

# Examining causal effects of treatments for patients with infective endocarditis

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**Abstract:** A marginal structural Cox's model is employed to explore the causal effect of surgical treatment of infective endocarditis when compared to medical treatment. The investigation is based on the Institute for Clinical Evaluative Sciences (ICES) administrative healthcare databases. Our study is aimed to address controversies among the apparent protective effect of surgery and whether selection bias accounts for the effect.