Appendix 1

This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors.

Appendix 1 – Sensitivity analysis

To test the validity and accuracy of applying the chosen international prevalence statistics (from the Rotterdam Study) to the Australian population to estimate the prevalence of atrial fibrillation (AF), we conducted sensitivity analyses using the 95% confidence intervals (CIs) calculated and presented by Heeringa et al. (2006). Tables and graphs illustrating these analyses are presented below.

(A) Males

(B) Females

Figure 1: Chosen age-specific AF prevalence estimates (%) with high and low estimates of accuracy in males (A) and females (B) aged ≥55 years
The following graphs illustrate the overall number of individuals with AF/number of AF cases estimated in the Australian adult population (those aged ≥55 years) at 30\textsuperscript{th} June, 2014 and the number of cases predicted to exist in Australian adults (aged ≥55 years) at 30\textsuperscript{th} June, 2034. In addition, the high and low estimates of accuracy (i.e. 95\% CI) have been applied to Australian population data and are represented.

(A) Overall estimated number of AF cases – Australian adults at 30\textsuperscript{th} June, 2014

(B) Overall predicted number of AF cases – Australian adults at 30\textsuperscript{th} June, 2034

Figure 2: Estimated number of AF cases in the overall Australian adult population (aged ≥55 years) at 30\textsuperscript{th} June, 2014 (A) and predicted at 30\textsuperscript{th} June, 2034 (B) with high and low estimates of accuracy
The following graphs illustrate the number of males with AF/number of AF cases estimated in the Australian adult population (those aged ≥55 years) at 30th June, 2014 and the number of cases predicted to exist in Australian adult males (aged ≥55 years) at 30th June, 2034. In addition, the high and low estimates of accuracy (i.e. 95% CI) have been applied to Australian population data and are represented.

(A) Estimated number of AF cases - Australian males at 30th June, 2014

(B) Predicted number of AF cases - Australian males at 30th June, 2034

Figure 3: Estimated number of AF cases in the Australian adult male population (aged ≥55 years) at 30th June, 2014 (A) and predicted at 30th June, 2034 (B) with high and low estimates of accuracy
The following graphs illustrate the number of females with AF/number of AF cases estimated in the Australian adult population (those aged ≥55 years) at 30th June, 2014 and the number of cases predicted to exist in Australian adult females (aged ≥55 years) at 30th June, 2034. In addition, the high and low estimates of accuracy (i.e. 95% CI) have been applied to Australian population data and are represented.

(A) Estimated number of AF cases - Australian females at 30th June, 2014

(B) Predicted number of AF cases - Australian females at 30th June, 2034

Figure 4: Estimated number of AF cases in the Australian adult female population (aged ≥55 years) at 30th June, 2014 (A) and predicted at 30th June, 2034 (B) with high and low estimates of accuracy.
The following graphs illustrate the total number of individuals with AF/number of AF cases estimated in the Australian adult population (those aged ≥55 years) at 30th June, 2014 and the number of cases predicted to exist in Australian adults (aged ≥55 years) at 30th June, 2034. In addition, the high and low estimates of accuracy (i.e. 95% CI) have been applied to Australian population data and are represented.

(A) Estimated total number of AF cases in Australian adult males at 30th June, 2014 and predicted numbers as at 30th June, 2034 (with high and low estimates of accuracy)

(B) Estimated total number of AF cases in Australian adult females at 30th June, 2034 and predicted numbers as at 30th June, 2034 (with high and low estimates of accuracy)
Estimated total number of AF cases in Australian adults overall at 30\textsuperscript{th} June, 2014 and predicted numbers as at 30\textsuperscript{th} June, 2034 (with high and low estimates of accuracy)

\begin{figure}[h]
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\includegraphics[width=\textwidth]{figure5.png}
\caption{Estimated total number of AF cases in Australian adult males (A), females (B) and overall (C) aged \textgreater 55 years at 30\textsuperscript{th} June, 2014 and predicted numbers as at 30\textsuperscript{th} June, 2034 (with high and low estimates of accuracy)}
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