



Homeward bound

Achieving more home care in PD

*'True Partnership and Global Approach
in Management of Renal Care'*

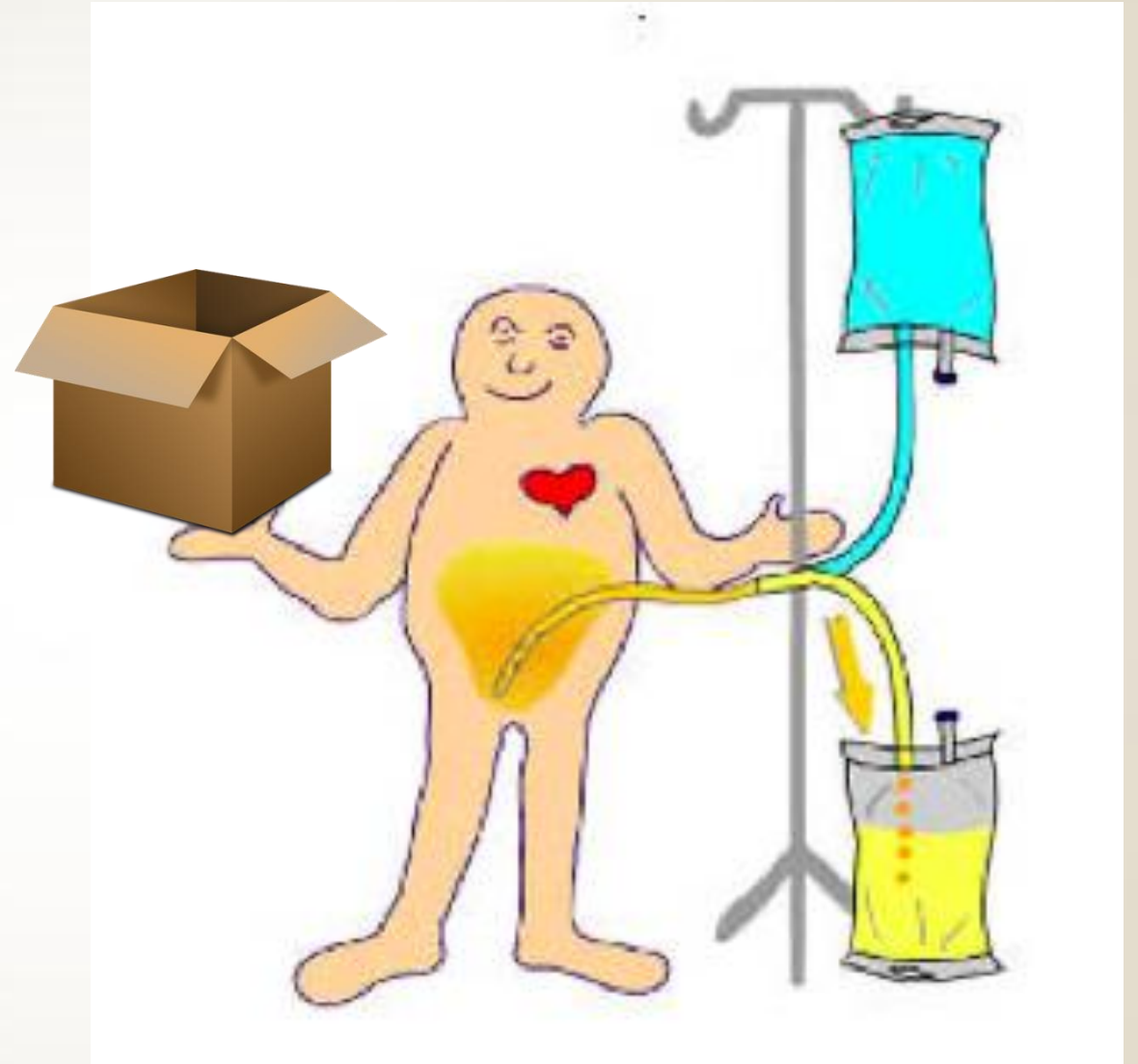




No disclosures

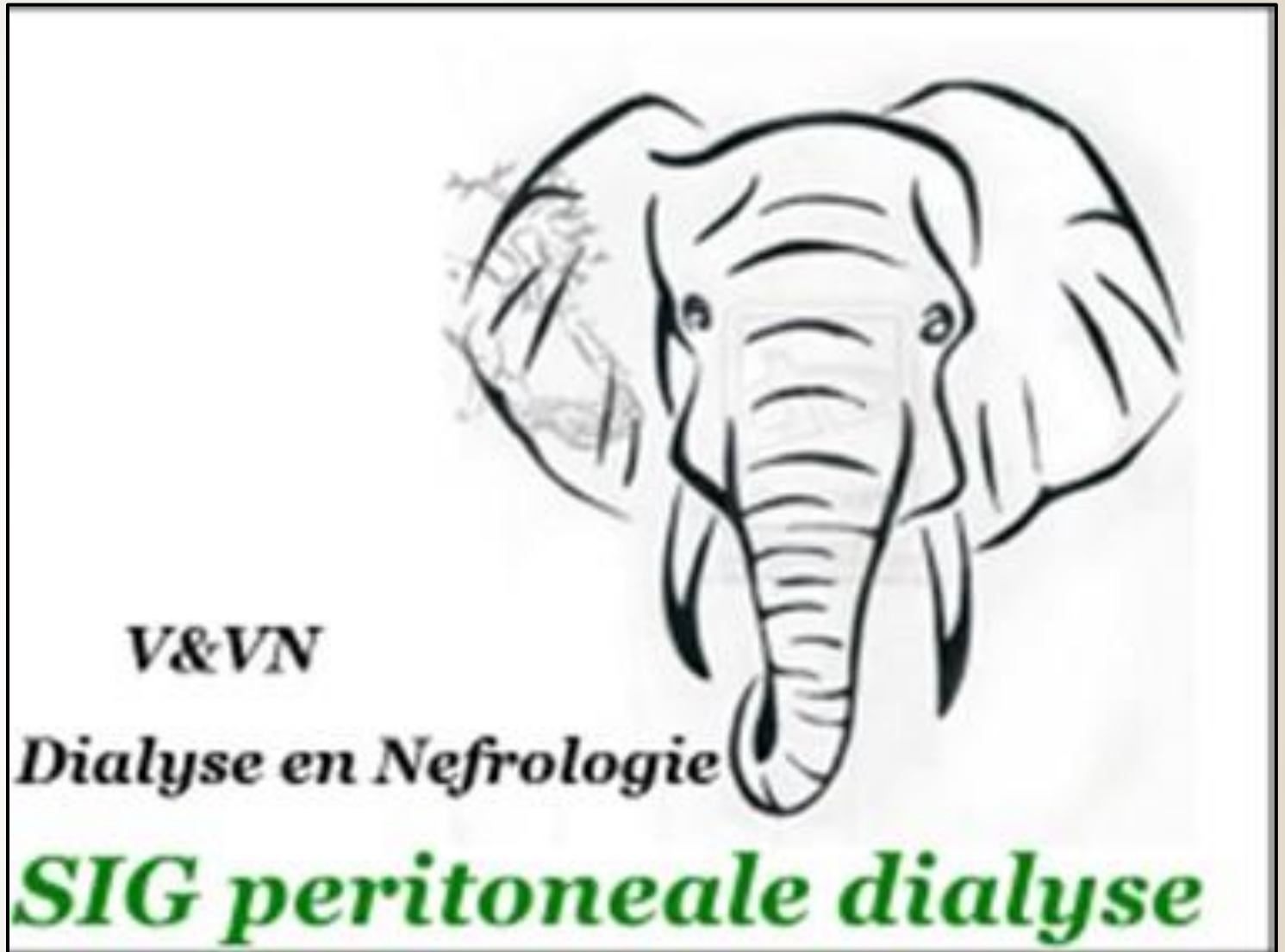
Presenting:

- Role of the SIG PD
- Situation in the Netherlands
- Why to stimulate PD
- Manual training and education
- Other influences
- Take home message



Sig PD

- *Special interest group for peritoneal dialysis*
- *Dutch Association for nurses and caretakers (V&VN), section dialysis and nephrology*



The Netherlands

Numbers in 2016:

860 patients PD at home

279 patients HD at home

5313 patients in-centre HD

10.275 patients functional transplant kidney

(www.nefrovisie.nl)

So when improving the home dialysis numbers, PD should be more stimulated.

Peritoneal dialysis, using the peritoneum as a replacement kidney, is as we know an equal dialysis modality compared to haemodialysis.

Lyasere, O.U. et al, 2015. Quality of Life and Physical Function in Older Patients on Dialysis: A Comparison of Assisted Peritoneal Dialysis with Haemodialysis. Clinical journal of the American society of nephrology,

Difference between the countries

- Developed countries: PD decreases and hemodialysis numbers raise
 - Developing countries: PD numbers increase
- the simplicity of the treatment and variability in costs

Jain et al, 2012. Global trends in rates of peritoneal dialysis. J Am Soc Nephrol. 2012 Mar;23(3):533-44.

Education

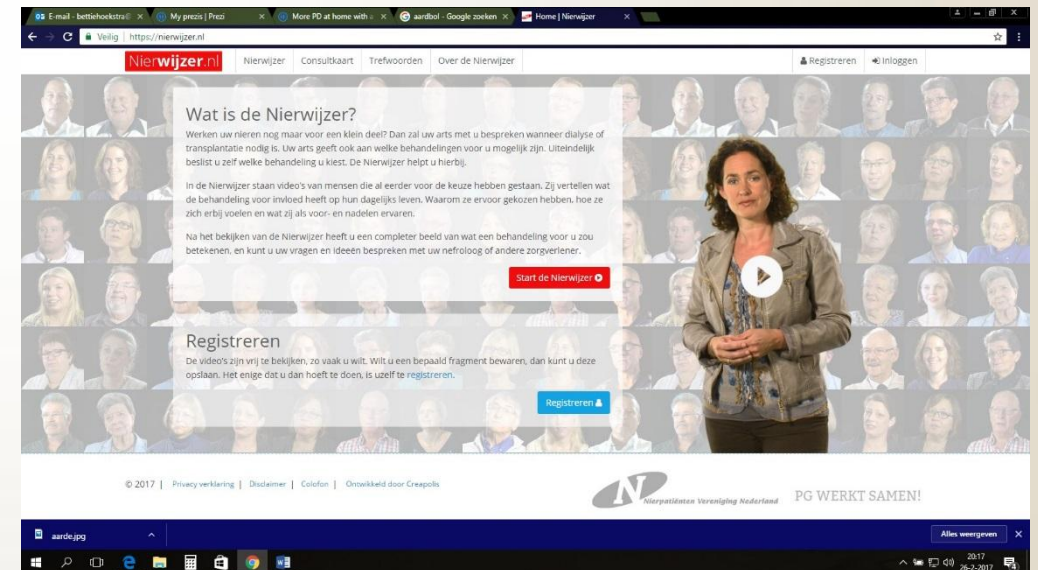
- A solid predialysis education program in which patient and care taker can sign up for the best, not always the cheapest dialysis modality (Govaerts, 2005, Hall, 2004)

Expanding care at home

- Training of new patients at home (Bordin, 2002)
- Assisted PD with home care nurses (Oliver et al, 2007, Lobbedez, 2009)
- Setting up home teams in dialysis centers
- Home visits (ISPD, 2005)
- Retraining at home (ISPD, 2012)
- Medical check-ups at home

E-health

- New PD machines sent data (Baxter)
- Communication with patients through secured pathways with I-pads or phone
- Improving kidney information processes within the pre dialysis fase using websites: patient organization, kidney organization and Nierwijzer
- (www.nierwijzer.nl / www.nvn.nl / www.nierstichting.nl)



Changes through time

- Patients were younger, more active and self supportive
- Earlier start of dialysis
- Older people are eligible for PD
- Home care nurses attribute safety
- More comorbidity.



Assisted PD

- Dialysis nurses, community nurses, care takers or relatives
- Special homes as nursing homes or rehabilitation centres
- **More care in the home situation of the patient**
- **Instruction and teaching of peritoneal dialysis to nurses AND patients AND caretakers.**

E.g. France, Danmark, UK (Lobbedez, Brown)

Manual Training and Education SIG PD

- Learning theory's
- Practice based evidence for training and education
- Directions for nurses and patients
- *Base of PD is self-care or self-management.*

Handleiding
Training en Educatie
van de peritoneale dialysepatiënt

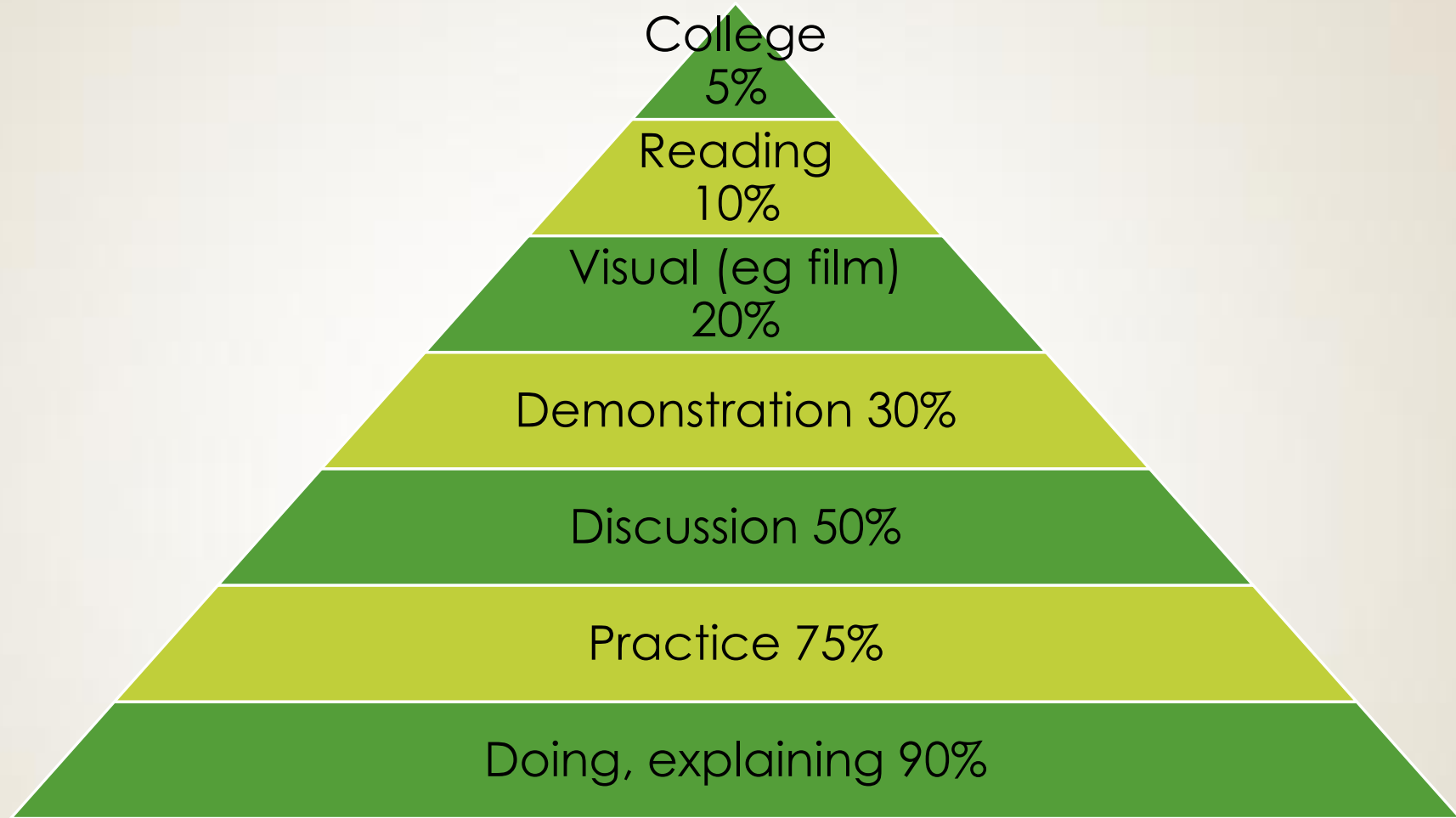


Leren het leven anders in te richten

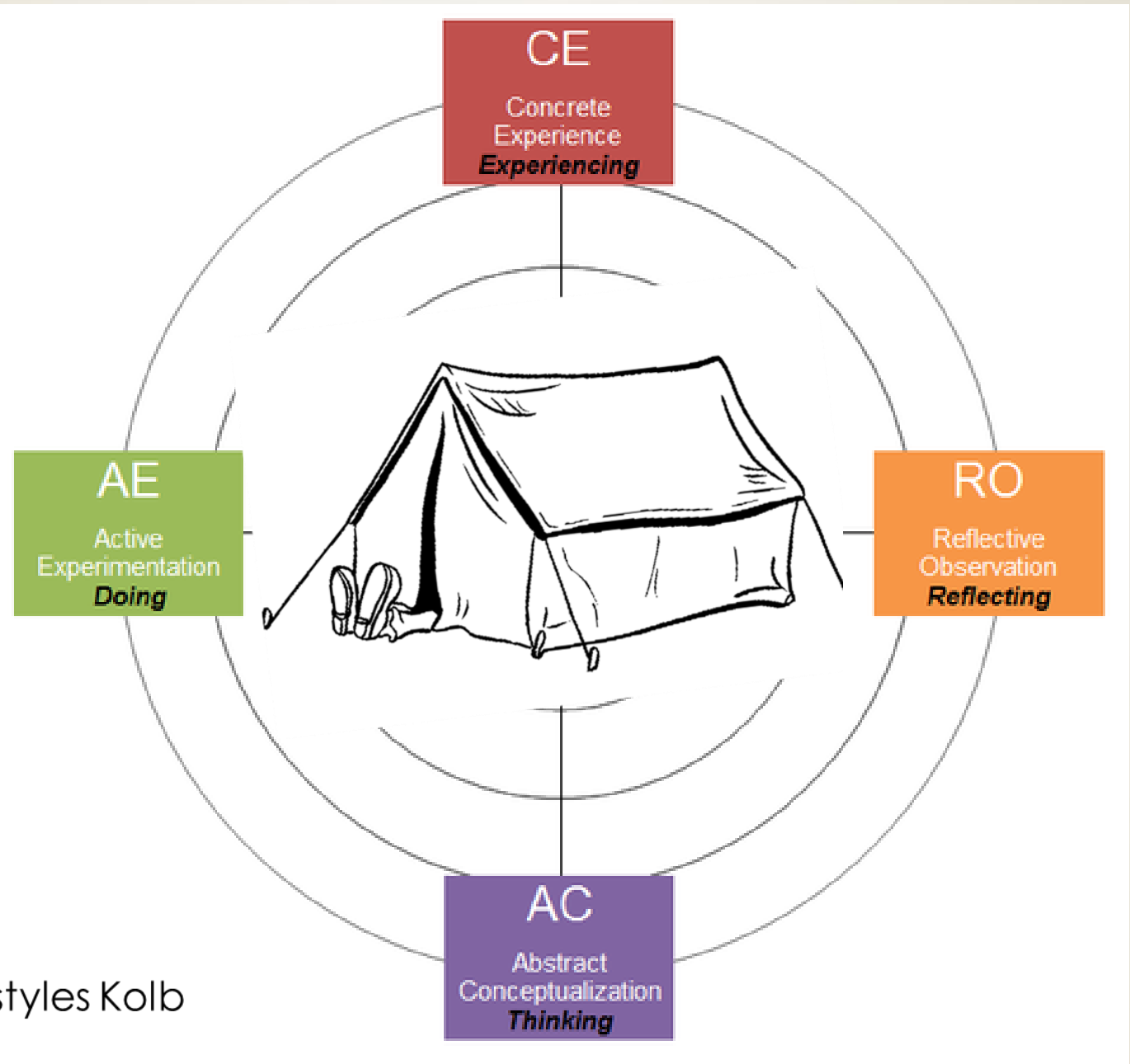
O'Shea adult learning; Kolb learning styles; ten Brink learning steps.
ISPD Guidelines/Recommendations, Bernardini 2006 and 2011.
Hall G. et al 2004. New directions in peritoneal dialysis patient training.
Utley & Prowant, 2000. Organization of a peritoneal dialysis program - the nurses 'role'.

Suggestion for an education program

- Setting goals
- Planning practice
- Repeat
- Evaluate
- Test the information
- Check learning style: reflecting, doing, thinking and experiencing
- Training and retraining of the nurse/trainer



Learning pyramid Bales (1996)

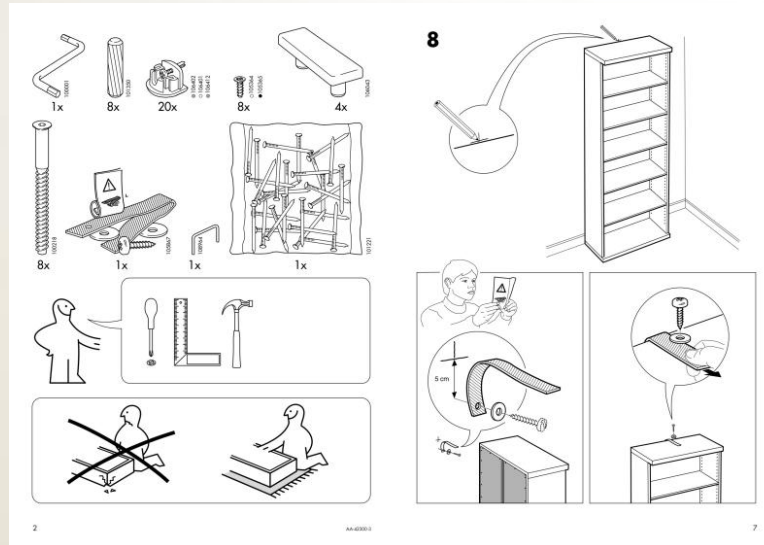


Learning styles Kolb

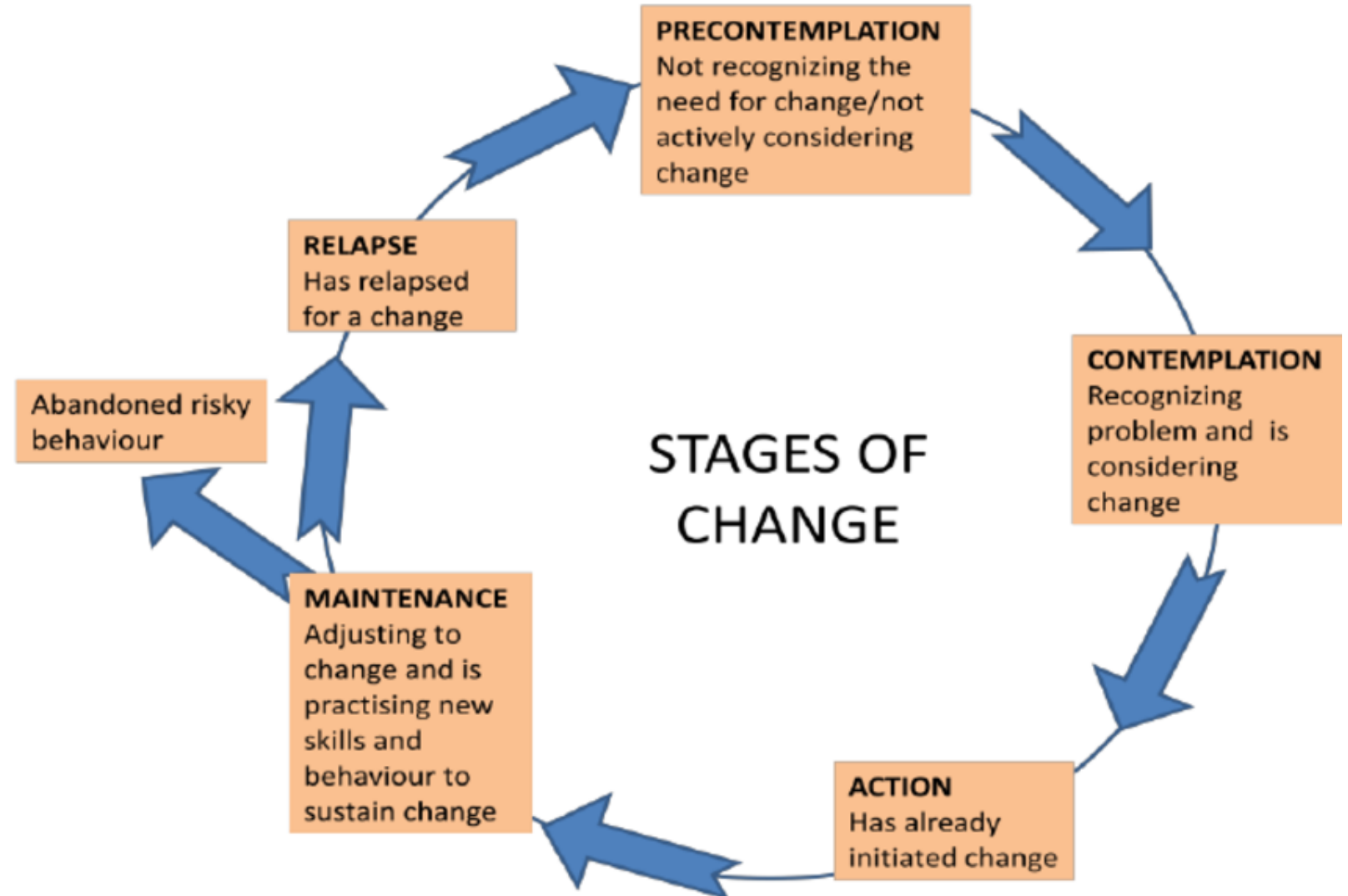
IKEA



Trying.....



Or reading the manual first.....



- Important issues for training (Bernardini, 2006)
- Learning tools (Bernardini, 2006; Hall, 2004)
- Training before or at start of treatment.
- Duration depends on learning curve of patient or caretaker.
- Incenter or home training. (Bordin et al, 2002)
- Training of home nurses, own mobile team.





More PD care at home takes more personnel
More personnel is expensive.....

Reimbursement of assisted PD differs throughout Europe.

- National health care organization
- Budget and disparities in cost of living, nurses salaries
- Special fundings

(Dratwa, 2008)

Allowing dependent patients to have home dialysis / PD will still be less expensive than treating them with in-centre haemodialysis.

Take home message

Good training is needed for quality in care.
More care can be placed outside the hospital walls.
Good economics is needed.
Let us work together.

More PD at home with a team effort in training of patient and caretaker.



Literature

- ▶ Aydede, S.K .et al. 2014. Chronic kidney disease and support provided by home care services: a systematic review. *BMC Nephrol.* 2014; 15: 118.
- ▶ Bernardini J. Price V, Figueiredo A. *ISPD Guidelines/Recommendations. Peritoneal Dialysis Patient Training, 2006.* Perit Dial Int 2006;26(5);625-632
- ▶ Bordin et al, 2002 / Martino et al, 2014. *Home Visit Program Improves Technique Survival in Peritoneal Dialysis.* Blood Purif 2014;37:286–290
- ▶ Dratwa, M., 2008. *Costs of home assistance for peritoneal dialysis: results of a European survey.* Kidney Int Suppl. 2008 Apr;(108):S72-5.
- ▶ EDTNA/ERCA, 2010, *Peritoneal dialysis, a guide to clinical practice.* p 56-67
- ▶ EDTNA/ERCA, 2012, *PD and elderly,* p 75-85
- ▶ Govaerts, Jadoul and Goffin, 2005. *Influence of a Pre-Dialysis Education Programme (PDEP) on the mode of renal replacement therapy.* Nephrol Dial Transplant (2005) 20: 1842–1847
- ▶ Hall G., Bogan A., Dreis S., Duffy A., Greene S., Kelly K. et al. *New directions in peritoneal dialysis patient training.* Nephrology Nursing Journal 2004; 31(2):149-154, 159-1963
- ▶ ISPD guidelines 2005, 2012
- ▶ Jain et al, 2012. *Global trends in rates of peritoneal dialysis.* J Am Soc Nephrol. 2012 Mar;23(3):533-44
- ▶ Lobbedez, T. 2005. *Assisted peritoneal dialysis. Experience in a french renal department.* Perit Dial Int November/December 2006 vol. 26 no. 6 671-676
- ▶ Lyasere, O.U. et al, 2015. *Quality of Life and Physical Function in Older Patients on Dialysis: A Comparison of Assisted Peritoneal Dialysis with Haemodialysis.* Clinical journal of the American society of nephrology, <http://cjasn.asnjournals.org/content/early/2015/12/27/CJN.01050115.full>
- ▶ Oliver et al, 2007. *Home care assistance and the utilization of peritoneal dialysis.* International Society of Nephrology
- ▶ SIG PD, V&VN, 2014. *Handleiding voor training en educatie van de peritoneale dialysepatiënt*
- ▶ Treharne et al, 2014. *Peritoneal Dialysis and In-Centre Haemodialysis: A Cost-Utility Analysis from a UK Payer Perspective.* Appl Health Econ Health Policy. 2014 Aug;12(4):409-20.
- ▶ Utley, L. & Prowant, B. 2000. *Organisation of a peritoneal dialysis programme – the nurses 'role.* Textbook of Peritoneal Dialysis, 363 – 386. Kluwer Academic Publishers.)



HoekstraB@maasstadziekenhuis.nl

Pdwerkgroep@gmail.com

<http://dialyse.venvn.nl/>



+31 10 2912400 or +31 6 20150287