

## A PILOT STUDY OF VALUE OF INFORMATION ANALYSIS TO SUPPORT RESEARCH RECOMMENDATIONS FOR THE NATIONAL INSTITUTE FOR CLINICAL EXCELLENCE

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**Purpose:** To demonstrate the benefits and feasibility of value of information analysis to support research recommendations made by the National Institute for Clinical Excellence (NICE)

**Methods:** A series of six case studies was selected from recent technology appraisals conducted by NICE. The case studies included: clopidogrel and dipyridamole in secondary prevention (CD); glycoprotein antagonists (GPAs); screening for age related macular degeneration (AMD); neuroaminidase inhibitors (NIs) for influenza; liquid based cytology (LBC); and beta interferons for multiple sclerosis (BIs). The case studies were broadly consistent with the recent NICE guidance on reference case analysis and included a probabilistic decision analytic model. In each case a re-analysis using value of information analysis was conducted.

**Results:** The reanalysis of each case study was completed within 4 weeks. The value of research differed substantially across the 6 technology appraisals (EVPI ranged from £2.8m to £865m). In some cases the analysis indicated that the original research recommendations should not be regarded as a priority. In other cases it indicated that additional research should be commissioned. The analysis also indicated which comparators should be included and which patient sub-groups should be enrolled in future trials. The case studies highlighted a number of general methodological issues including: consideration of all comparators, synthesis of direct and indirect evidence, and considering structural as well as parameter uncertainty.

**Conclusions:** Value of information analysis can be conducted in a timely way, which can inform the research recommendations made by NICE.