

PD im fortgeschrittenen Alter

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Auguste-Viktoria-Klinikum



Humboldt-Klinikur



Klinikum Am Urbar



Klinikum Kaulsdor



Klinikum Neukö



Klinikum Spandau



Wenckebach Klinikum

Klinikum im Friedrichshain

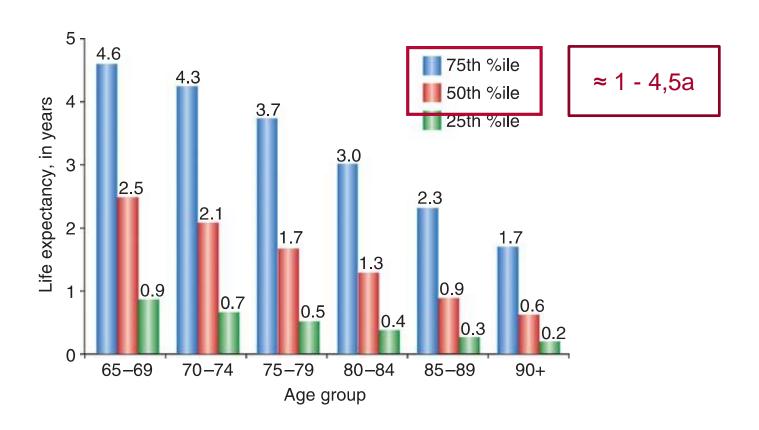
Alters- und Geschlechtsverteilung inzidenter Dialysepatienten Vivantes

Tabelle III.1: Alter und Geschlecht

	Alters- und Geschlechtsverteilung							
	Anzahl männlich	Anteil männlich	Median Alter männlich	Mittelwert Alter männlich	Anzahl weiblich	Anteil weiblich	Median Alter weiblich	Mittelwert Alter weiblich
0 bis 17 Jahre	201	0,23 %	10,00	8,68	111	0,13 %	11,00	9,55
18 bis 44 Jahre	4323	5,00 %	36,00	35,31	2603	3,01 %	36,00	35,00
45 bis 64 Jahre	15950	0,100%	57,00	55,99	9000	10,12 %	57,00	56,04
65 bis 74 Jahre	12019	13,91 %	69,00	69,54	6892	7,98 %	70,00	69,63
75 Jahre und älter	19961	23,11 %	80,00	81,17	15328	17,74 %	81,00	81,49
gesamt	52454	00,72%	69,00	66,79	33934	33,20 /0	72,00	68,53

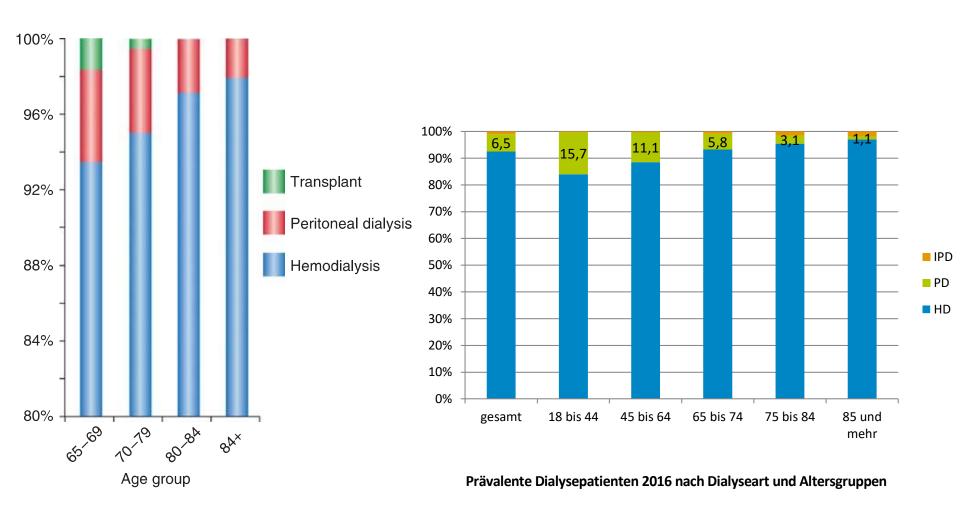
Lebenserwartung bei Dialysebeginn





Initial RRT-modality in the US in 2008 und in Dtl. 2016



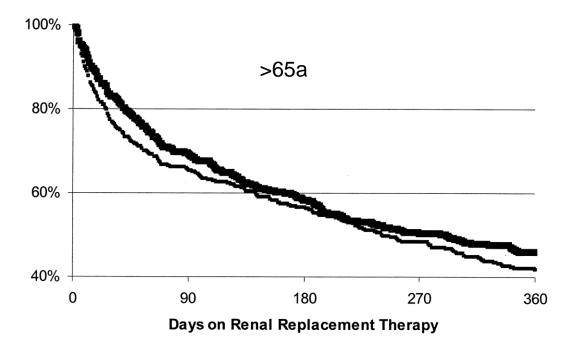


Überlebenswahrscheinlichkeit nach Dialysebeginn



United States Renal Data System-Adjusted Probability of Survival Among ESRD Patients by Months after Initiation of Treatment in 2007 (3)

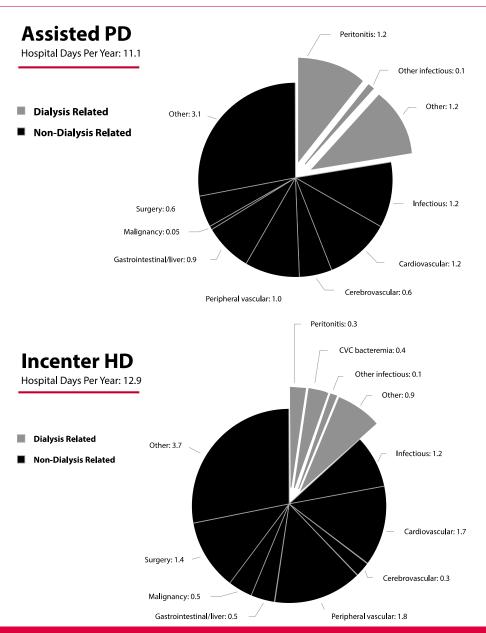
	3 months	12 months	24 months	36 month	60 months
Hemodialysis (%)	91.4	75.8	63.7	54.2	39.8
Peritoneal dialysis (%)	96.9	87.6	74.9	64.7	49.2
• • •					



Peritoneal dialysis patients
 Hemodialysis patients

Cause-specific hospital days for assisted PD compared with in-center HD





Kein Unterschied > 65a und < 65a bzgl.:



- Peritonitisrisiko
- technischem Überleben / Transferrate zu HD
- kumulativem Überleben

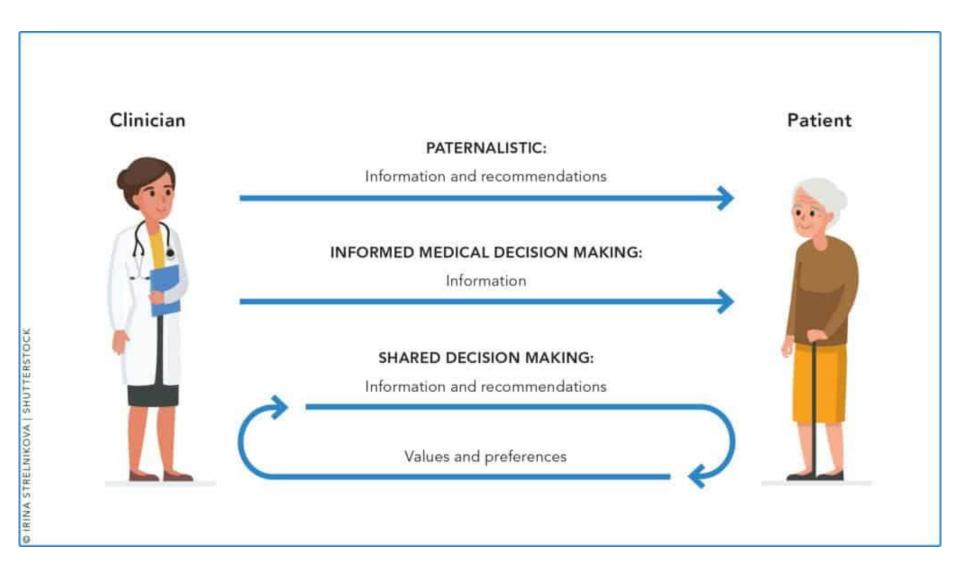
 Keine Unterschiede zwischen selbständigen PD- Pat. > 65a und assistierter PD bei > 65a

- Höhere Zufriedenheit mit Behandlung als HD-Patienten
- Weniger Zugangsprobleme



Shared Decision Making (SDM)





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Shared Decision Making + Advanced Care Planning



rechtzeitige (CKD 4-5) + umfassende Aufklärung (Informationspflicht)
 Initial zeitaufwändig, im Verlauf Ressourcen-sparend



- Subjektiv: Wünsche + Erwartungen des Patienten
- Objektiv: medizinische und soziale Konditionen



Therapie-Ziel definieren: Lebensverlängerung? Lebensqualität?
 Ist eine konservative Therapie ausreichend?



- Festlegung eines klaren Konzeptes für jeden Patienten
- Interdisziplinäres Team: erfahrene PD-Schwester

Nephrologe

Sozialarbeiter, HKP

(Chirurg, Psychiater, Physiotherapeut..)

Wie möchten wir im Alter leben?



- selbstbestimmt, Gestaltungsfreiheit i.R. der Leistungsfähigkeit
- alleine oder in Gesellschaft
- Teilhabe am sozialen Leben

so normal, wie möglich (to achieve a sense of normality)

Erhalt der Selbständigkeit

- Wenige Kn-Aurentnaite
- keine Polypharmazie
- barrierefrei
- gefördert und gefordert



Tab. 1. Frailty-Kriterien nach Fried [1] und 5-Fragen-Screeningtest [6, 7].

Kriterien nach Fried	FRAIL
Unabsichtlicher Gewichtsverlust	
	"Fühlen Sie sich meistens müde?"
Subjektive Freehönfung	Posistonz (Muskalkraft)

Frailty bei CKD = um das 3- bis 10-fache häufiger als in einer altersentsprechenden, nicht nierenkranken Population

Aktivität	"Haben Sie in den letzten 5 Monaten
	ungewollt mehr als 5 kg Gewicht
	verloren?"

≥ 3 Kriterien: Frailty, 1 – 2 Kriterien: Prä-Frailty.

ر Vivantes

American Nephrology Nurses' Association National Kidney Foundation

Comprehensive Interdisciplinary Patient Assessment (CIPA) Example Questions

Assessment to Plan of Care

The CIPA is the first step in the care planning process and will generate a list of problems. The care team will create or adjust the plan of care to address the problems identified by the CIPA. The CfC (§494.90) state that the Plan of Care must:

- Be individualized
- Specify the services necessary to address the patient's needs identified in the assessment
- Include measurable and expected outcomes
- Include estimated timetables to achieve outcomes
- Contain outcomes consistent with current evidence-base professionally-accepted clinical practice standards

Minimum Criteria of the Assessment



The CIPA must consist of the following minimum criteria:

- Evaluation of current health status and medical condition, including co-morbid conditions
- Evaluation of the appropriateness of the dialysis prescription, blood pressure, and fluid management needs
- Laboratory profile, immunization history, and medication history
- Evaluation of factors associated with anemia, such as hematocrit, hemoglobin, iron stores, and potential treatment plans for anemia, including administration of erythropoiesis-stimulating agent(s)
- Evaluation of factors associated with renal bone disease
- Evaluation of nutritional status by a dietitian
- Evaluation of psychosocial needs by a social worker
- Evaluation of dialysis access type and maintenance (for example, arteriovenous fistulas, arteriovenous grafts, and peritoneal catheters)
- Evaluation of the patient's abilities, interests, preferences, and goals, including the
 desired level of participation in the dialysis care process; the preferred modality
 (hemodialysis or peritoneal dialysis) and setting (for example, home dialysis), and the
 patient's expectations for care outcomes
- Evaluation of suitability for a transplantation referral, based on criteria developed by the
 prospective transplantation center and its surgeon(s). If the patient is not suitable for
 transplantation referral, the basis for nonreferral must be documented in the patient's
 medical record
- Evaluation of family and other support systems
- Evaluation of patient's current physical activity level
- Evaluation for referral to vocational and physical rehabilitation services

Einschätzung älterer Patienten zur PD-Eignung



Method to Assess Treatment Choices for Home Dialysis (MATCH-D)

www.homedialysis.org/match-d

Suitability Criteria for Self Peritoneal Dialysis: CAPD, APD

Strongly Encourage PD ☐ Any patient who *wants* to do PD *or* has no barriers to it ☐ Employed full- or part-time ☐ Student – grade school to grad school ☐ Caregiver for child, elder, or person with disability ☐ New to dialysis or has had transplant rejection ☐ Lives far from clinic and/or has unreliable transportation ☐ Needs/wants to travel for work or enjoyment ☐ Has needle fear or no remaining HD access sites ☐ BP not controlled with drugs ☐ Can't or won't limit fluids or follow in-center HD diet ☐ No (required) partner for HHD □ Values flexibility and control of own treatment

Encourage PD After Assessing & Eliminating Barriers
Unemployed, low income, no HS diploma - not barriers to PD
Simple abdominal surgeries (e.g. appendectomy, hernia repair, kidney transplant) – not barriers to PD
Has pet(s)/houseplants (carry bacteria) - bar from room at least during PD connections
Hernia risk or recurrence <i>after</i> mesh repair – use low daytime volume or dry days on cycler
Blind, has no use of one hand, or neuropathy in both hands – train with assist device(s) as needed
Frail or can't walk/stand – assess lifting, offer PT, offer CAPD, use 3L instead of larger bags for cycler*
Unable to speak or read local language – use pictures, videos, culturally-specific training tools, interpreters, and demonstrations
Resident of a nursing home – train staff to provide dialysis
Hearing impaired – use light/vibration for alarms
Depressed, angry, or disruptive – increased personal control with PD may be helpful
Unkempt – provide hygiene education; assess results
Anuric with BSA >2 sqm – assess PD adequacy†‡
Swimmer – ostomy dressings, chlorinated pool, ocean
Limited supply space – visit home, 2x/mo. delivery
Large polycystic kidneys or back pain – use low daytime volume or dry days on cycler†‡
Obese – consider presternal PD catheter
RX drugs impair function – consider drug change

May Not Be Able to Do PD (or will Require a Helper) ☐ Homeless – refer to social services and reassess when rehoused ☐ Can't maintain personal hygiene even after education ☐ Home is unclean/health hazard; patient/family won't correct □ No/unreliable electricity for CCPD; unable to do CAPD ☐ Multiple or complex abdominal surgeries; negative physician evaluation. † ‡ ☐ Brain damage, dementia, or poor shortterm memory* ☐ Reduced awareness/ability to report body symptoms ☐ Malnutrition after PD trial leads to peritonitis++

Check all the boxes that apply. Keep a copy of the MATCH-D in patient record.

catheter

☐ Uncontrolled anxiety/psychosis*

☐ Has colostomy; consider presternal PD



* May be able to do with a helper † Consider nocturnal HHD ‡ Consider daily HHD

Assessment – objektivierbare Faktoren





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ATL's	Barthel-Index
Mobilität/Sturzrisiko	Timed up and Go-Test Chair rising Test
Kognition	MoCa-Test Depressionsskala
Soziale Situation	Sozialanamnese Biographiearbeit
Ernährung	Albumin NRS
Praktische Übung	Beutel heben, aufreißen und mischenÜLS ausprobieren





TABLE 1

Relative Contraindications to Peritoneal Dialysis*

Medical conditions

Abdominal surgery – prior scarring, recent or planned surgeries Colostomy, ileostomy, or ileal conduit

Diverticulitis-active

Castrictube

Hernias – uncorrectable

TABLE 2 Barriers to Peritoneal Dialysis and Other Factors Influencing Choice

Barriers

Medical barriers – diarrhea, incontinence, gastroparesis Physical barriers – decreased strength, manual dexterity, vision,

hearing, and general frailty

Cognitive barriers – decreased memory, executive functions, dementia, prior stroke, psychiatric conditions

PLEASE NOTE: Patients who have barriers to self home dialysis (PD or home HD) may still be able to successfully do home dialysis with a helper who is willing to take on primary responsibility for care.

PD=peritoneal dialysis.

* Contraindications listed are frequently cited reasons that patients are not offered PDbut do not necessarily represent absolute contraindications in all PD programs or in the opinion of all nephrologists.

HEXIDITITY OF SCHEOULE

Medicalization of the home

Employment

Effect on other caregivers or family members

Finances/ expenses

Availability of space/storage in the residence

Other lifestyle issues e.g. swimming, pets

Experience of other patients

Desire to socialize with other patients/ health care professionals

Body image with abdominal catheter

Einschätzung der self-care-Kompetenz



TABELLE 1

CSHA* Klinis	che Frailty	y-Skala [18]
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Kategorie	Piktogramme**	Einstufung	Beschreibung	
1	*	sehr fit	robust, aktiv, energisch, gut motiviert und fit: Diese Menschen trainieren regelmäßig und zählen zur fittesten Gruppe in ihrem Alter.	Ja
2	•	gut	ohne aktive Erkrankungen, aber weniger fit als Menschen der Kategorie 1	
3	Ť	gut mit behandelten Komorbidi- täten	Krankheitssymptome sind im Vergleich zur Kategorie 4 gut kontrolliert	
4		scheinbar vulnerabel	obwohl nicht offensichtlich abhängig von anderen Menschen, beklagen sie doch, langsam geworden zu sein und Krankheits- symptome aufzuweisen	Ja, mit Hilfe
5		leicht gebrech- lich (frail)	mit begrenzter Abhängigkeit von anderen in den instrumentellen Aktivitäten des täg- lichen Lebens	
6		mittelgradig gebrechlich	Hilfe ist in den instrumentellen und nicht- instrumentellen Aktivitäten des täglichen Lebens nötig	
	- 1	sehr	komplett abhängig von anderen Menschen	Nein
7		gebrechlich	in den Aktivitäten des täglichen Lebens oder im Endstadium krank	

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^{*:} CSHA: Canadian Study on Health and Aging
**: http://geriatricresearch.medicine.dal.ca/pdf/Clinical%20Faily%20Scale.pdf

Möglichkeiten der Assistenz prüfen



- Ehepartner / Lebensgefährten
- Familienmitglieder
- HKP ambulant
- Pflegeteam stationär
- IPD in Praxis oder Klinik



Trainingsplanung: Wer? Wie? Welche Ziele?



selbständig	Patient	normales Training	KDIGO
vulnerabel	Patient (+ Assistenz)	adaptiertes Training	KDIGO?
gebrechlich	Assistenz	reduziertes Training	KDIGO?? Symptomkontrolle!

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Individuelle Anpassung der Patientenschulung



Informationsverarbeitungsgeschwindigkeit

langsamer

Kapazität des Arbeitsgedächtnisses



länger

Gewichtung der Trainingsinhalte

überlebenswichtig

wünschenswert

möglich



ISPD Guidelines/Recommendations 2016



ASSESSMENT AND CHECKLIST FOR PERITONEAL DIALYSISTRAINING

Learner's name	
Learner(s): patient pa	artner other caregiver(s)
Nurse's name	
Date training initiated	Date training completedHours per day;
Total hours; Total days	
Learning style(s) identified: () visual () audito	ory() read/write() motor or kinesthetic
Comments	
Barriersto Learning:	
 () Decreased motor skill/ dexterity () Decreased hearing () Decreased vision (use of glasses/ blind) () Low reading literacy () Low numeracy literacy () Language barrier 	 () Anxiety () Depression () Fatigue () Memory problems () Uremia () Other Please specify
Date of planned re-training	

Unterschiedliche Lernstile beachten



TABLE 1 Characteristics of Learning Styles

	Visual	Aural	Read-write	Kinesthetic
Characteristic	Tends to be a fast talker and has a tendency to interrupt	Speaks slowly and tends to be a natural listener; thinks in a linear manner	Prefers information to be displayed in writing – list of ideas	Tends to be the slowest talker of all
			Emphasize text-based input and output	
Implementing teaching	Use graphs, colorful brochures, different spatial arrangements	Read to patients and ask them to explain aloud their	Makelists	Hands-on approach, does things to understand,
rodo iii ig	(fonts) on a page, draw pictures to show ideas, use	understanding, tape record for later listening with	Write definitions	practical sessions
	gestures when speaking	no background music	Use Powerpoint	Videos and pictures showing real objects
	Large font size 14	Explain to others (i.e. staff, family members)	Manuals	Use mannequins or
		the concepts learned	Printed handouts	real-life examples
			Ask patient to rewrite what	
			has been learned using their own words	

Hilfsmittel entsprechend Lernstil einsetzen



TABLE 1
Suggestion to Teach According to VARK Learning Style

	Implementin	g teaching	
Visual	Aural (Auditory)	Read-write	Kinesthetic (Motor)
Information in diagrams, graphs, colorful brochures.	Information processing through hearing.	Information displayed specifically as words (can be confused with visual).	Sense of touch facilitates learning through actual doing or manipulation.
Use different spatial arrangements (fonts) on a page.	Read to patients and ask them to explain aloud their understanding.	Make lists.	Use hands-on approach.
Drawpictures to show ideas.	Ç	Write definitions.	Needs to do to understand.
Use gestures when speaking.	Use tape recording for later listening with no background music.	Use PowerPoint.	Practical sessions.
Use large font size – 14 point.	Encourage discussion, groups	Use manuals, printed handouts.	Videos and pictures showing real things.
	speaking, Web chat, and talking	Ask patient to rewrite what has	roal triirigo.
	thingsthrough.	been learned with own words.	Real-life examples.
	Verbally explain care plan.		Use mannequin to practice.
	Rephrase important points and questions in several different ways to communicate the intended message.		

Adapted from Fleming and Baume (15) and I nott and Kennedy (19).

Training im Alter: langsamer + länger!



- ruhige Umgebung + ungeteilte Aufmerksamkeit
- 1 Pat. + 1 Schwester: keine Wechsel
- kurze Trainingssitzungen
- regelmäßige Pause (mind. alle 2 h)
- viele Wiederholungen, viel Praxis, wenig Theorie
- ggf. "Trockentraining" vorab
- Bildmaterial zur Hilfe nehmen, Schriftgröße (>12)
- Hausbesuch
- Training zu Hause durchführen / fortsetzen
- Nur ein Verfahren erlernen (keine CAPD bei APD)

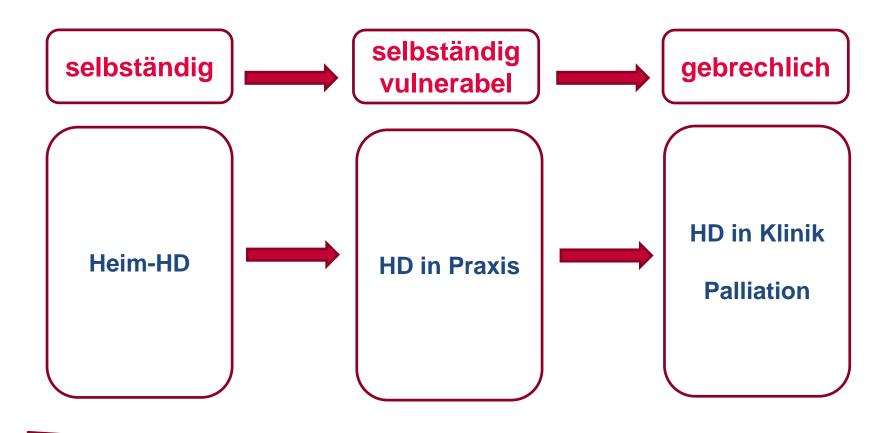


Barrieren	Hilfsmittel	
kognitiv	Training anpassen	
	Kurzfristige Nachschulung – Hausbesuche (nach 1 Wo, nach 3-4 Wo)	
	Hilfestellung: Audiodatei (Sprachmemo), Film, Poster – Lerntyp!	
	Incremental (dialysefreie Tage, 3-BW etc.)	
	Großzügige Alarmgrenzen am Cycler	
	Nur 1 Verfahren lernen (keine CAPD vor APD)	
	Telemedizin	
	Assistenz	
physisch	Lösungsbeutel mit 3I oder 2,5I für APD "saure" Lösungen	
	Einhändig bedienbarer Infusionsständer, Konnektionshilfen	
	Ernährungsberatung	
	Prävention: Kardiosport, Schrittzähler, Sturzprophylaxe	
	Hilfsmittel: Rollator, Anti-Rutschmatten, Haltegriffe	
	Assistenz	

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Jahrelange Realität in der HD





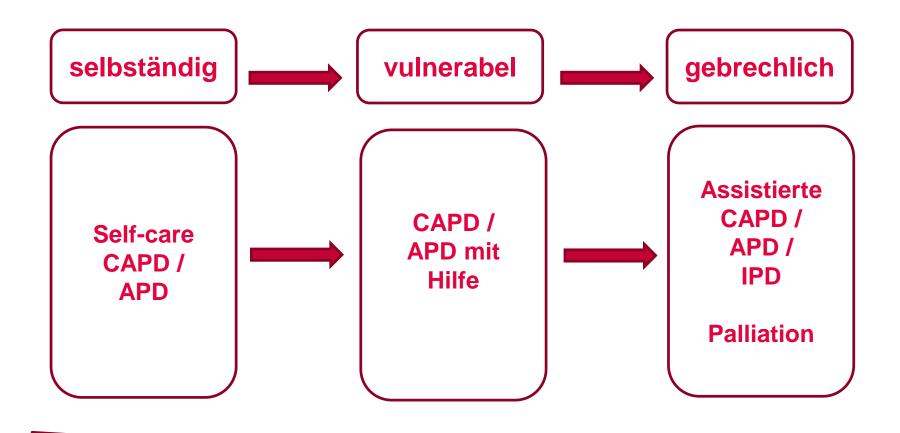
Selbständigkeit (kurativ)

Assistenzbedarf (palliativ)

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Zukunftswunsch für die PD





Selbständigkeit (kurativ)

Assistenzbedarf (palliativ)

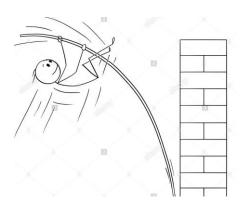
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PD beim älteren Patienten – was brauchen wir?



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- Den Willen zum Gelingen
- Zeit + Team
- Interessensfreie Information f
 ür Patienten



- Gemeinsame Entscheidungsfindung (subjektiv + objektiv)
- Kompetente PD-Pflege
- Individualisierte Unterstützung / Assistenz (je älter, desto mehr)
- Behandlungszufriedenheit + Lebensqualität in QS Dialyse aufnehmen
- Re-Evaluation in regelmäßigen Abständen (mind. 1 x /Jahr)

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"Jeder nach seinen Fähigkeiten, jedem nach seinen Bedürfnissen!"







Darlegung potentieller Interessenskonflikte

Der Inhalt des folgenden Vortrages ist Ergebnis des Bemühens um größtmögliche Objektivität und Unabhängigkeit.

Als Referent versichere ich, dass in Bezug auf den Inhalt des folgenden Vortrags <u>keine Interessenskonflikte</u> bestehen, die sich aus einem Beschäftigungsverhältnis, einer Beratertätigkeit oder Zuwendungen für Forschungsvorhaben, Vorträge oder andere Tätigkeiten ergeben.

06.12.2019 Interessenskonflikt



Table 1 | Prevalence of conditions in an incident ESRD population that can act as barriers to self-care peritoneal dialysis

Medical conditions	Number (% of population)
Decreased strength (to lift PD bags)	57 (43)
Decreased manual dexterity	49 (37)
Decreased vision/blindness	33 (25)
Immobility	27 (20)
Decreased hearing/deafness	23 (17)

Trainingsziele



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The patient and/or caregiver:

- is able to safely perform PD procedures using aseptic technique for connection;
- recognizes contamination and verbalizes appropriate action;
- identifies modification of fluid balance and its relationship to hypertension/ hypotension;
- can detect, report, and manage potential dialysis complications using available resources;
- understands when and how to communicate with the home dialysis unit.

Inanspruchnahme der verschiedenen Dialyseformen





Welches Verfahren für welchen älteren Patienten mit welchem Ziel?



robust

- CAPD oder APD
- 7 Tage-Woche (incremental)
- Kt/V ≥1,7
- optimale Medikation
- Ziel-RR 130/85 mmHg

Normales Training

vulnerabel

- CAPD oder APD
- 3-4 Wechsel
- 1 (-2) Tage Dialysepause pro Woche
- Ggf. leeren Tagesbauch
- Kt/V \geq 1,5-1,7?
- Ziel-RR 135-150/85-95 mmHg

Reduziertes Training

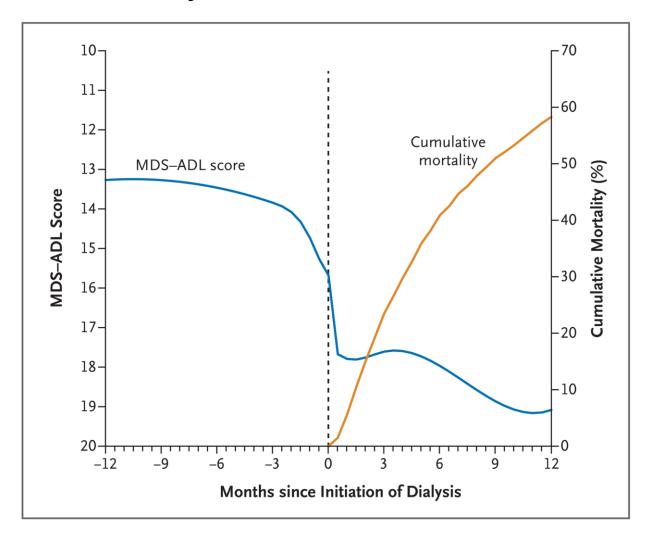
frail

- Assistierte APD oder IPD 3-5 x wöchentlich
- Leerer Tagesbauch
- Kt/V unerheblich
- Optimale Volumenkontrolle (cave: zu viel UF!)
- Medikation minimieren
- Ziel-RR 140-160/80-100 mmHg

Assistenztraining

Functional Status before and after the Initiation of Dialysis and Cumulative Mortality Rate





Among nursing home residents with ESRD, the initiation of dialysis is associated with a substantial and sustained decline in functional status.