

REAL-WORLD EFFECTIVENESS OF EVOLOCUMAB AND ALIROCUMAB AT 12 MONTHS OF TREATMENT

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Background

Alirocumab and Evolocumab are proprotein convertase subtilisin/kexin type 9 inhibitors (PCSK9-I) that have been authorized by the Autonomous Health Service under the following conditions:

- uncontrolled familial hypercholesterolaemia (FH) with LDL-C>130mg/dL
- uncontrolled stable atherosclerotic cardiovascular disease (ASCVD) with LDL-C >130mg/dL or
- unstable ASCVD with LDL-C>100mg/dL

in combination with a statin and ezetimibe at maximum tolerated doses and in patients who cannot tolerate or cannot be given statins with LDL-C>100mg/dl.

Material and methods

Retrospective study from April 2016 to June 2017 and follow-up at 12 months of treatment

- Inclusion criteria: patients treated with PCSK9-I during the study period.
- Variables collected: demographic, clinical, analytical and treatment.
- Evaluation of efficacy: the percentage of reduction of LDL-C. (Cut-off date June 2017).
- Statistical analysis: IBM® SPSS Statistics® v22.0. The variables are



presented by means and percentages. Chi-square test was used for comparison among groups. The results were analyzed according to the intention-to-treat principle.

Purpose

• analyze effectiveness of PCSK9-I in patients treated at a tertiary care hospital







After 12 months (mean of 53 weeks[42+76])*

	Mean LDL baseline	180.5±49.4mg/dl
	Mean LDL after 12 months	84.6 ± 43.8mg/dl
	Mean percentage change	-50.8 ± 34.8%
	Absolute change	-102,5 mg/dl

		Treatment goal reached ¹	15 patients (60%)		
		Diferences between evolocumab and alirocumab	(-55,2% versus -40,8%, p = 0,408)		
Y		•data were collected from 25 (65.8%) patients, in 11 cases (28.9%) the blood test was not done and 2 (5.3%) discontinued treatment due to patient decision			
 One patient had poor compliance due to adverse events (hair loss and nail fungus), although it is not described in the EPAR (European Public Assessment Report). 					

Conclusion

Safety

- LDL-C reductions obtained with PCSK9-I in clinical practice are similar than those described in clinical trials (50-70%)^{2,3} although only 60% of
 patients achieved the recommended goal after one year of treatment.
- PCSK9-I were well tolerate without discontinuations due to side effects.
- These new drugs bring a treatment opportunity to patients that are intolerant or non-responders to the currently available therapies.

References

- ¹2016 European Guidelines on cardiovascular disease prevention in clinical practice
- ² European Medicines Agency (EMA). Repatha®. European Public Assessment Report (EPAR). EMA/CHMP/222019/2015.
- ³ European Medicines Agency (EMA). Praluent®. European Public Assessment Report (EPAR). EMA/CHMP/392430/2015.



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