

## **Moving stroke research into policy and practice: experience and access of the MAGICapp online clinical guideline platform**

**Hill, K<sup>1</sup>**, Aslett, T<sup>1</sup>, Campbell, B<sup>2</sup>, English, C<sup>3,4</sup>, McGowan, S<sup>1</sup>.

*Affiliations* <sup>1</sup> Stroke Foundation, Melbourne, Australia

<sup>2</sup> Department of Medicine and Neurology, Melbourne Brain Centre at the Royal Melbourne Hospital, University of Melbourne

<sup>3</sup> University of Newcastle, Newcastle, Australia

<sup>4</sup> Hunter Medical Research Institute, Newcastle, Australia

### **Background**

Clinical Guidelines are an important tool to ensure research is translated into policy and practice but historically the end result is a static document. Online platforms that enable multilayered information along with inbuilt decision support tools may aid translation of research and also allow rapid updating with new research.

### **Objectives**

To describe the utility of MAGICapp, an online guideline development platform for the updating of the Clinical Guidelines for Stroke Management 2017.

### **Method**

Description of the use of MAGICapp during the recent stroke guidelines update is presented along with observational data of guideline access in the six months after launch with comparisons to the 2010 guidelines.

### **Results**

The 2010 and 2017 guideline updates were approved by the NHMRC by meeting robust standards for development. MAGICapp was used for development and publication of the 2017 guidelines compared to an interactive online PDF in 2010. Further information is accessible via MAGICapp than previous formats. Users can view the rationale, extracted data and quality appraisal, summary (GRADE) profiles, and practical considerations for implementation. Patient decision support tools are also available for treatment discussions at the bedside (via smartphone). Webpage access increased almost six-fold from 8,582 (2010) to 50,232 (2017).

### **Conclusions**

MAGICapp provides a transparent and flexible publication platform than traditional methods and will also accommodate rapid updating of evidence and recommendations in the future. Further evaluation is planned to understand the impact on guideline development efficiency and acceptability to users. Online access to stroke clinical guidelines has increased substantially from 2010 to 2017.