COST AND DOSAGE OF BIOLOGICAL THERAPIES IN CLINICALImage: Cost of the state of the state

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OBJECTIVES

▶ To describe dispensing pattern of tocilizumab, etanercept, adalimumab and infliximab in clinical practice.

▶ To calculate the annual median cost and compare with the theoretical annual median cost of these drugs in Rheumatoid Arthritis (RA), Ankylosing Spondylitis (AS) or Psoriatic Arthritis (PsA).

• To evaluate the percentage of dispensing median dose of the therapies in these rheumatic diseases.

METHODS

•Observational retrospective study (from 01/01/2009 to 31/12/2013) with local Ethics and Clinical Investigation Commission approval (19/09/2014).

- At least 1 year with one of the therapies attended at Rheumatology and Pharmacy Services.
- Recommended dose: the official dose reported in medicinal product information.
- Cost was calculated according to the officially published price bulletin from Spanish Medication Agency.
- Extraction of information: electronic medical history program and pharmaceutical care database.

RESULTS

251 episodes of treatment, corresponded to 236 patients, were included. Changes in dispensing frequency was the most common posology adjustment.

Table 1: Dispensing pattern of biological therapies in clinical practice.

THERAPY	RA		AS		PsA		Total	
	Episodes of treatment	%	Episodes of treatment	%	Episodes of treatment	%	Episodes of treatment	%
Adalimumab	58	38,9	24	40,7	24	55,8	106	42,2
Etanercept	51	34,2	23	39,0	15	34,9	89	35,5
Infliximab	22	14,8	12	20,3	4	9,3	38	15,1
Tocilizumab	18	12,1	NA	NA	NA	NA	18	7,2
Total	149	59,4	59	23,5	43	17,1	251	100

Figure 1. Description of statistical differences in real annual median cost per episode of treatment between two subcutaneous therapies in each pathology. U Mann-Withney Test (*p-value < 0,05).

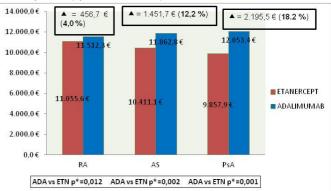


Figure 3. Description of statistical differences between real annual median cost and theoretical annual median cost per therapies in RA. *p-value < 0,05 (Wilcoxon Test = real cost vs. theoretical cost) per all therapies except for infliximab.

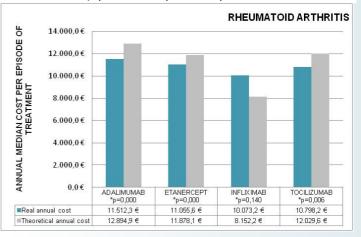
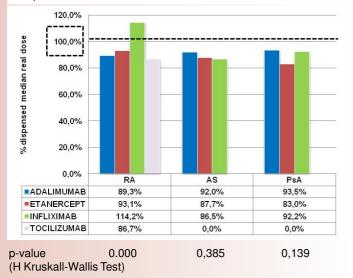


Figure 2. Percentage of dispensed median real dose compared with recommended dose.



CONCLUSIONS

Real dosage of etanercept, adalimumab and tocilizumab is lower than the recommended dosage.
The real annual cost should be taken into account to choose one biological therapy.

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