

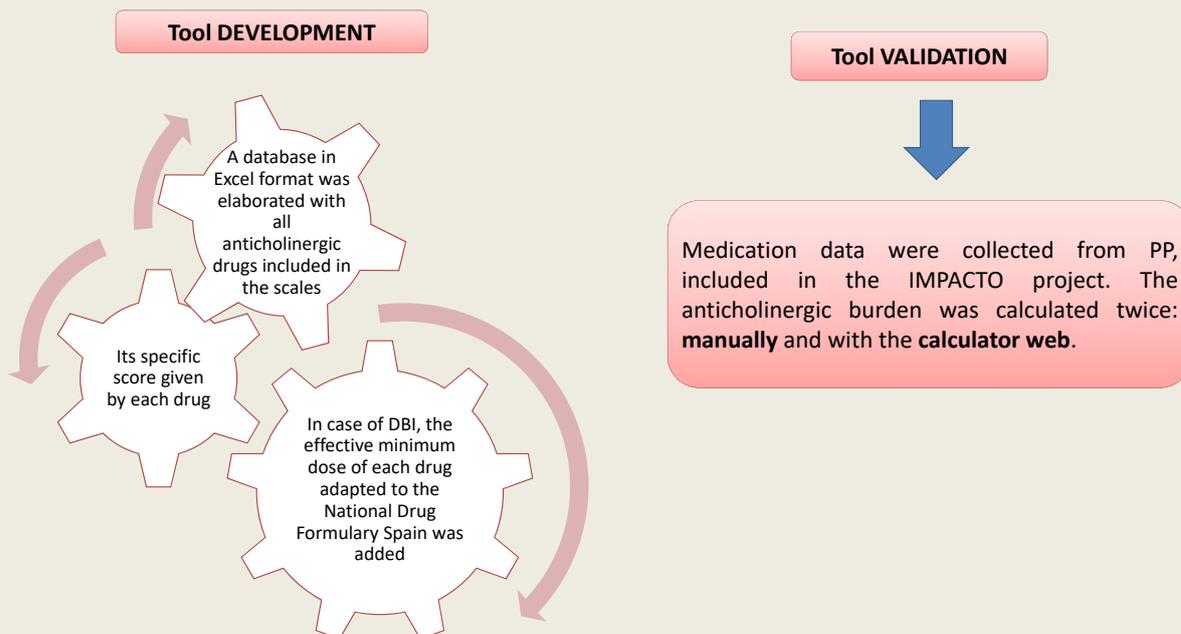
ANTICHOLINERGIC BURDEN CALCULATOR WEB TOOL

A.M. Villalba-Moreno¹, E.R. Alfaro-Lara², M.C. Pérez-Guerrero³, B. Santos-Ramos⁴, M.D. Nieto-Martín⁵, M.D. Santos-Rubio¹.
1 University Hospital Virgen del Rocío, Pharmacy. Seville, Spain. 2 Agency for Health Technology Assessment. Seville, Spain. 3 Faculty of Pharmacy, Pharmacology. Seville, Spain. 4 University Hospital Virgen de Valme, Pharmacy. Seville, Spain. 5 University Hospital Virgen del Rocío, Internal Medicine. Seville, Spain.

Background: Anticholinergic drugs may increase the risk of cognitive and functional disorders in older patients. Anticholinergic exposure quantified by anticholinergic scales (AS) can detect patients with high risk for adverse events. Higher anticholinergic burden is associated with negative side effects.

Objectives: Design, development and validation of a tool that calculates the anticholinergic burden.

Methods: It was designed a tool which calculates the anticholinergic burden based on different AS described in a systematic review. The main aim of review was to identify all the AS described in literature and to evaluate them in polypathological patients (PP), a subpopulation of patients with chronic diseases and increasing frailty, or with characteristics similar.



Results:

- ✓ It is a **web portal software** program.
- ✓ Access **easy and free**.
- ✓ The report offers final **anticholinergic risk** scores into **three groups**: low, medium and high, according to risk categorization made by the authors or developers of each scale.
- ✓ It describes the **score of each drug** by scale tool.

The tool generates reports on 10 AS, elaborated to older patients in general, according to the review. It was named **Anticholinergic Burden Calculator** and was created for use in clinical settings.



www.anticholinergicscales.es/

- ✓ We analyzed medication from **35 patients**.
- ✓ A total of **310 drugs**.
- ✓ It was calculated anticholinergic burden based on 10 AS.
- ✓ The results showed a **100% agreement** between both manual and automated calculations from software.

Conclusions: The tool **facilitates the calculation** of the total load using 10 scales in a single step. Moreover, the doctors and pharmacists obtained very **valuable information about treatment**. They can **identify** which **patients are at risk** and give them a focus when reviewing the medicines taken by elderly easily and quickly.