A team's approach to QOL in CKD patients

Edwin Fong MD FRCPC

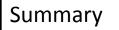
Which Team?

QOL Defined	
RRT	
Avoiding RRT	
Other Rx	
Non medical	
Summary	

Beauty

Symmetry





Other Rx Non medical

QOL Defined

Avoiding RRT

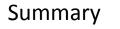
RRT

Beauty defined

RRT

Avoiding RRT

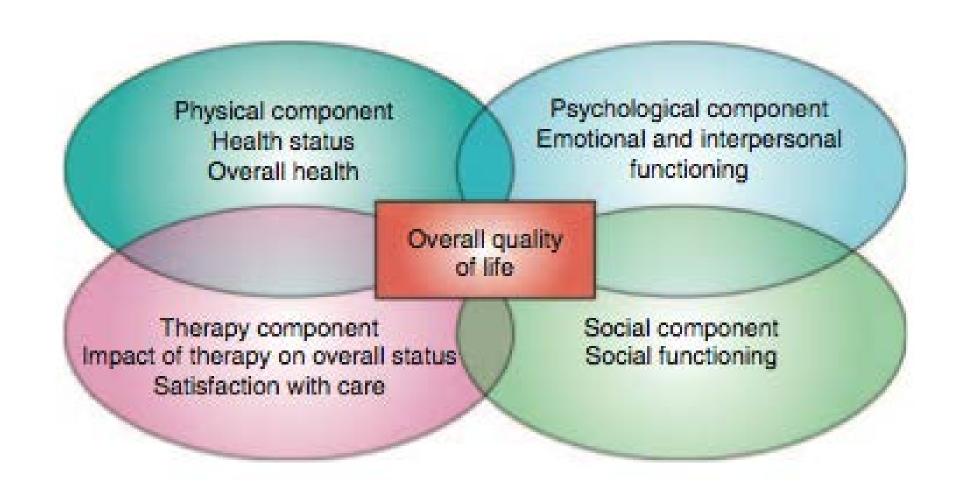
Non medical



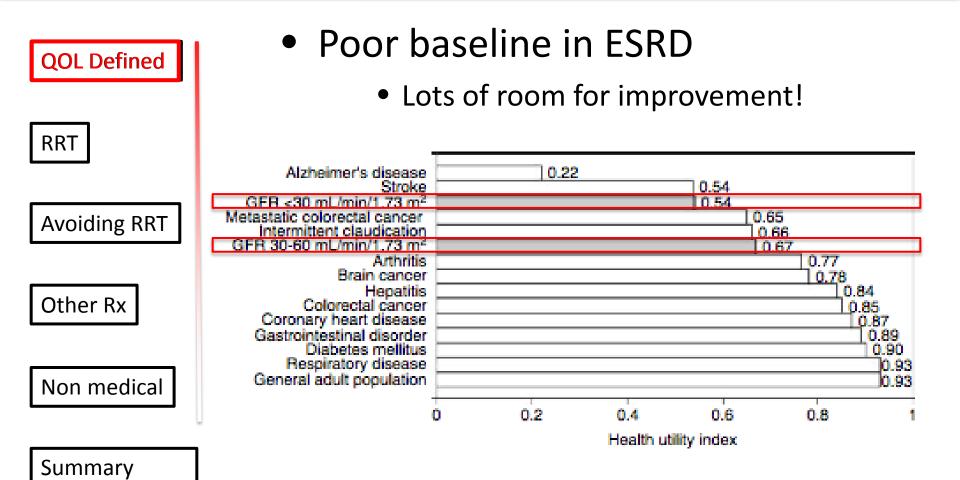


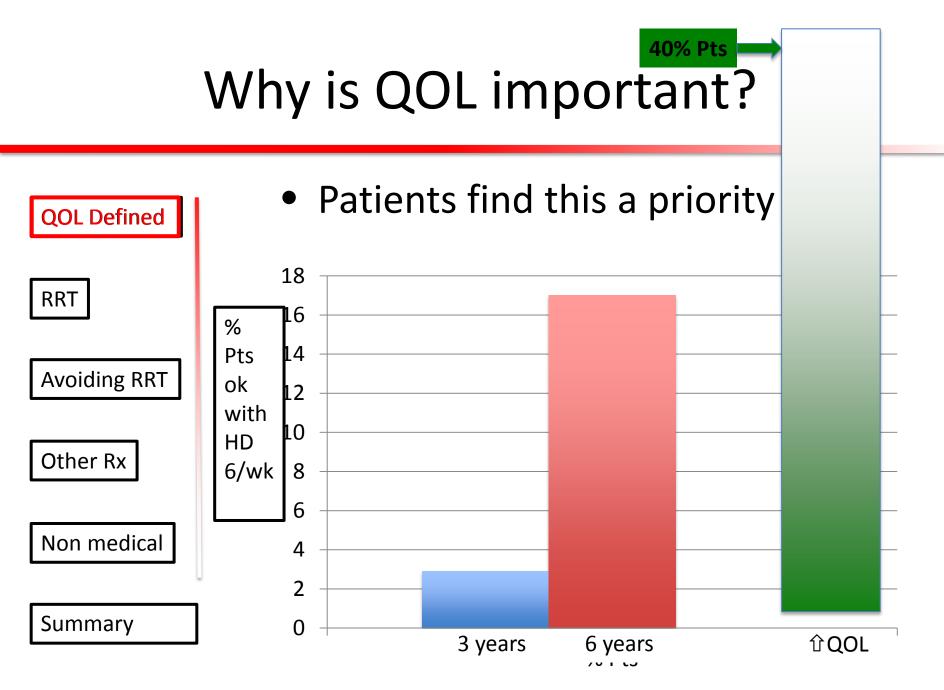
- Suntanned
- Narrower face
- Less fat
- Fuller lips
- Bigger distance of eyes
- Darker eye brows
- Higher cheek bones...

What is QOL?



Why is QOL important?





Ramkumar N. HI 2005; 9(3): 281-95

Why is QOL important?

• Physicians sometimes focus elsewhere.

Patient each fill out survey -Identify symptoms (<7d) -Describe severity (1-5) After rounding, Physicians also fill out similar survey.

Docs did not know which HD pts were in the study

Summary

Non medical

QOL Defined

Avoiding RRT

Other Rx

RRT

Weisbord SD. cJASN 2007; 2(5): 960-7

Why is QOL important?

QOL Defined

RRT

Avoiding RRT

Other Rx

Non medical

Summary

 Physicians sometimes focus elsewhere.

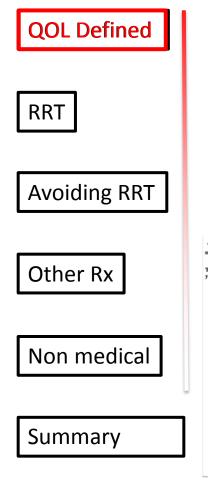
Physicians poor	Physicians good
Pain	SOB
Depression	Leg swelling
Sleep problems	
Sexual function	

* Unaware of symptoms patients described as most severe.

* When did identify symptoms, severity commonly underestimated.

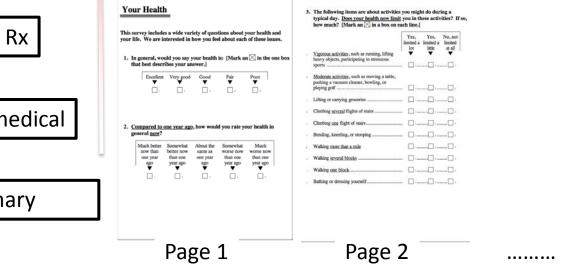
Weisbord SD. cJASN 2007; 2(5): 960-7 Green JA. J Palliative Med 2012; 15(2): 163-7

How to we quantify it?



• Survey Questionnaires

- KDQOL-36 (reliable, good validity)
- One size fits all
- Too frequent assessments can induce reporter fatigue.



Satisfaction With Care

23. Think about the care you receive for kidney dialysis. In terms of your satisfaction, how would you rate the friendliness and interest shown in you as a person?

Very poor	Poor	Fair	Good	Very good	Excellent	The Best
		Π,	.	Π,		Π,

Thank you for completing these questions!

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One simple question

QOL Defined

Avoiding RRT

Non medical

Summary

Other Rx

RRT

• "How long does it take you to recover from a dialysis session?"

Time	N total 6000		
<2 hrs	32%		
2-6 hrs	41%		
7-12hrs	17%	Longer Recovery:	
>12 hrs	10%	Older, ①HD Vintage ①BMI, DM2 Psychiatric disease ①Fluid removal ①Session length	(MCS/PCS) Pruritus Insomnia Depressed ↓ADL

RRT: Just a matter of clearance?

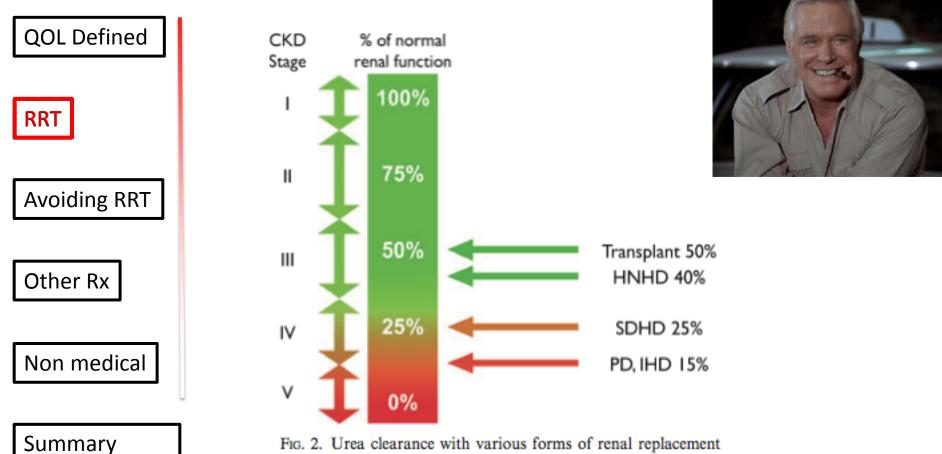


FIG. 2. Urea clearance with various forms of renal replacemen therapy relative to urea clearance by kidney function.

Transplant

QOL Defined
RRT
Avoiding RRT
Other Rx
Non medical
Summary

- Meta analysis 3267 studies found
 Analyzed 61 articles
 - Transplant > IHD or CAPD
 - » CAPD > IHD *
 - » HHD > IHD

Cameron JI. AJKD 2000; 35: 629-37

Old debate: PD vs HD

QOL Defined

 RRT

 Avoiding RRT

 Other Rx

Non medical

Summary

- Results not uniform/clear cut
- US Study

PD Better	HD Better
Body pain	Physical functioning
Diet restrictions	Sleep
Dialysis access	Body image
Travel	
Finances/work	
Psychological well being	

Cameron JI. AJKD 2000; 35: 629-37 Wu AW. JASN 2004; 15: 743-53

For PD

QOL Defined
RRT
Avoiding RRT
Other Rx
Nonmadiaal
Non medical
Summary

- PD has a learning curve (centre)
- Elderly
 - Comforts of home
 - Transportation more of an issue
 - Less intrusive



New debate: Home HD vs PD

QOL Defined

RRT

Avoiding RRT

Other Rx

Non medical

Summary

Cross-Sectional Comparison of Quality of Life and Illness Intrusiveness in Patients Who Are Treated with Nocturnal Home Hemodialysis *versus* Peritoneal Dialysis

Edwin Fong, Joanne M. Bargman, and Christopher T. Chan Toronto General Hospital-University Health Network, Toronto, Ontario, Canada

	NHD	PD
Age	49	62
Charlson index	1.14	1.82
Cr	503	800

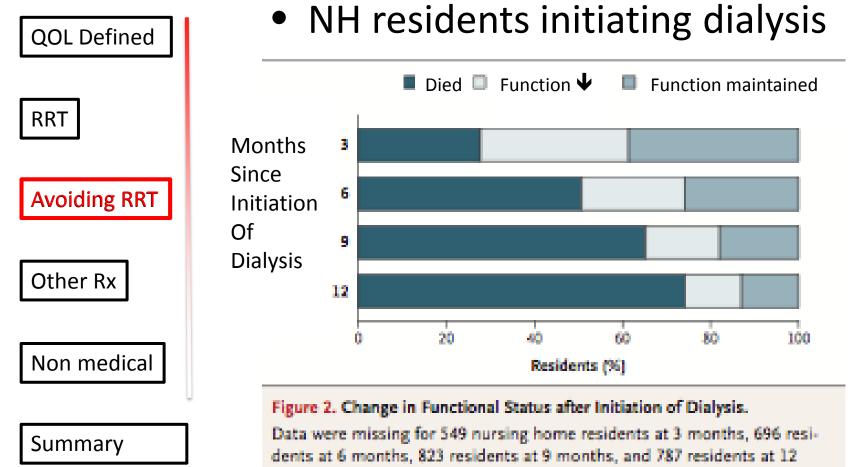


HNHD vs PD

Table 3. Comparisons of KDQOL values between NHD and PD patients

-	_		
Variable	NHD	PD	Р
Symptom problem list	76.3 ± 2.5	71.9 ± 2.6	0.22
Effect of kidney disease	61.5 ± 3.7	60.7 ± 2.7	0.85
Burden of kidney disease	37.0 ± 4.4	47.0 ± 3.8	0.092
Work status	48.6 ± 7.6	36.0 ± 5.4	0.17
Cognitive function	75.6 ± 4.8	81.4 ± 2.2	0.27
Quality of social interaction	73.5 ± 3.0	75.8 ± 2.3	0.55
Sexual function	81.7 ± 5.4	61.8 ± 9.0	0.07
Sleep	52.8 ± 3.9	54.1 ± 2.7	0.79
Social support	65.7 ± 5.3	79.2 ± 2.8	0.027
Dialysis staff encouragement	89.2 ± 2.6	85.7 ± 2.8	0.37
Patient satisfaction	75.5 ± 4.3	79.2 ± 2.7	0.46
Physical component	55 +/- 2.3	52 +/- 1.8	0.35
Mental component	62 +/- 4.7	60 +/- 3.5	0.77
•	-	-	

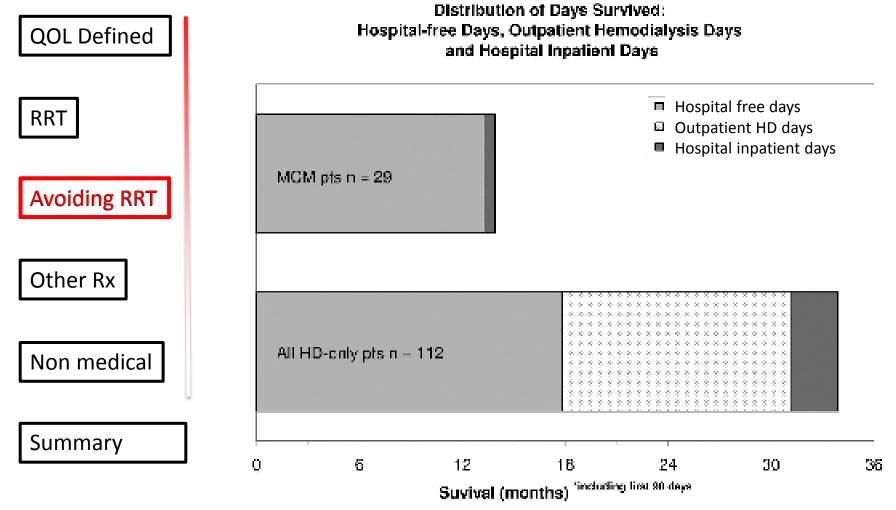
Non Dialytic Management



months from the full analytic cohort of 3702 residents.

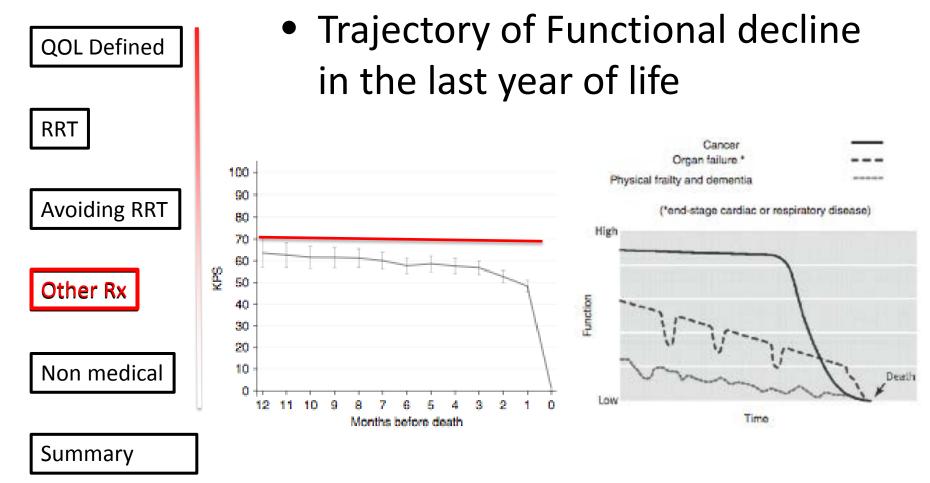
Non Dialytic Mgt





Carson RC. CJASN 2009; 4: 1611

Non Dialytic Management



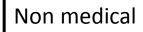
Murtagh F. J am Geriatric 2011; 59: 304-8

Anemia

QOL Defined

Avoiding RRT

Other Rx



Summary

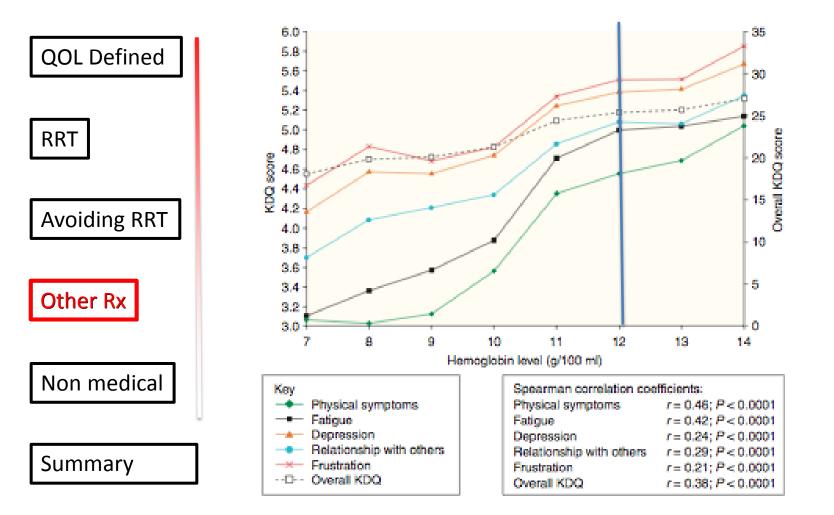
• 1930's Dr Kolff invents Dialysis



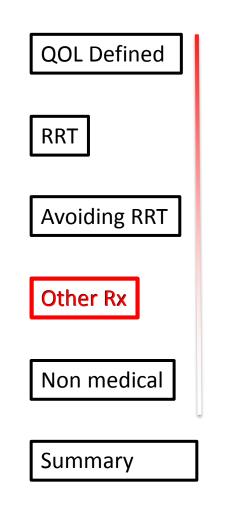
- Transfusions to keep borderline Hb
 - Infectious / Immune / Iron
- 1989: recombinant human EPO
 - Too much of a good thing (can kill you)

Leaf DE. KI 2009; 75: 15-24 Johansen KL. AJKD 2010; 55: 535-48 Kliger AS. CJASN 2012; 7: 354-7

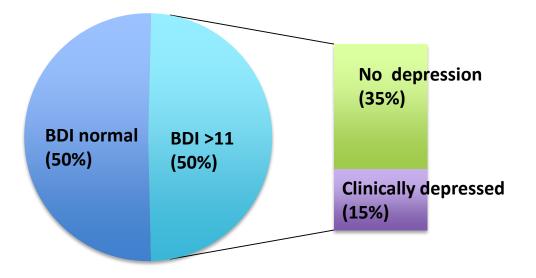
Anemia



Depression



- Prevalence
 - 2-4% in gen pop. 20-40% in CKD
- Diagnosis/Screening
 - PD population Yale ~ 136 patients



Wuerth D. AJKD 2001; 3: 1011-7

Depression

QOL Defined	
RRT	
Avoiding RRT	
Other Rx	
Non medical	
Summary	

- Pharmacological treatment
 - Limited data for efficacy in CKD
 - Patients can be reluctant to take more meds
 - drug interactions

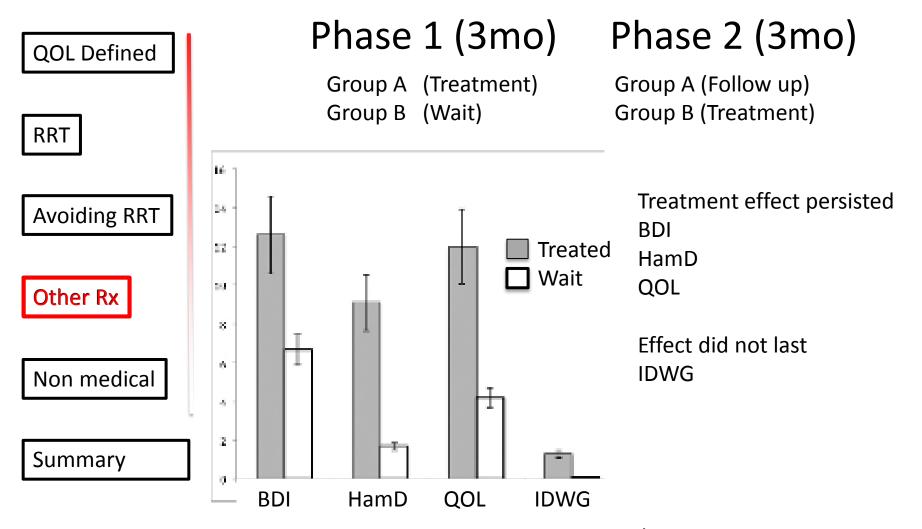
Cognitive Behavioral Therapy



Table 3. Intervention session content

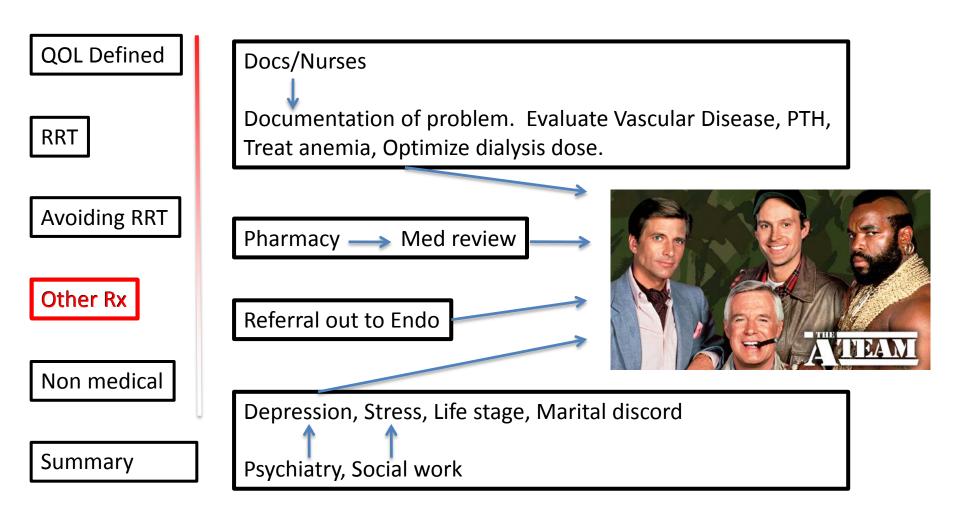
efined Session	ision Content of the Intervention Sessions	
1-2	Assessment	Assess patient's motivation for change, goals for treatment, "stage of change"; evaluate need for patient to modify fluid intake, compliance with medical regimen
ng RRT	Psychoeducation	Highlight similarities/differences between depression and medical illness
3-6	Behavioral intervention	Behavioral activation—increase participants' enjoyable activities
Rx	Cognitive intervention	Train participants on the relationship between dysfunctional automatic thoughts and negative perceptions and outcomes
edical 7–8		Teach and practice healthy living (compliance) skills in session
		Increase positive social contacts—initiating contact, building support network
ary 9–10		Plan for termination of therapy—identify which interventions were helpful and which were not, relapse prevention

Cognitive Behavioural Therapy



Cukor D. JASN 2014; 25: 196-206

Sexual dysfunction



Finkelstein FO. Nat clin pract Nephrol 2007; 3: 200-7

Sleep disorder

QOL [Defined
RRT	

Avoiding RRT

Other Rx

Non medical

Normal population Dialysis Insomnia 45-70% 28% **Restless** legs 18% 1-5% Nightmares 2% 13% Sleep apnea 25-70% 4% Daytime somnolence 12-70% 2.5% Frequent awakening 70% 3%

* Evaluation should be with history, sleep diary, sleep study

Summary

Gusbeth P. Int Urol Nephrol 2007: 39: 1217-26

Sleep apnea

QOL Defined		
	General Treatment	Specific to dialysis
RRT	Treat Anatomic airway obstruction (tonsils, nasal obstruction, etc)	Nocturnal hemodialysis
Avoiding RRT	Mild: weight loss, sleep position, avoid ETOH, sedatives	Nocturnal PD
Other Rx	oral device CPAP	
Non medical		

Summary

CKD and **Exercise**



QOL Defined
RRT
Avoiding RRT

Other F	X
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Non medical

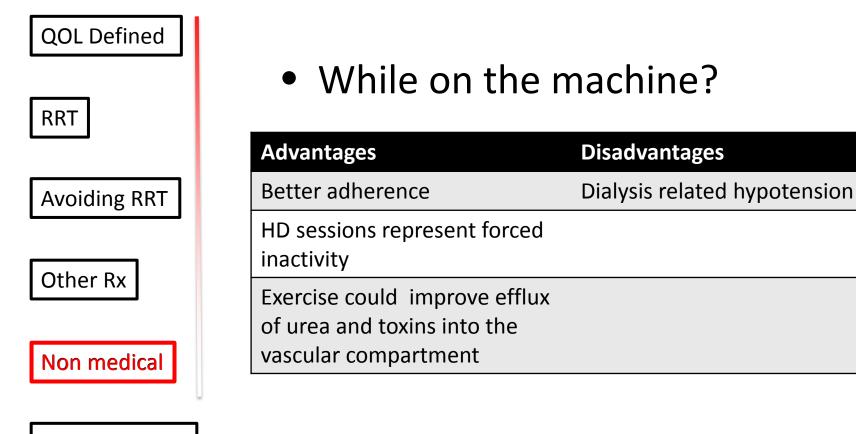
Summary

- 2576 reports found
 - 32 high quality studies

Does High intensity exercise improve fitness?	2
Does Low intensity exercise improve fitness?	?
Does exercise improve walking capacity?	?
Does supervised exercise improve fitness?	?
Does Unsupervised exercise improve fitness?	?
Does exercise improve QOL?	?

Exercise good! Compliance bad.

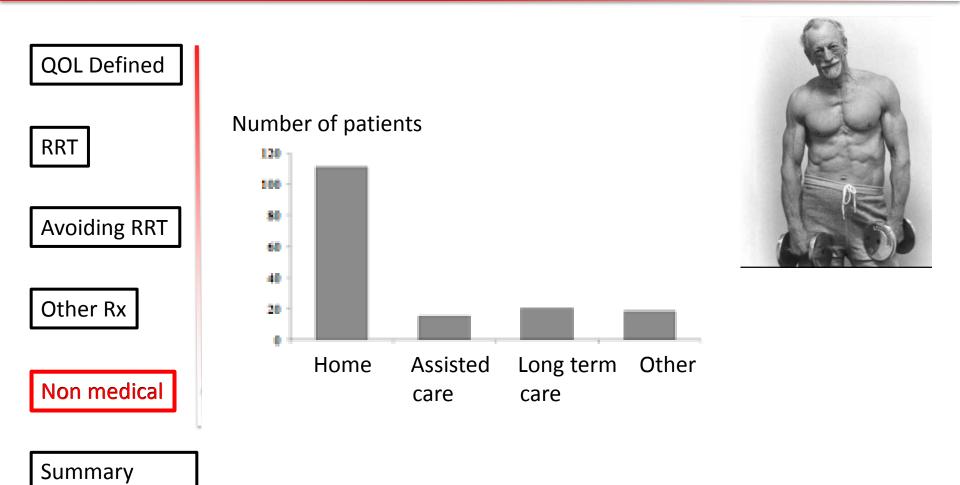




Summary

Johansen KL. JASN 2007; 18: 1845-54

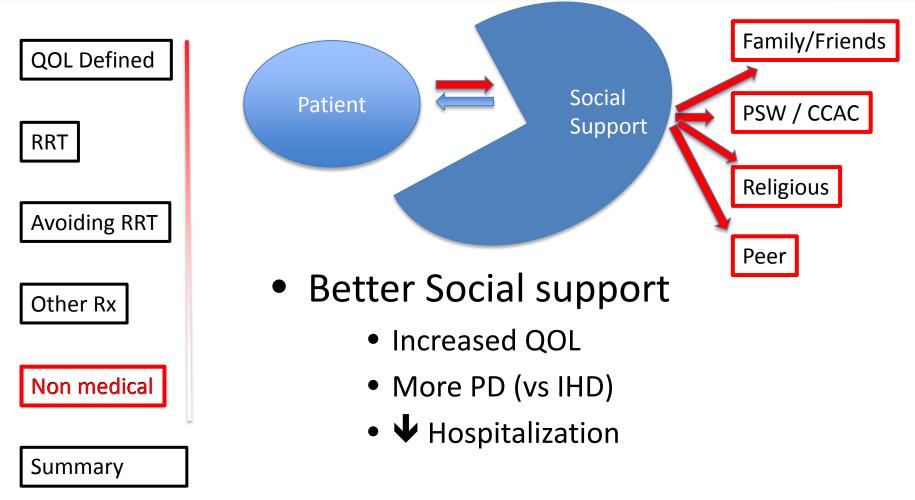
Geriatric Rehab: A new hope?



Jassal V. AJKD 2007: 50: 90-97

Social support





Tong A. NDT 2008; 23: 3960-65 Plantinga LC. CJASN 2010; 5: 1480-88

Summary

QOL Defined
RRT
Avoiding RRT
Other Rx
Non medical

Summarv

- Why is QOL important?
 - Poor baseline in ESRD
 - Patients want quality > quantity

• RRT

- Transplant first
- Avoiding RRT can be reasonable
- Treat anemia

Summary

QOL Defined
RRT
Avoiding RRT
Other Rx
Non medical

Summarv

- Don't overlook
 - Depression
 - Sexual dysfunction
 - Sleep disturbances
- Exercise is good
- Social supports are important (and need our guidance as well)

Questions? Comments

QOL Defined	
RRT	
Avoiding RRT	
Other Rx	
Non medical	
Summary	ļ

- Mirror Mirror on the wall...
 - who has the most symmetrical face of them all?

