



OSPEDALE  
"CASA SOLLIEVO DELLA SOFFERENZA"  
Istituto di Ricovero e Cura a Carattere Scientifico  
Opera di San Pio da Pietrelcina



SOCIETÀ ITALIANA DI NEFROLOGIA  
SEZ. APULO-LUCANA

XXXIII

Convegno Interregionale

XXI

Corso di aggiornamento  
Interregionale  
Personale Infermieristico  
e Tecnico di Dialisi

San Giovanni Rotondo (FG)  
30 settembre - 1 ottobre 2016  
Centro di Spiritualità Padre Pio



# *Emodialisi domiciliare: quando e a chi proporla*

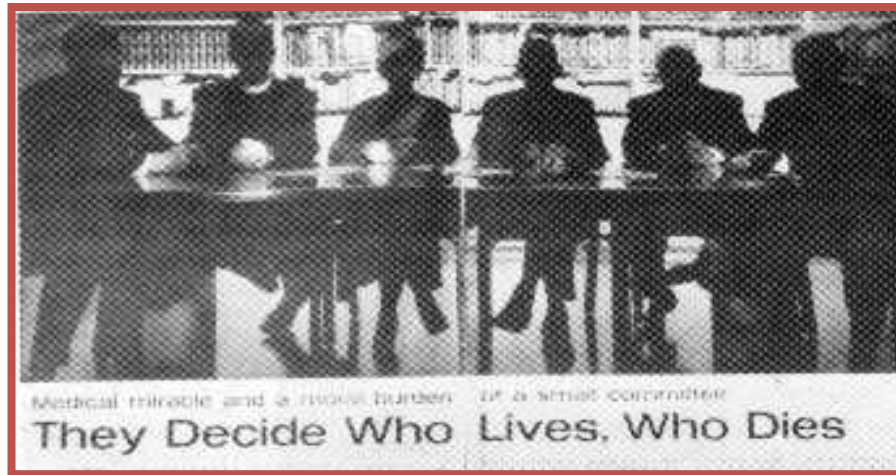


*R. Corciulo*



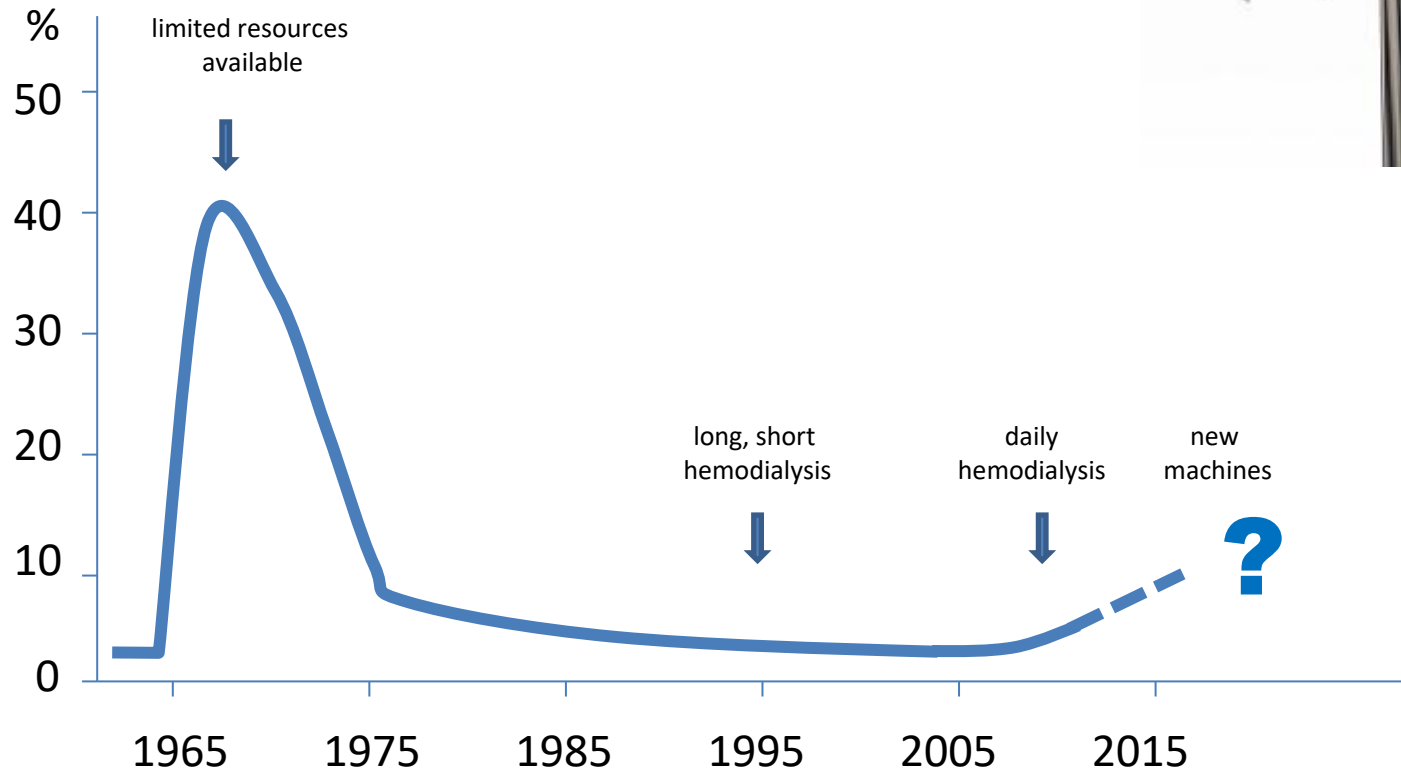
*Divisione di Nefrologia, Dialisi e Trapianto  
Università degli Studi  
Bari*

# Il Dramma dell'Uremia e la nascita dell'emodialisi domiciliare

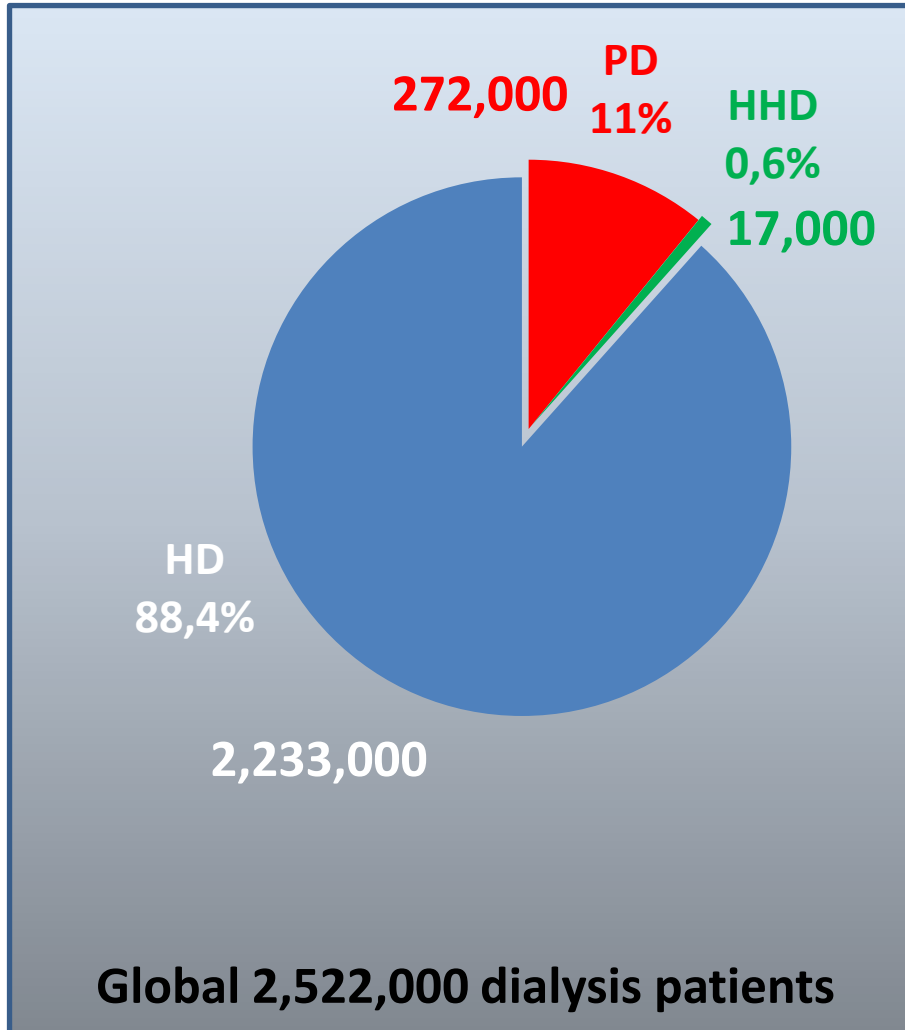


- ❖ Nel 1963 fu rifiutato il trattamento dialitico dall'Admission Committee alla figlia quindicenne di un collega e amico del prof. Babb, stretto collaboratore di Scribner. La paziente fu avviata al trattamento domiciliare nel 1964 con un prototipo delle moderne macchine da dialisi

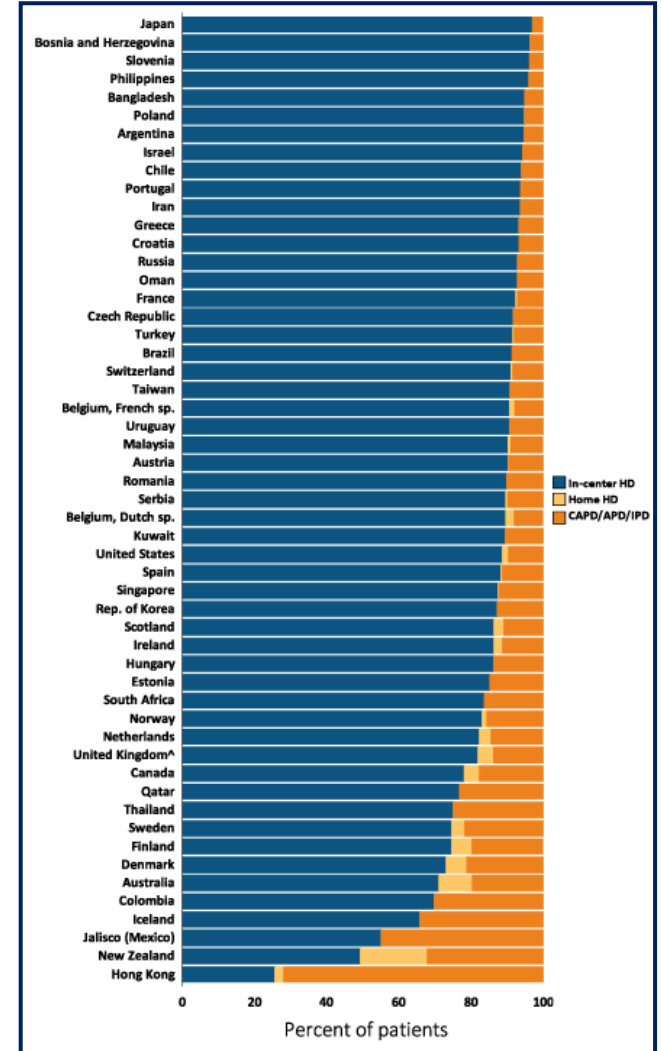
# Trend of HHD in U.S.



# Global overview of dialysis patients prevalence at year-end 2013

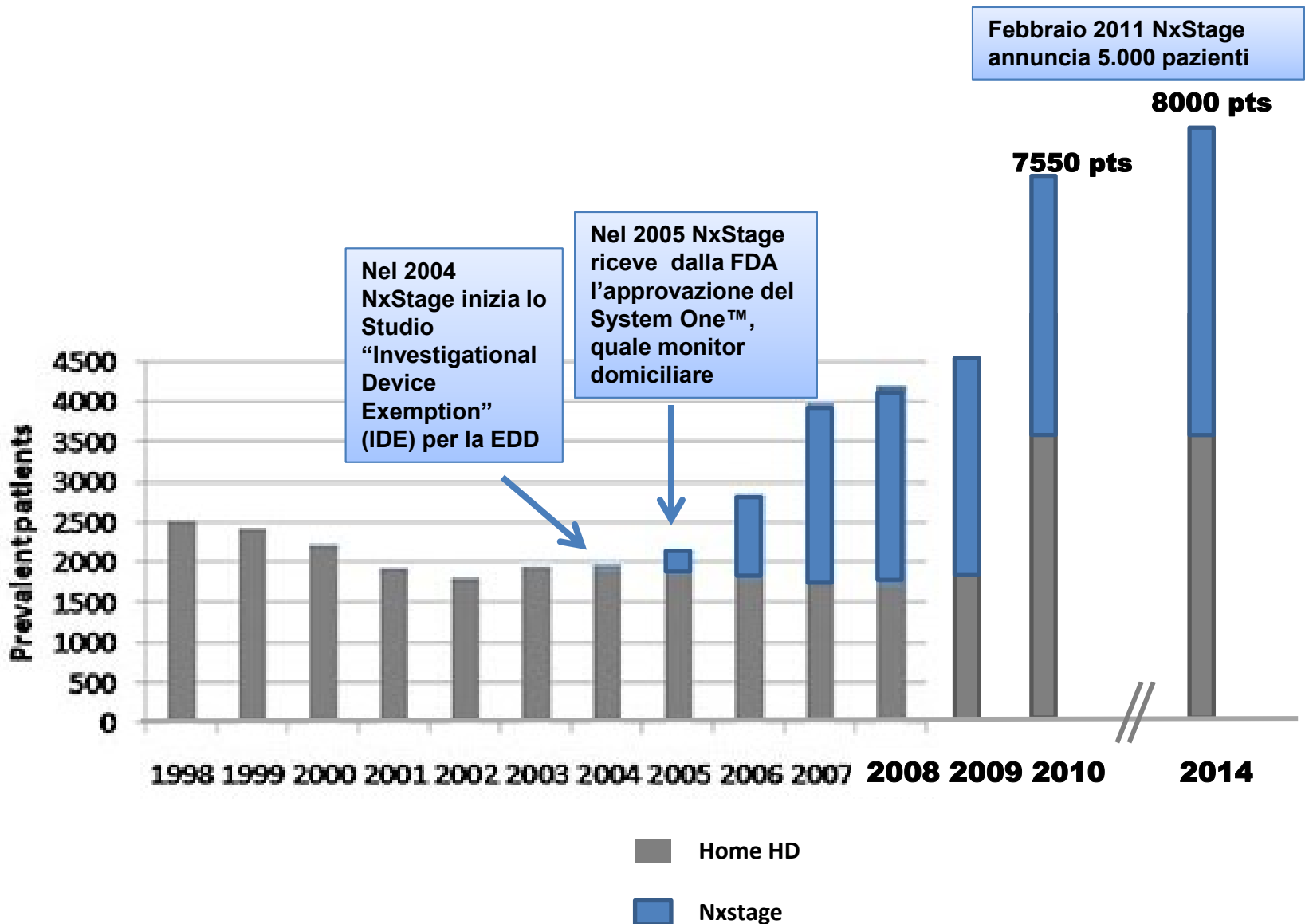


*modified by Fresenius Medical Care 2013*



**UNITED STATES RENAL DATA SYSTEM 2013**

# L'andamento dell'HHD negli US



# NxStage System One

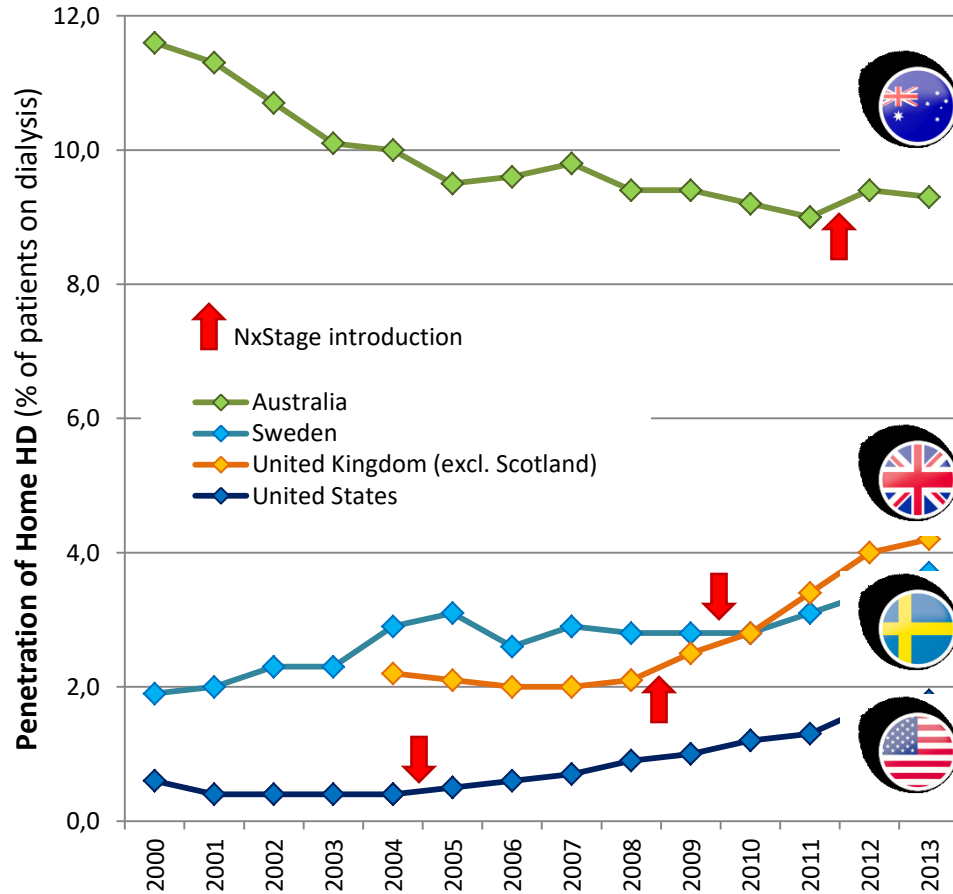
1. Più piccola rispetto alle tradizionali macchine (31,7 Kg)
2. Approvata per la HD domiciliare quotidiana
3. Elimina la necessità di modifiche ai collegamenti elettrici ed idraulici
4. Utilizza sacche da 5 L di dialisato ultrapuro (per effettuare la dialisi lontano da casa)
6. Produzione di dialisato on line per i pazienti che hanno bisogno di un aumento della clearance (NxStage PureFlow SL)



3x/sett.	Frequente	Notturna
✓	✓✓✓	✓✓✓

**Le dialisi più frequenti e più lunghe mimano la funzione renale**

# Changing trends in Home HD markets



- Some countries have shown a decreasing or flattening trend of Home HD penetration<sup>1</sup>.
- In these countries, growing trend restarts as soon as NxStage is introduced <sup>1,2</sup>.

# The FREEDOM Study

## Design & Protocollo di studio

- Studio multicentrico prospettico di coorte. I pazienti sono il controllo di se stessi.
- Arruolamento sino a 500 pazienti provenienti da un massimo di 70 centri dialisi. Minimo di 1 anno di follow-up.
- I pazienti eleggibili sono pazienti adulti con ESRD che necessitano di dialisi
- ***Studio sponsorizzato da NxStage Medical, Inc.***



# The FREEDOM Study

Interim Measure	Baseline	Month 12	P - Value
Beck Depression Inventory Score <sup>1</sup>	11.2	7.8	P < 0.001
Post Dialysis Recovery Time (min) <sup>1</sup>	476	63	P < 0.001
% of Patients Reporting Symptoms of Restless Legs Syndrome <sup>2</sup>	36%	26%	P = 0.0495
# of Prescribed Anti-Hypertensive Medications <sup>3</sup>	1.7	1.0	P < 0.0001
% of Patients NOT Prescribed Anti-Hypertensive Medication <sup>3</sup>	21%	47%	P < 0.002
MOS Sleep Scale - Sleep Problems Index I <sup>2</sup>	39	33	P = 0.001
MOS Sleep Scale - Sleep Problems Index II <sup>2</sup>	41	34	P < 0.001
SF36 - Physical component scale (PCS) <sup>4</sup>	34	38	P < 0.0001
SF36 - Mental component scale (MCS) <sup>4</sup>	50	52	P = 0.01

<sup>1</sup>Jaber B, et al. Improvements in Depressive Symptoms and Post-Dialysis Recovery Time. Am J Kidney Dis 56:531-539, 2010.

<sup>2</sup>Jaber B, et al. Improvements in Restless Legs Symptoms and Sleep Disturbances. Clin J Am Soc Nephrol 6: 1049–1056, 2011.

<sup>3</sup>Jaber B, et al. Poster presentation. SDHD Reduces The Need for Anti-Hypertensive Medications ASN Renal Week 2009.

<sup>4</sup>Finkelstein F, et al. SDHD Improves SF-36 Health Survey Domains. Poster presentation ADC 2011

QUERI

## Comparative Effectiveness of Home-based Kidney Dialysis versus In-center or Other Outpatient Kidney Dialysis Locations – A Systematic Review

April 2015

### Prepared for:

Department of Veterans Affairs  
Veterans Health Administration  
Quality Enhancement Research Initiative  
Health Services Research & Development Service  
Washington, DC 20420

### Prepared by:

Evidence-based Synthesis Program (ESP) Center  
Minneapolis VA Medical Center  
Minneapolis, MN  
Timothy J. Wilt, MD, MPH, Director

### Investigators:

Principal Investigator:  
Areef Ishani, MD, MS  
Yelena Slinin, MD

### Co-Investigators:

Nancy Greer, PhD  
Timothy J. Wilt, MD, MPH

### Research Associates:

Roderick MacDonald, MS  
Joseph Messana, MD  
Indulis Rutks, BS

AA. identified 130 articles (3 of which were systematic reviews) meeting inclusion criteria. For Key Questions 1 and 2, are included data from 32 registry studies, 3 RCTs, 3 CCTs, and 4 reports from 2 clinical cohort studies with enrollment at least 1,000 patients

**Key Question 1.** What are the benefits and harms (*ie, all-cause mortality, cardiovascular events, hospitalizations, quality of life, etcc...,*) of in-home compared to in-center HD?

**Key Question 2.** What are the benefits and harms (*ie, all-cause mortality, cardiovascular events, hospitalizations, quality of life, etcc...,*) of PD compared to in-home HD or in-center HD?

**Key Question 3.** What are the a) health care system, b) provider, and c) patient factors associated with selection of and technique survival for home-based dialysis (including PD)?

**Key Question 4.** In the published literature, what are the costs of home HD or PD compared to in-center HD?

QUERI

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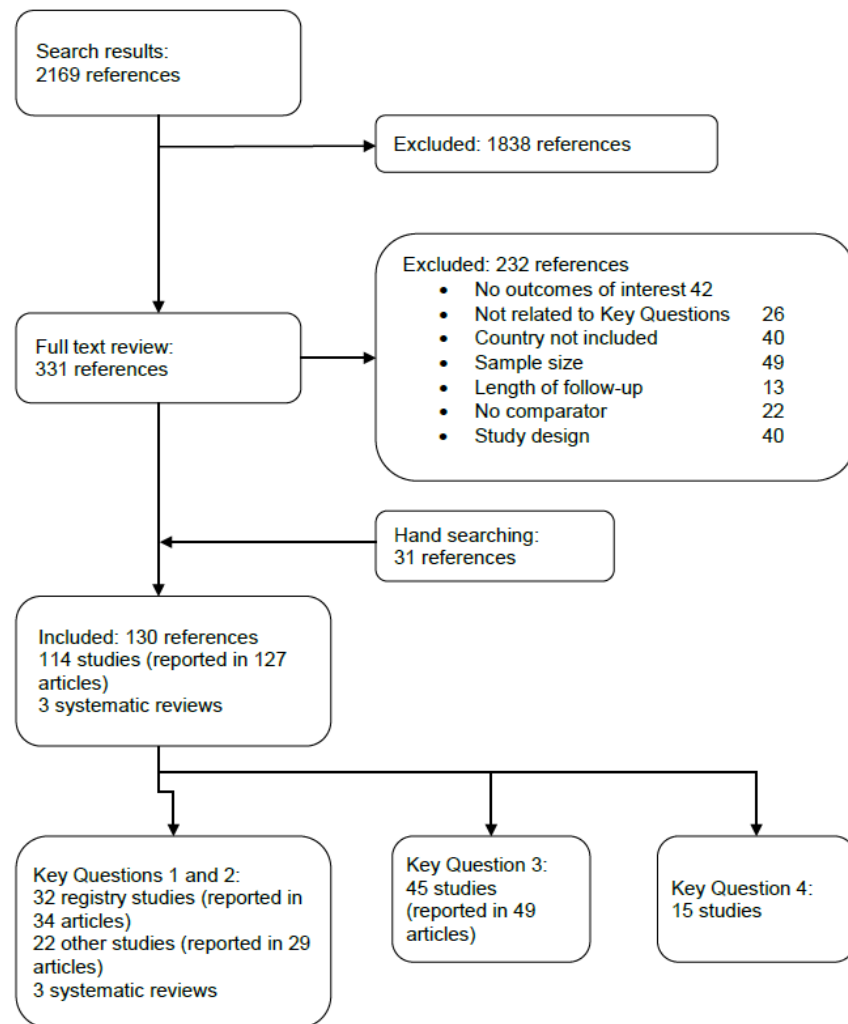
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## Conclusions

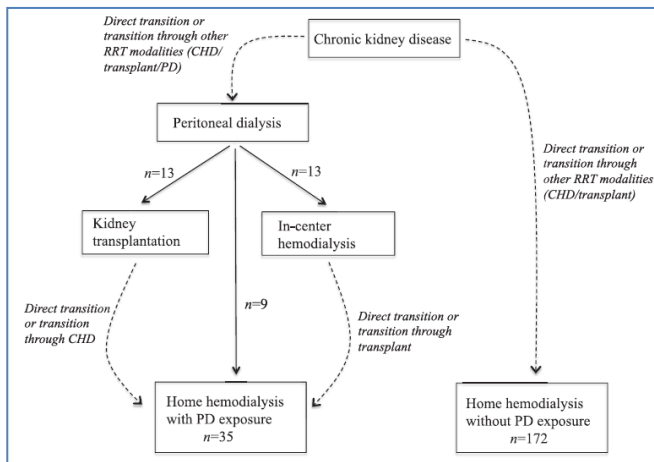
Evidence suggests that home-based dialysis may ***provide similar health outcomes and at similar or lower costs for many patients*** compared to in-center HD. Therefore, home-based dialysis may be ***an acceptable and sometimes preferred alternative to in-center HD***. Information is limited on factors important in addressing selection of and barriers to home-based dialysis and remains an area of important research and health policy.

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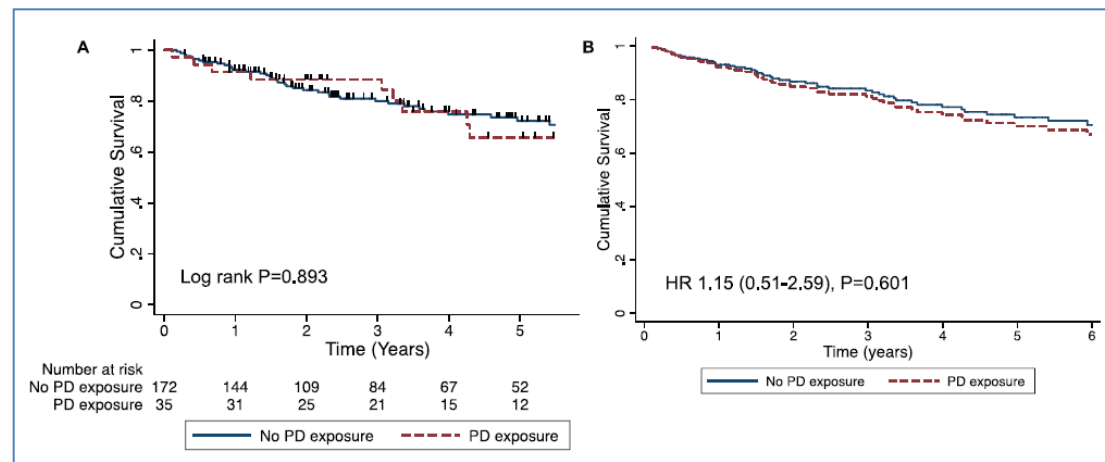
## CLINICAL OUTCOME OF HOME HEMODIALYSIS IN PATIENTS WITH PREVIOUS PERITONEAL DIALYSIS EXPOSURE: EVALUATION OF THE INTEGRATED HOME DIALYSIS MODEL

Annie-Claire Nadeau-Fredette, Joanne M. Bargman, and Christopher T. Chan

Toronto General Hospital – University Health Network, University of Toronto, Toronto, Ontario, Canada



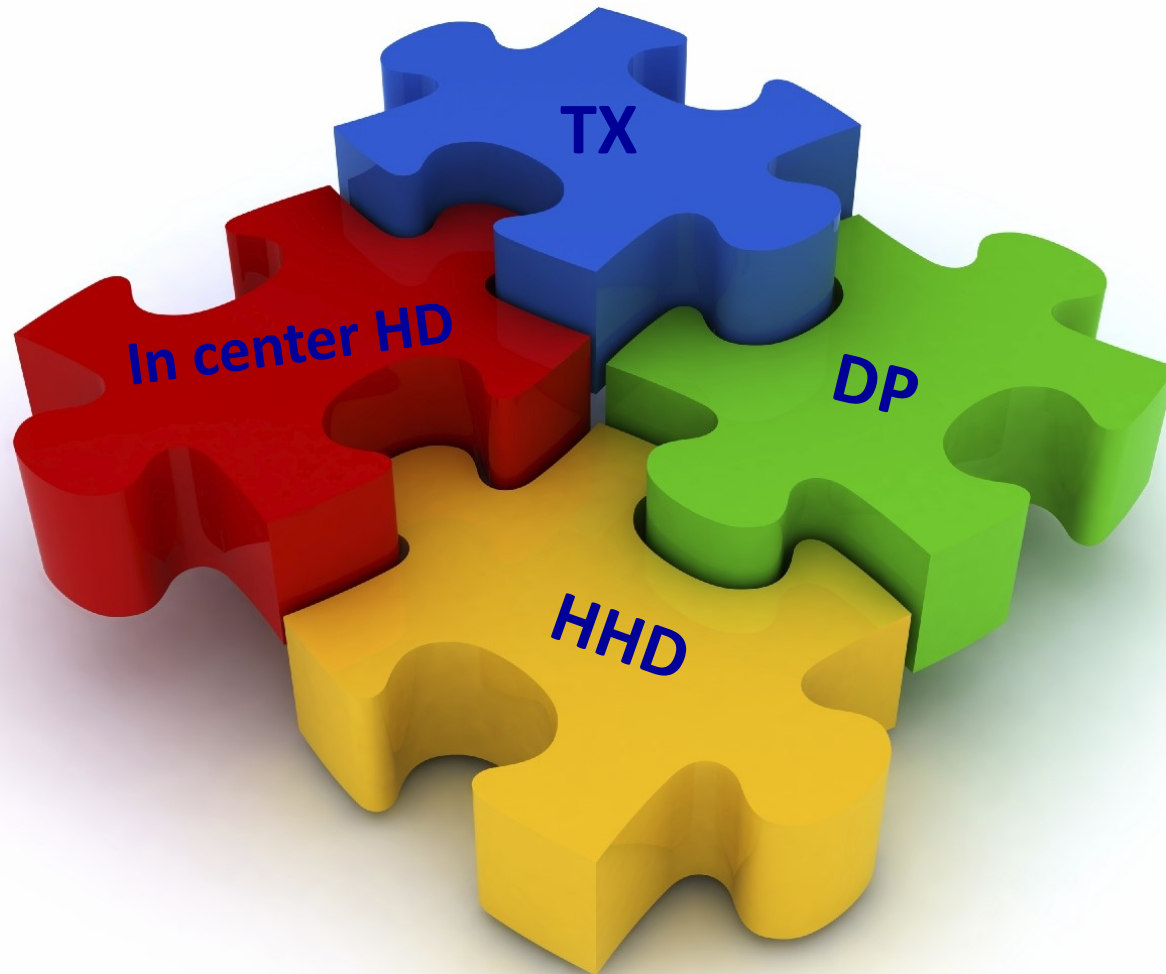
Trajectory before HHD initiation stratified by PD exposure



Primary outcome: Cumulative patient and technique survival. A: Unadjusted Kaplan-Meier curve, B: Cox proportional curve. Other variables in model include: age, renal replacement therapy vintage, Charlson comorbidity index, diabetic nephropathy as etiology of end-stage renal disease.

**Conclusion:** Despite a higher burden of comorbidity, patients with previous PD exposure had similar cumulative patient and technique survival on HHD compared to those without PD exposure. Whenever possible, HHD should be considered in PD patients in need of a new dialysis modality.

# ESRD Therapy tailored to the patient's requirements



# Dialisi Domiciliare

## Quali sono le criticità



**Paziente - correlate**



**Operatori sanitari - correlate**



**Istituzioni - correlate**

# Dialisi Domiciliare

## Quali sono le criticità



**Paziente - correlate**

## Invecchiamento della popolazione generale

**Oltre il 50% degli incidenti ha un'età superiore ai 70 anni e il 25% dell'intera popolazione dialitica necessita di assistenza (familiare, partner, care giver)**



# **Freedom and Confinement: Patients' Experiences of Life with Home Haemodialysis**

**C. Vestman,<sup>1</sup> M. Hasselroth,<sup>1</sup> and M. Berglund<sup>2</sup>**

<sup>1</sup>*Department of Dialysis, Skaraborgs Hospital, 541 85 Skövde, Sweden*

<sup>2</sup>*School of Health and Learning, University of Skövde, Box 408, 541 28 Skövde, Sweden*

Correspondence should be addressed to M. Berglund; mia.berglund@his.se

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Patients with chronic end stage renal disease need dialysis to survive; however, they also need a treatment that suits their life situation. It is important that healthcare providers provide reliable, up-to-date information about different dialysis treatment options. Since home haemodialysis is a relatively new treatment, it is necessary to gather more knowledge about what the treatment entails from the patient's perspective. The aim of this study was to describe patients' experiences of having home haemodialysis. To gain access to the patients' experiences, they were asked to write narratives, which describe both their good and bad experiences of life with the treatment. The narratives were analysed with a qualitative method. The results of this analysis are subdivided into five themes: freedom to be at home and control their own treatment, feeling of being alone with the responsibility, changes in the home environment, need for support, and security and well-being with home haemodialysis. The conclusion is that home haemodialysis provides a certain level of freedom, but the freedom is limited as the treatment itself is restrictive. In order to improve patients' experiences with home haemodialysis, more research based on patients' experiences is needed and it is necessary to involve the patients in the development of the care.

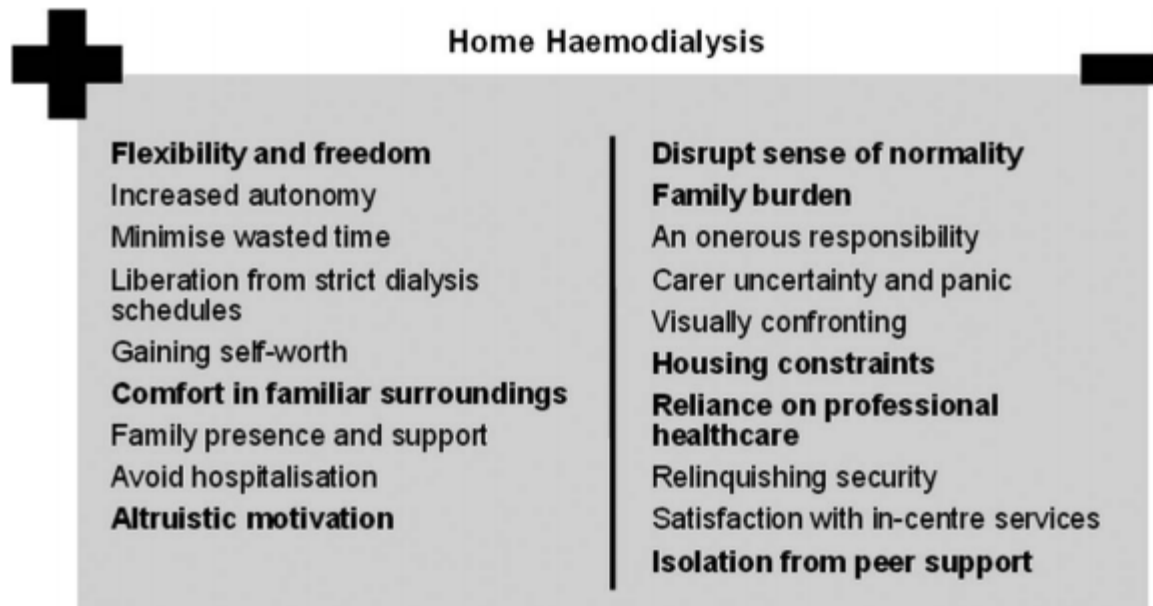
# The beliefs and expectations of patients and caregivers about home haemodialysis: an interview study

Allison Tong,<sup>1,2</sup> Suetonia Palmer,<sup>3</sup> Braden Manns,<sup>4</sup> Jonathan C Craig,<sup>1,2</sup> Marinella Ruospo,<sup>5</sup> Letizia Gargano,<sup>5</sup> David W Johnson,<sup>6</sup> Jörgen Hegbrant,<sup>7</sup> Måns Olsson,<sup>8</sup> Steven Fishbane,<sup>9</sup> Giovanni F M Strippoli<sup>2,10,11,12</sup>

**Objectives:** To explore the beliefs and expectations of patients and their caregivers about home haemodialysis in Italy where the prevalence of home haemodialysis is low.

**Design:** Semistructured, qualitative interview study with purposive sampling and thematic analysis.

**Setting:** Four dialysis centres in Italy without home haemodialysis services (Bari, Marsala, Nissoria and Taranto).



# Dialisi Domiciliare

## Quali sono le criticità



### Paziente - correlate

## Invecchiamento della popolazione generale

Oltre il 50% degli incidenti ha un'età superiore ai 70 anni e il 25% dell'intera popolazione dialitica necessita di assistenza (familiare, partner, care giver)

## Assunzione di responsabilità

Incapacità di gestire a casa un evento catastrofico, i timori e le difficoltà di auto-incannulazione

## Pericolo del confinamento al domicilio

Richiesta di supporto (teleassistenza in remoto, assistenza domiciliare)

## Aspetti psicologici

Rifiuto delle cure ospedaliere

# Strategies and recommendations to promote the acceptability of home haemodialysis among patients and family caregivers

Strategy	Action plan
Education	<ul style="list-style-type: none"> <li>▶ Discussions about treatment options for end-stage kidney disease that include home haemodialysis should be tailored to the existing haemodialysis experiences of patients and their families</li> <li>▶ Meet other patients on home dialysis therapies (haemodialysis, nocturnal haemodialysis and peritoneal dialysis) to listen to their experiences</li> </ul>
Minimise intrusiveness of home haemodialysis	<ul style="list-style-type: none"> <li>▶ Use home haemodialysis machines that are less conspicuous (small sized and portable) and require minimal home modifications</li> <li>▶ Promote awareness about home haemodialysis machines that are smaller and easy to operate</li> <li>▶ Provide practical tips on minimising the visibility of home haemodialysis within the home</li> </ul>
Provide support and respite for caregivers and family members	<ul style="list-style-type: none"> <li>▶ Increase awareness of home haemodialysis equipment that require minimal or no caregiver assistance</li> <li>▶ Identify and implement a forum for patients and families/caregivers to discuss experiences and decisions (online/physical)</li> <li>▶ Appoint a dedicated mental health worker in the clinical team</li> <li>▶ Ensure access to social work services (caregiver respite and allowance)</li> <li>▶ Network with caregiver or consumer organisations and identify respite and support services for caregivers and families</li> </ul>
Maintain patient access to medical and technical support	<ul style="list-style-type: none"> <li>▶ Offer home visits as determined on an individual, need-by-need basis</li> <li>▶ Provide 24 h availability (eg, hotline) of clinical and technical staff</li> </ul>
Minimise social isolation	<ul style="list-style-type: none"> <li>▶ Organise forums or social events for patients and caregivers (eg, face-to-face, telephone and web-based contact)</li> <li>▶ Consider set up of community homes for haemodialysis</li> </ul>
Promote self-efficacy	<ul style="list-style-type: none"> <li>▶ Use home haemodialysis machines that are intuitive and simple to configure, programme and disconnect</li> <li>▶ Provide comprehensive and timely home haemodialysis education and training (eg, individual training, forums, question and answer sessions and print and multimedia resources)</li> <li>▶ Encourage the importance and benefits of independence and self-care</li> <li>▶ Recruit home haemodialysis 'patient exemplars'</li> <li>▶ Facilitate opportunities to learn from patients who are successfully performing home haemodialysis</li> </ul>

# Determinants of training and technique failure in home hemodialysis

## Characteristics of patients who initiated home hemodialysis training

Characteristic	Failure (n = 32)	Success (n = 145)	P value
Demographics			
Age, (years $\pm$ SD)	51 $\pm$ 14	45 $\pm$ 14	0.04
Male, n (%)	20 (63)	89 (61)	1.00
Caucasian race, n (%)	14 (44)	84 (58)	0.17
Number of training days, median (IQR)	45 (25–71)	58 (43,78)	0.06
Comorbidities			
<u>Diabetic end-stage renal disease, n (%)</u>	14 (43)	19 (13)	<0.001
<u>Prior renal transplant, n (%)</u>	6 (19)	38 (26)	0.50
<u>Diabetes (comorbid illness), n (%)</u>	17 (53)	36 (25)	0.003
<u>Coronary artery disease, n (%)</u>	11 (34)	17 (12)	0.005
<u>Congestive heart failure, n (%)</u>	8 (25)	12 (8)	0.01
<u>Charlson comorbidity index, (median, IQR)</u>	4, 3–6	3, 2–4	0.005

# Dialisi Domiciliare

## Quali sono le criticità



Paziente - correlate



Operatori sanitari - correlate

Culturali



Organizzative

*Special Feature*

## The best dialysis therapy? Results from an international survey among nephrology professionals

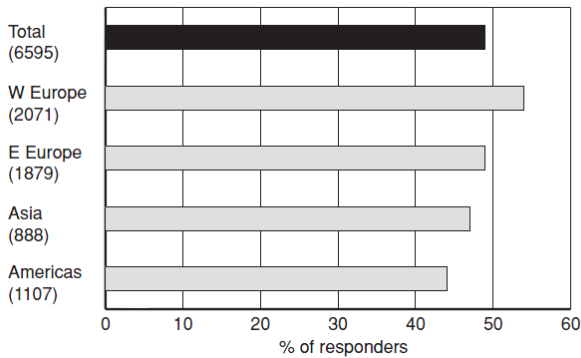
Ingrid Ledebø<sup>1</sup> and Claudio Ronco<sup>2</sup>

<sup>1</sup>Gambro R&D, Lund, Sweden and <sup>2</sup>San Bartolo Hospital, Vicenza, Italy

Congress	<i>n</i>	Physicians (%)	Nurses (%)
WCN	1029	78	7
ERA-EDTA	2041	78	3
EuRoPD	772	74	19
EDTNA-ERCA	1634	3	82
ASN	795	78	3
Other	324	35	65
<b>Total</b>	<b>6595</b>	<b>57</b>	<b>28</b>

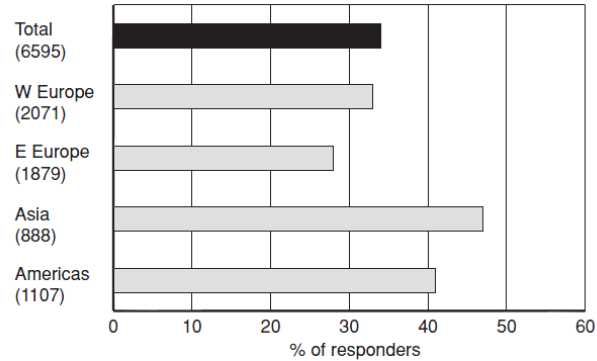
# The Best Dialysis Therapy?

## Best initial dialysis treatment



**Capd/APD**

## Best long-term dialysis treatment



**Home/self-care HD/HDF  
>3 times/week**

Self-care is preferred by

**56%**

of renal professionals.



# Dialisi Domiciliare

## Quali sono le criticità



Paziente - correlate



Operatori sanitari - correlate



L'avvio di un servizio di dialisi domiciliare richiede un investimento in "start up" con impegno in organizzazione, competenze e formazione, che non sempre le strutture sono disponibili o capaci ad attuare, forse per una "**estrema standardizzazione**" dell'offerta dialitica ospedaliera.

# Dialisi Domiciliare

## Quali sono le criticità



Paziente - correlate



Operatori sanitari - correlate



Istituzioni - correlate

# “Mission” delle Istituzioni Sanitarie nazionali e regionali

Qualità delle cure

Appropriatezza delle prestazioni

Sostenibilità della spesa

Il paziente adeguatamente informato (tempi e modalità) sulle varie modalità dialitiche, nel 20-30% dei casi opterebbe per il trattamento dialitico domiciliare (DP e HHD).

Le Istituzioni sanitarie devono garantire forme alternative all'assistenza ospedaliera

# “Mission” delle Istituzioni Sanitarie nazionali e regionali

Qualità delle cure

Appropriatezza delle prestazioni

Sostenibilità della spesa

**Dialisi Domiciliare**

**Autogestita**  
(sussidi)

**Assistita**  
(RSA, ADI)

# Anziani assistiti a domicilio in Europa

Nazione	anziani assistiti a domicilio	
	anno	%
Danimarca	2000	24,6
Islanda	2000	18,9
Norvegia	2000	15,7
Olanda	1996	12,0
Svizzera	1992	12,0
Finlandia	2000	10,7
Germania	1996	9,6
Svezia	2000	8,2
Francia	1998	7,9
Regno Unito	1999	7,1
Belgio	1996	4,5
Irlanda	1996	3,5
Austria	1991	3,0
Italia	1999	3,0*
Spagna	1999	1,8
Portogallo	1992	1,0
Grecia	1998	0,3

# Assistenza domiciliare e residenziale agli anziani in Europa

ELEVATO		INTERMEDIO		BASSO	
DOMICILIARE 10%+	RESIDENZIALE 6%+	DOMICILIARE 3,1% -10%	RESIDENZIALE 3,1% -6%	DOMICILIARE 0% -3%	RESIDENZIALE 0% -3%
	Norvegia	Germania	Germania	Grecia	Grecia
	Olanda		Regno Unito	Portogallo	Portogallo
Svizzera	Svizzera	Irlanda	Irlanda	Italia	Italia
	Finlandia		Austria	Spagna	
	Islanda		Danimarca	Austria	
	Belgio	Belgio	Spagna		
	Lussemburgo				
	Svezia				
	Francia				

# “Mission” delle Istituzioni Sanitarie nazionali e regionali

Qualità delle cure

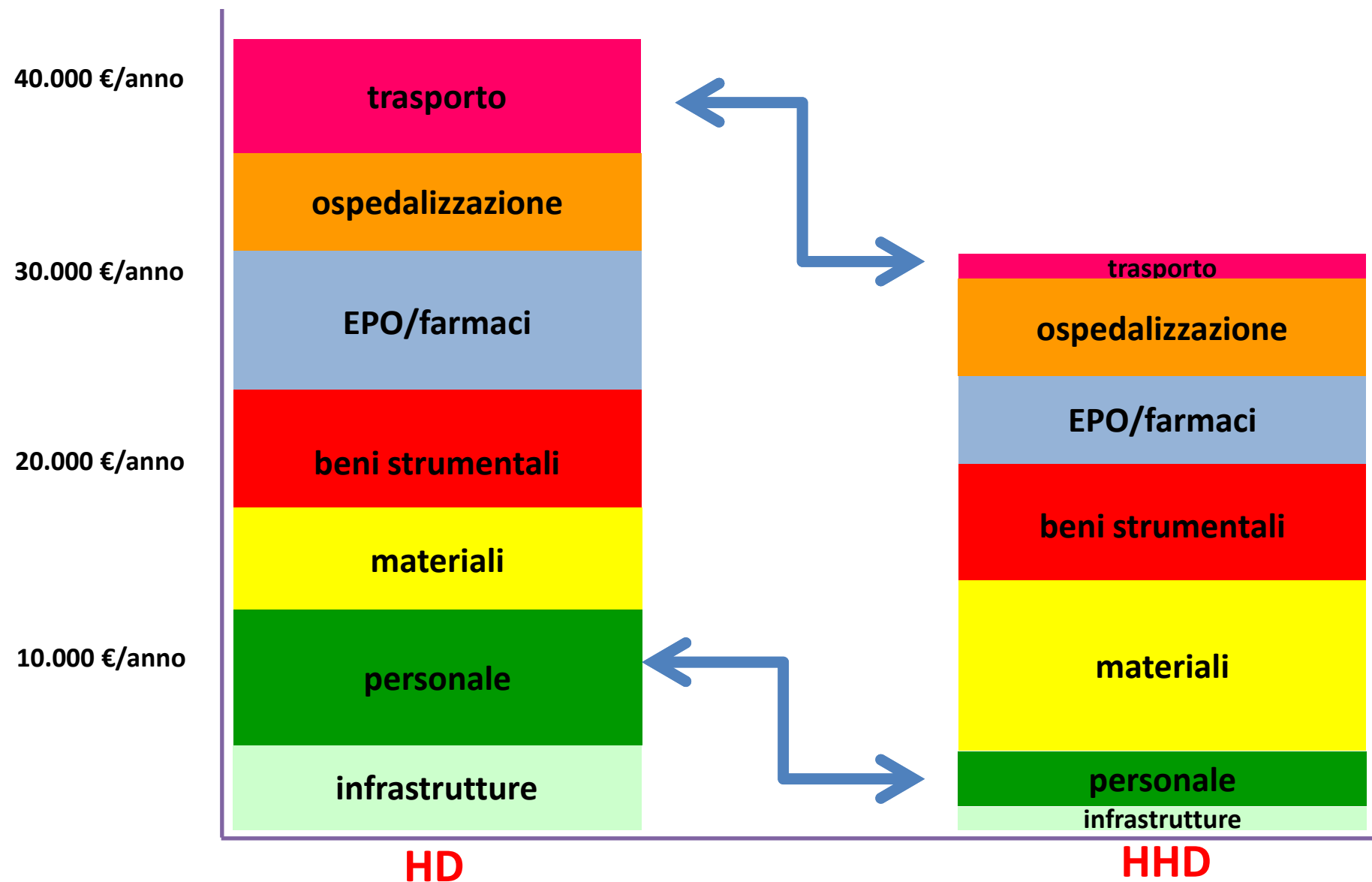
Appropriatezza delle prestazioni

Sostenibilità della spesa



	Codice	Costo economico per anno/paz.	Trasporto per anno/paz.	Costo totale per anno/paz.
Emodialisi Ospedaliera	39.95.4 e 39.95.5	36.250,35 €	6.000,00 € (n. 156/anno)	<b>42.250,35 €</b>
Emodialisi Domiciliare	39.95.3	29.000,00 €	461,00 € (n. 12/anno)	<b>29.461,00 €</b>
CAPD e APD	54.98.2 e 54.98.1	28.769,30 €	461,00 € (n. 12/anno)	<b>29.230,30</b>

# Il costo globale della terapia





# Ed allora?

## La letteratura scientifica e le conoscenze attuali consentono di affermare che:

- ✓ L'emodialisi domiciliare è un'opzione efficace e fattibile.
- ✓ Quando effettuata come "daily dialysis" i risultati sono migliori di quelli della dialisi "convenzionale" e peggiori di quelli della dialisi "convenzionale" in ospedale.
- ✓ Non nuoce alla qualità di vita dei pazienti e non è più costosa delle terapie sanitarie dedicate alla gestione dei pazienti con dialisi domiciliari (DP ed HD).
- ✓ L'emodialisi domiciliare è una metodica con buone potenzialità di diffusione in quanto presenta aspetti clinici, logistici ed economici favorevoli.
- ✓ Analogamente alla PD, la scelta non è solo basata sull'efficacia ma deve tener conto anche delle esigenze non cliniche dei pazienti.

The EU Commission need to  
investigate these issues to  
decide if regulation is required

It's time to provide accurate, tailored and  
timely information about treatment options  
to the patient: asks us our ethical duty as well  
as the patients themselves

*Mark Murphy*  
*Vice President*  
*Ceapir*  
*markmurphy@ika.ie*



# Evolution of concept: “Information and education of patient ”

## Shared Decision Making

### Informed consent plus Informed Choice plus:

- Identify patients needs, values, preferences and goals
- Discuss uncertainties of treatment, experience of provider
- Two-way conversation with patient/family having role

## Informed choice

### Informed consent plus:

- Assess patient understanding
- Discuss risks and benefits of all alternatives
- Ask patient/family to choose

## Informed Consent

- Nature of treatment
- Risks
- Benefits
- Alternatives
- Opportunity for questions

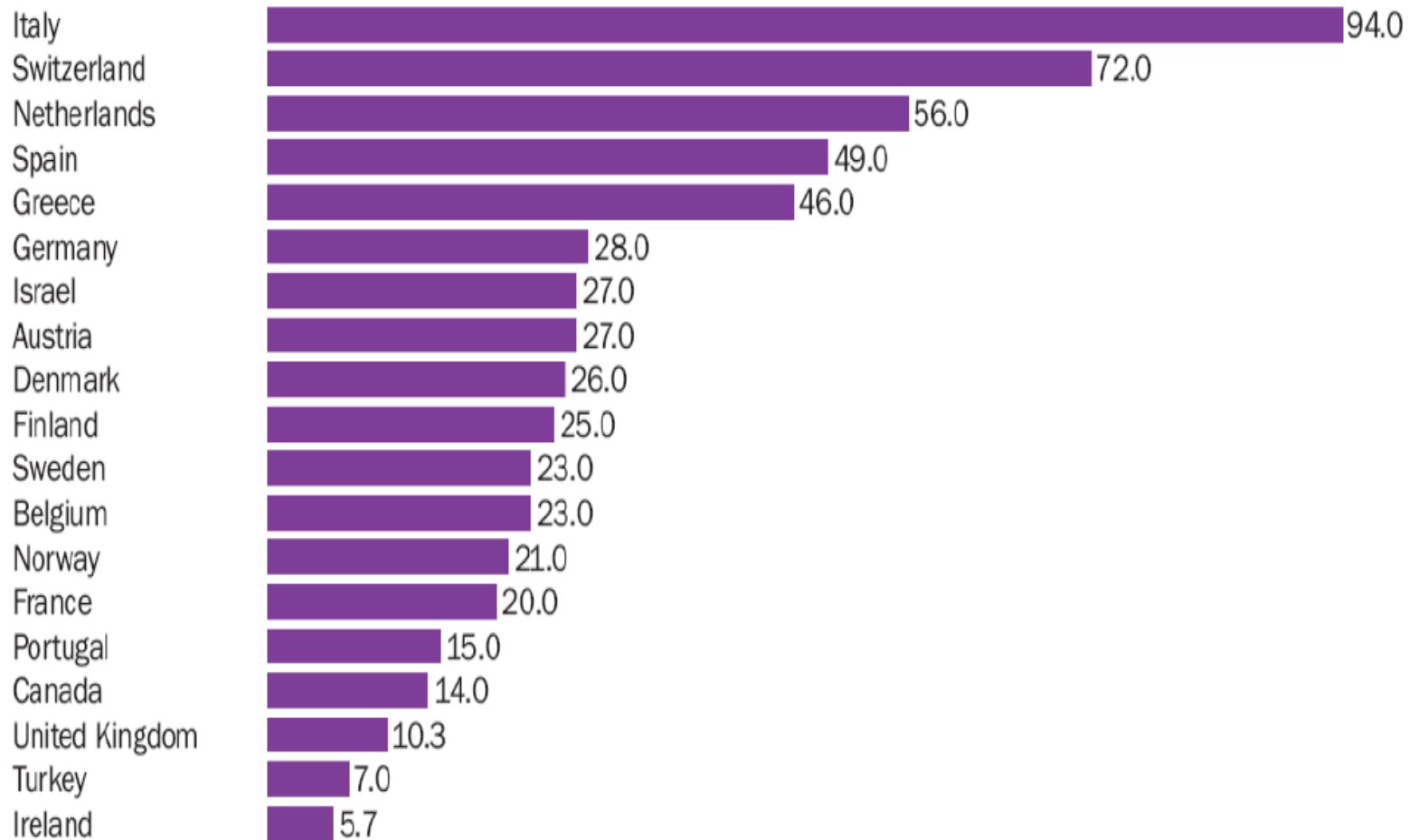
**E' necessario passare da scelte  
"physician-based" a quelle "patient-oriented"  
in cui il ruolo degli operatori sanitari  
(medici ed infermieri) deve cambiare perché:**

- ✓ non c'è scelta senza informazione
- ✓ non c'è informazione senza offerta
- ✓ non c'è offerta senza innovazione

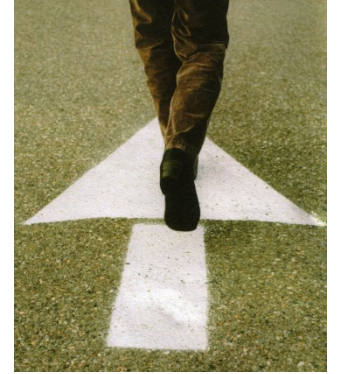


# e non è solo un problema di numeri.....

Figure 3.13 Workforce: nephrologists supply, by country (per 1000 ESRD population)

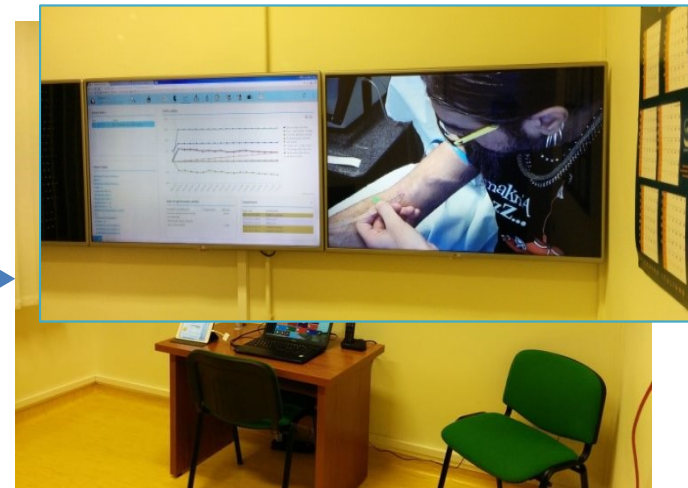


# Home Hemodialysis Resource Map

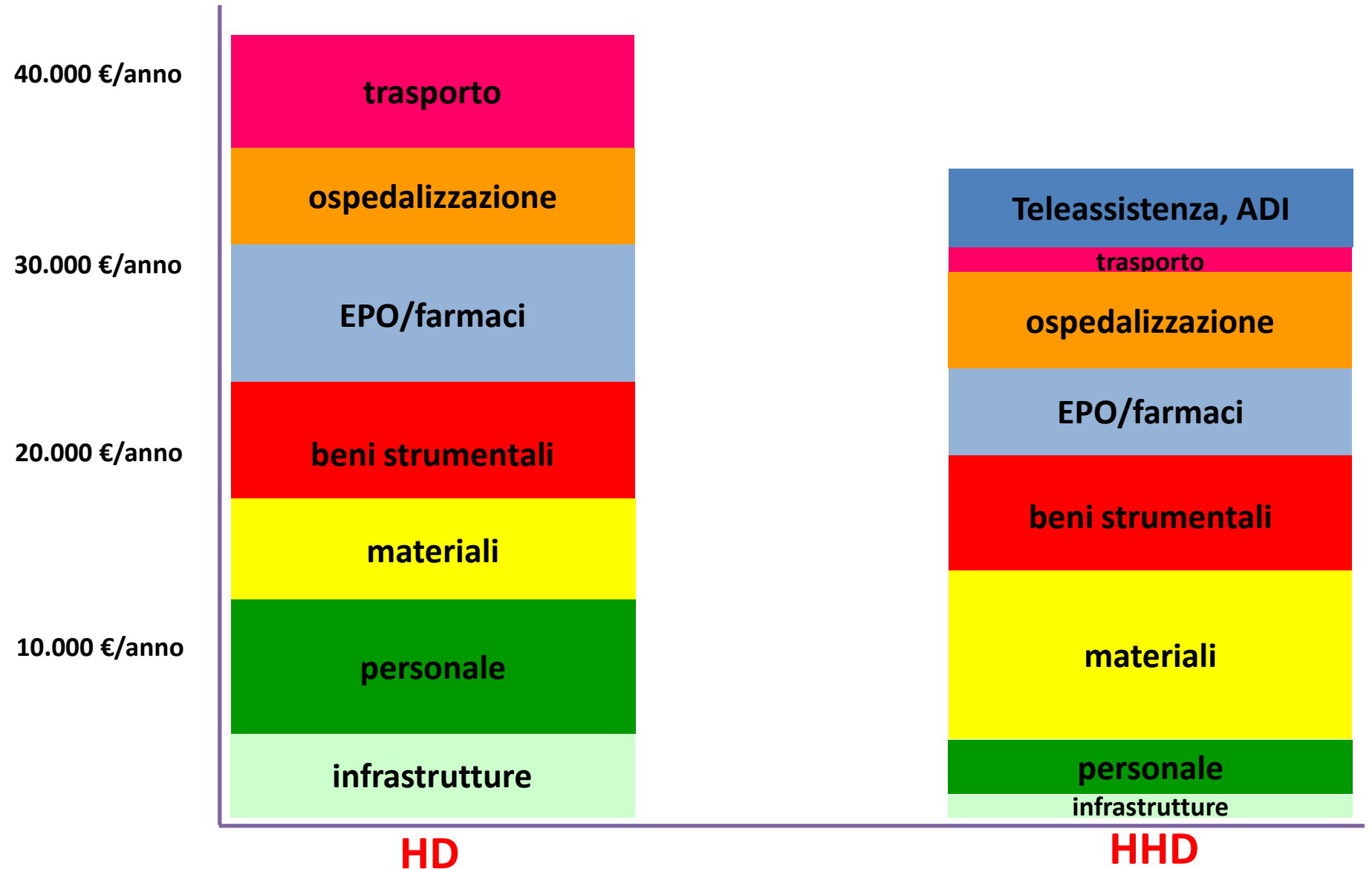




- Videocamera
- Point of care testing
- Monitor Dialisi
- Contapassi
- Sensore ambientale
- Bilancia
- Sfigmomanometro
- Glucometro
- Ossimetro
- Termometro
- Elettrocardiografo

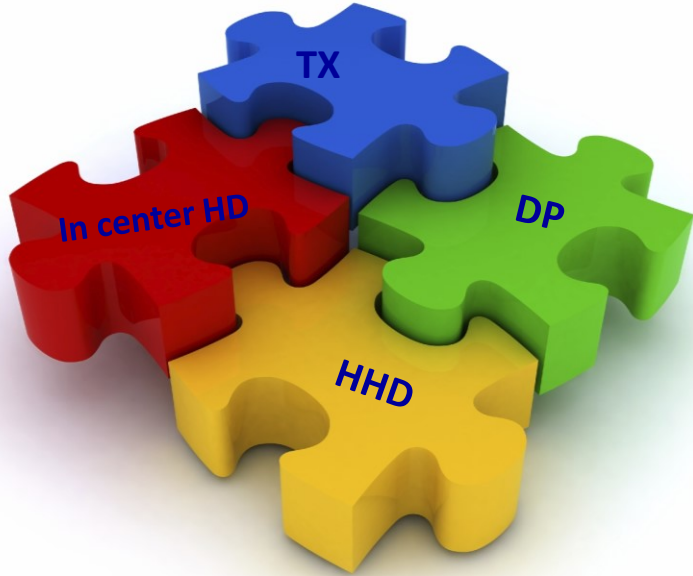


# Il costo globale della terapia





# *Emodialisi domiciliare*

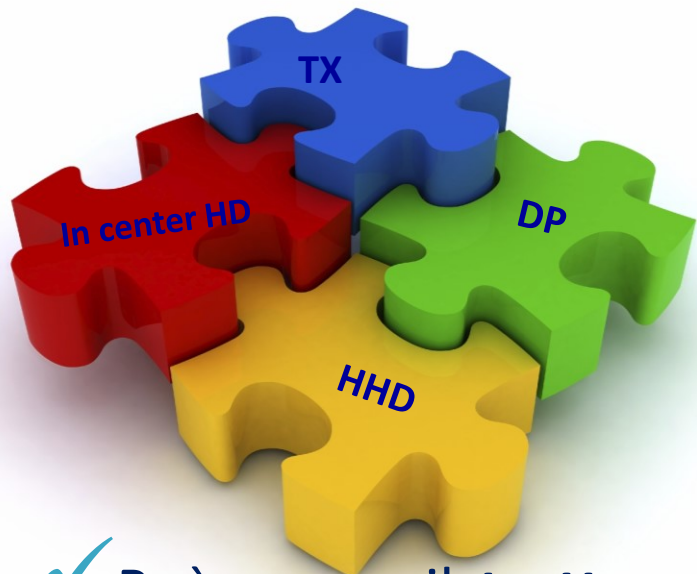


✓ *La deospedalizzazione della dialisi* (di cui l'HHD è una delle espressioni) è **una sfida** che si può e si deve perseguire con un lavoro di squadra che deve coinvolgere operatori sanitari ed istituzioni per superare tutte le criticità e offrire ai pazienti tutte le possibili opzioni terapeutiche.

✓ Per ottenere tali risultati occorre **attuare uno sforzo culturale ed avviare percorsi educazionali ed informativi** per il personale sanitario che deve conoscere ed affrontare le difficoltà organizzative che le nuove opportunità terapeutiche presentano.

**Quando** sarà superato questo ostacolo, **la risposta alla domanda “quando e a chi proporla”, diventa semplice ed intuitiva.**

# *Emodialisi domiciliare*



- ✓ Può essere ***proposta in qualsiasi momento del trattamento dell'ESRD soprattutto nelle fasi iniziali*** in quanto, al pari della DP, prolunga la funzione renale residua e previene le complicanze cardiache da sovraccarico.
- ✓ Può essere il ***trattamento di scelta per i pazienti già in DP*** che, per esaurimento della tecnica, vogliono continuare a gestire il trattamento dialitico al domicilio.
- ✓ Può essere proposta a ***tutti i pazienti emodinamicamente stabili, con bassi indici di comorbidità e con un caregiver disponibile.***
- ✓ Può inoltre essere proposta a ***pazienti non trasportabili, con controindicazioni assolute alla DP, con o senza caregiver*** per i quali si possa attivare l'assistenza infermieristica territoriale (ADI).
- ✓ In tutti i casi la ***teleassistenza con piattaforme informatizzate*** (SH 2.0) potrà contribuire a gestire l'HHD in sicurezza e sostenibilità.

# GRAZIE!



IF YOU WANT TO GO FAST, GO ALONE.  
IF YOU WANT TO GO FAR, GO TOGETHER.

- AFRICAN PROVERB