

RITUXIMAB AS AN ALTERNATIVE IN NEUROLOGIC DISORDERS: LONG TERM STUDY

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- Rituximab is a chimeric, anti-CD20 monoclonal antibody. In addition to its approved indications, its off-label use has increased in the management of a variety of Neurologic diseases.
- Purpose: To describe rituximab prescriptions in Neurology department, and evaluate the scientific evidence in offlabel indications in order to rationalize its use.

MATERIAL AND METHODS

- Retrospective observational study including all Neurology patients under rituximab treatment from January 2012 to January 2020.
- Following data were collected: demographic (sex and age), clinical (indication), therapy related (dose, posology, previous treatments and adverse events) and economical (annual cost). 'The Oxford 2011 Levels of Evidence (LE)' was use to categorize evidence.



(days 1 and 15, repeated six months later) and a maintaining dose of 500-1000mg each 6-12 months.

Adverse events: infusion-related reactions (n=4) infections (n=12):

- respiratory (n=6)
- urinary (n=5)
- dermic (n=1) -



Primary/Secondary Progressive Multiple Sclerosis (PMS), LE:2, no benefit

Optic Neuromyelitis (ONM), LE:4, benefit

Myasthenia Gravis (MG), LE:4, benefit

Demyelinating inflammatory chronic polyradiculoneuropathy (DICP), LE:4, benefit

Optic Neuritis, no good quiality evidence

Isolated Central Nervous System Vasculitis, , no good quiality evidence

Other Neurologic Disorders or Syndroms

Average cost per patient is 6.366€ during first year, and 2.546€ each following year. 78% of this cost was spent in treating pathologies in which rituximab has shown poor evidence.



Off- label rituximab is extendedly used in neurological pathologies with no strong evidence. As many adverse events have been observed, close monitoring of patients is suggested. The high economic impact makes necessary to rationalize rituximab prescription and optimise efficiency of sanitary resources.

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