

Nurses care time for patients undergoing haemodialysis: changes in characteristics over four years.

Ria de Kleijn, Department of Nephrology, UMCG, Groningen

Carin Uyl-de Groot, School of Health and Technology Erasmus University, Rotterdam

Chris Hagen, Dialyses Centre Meander Medisch Centre, Amersfoort

Jeannette Schraa, Dialysiscentre, Hospital St. Jansdal, Harderwijk

Casper Franssen, Department of Nephrology, UMCG Groningen

Pieterneel Pasker-de Jong, Meander Academy, Meander Medisch Centrum, Amersfoort

Piet ter Wee, Care Support and Department of Nephrology, Amsterdam UMC, Amsterdam

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Outline

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Articles

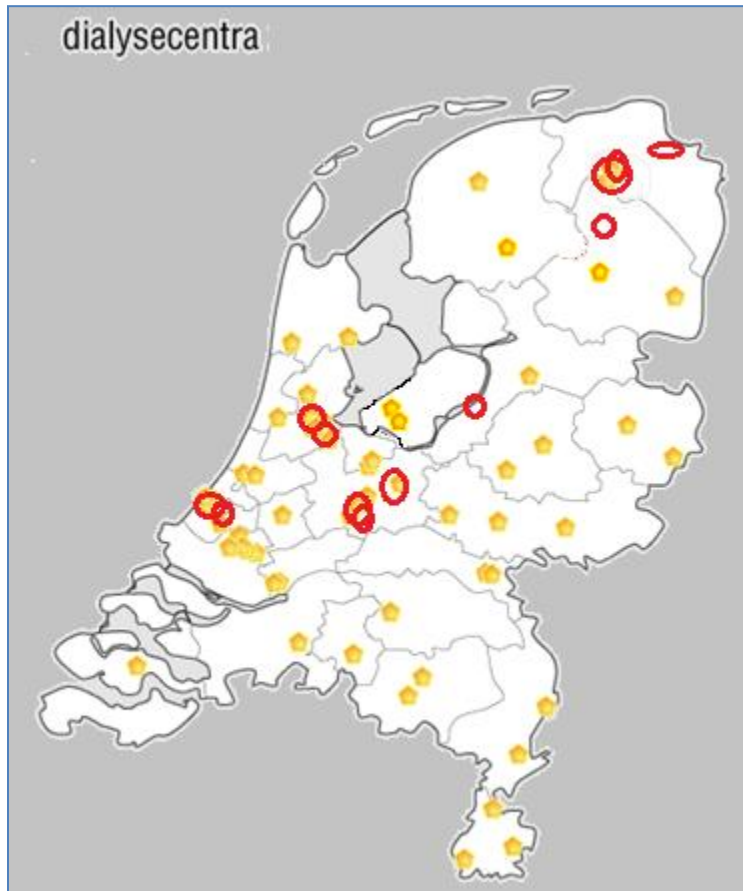
Published

- 2015 Kleijn de R., et al. **Prediction of care burden of patients undergoing haemodialysis: development of a measuring tool.** (Journal of Renal Care.)
- 2017 Kleijn de R., et al. **Differences in care burden of patients undergoing dialysis in different centres in the Netherlands.** (Journal of Renal Care.)

Research Question

- The aim of the study is to investigate whether the characteristics of a dialysis population have changed over time and if so whether these changes affect the average nursing care time needed per haemodialysis patient.

12 Dialysis centres



- 4 groups:
 - Dialyses centres in university medical centres
 - Centres in general hospitals,
 - Independent dialysis centres
 - Dialysis units without the continuous presence of physicians

Methods

- We selected patients at baseline, 1 year and 4 years.
- Subgroup 1 were incident haemodialysis patients.
- Subgroup 2 were 90 patients who were included in both baseline and 4-years follow-up measurement.

Patient characteristics

		Group All Patients		
		BL	BL+1	BL+4
Age	Mean years	64	64	67
	sd	15.3	15.9	14.9
	≥ 75	31.4%	32.5%	38.2%*
HD vintage	Mean	3.4	3.4	3.5
	sd	4.7	4.4	4.1
Previous Tx	Yes	9.7%	11.4% *	11.2%
Previous PD	Yes	14.5%	11.2%	8.2%
Number of comorbidities	Mean	1.7	1.6	2.1&
	sd	1.3	1.3	1.5

Tx = transplantation;

** $p \leq 0.05$ versus BL $p < 0.05$. & $p \leq 0.05$ versus BL+1*

Patient characteristics

		Incident Patients		
		BL	BL+1	BL+4
Age	Mean years	60	63*	65*
	sd	16.2	14.0	15.4
	≥ 75	19.6%	19.7%	38.3%*
HD vintage	Mean	0	0	0
	sd	0	0	0
Previous Tx	Yes	8.9%	3.3%*	3.4%*
Previous PD	Yes	23.2%	9.8%*	8.3%*
Number of comorbidities	Mean	1.8	1.5	2.0
	sd	1.4	1.3	1.6

Tx = transplantation;

** p≤0.05 versus BL p<0.05. & p≤0.05 versus BL+1*

Patient characteristics

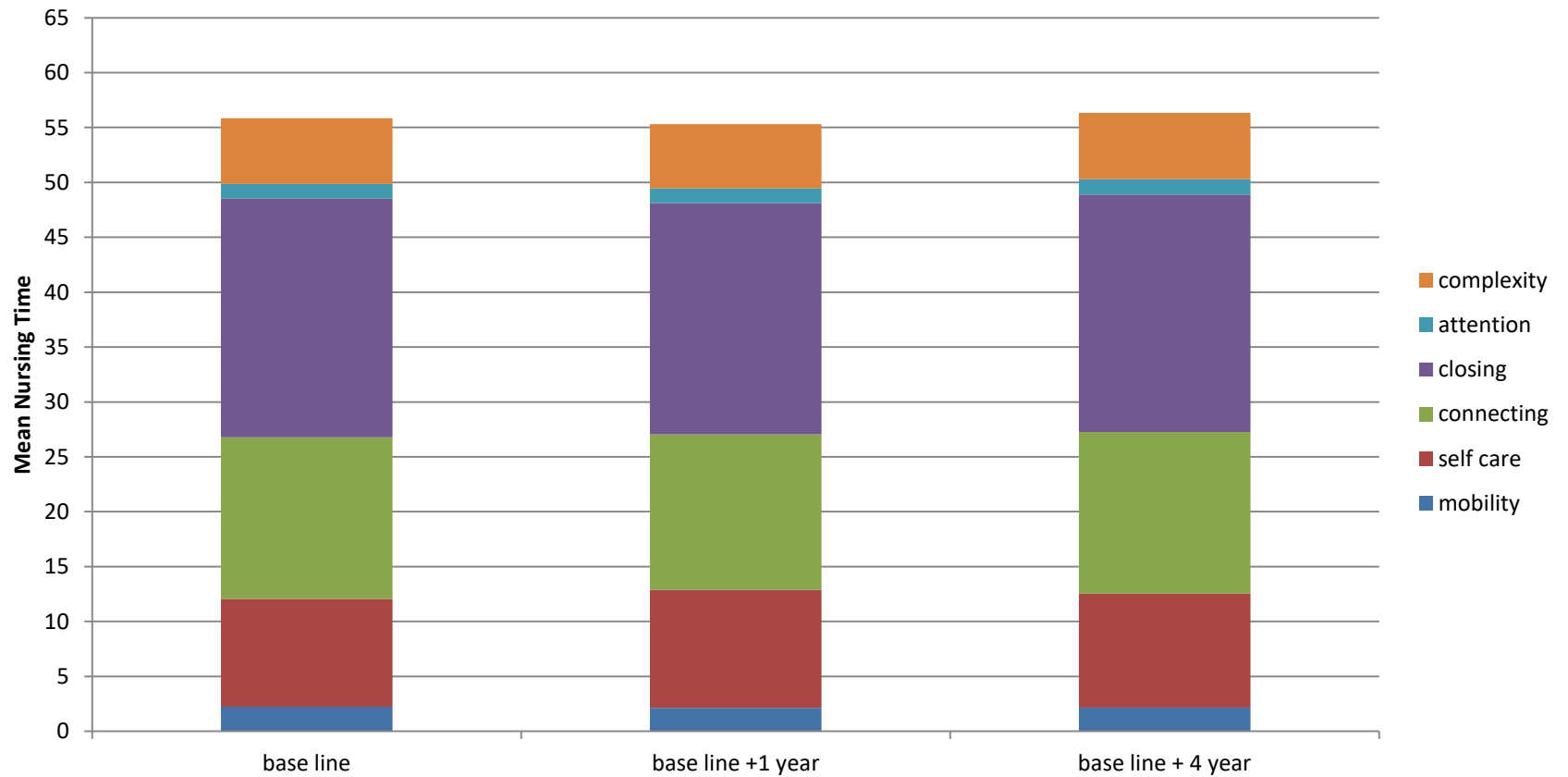
		Longitudinal Patients		
		BL	BL+1	BL+4
Age	Mean years	67	68	71
	sd	14.6	14.1	14.5
	≥ 75	38.9%	39.3%	46.7%
HD vintage	Mean	2.8	3.8	6.8
	sd	4.0	4.0	4.0
Previous Tx	Yes	7.8%	7.8%	10%
Previous PD	Yes	7.8%	7.8%	7.8%
Number of comorbidities	Mean	1.7	1.9	2.4*&
	sd	1.1	1.2	1.4

Tx = transplantation;

** p≤0.05 versus BL p<0.05. & p≤0.05 versus BL+1*

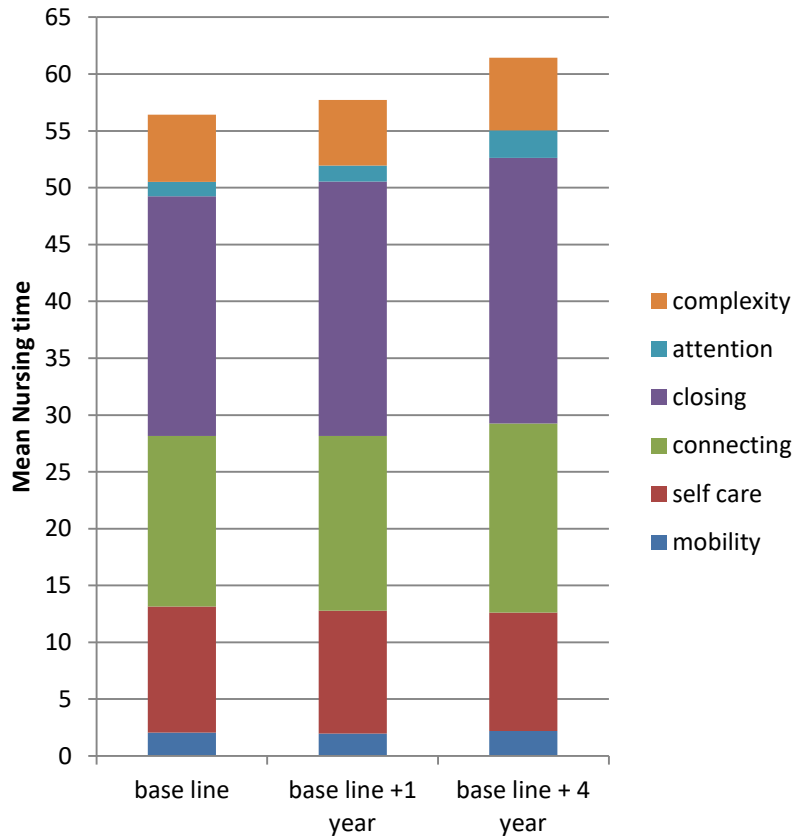
Results

All Patients

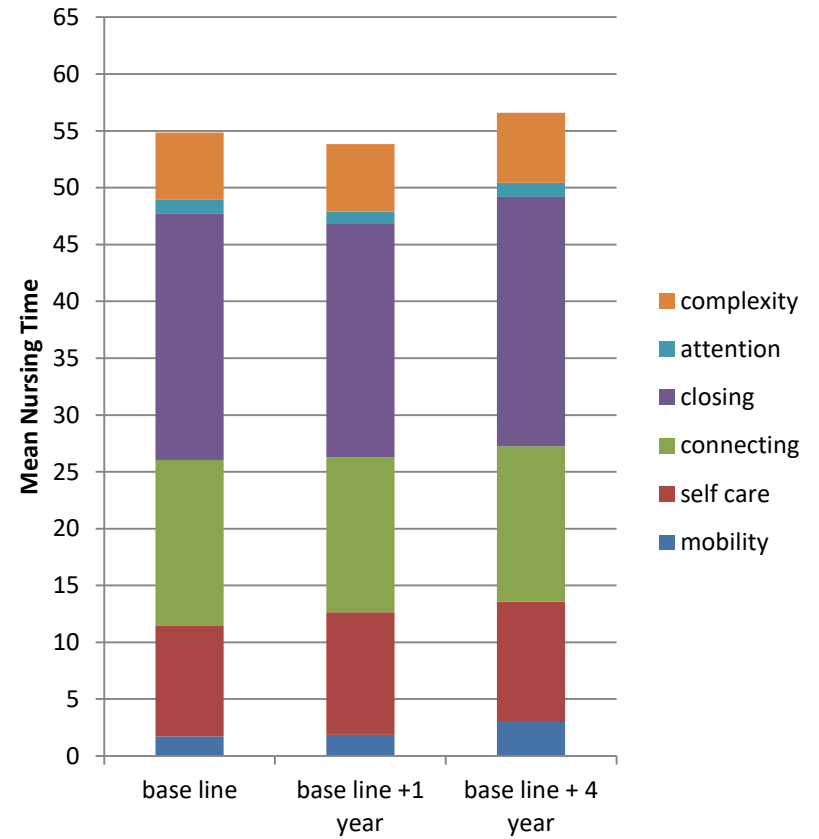


Results

Incident Patients



Longitudinal



Conclusion

- The average time required for dialysis patients remained the same over time
- However, the time required for new patients was increasing

For patients who remained in this study, care time slowly increased due to increasing need for attention, less mobility and less self care.



Discussion

- We demonstrate that incident haemodialysis patients need more nursing care time. The inflow of new patients in academic hospitals is higher than in other centres. This might be an additional reason for the observation of more nursing care time needed in the academic centres.

Thank you for
your attention