

Real-World Therapeutic Patterns of Patients in Haemodialysis Affected By Chronic Kidney Disease-Associated Pruritus: An Italian Administrative Database Analysis

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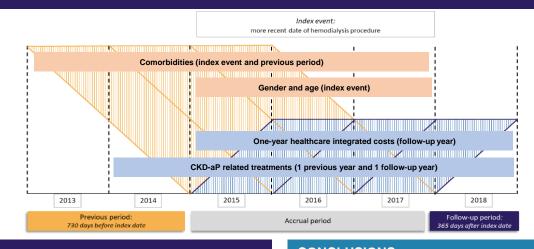
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BACKGROUND AND OBJECTIVES

Chronic kidney disease associated pruritus (CKD-aP), also known as uremic pruritus, frequently affects hemodialysis patients. To date, no causative or aetiology-specific treatments have been established. The analysis of Fondazione ReS (Ricerca e Salute) aimed to describe the population undergoing hemodialysis and potentially affected or not by CKD-aP, and to evaluate their therapeutic patterns and integrated healthcare costs from the perspective of the Italian National Health Service (INHS).

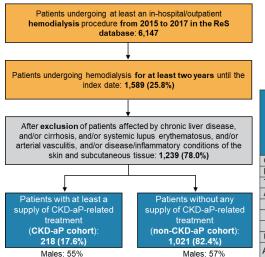
METHODS

From the ReS database, through the cross-linkage of healthcare administrative data, patients with at least an in-hospital/outpatient hemodialysis procedure from 01/01/2015 to 31/12/2017 were selected (index event). Those treated with hemodialysis during at least 2 years and not affected by chronic liver disease/cirrhosis/systemic lupus erythematosus/arterial vasculitis/skin-subcutaneous tissue disease-inflammation were categorized based on presence/absence of CKD-aP treatments (gabapentin, pregabalin, thalidomide, antihistamines and ultraviolet light therapy), according to the common clinical practice, in 180 days before/after index event. CKD-aP/non-CKD-aP cohorts were characterized in terms of gender, age and comorbidities. Costs were assessed within 1-year follow-up; CKD-aP treatments were assessed during 1 year before and after index date.



RESULTS

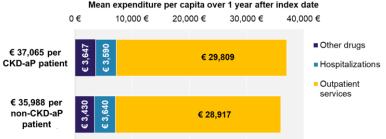
Mean age: 69±13



Mean age: 66±15

CKD-aP patients were more affected by comorbidities, especially hypertension (74.3% vs 71%), hyperphosphatemia (68.8% vs 61.0%) and hyperparathyroidism (46.8% vs 42.8%).

	1 year before index date		1 year after index date		
CKD-aP related treatments	Patients (n; % on CKD-aP cohort)	Mean n° of packages/ performances per patient treated	Patients (n; % on CKD-aP cohort)	Mean n° of packages/ performances per patient treated	
Gabapentin	23; 10.6	4.7	20; 9.2	5.4	
Pregabalin	0	-	0	-	
Thalidomide	0	-	0	-	
Antihistamines	108; 49.5	4.6	122; 56.0	4.2	
Cetirizine	53; 24.3	1.5	53; 24.3	1.8	
Desloratine	19; 8.7	1.8	28; 12.8	1.7	
Ultraviolet light therapy	3; 1.4	2.0	3; 1.4	4.0	
At least one CKD-aP related treatment	127; 58.3		142; 65.1		



Per CKD-aP and non-CKD-aP patient respectively, hemodialysis procedures accounted for the 62.3% and 66.3% of the overall expenditures for hospitalizations and for the 77.9% and 78.4% of the outpatient specialist care costs. High-efficiency hemodialytic therapies were the most performed.

CONCLUSIONS

Even if patients with CKD-aP resulted underestimated, due to the limitations related to the unique use of administrative databases, this study highlighted some current critical therapeutic strategies in nephrology (i.e. wide use of highefficiency dialytic therapies). Thus, appropriate and effective treatments for CKD-aP are deserved, also to offer cost offsets. Healthcare policy makers and payers must accelerate researches and favor the development of awareness and the sharing of information amongst clinicians and patients.