Rigshospitalet
Center for Kræft og Organsygdomme

REGION

Når valget står mellem dialyse og maksimal medicinsk uræmibehandling

Primum non nocere

Ylian Liem, overlæge

Afdeling for Nyresygdomme, Rigshospitalet

På vegne af Dansk Nefrologisk Selskab

DNS
DANISH SOCIETY OF NEPHROLOGY

Rigshospitalet
Center for Kræft og Organsygdomme

Nephrol Dial Transplant (2021) 36: 953–956
doi: 10.1093/ndt/gfaa254
Advance Access publication 12 December 2020

ndt
Nephrology Dialysis Transplantation

Caring for older people with chronic kidney disease—*primum non nocere*

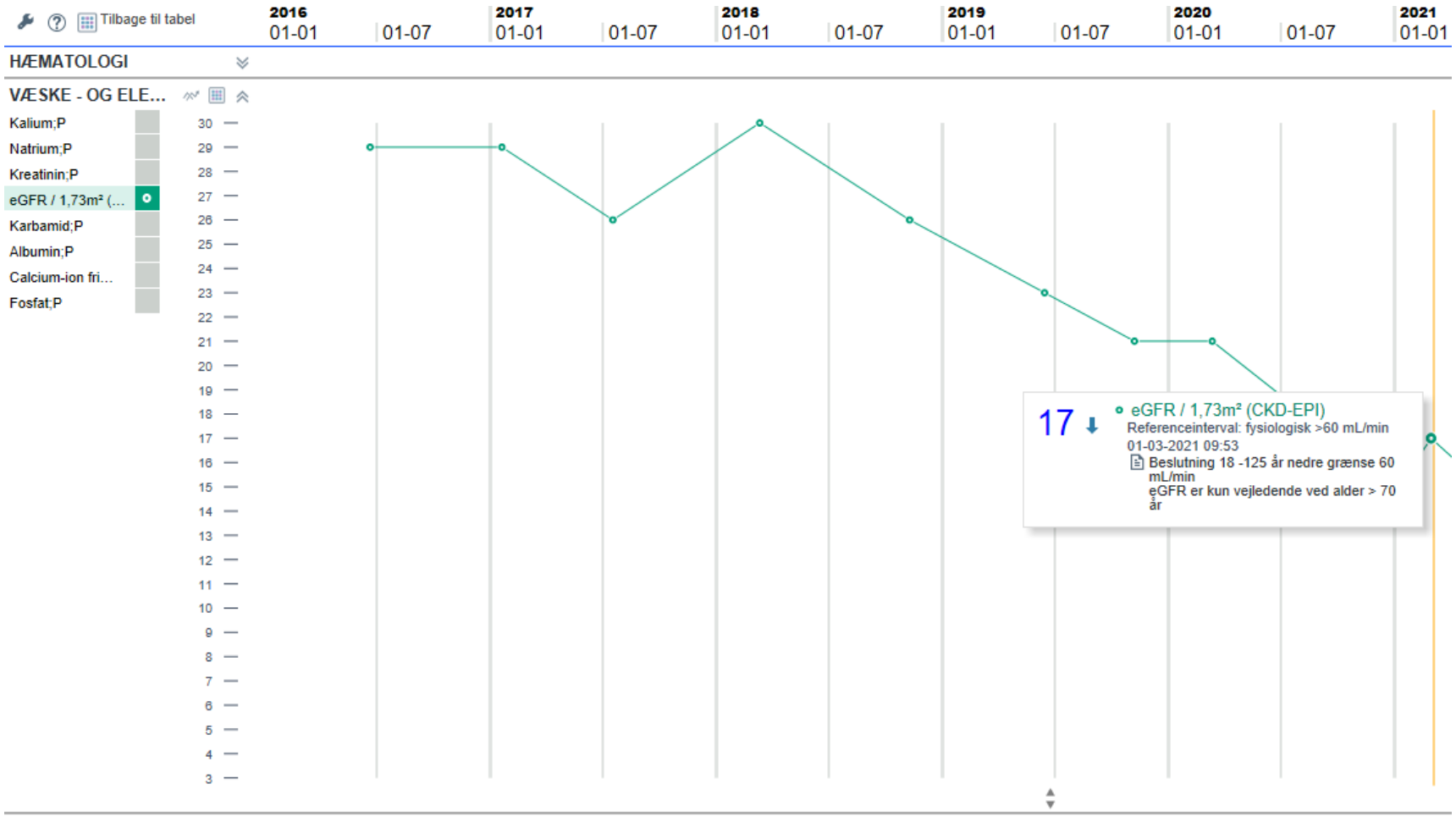
Naomi Clyne
Skåne University Hospital, Lunds University Faculty of Medicine, Clinical Sciences, Nephrology, Lund, Sweden

NEPHROLOGISTS' DILEMMA

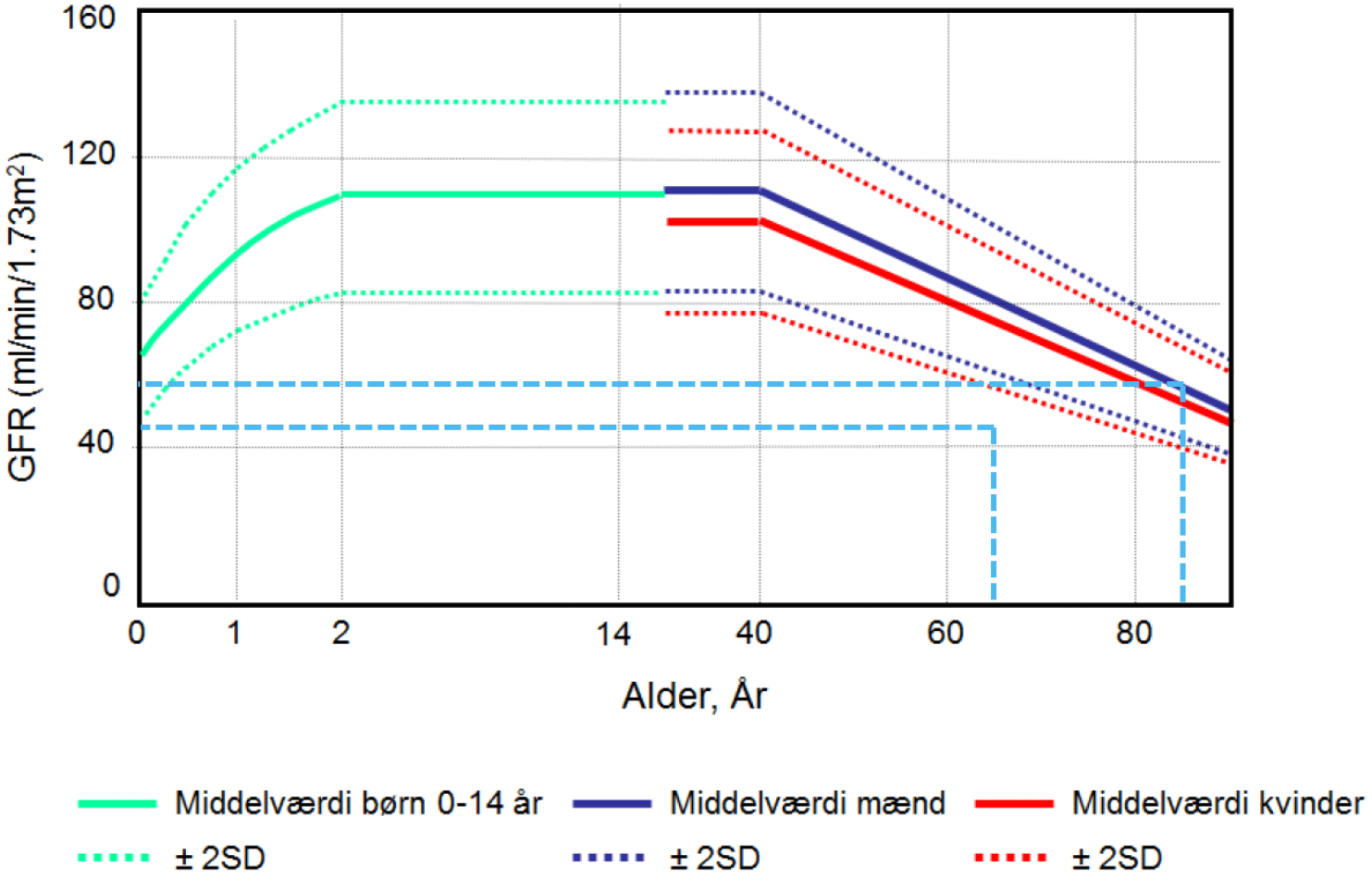
In daily clinical practice, nephrologists are faced with how to best advise an elderly, frail and multimorbid patient with CKD Stage 4 or 5 concerning the choice of dialysis or supportive care. Despite the existence of well-constructed guidelines and evidence from observational studies, there is still a fear that a recommendation is not based on solid science. How to best adhere to *primum non nocere*?

REGION

Poul 86 år


Tilbage til tabel
2016 01-01
01-07
2017 01-01
01-07
2018 01-01
01-07
2019 01-01
01-07
2020 01-01
01-07
2021 01-01
HÆMATOLOGI
VÆSKE - OG ELE...
Kalium;P
Natrium;P
Kreatinin;P
eGFR / 1,73m² (...
Karbamid;P
Albumin;P
Calcium-ion fri...
Fosfat;P
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
17
eGFR / 1,73m² (CKD-EPI)
Referenceinterval: fysiologisk >60 mL/min
01-03-2021 09:53
Beslutning 18 -125 år nedre grænse 60 mL/min
eGFR er kun vejledende ved alder > 70 år

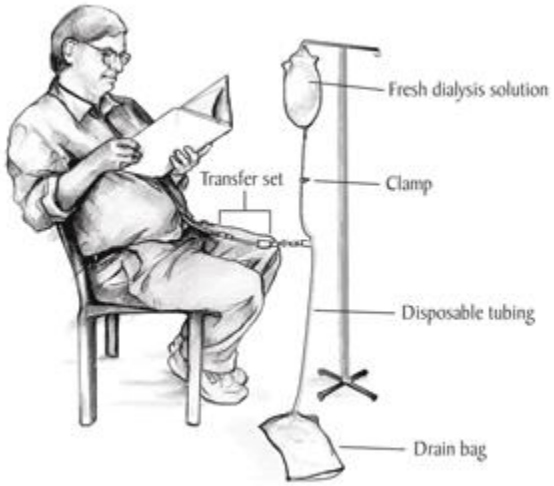
Standard GFR børn* og voksne**



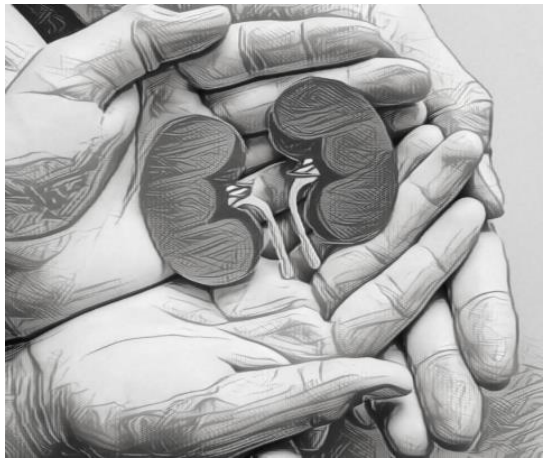
Terminalt nyresvigt – CKD5: eGFR<15

Transplantation

Hæmodialyse



Peritoneal dialyse



Maksimal medicinsk uræmibehandling

Table 6 | Definition of comprehensive conservative care

'Comprehensive conservative care' is planned holistic patient-centered care for patients with G5 CKD that includes the following:

- Interventions to delay progression of kidney disease and minimize risk of adverse events or complications
- Shared decision making
- Active symptom management
- Detailed communication including advance care planning
- Psychological support
- Social and family support
- Cultural and spiritual domains of care

Comprehensive conservative care does not include dialysis.

Abbreviations: CKD, chronic kidney disease; G5, glomerular filtration rate category 5 CKD.

Davison Kidney Int 2015; 88: 447

National klinisk retningslinje for en behandlingsstrategi uden dialyse for patienter med kronisk nyresvigt

Udgiver: Dansk Nefrologisk selskab (DNS) og Fagligt Selskab for Nefrologiske Sygeplejersker (FS-nefro)
Årstal for publicering: 2020

3 - PICO 1: Bør den voksne patient med kronisk nyresvigt stadium 5 tilbydes en behandlingsstrategi uden dialyse som alternativ til dialyse?

Svag Anbefaling

Overvej at tilbyde patienten med kronisk nyresvigt stadium 5 og høj alder og den ældre patient med kronisk nyresvigt stadium 5 og høj komorbiditet en behandlingsstrategi uden dialyse som alternativ til dialyse.

At tilbyde en behandlingsstrategi uden dialyse som alternativ til dialyse kan være relevant for en gruppe af ældre patienter med kronisk nyresvigt stadium 5. Denne gruppe er patienter med høj alder og ældre patienter med høj grad af komorbiditet.

4 - PICO 2: Bør der anvendes et systematisk værktøj, der kan vurdere hvilke voksne patienter med kronisk nyresvigt stadium 5, der kan tilbydes en behandlingsstrategi uden dialyse som alternativ til dialyse?

Svag Anbefaling

Overvej at anvende et systematisk værktøj til identifikation af patienter, der bør tilbydes en behandlingsstrategi uden dialyse.

Arbejdsgruppen anbefaler at anvende Surprise Question (SQ), komorbiditet, køn, alder, plasma-albumin samt funktionsniveau.

Fællesbeslutningstagning

Dialysevalg

Rigshospitalet Nefrologisk Afdeling

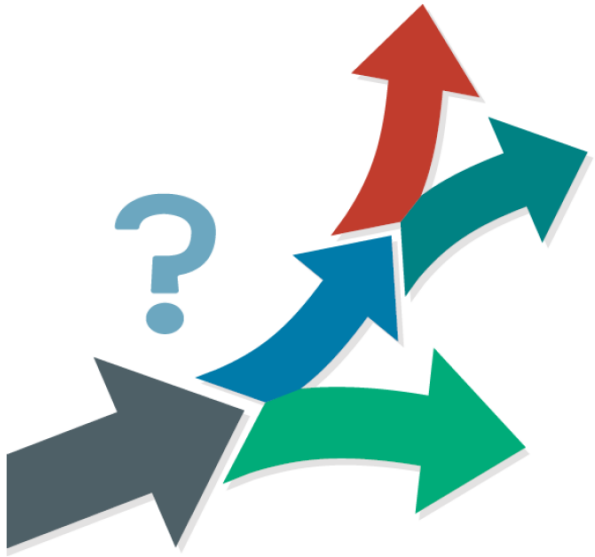
Bilag 3

Når valget står mellem dialyse og medicinsk lindrende behandling

En guide om behandlingsvalg til patient og pårørende

Valg af behandling

Dialyse eller medicinsk lindrende behandling

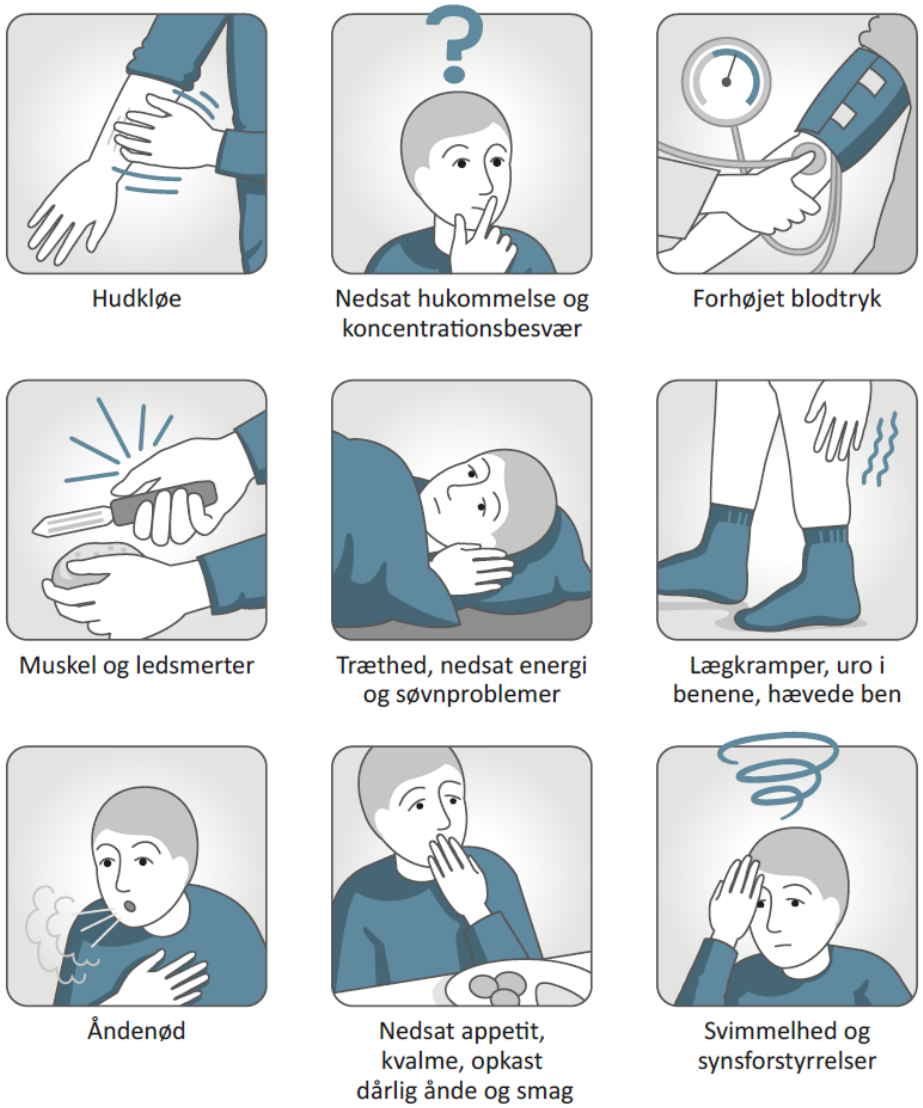


Finderup BMJ Open 2019;9:e029090

Poul, 86 år, eGFR 17

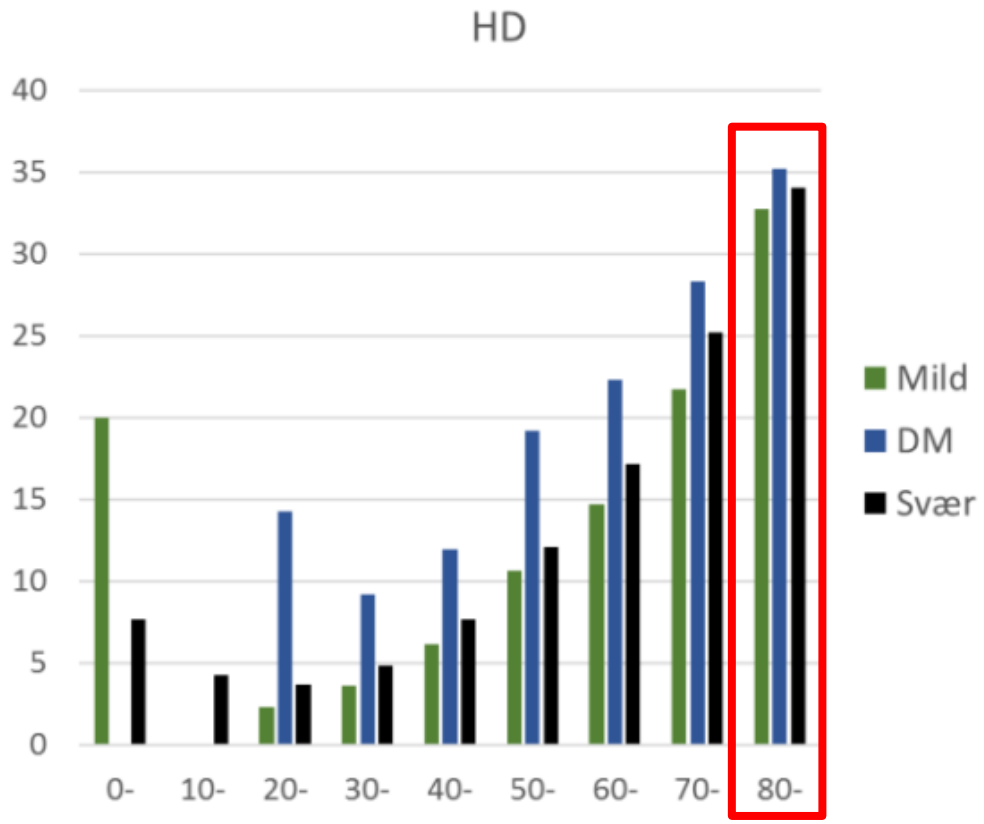
- Gift med Lene
- Oprindelig fra Bornholm
- Har sommerhus på Bornholm, har lige bygget træterrasse rund hele huset
- Rejser til Malta 1-2 gange årligt

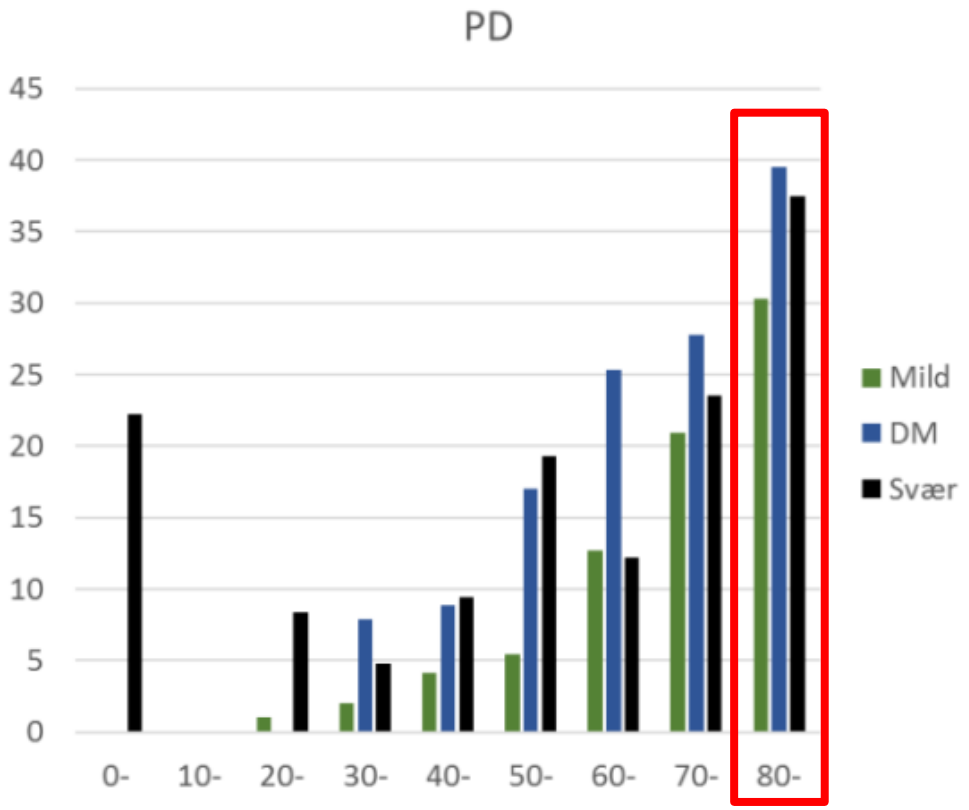
Symptomer?



Finderup BMJ Open 2019;9:e029090

Overlevelse i dialyse?





Survival of patients who opt for dialysis versus conservative care: a systematic review and meta-analysis

Background

Conservative care (CC) has been proposed as a treatment alternative to dialysis in vulnerable patients.

Aim: to compare survival outcomes among patients explicitly choosing dialysis versus CC.

Methods

Electronic databases:
PubMed, Embase, Cochrane, CINAHL Plus, PsycINFO

Inclusion criteria:
CKD stage G4–5
Explicit choice for dialysis vs. CC

Outcome:
All-cause mortality

Results

22 observational cohort studies

At baseline, 'choice for dialysis' group had:
↓ lower age, less comorbidity, frailty, functional status

Median survival (unadjusted)

Dialysis choice	CC choice
20–67 months	**6–31 months**

Pooled mortality risk (age/sex adjusted)

aHR 0.47 (0.39–0.57)

Subgroup analysis

Severe comorbidity	RR 0.66 (0.56–0.78)

Conclusion

Patients opting for dialysis have an overall lower mortality risk compared to patients opting for CC. Data were limitedly comparable and with high risk of bias.

ERA ndt NEPHROLOGY DIALYSIS TRANSPLANTATION

Voorend C.G.N., et al. NDT (2022)
@NDTSocial

REGION H

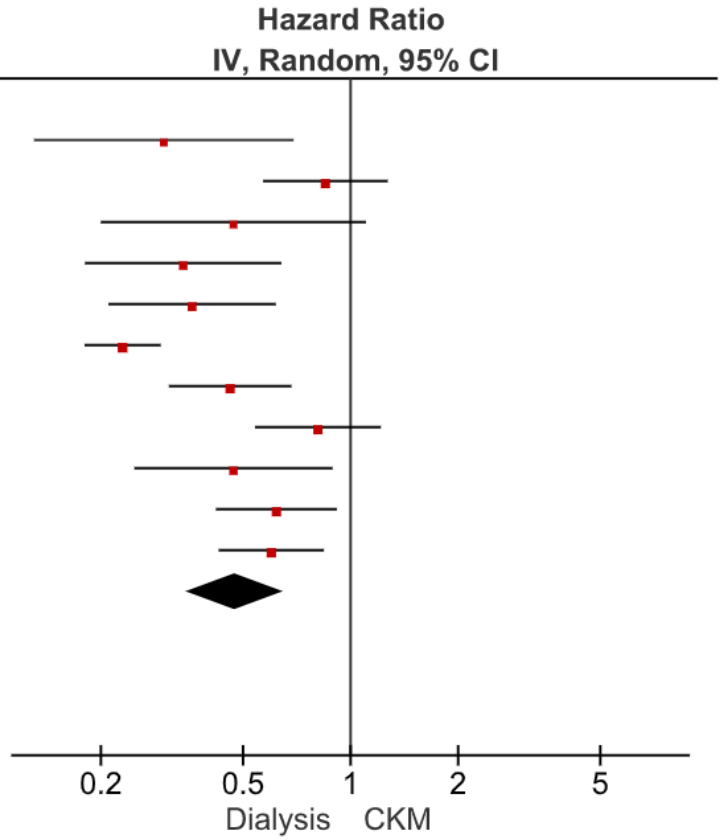
National klinisk retningslinje for
en behandlingsstrategi uden dialyse for patienter med
kronisk nyresvigt

Udgiver: Dansk Nefrologisk selskab (DNS) og Fagligt Selskab for Nefrologiske Sygeplejersker (FS-nefro)
Årstal for publicering: 2020

Overlevelsesfordel dialyse i forhold til MMU

Study or Subgroup	log[Hazard Ratio]	SE	CKM Total	Dialysis Total	Weight	Hazard Ratio IV, Random, 95% CI
1.1.1 Study/year						
Brown 2015	-1.204	0.4267	122	92	6.5%	0.30 [0.13, 0.69]
Chandna 2011	-0.1625	0.2047	77	106	10.1%	0.85 [0.57, 1.27]
DaSilva Gane 2012	-0.755	0.4359	30	47	6.4%	0.47 [0.20, 1.10]
Murtagh 2007	-1.0788	0.3228	77	52	8.1%	0.34 [0.18, 0.64]
Raman 2018	-1.0217	0.275	81	123	8.9%	0.36 [0.21, 0.62]
Reindl Schwaighofer 2017	-1.4697	0.1251	174	8622	11.2%	0.23 [0.18, 0.29]
Shum 2014	-0.7765	0.2014	42	157	10.1%	0.46 [0.31, 0.68]
TamTham 2018	-0.2107	0.2069	338	500	10.0%	0.81 [0.54, 1.22]
vanLoon 2019	-0.755	0.3256	89	192	8.1%	0.47 [0.25, 0.89]
Verberne 2016	-0.478	0.1987	107	204	10.1%	0.62 [0.42, 0.92]
Verberne 2018	-0.5108	0.1729	126	240	10.5%	0.60 [0.43, 0.84]
Subtotal (95% CI)			**1263**	**10335**	**100.0%**	**0.47 [0.34, 0.65]**

Heterogeneity: Tau² = 0.22; Chi² = 54.20, df = 10 (P < 0.00001); I² = 82%
Test for overall effect: Z = 4.64 (P < 0.00001)



Buur BMC Nephrol 22, 307 (2021)

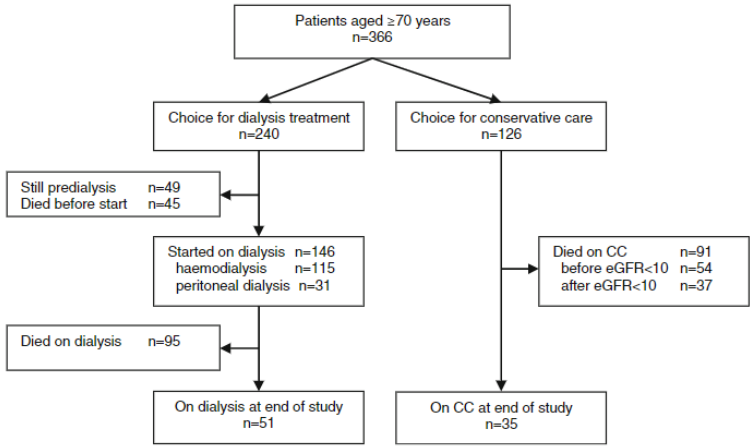
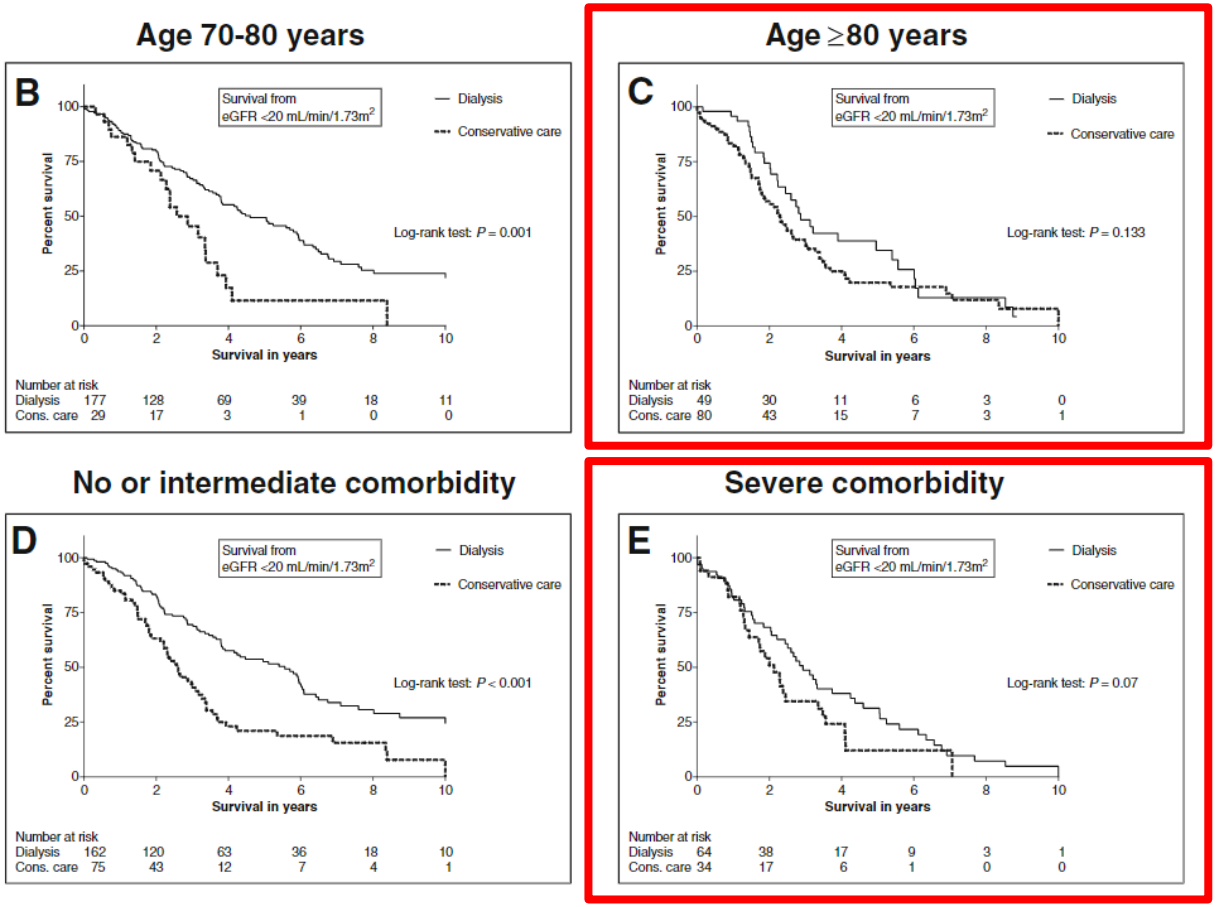


Fig. 1 Overall flow of patients ≥70 years with advanced chronic kidney disease (stage 4/5). Fifteen patients changed their original choice in favour of dialysis to conservative care, and four changed from conservative care to dialysis. Analyses were based on the original treatment choice. CC, conservative care; eGFR, estimated glomerular filtration rate (mL/min/1.73m^2)



Verberne BMC Nephrol 2018; 19: 205

Fordele ved MMU

- Livskvalitet: ingen forskel, muligvis bedre (beholdes længere på samme niveau)
- Symptombyrde: ingen forskel eller mindre
- Indlæggelser: færre
- Dødssted: på hospice/i hjemmet (vs på hospitalet)

Buur BMC Nephrol 2021), Verberne Nephrol Dial Transplant 2021

Bias

- Coundfounding by indication
- Survival bias
- Lead-time bias

Open access Protocol

BMJ Open

Treatment decision-making and care among older adults with kidney failure: protocol for a multicentre, prospective observational cohort study with nested substudies and linked qualitative research (the Elderly Advanced CKD Programme)

Amanda Siriwardana ,[1,2] Nicholas A Gray ,[3,4] Angela Makris,[5,6] Chenlei Kelly Li,[7] Kenneth Yong,[8,9] Yachna Mehta,[1] Jannel Ramos,[1] Gian Luca Di Tanna,[10] Chris Gianacas,[10] Isaac Yeboah Addo,[11] Sarah Roxburgh,[2,12] Vasi Naganathan ,[2,13] Celine Foote,[14] Martin Gallagher[1,5]

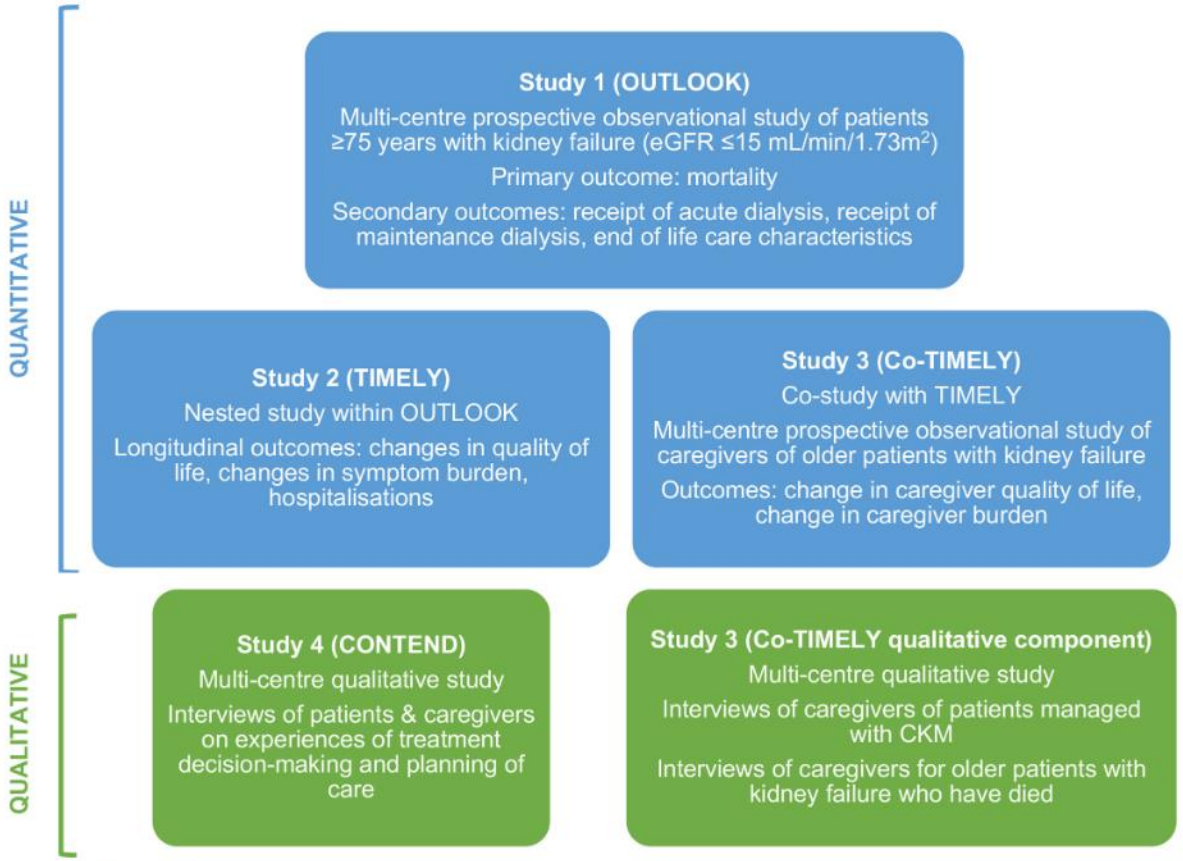


Figure 1 Components of the elderly advanced CKD Programme. CKM, conservative kidney management; CONTEND, CONsumer views of Treatment options for Elderly patieNts with kiDney failure; Co-TIMELY, Caregivers of The InfirM ElderLY; EGFR, estimated glomerular filtration rate; OUTLOOK, OUTcomes Of Older patients with Kidney failure; TIMELY, Treatment modalities for the InfirM ElderLY with end stage kidney disease.

REGION

Nephrol Dial Transplant (2021) 36: 975–982
doi: 10.1093/ndt/gfaa209
Advance Access publication 17 September 2020

The Prepare for Kidney Care Study: prepare for renal dialysis versus responsive management in advanced chronic kidney disease

Emma Murphy[1], Aine Burns[2], Fliss E.M. Murtagh[3], Leila Rooshenas[4] and Fergus J. Caskey[4]

[1]Health Sciences, University of Southampton, Southampton, UK, [2]The Royal Free Hospital, Renal Center for Nephrology Royal Free Hospital NHS Trust, London, UK, [3]Wolfson Palliative Care Research Centre, Hull York Medical School, University of Hull, Hull, UK and [4]Population Health Sciences, University of Bristol, Bristol, UK

Correspondence to: Fergus J. Caskey; E-mail: fergus.caskey@bristol.ac.uk

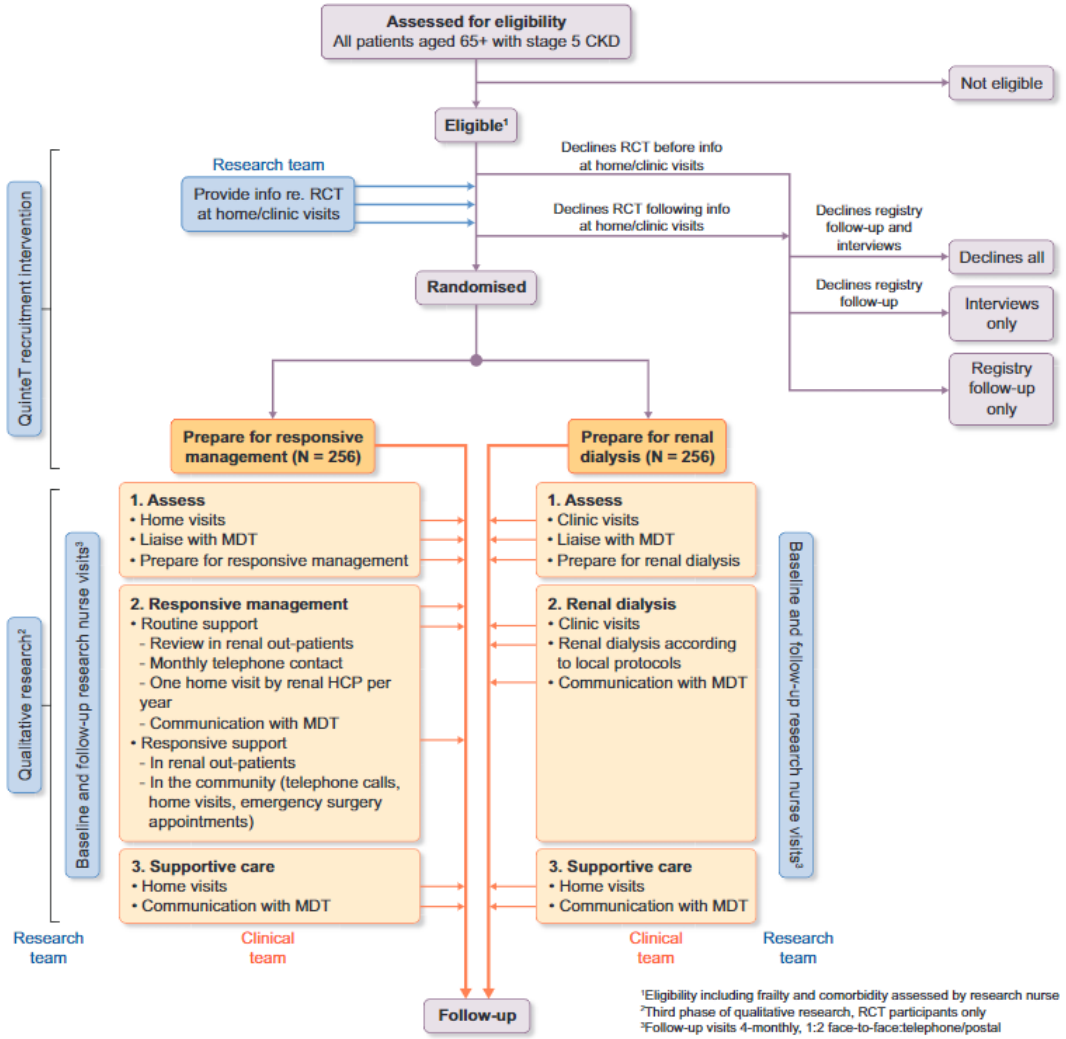
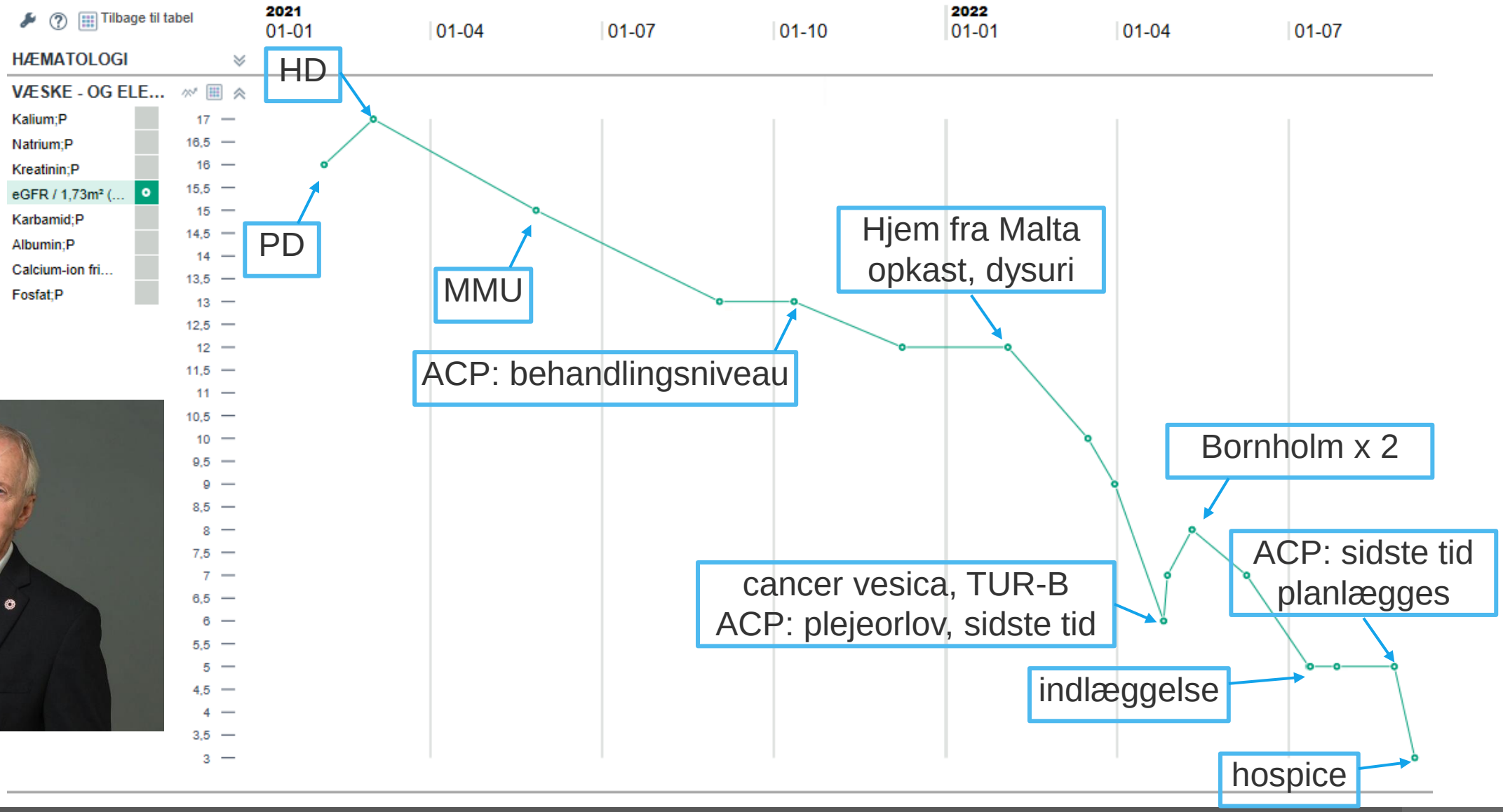


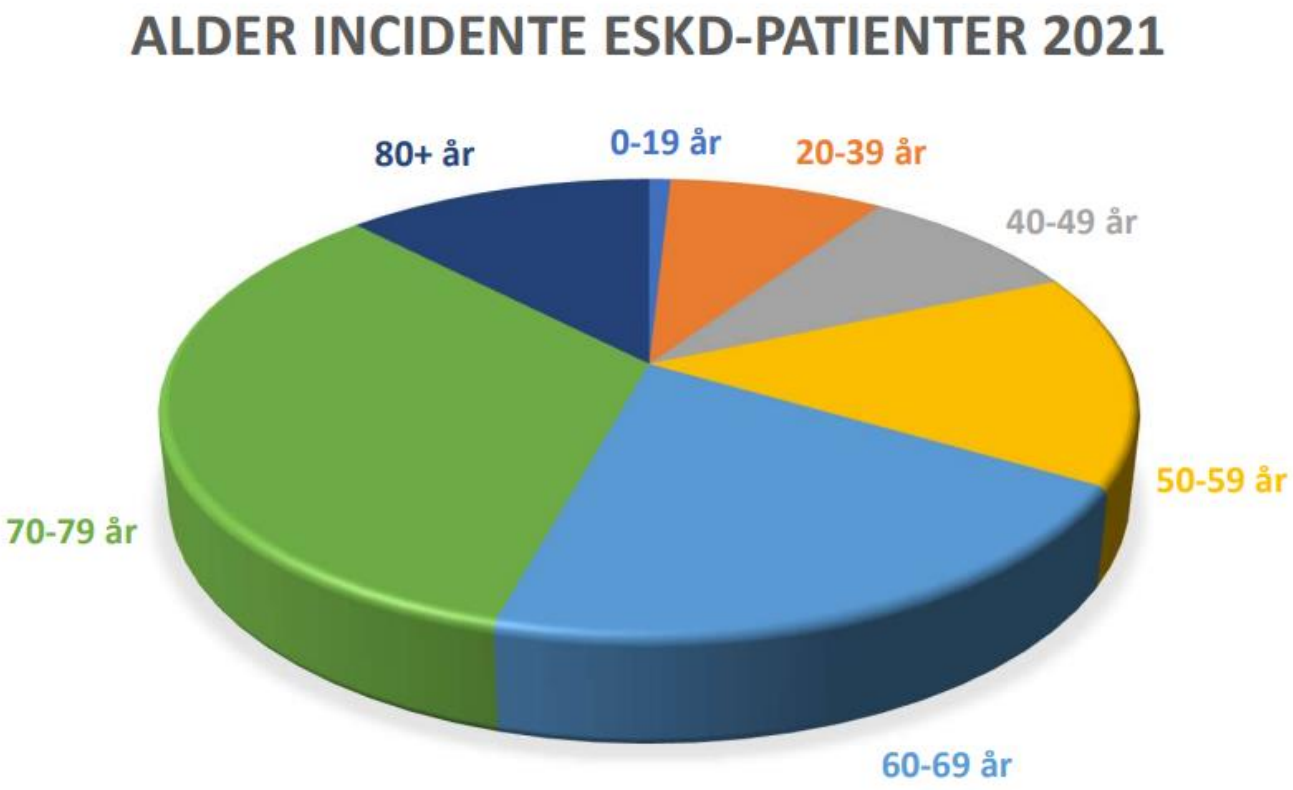
FIGURE 2: Flow diagram for the Prepare for Kidney Care study. MDT, multidisciplinary team; HCP, healthcare professional.

REGION H

Rigshospitalet
Center for Kræft og Organsygdomme



Relevans?

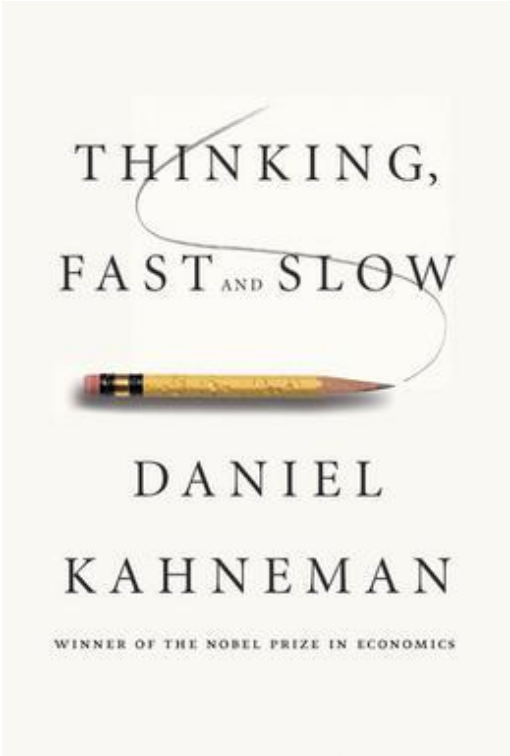

ALDER INCIDENTE ESKD-PATIENTER 2021
80+ år
0-19 år
20-39 år
40-49 år
50-59 år
60-69 år
70-79 år

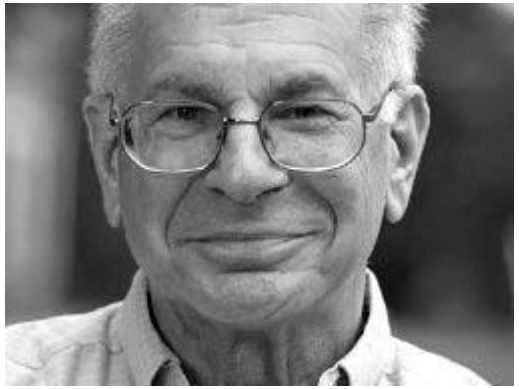
Lad os prøve dialyse og se hvordan det går…

Prospect theory

Endowment effect

Losses loom larger than gains





Kop-eksperiment

Pris for koppen
(hvad vil du give for den?)

Pris for koppen
(hvad vil du have for den?)

Kahneman, Knetsch & Thaler 1990

Losses loom larger than gains

- Mennesker forsøger at undgå tab mere end de forsøger at søge gevinster

Endowment effect

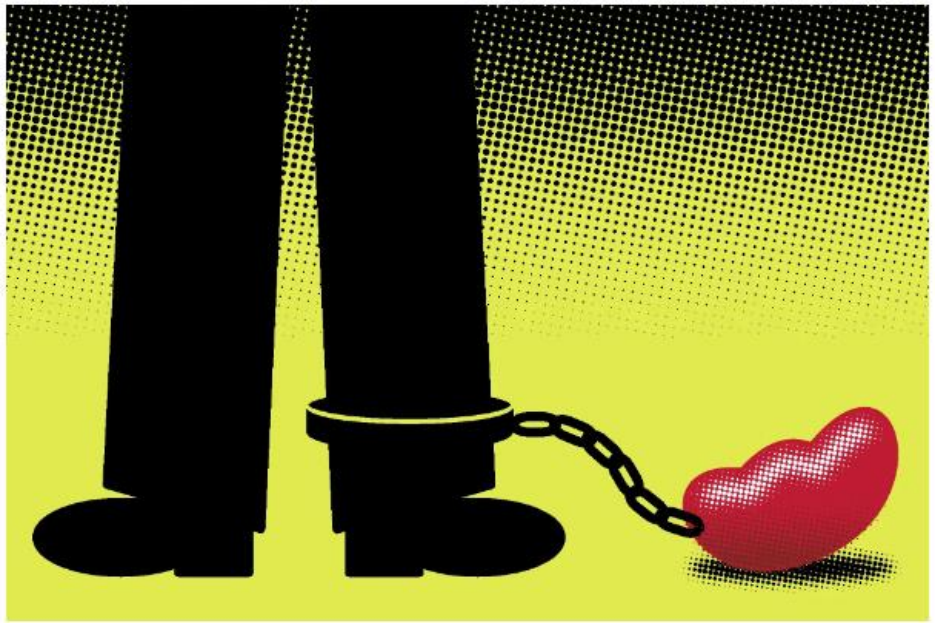
- Effekten af at føle ejerskab

The New York Times

Dialysis Is a Way of Life for Many Older Patients. Maybe It Shouldn't Be.

So-called conservative management can ease symptoms without dialysis in some people with kidney disease. But many of them are never given the option.

Give this article 225



Stephen Savage

By Paula Span

Feb. 15, 2019