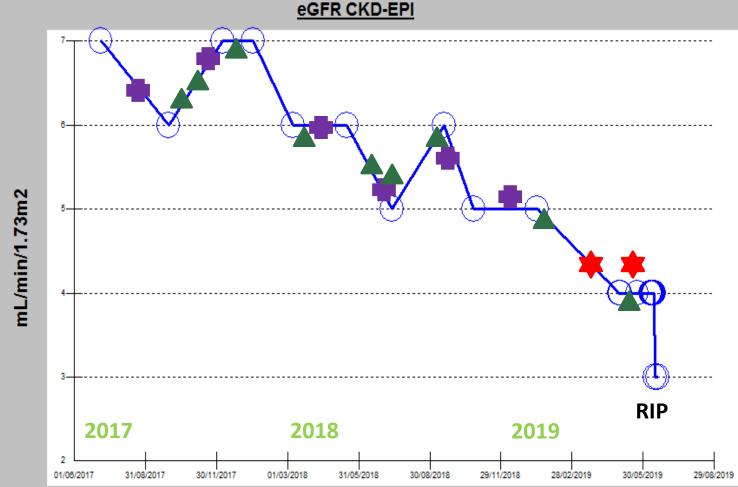
Multiple barriers to establishing ACP as standard-of-care

- Physician-based
- Difficulties with prognostication
- Other medico-psychosocial factors (frailty/cognition)
- Lack of definitive evidence base









MORAL OF THE STORY

TIME IS OF THE ESSENCE...

Increasingly so if an initial discussion about advance care planning has not commenced in patients NFD at the time of referral to RSC

BARRIERS TO ACHIEVING POSITIVE PATIENT OUTCOMES

CASE 1

R/F to RSC to death = 6m*

Charlson Comorbidity Index = 11

CALD B/G: Difficulty coordinating family w each other/Pall Care/Interpreter (finite resources)

No documented ACP

No decision re EOLC

Pt dies at home after failed CPR- futile and undignified, traumatic for pt and family

CASE 2

R/F to RSC to death = 36m*

Charlson Comorbidity Index = 6

CALD B/G: Achieving family consensus protracted but accomplished due to extended time frame

Documented ACP

Decision made re EOLC

Pt dies in hospice as planned, a peaceful death surrounded by family

POWH RSC DEATHS (2018-2019)

10 pts (>30%) referred to RSC in 2018-2019 died without an ACP (31 deaths of 86 R/Fs)

RSC referral eGFR	Number	Time from RSC referral to death
≤ 8	12	All 9 deaths within 6m
9 - 14	22	8 of 14 deaths within 6m
15 - 20	18	
> 20	12	

REFERRALS TO RSC 2018-2019

iPOS surveys were performed and collected at the satellite HD unit (Feb 2020)

45 of 48 forms returned

3 questions added to evaluate patient awareness regarding ACP

Important considerations

- Health literacy
- English fluency
- Cognition

45 PARTICIPANTS	YES	NO	NO COMMENT
Do you know what advanced care planning is?	15	28	2
Do you have an advanced care plan?	4	36	5
Would you like to find out about advanced care planning?	17	21	7

POWH NEPHROLOGY & ACP: CURRENT SITUATION

Ad-hoc implementation

ACP conversations frequently initiated by RSC (rather than long-term nephrologist)

RSC referral timing can leave insufficient time to develop adequate relationships with patient/family

Poor documentation of ACP discussions with primary nephrologist (self-reported by dialysis cohort)

ACP DILEMMA: WHO SHOULD INITIATE DISCLE

?primary nephrologist (2013 ANZSN RSC guidelines)

?other treating medical practitioners (GP/geriatrician/c-

?nephrology team members at 'opport

- Acute sentinel events/h
- Nephrology train

• Allied'

..ACP checklist)

رn/HD nurses)