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Increased cost of erythropoiesis-stimulating agents in some special situations

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BACKGROUND AND OBJECTIVE

• Certain situations as previous kidney transplant or dialysis may increase the dose requirement of erythropoiesisstimulating agents (ESA), which is associated with a higher cost.

• The **objective** was to analyze the difference in cost in the use of ESAs between predialysis and dialysis (peritoneal dialysis or hemodialysis) patients and between patients with or without kidney transplant.

METHODS

✓ **Design**: A descriptive, transversal study was carried out in patients treated with ESAs for anaemia secondary to chronic kidney disease in a tertiary hospital over a month in 2011.

 \checkmark ESAs used were epoetin (α or β), darbepoetin α and continuous erythropoietin receptor activator (CERA).

✓ **Principal variable** was patient-month cost, calculated as the cost of the dose unit for each ESA type (IU or mcg) multiplied by the monthly dose per patient.

RESULTS

	333 patients were included (52.6% female; median age 75.2 years)
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30.9% patients were on dialysis	EPOETIN (35.0%)	DARBEPOETIN α (58.3%)	CERA (6.8%)
Predialysis (patient-month cost)	92.1 [59.5, 165.6] euros	144.0 [67.2, 229.2]	147.5 [98.3, 196.7]
		euros	euros
Dialysis (patient-month cost)	151.1 [74.1, 239.1] euros	144.0 [72.0, 216.0]	393.4 [98.3, 491.7]
		euros	euros
p	0.06	0.888	0.035
Data is expressed with median (p25	275)		

Data is expressed with median (p25, p75)

26.2% patients had previous kidney transplant	EPOETIN (10.3%)	DARBEPOETIN α (33.3%)	CERA (56.3%)
Non-kidney transplant (patient-	103.2 [63.8, 191.3] euros	144.0 [72.0, 216.0]	98.3 [59.0, 147.5]
month cost)		euros	euros
Kidney transplant (patient-month	191.3 [95.6, 414.5] euros	144.0 [72.0, 288.0]	196.7 [172.1, 295.0]
cost)		euros	euros
р	0.060	0.136	0.001
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Data is expressed with median (p25, p75)

CONCLUSIONS

The cost of ESA is superior in both epoetin and CERA for patients with kidney transplant and for patients on dialysis. However, regarding darbepoetin α, differences have not been found.