

A NEW MODEL OF CARE FOR CKD STAGE 5 PATIENTS: IT SAFELY DELAYS DIALYSIS AND SAVES MONEY

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OBJECTIVES

We have shown in a recent study how a clinical follow up with appropriate therapies may safely postpone dialysis start. According to a recent study from S. Anna Institute of Pisa, each patient with chronic kidney disease stage 5 in conservative treatment cost 10.766 €/year. This costs increase to 71.666€/year for haemodialysis and to 23.926 €/year for peritoneal dialysis. So in Tuscany, estimated cost of CKD stage 5 therapies amount at 280.029.385 €/year, 11.908.858 €/year in our centre (tab 1). Now we would to compare health care costs of a conservative management with those of dialysis.

Tab.1. Estimated cost of CKD stage 4-5 therapies and dialysis in Tuscany and in Santa Maria Annunziata Hospital (SMA) according to S. Anna Institute of Pisa data

	TUSCANY		SMA	
	N° patients	Estimated cost (€)	N° patients	Estimated cost (€)
CKD 4	10.821	99.390.885	150	1.377.750
CKD 5	1.800	19.378.800	75	807.450
HD	2.150	154.081.900	127	9.101.582
PD	300	7.177.800	26	622.076

METHODS

We evaluate data from 340 of 596 patients who referred to our CKD 5 dedicated outpatients clinic from 2003 to 2013; all 340 patients fulfilled selection criteria; 188 of 340 (55%) were in conservative treatment at least for 12 months and 152 started dialysis very quickly, 49 (15%) peritoneal and 103 (30%) haemodialysis.

RESULTS

This case mix resulted in an overall cost of 10.577.980 €, e.g. 31.100 € patient/year (2.024.008 € for conservative treatment, 7.381.598 € for haemodialysis and 1.172.374 € for peritoneal dialysis). The cost would have been 20.308.540 €, e.g. 59.731 € patient/year if all 340 patients were immediately started on dialysis, with an hypothetical 25% of patients in peritoneal dialysis.

Tab 2 Estimated annual costs of Santa Maria Annunziata Hospital End Stage Renal Disease patients

	Conservative	Hemodialysis	Peritoneal dialysis	Overall
Our model of care	€ 2.024.008,00	€ 7.381.598,00	€ 1.172.374,00	€ 10.577.980,00
All 340 patients started dialysis (with an estimated 25% in PD)		€ 18.274.830,00	€ 2.033.710,00	€ 20.308.540,00

CONCLUSIONS

Our model, compared with guidelines recommendations, allows to saving about 29.000 €/year per incident patient with eGFR≤10 ml/min/1,73m².

REFERENCES:

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