



...bring patients home

A photograph of an elderly man with white hair, wearing a patterned sweater, sitting on a couch and reading a book to a young boy. The boy is also sitting on the couch, looking up at the man. In the background, a woman with white hair is standing and holding a mug, smiling. The scene is set in a bright, modern living room.

A novel connection device for PD patients to allow more Elderly to be treated with PD

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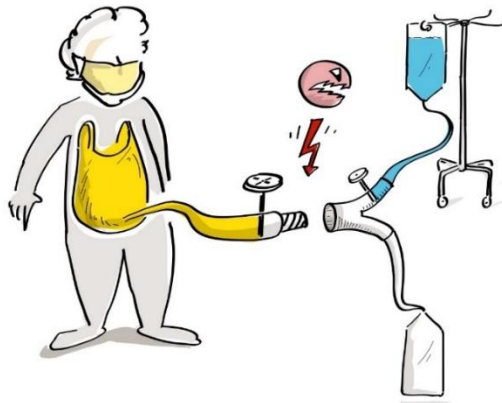
Dialysis patients are increasingly older and more co-morbid - PD is difficult for those patients



The PeriSafe® System addresses infection risk and standardizes the therapy handling

The problem: infection risk

Manual connection is a major barrier to home dialysis



complex handling

hard to perform for elderly and handicapped patients



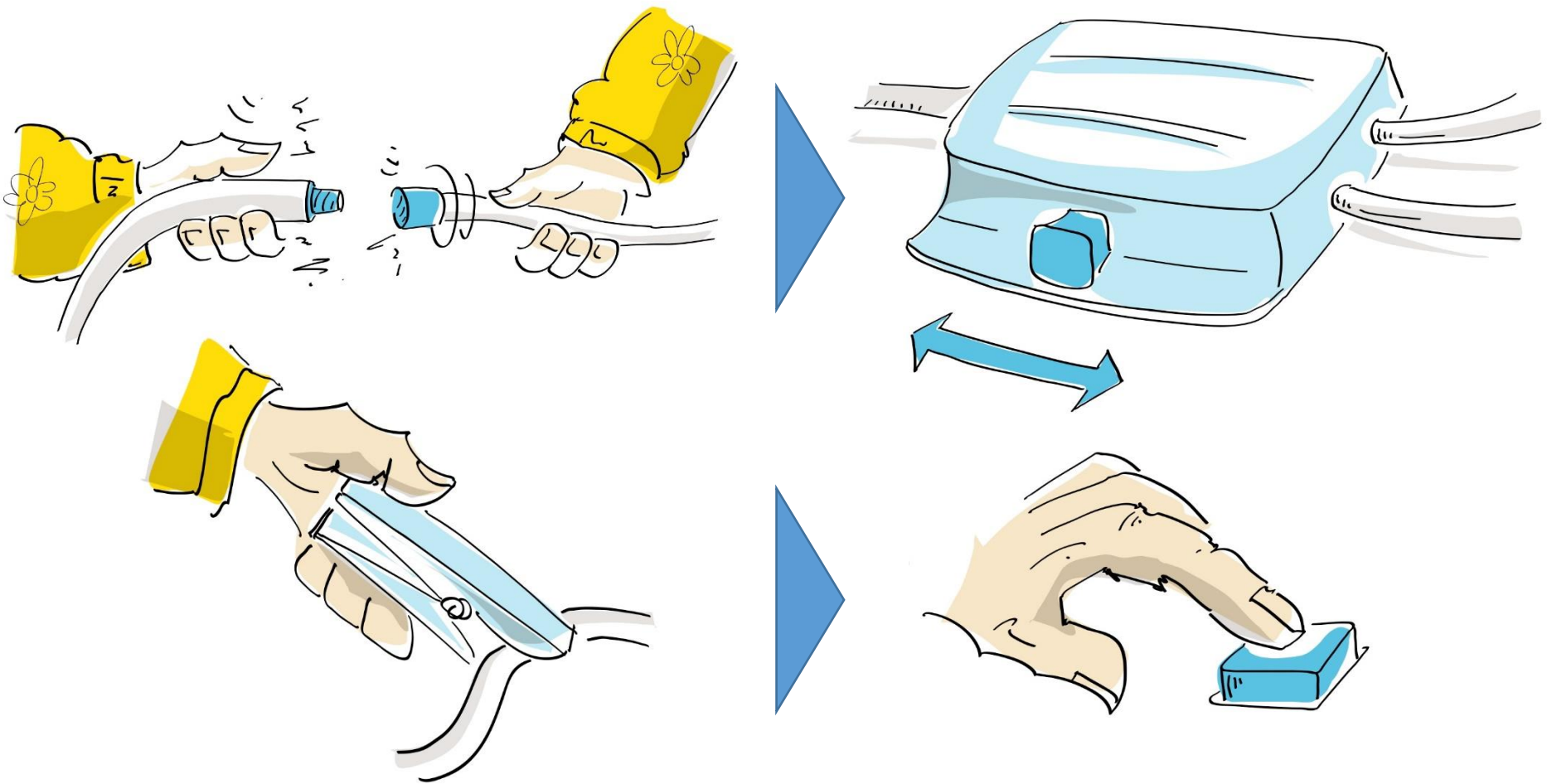
The solution: Catheter is never open outside secluded device area :

All steps exposed to an infection risk, are performed inside of the Peripal device

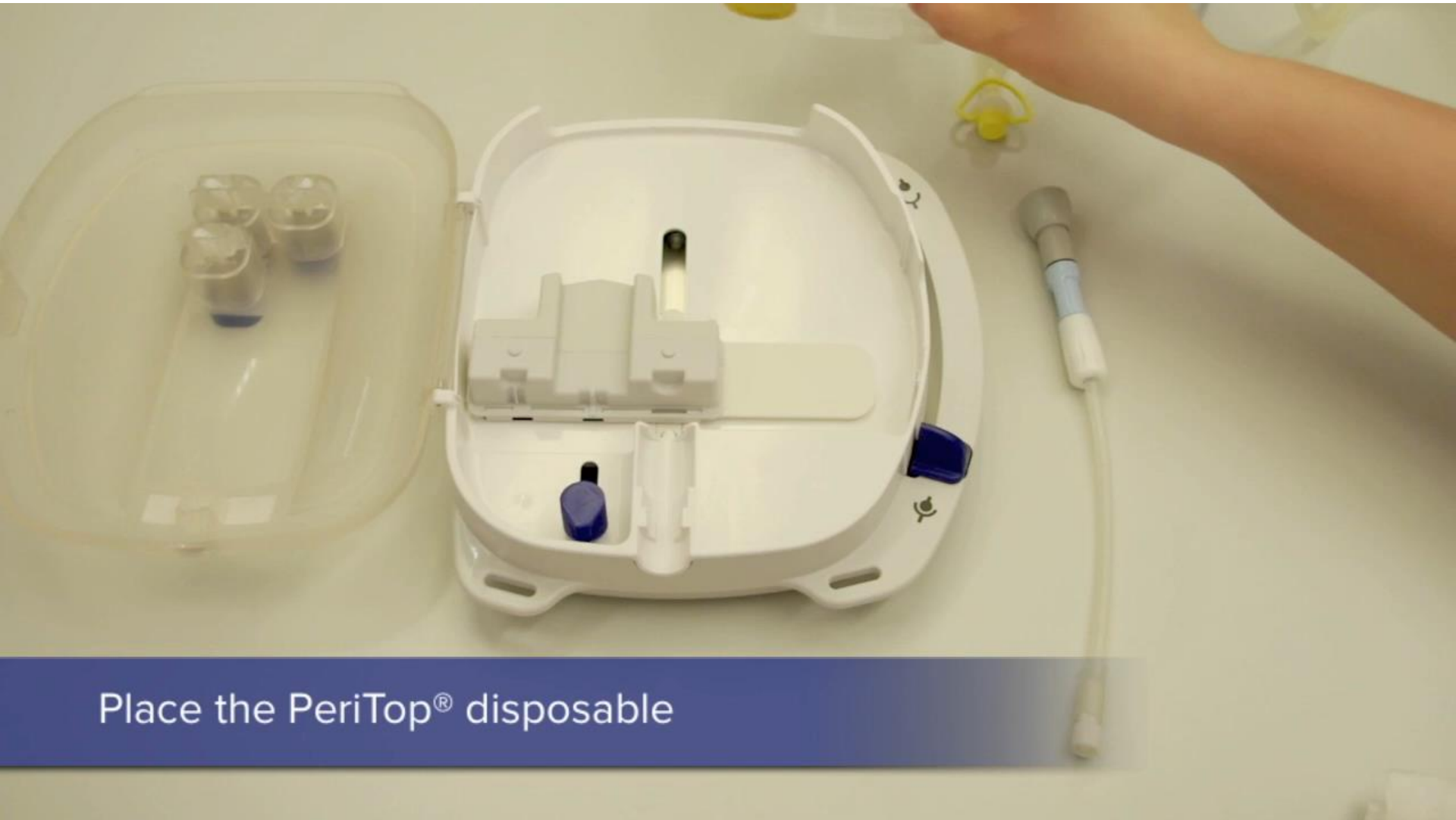
Handling is standardized and forces patient into sequence:

Easy to use. No conventional clamps needed. Flushing and clamping by pushing a button

With PeriSafe®[®], the catheter is never exposed to the environment - therapy is simpler and safer



The PeriSafe® System @work



Place the PeriTop® disposable

Key benefits of the PeriSafe® System

1: Ease of use and ease of mind

2: Reduce early drop-off

3: Increase PD penetration

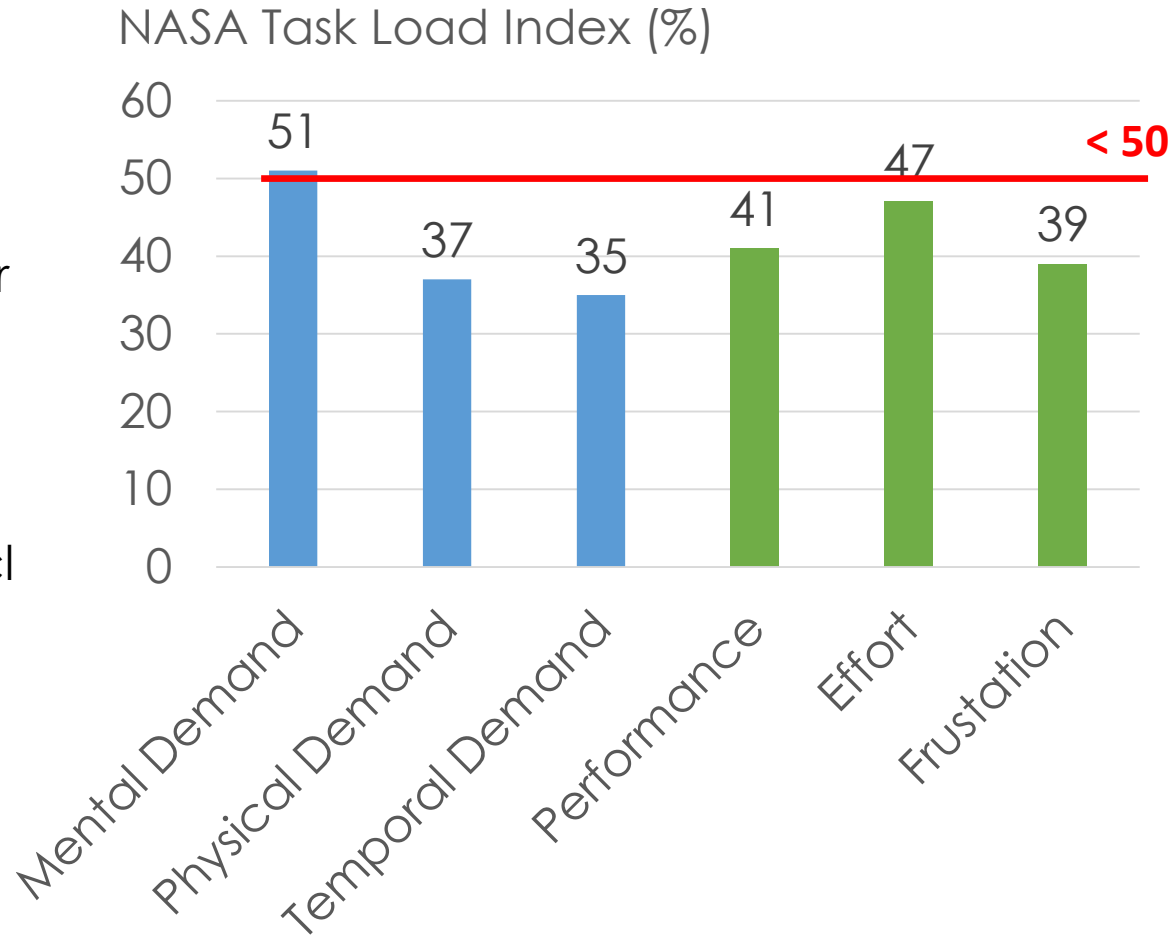
4: Better protect from infections

5: Enable assisted care models / relief caregiver burden

6: Standardizes training and decreases patient training time

Easy and safe handling was confirmed in human factor study with 48 patients at QEB Hospital UK

- **NASA TLX: subjective Assessment**, u.a. used in medical tests, cited in over 5400 publications
- **90 Minutes Training** on the device, followed by 1h of break and then the test incl NASA TLX



Designed through the eyes of the patient: Eye tracking was used to validate product design

**VALIDATED WITH MORE
THAN 80 PATIENTS**

Collaborations with University Hospitals Zurich, AKH (Allgemeines Krankenhaus) Vienna, QEB (Queen Elizabeth Hospital) Birmingham



Bring Patients Home: PeriSafe® makes PD possible also for elderly people and people with disabilities



THANK YOU

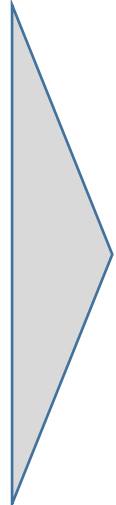


BACKUP

Surveys confirm the need for new approaches to make home dialysis feasible for the elderly

Age median at dialysis start: 71 years
Every 5th dialysis patient > 80 years
Age median for PD start: 61 years
Percentage of >75-years old from PD: 6%

Total Patients [1]	6974	100%
Living on their own	2039	30%
Assisted by family members	1696	24%
Assisted home care nurses	793	11%
Living in elderly homes	430	6%
No responses	2016	29%



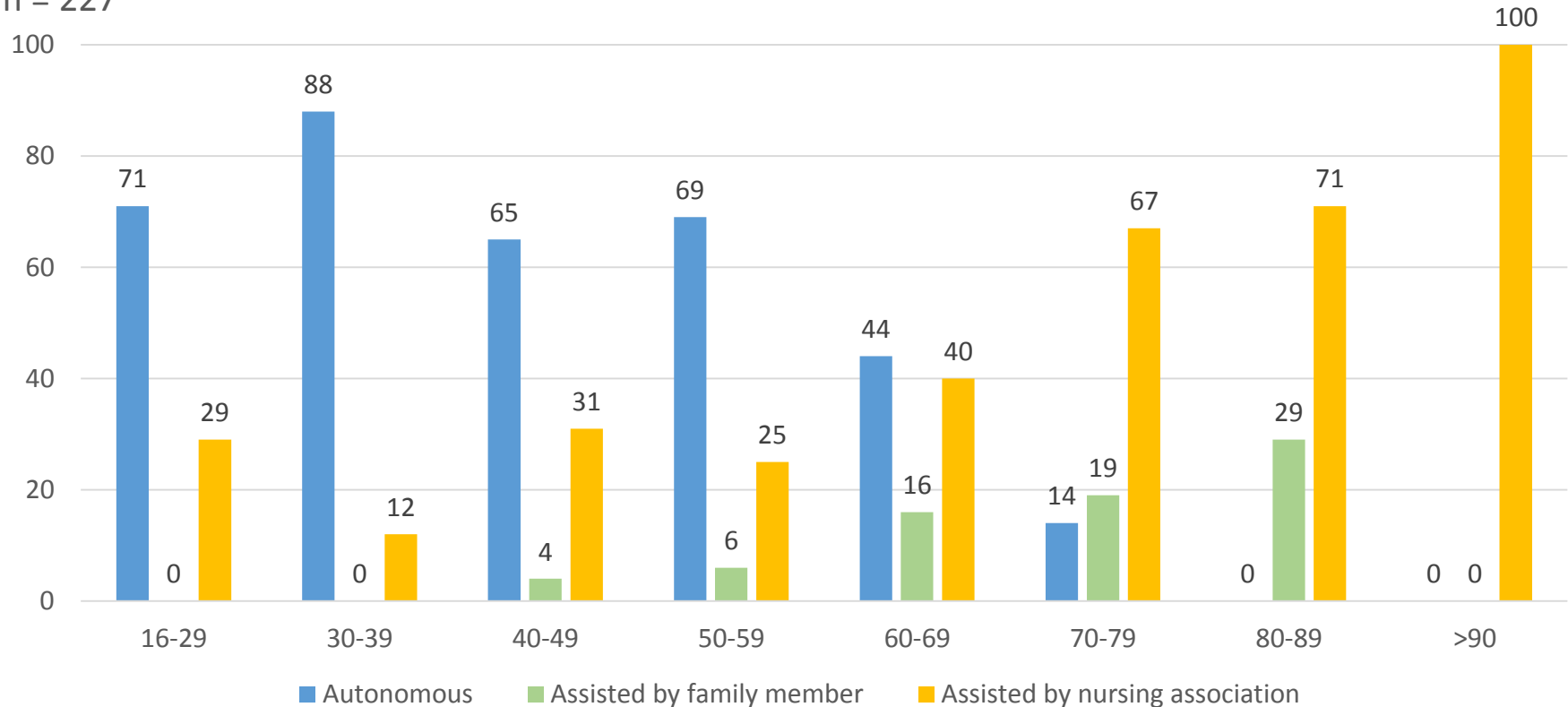
- Patients are growing older and more multimorbid
- At least 41% of all patients of KFH are receiving assistance in some form

[1] KFH Heimdialysekongress 2018, Prof. W. Pommer, Berlin, Sozialbefragung KFH 2014, Sozialdaten von Dialysepatienten in Deutschland

In France, assisted care increases with majority of patients >70 on assisted home care

Autonomy of PD patients in France by age group [1]

n = 227



[1] RDPLF Organization, French Registry Annual Report 2016, Profiles, Autonomy of patients and amount of patients with assisted PD

Registry is planned to monitor efficiency and application of the PeriSafe® System



Parameters to be evaluated:

- Degree of safety and relief of therapy burden (subjective)
- Prevention of early therapy discontinuation
- Patients who otherwise would not be eligible for PD
- Better protection from infections
- Enabling of assisted PD or simplified assistance from family members
- Reduced patient / caregiver training times through more standardized approach

What Patients, Doctors, and Nurses say about PeriSafe® is in line with key messages at PD congresses

As a homecare nurse, this device brings a lot of benefit, because I can shorten the time at the patient from 40min to 10min. The patient can finalize drain – flush – fill himself or herself.

PD Nurse for assisted care, France

I like the simplicity, I think it will help us in making the training of homecare / community nurses simpler.

Nephrologist, UK

I would have needed the Peripal System when I started the therapy, because I had to cope with a tough diagnosis, a demanding job, a young family, and the PD therapy. I would have used the Peripal System to start and then phase it out when feeling more at ease with the therapy.

PD patient, Switzerland

I recently had to shift an elderly lady from PD to HD. She was very unhappy about it, but her gradually progressing arthritis did not allow to keep her at home. A fact that the Peripal System would have changed.

Nephrologist, Germany

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PeriSafe® System