**Additional File 1: Visual Graphical Assessment and Trace Plots Showing Convergence for the Probabilistic Sensitivity-Specificity Adjusted (PSSA) Models**

Manuscript Title: Combining Population-Based Administrative Health Records and Electronic Medical Records for Disease Surveillance

Authors: Saeed Al-Azazi, Alexander Singer, Rasheda Rabbani, Lisa M. Lix

Figure S1: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, overall

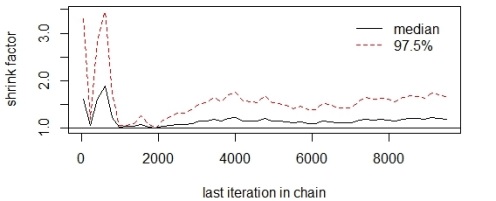
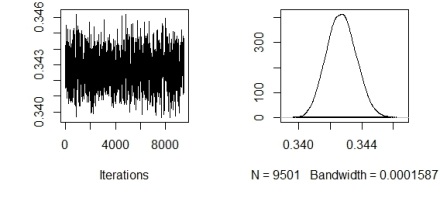
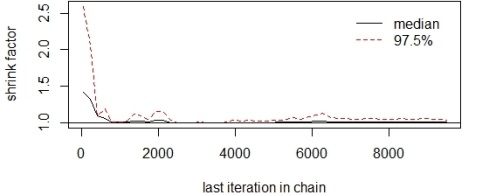
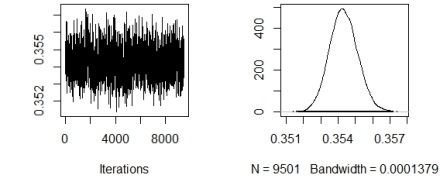
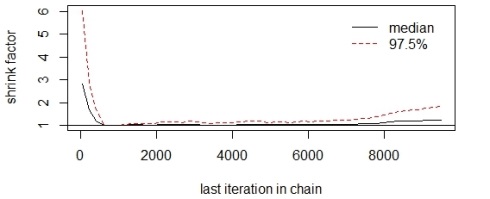
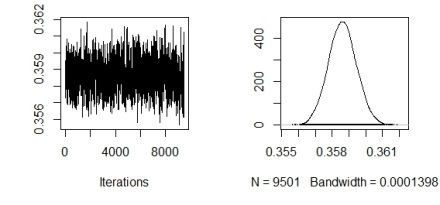
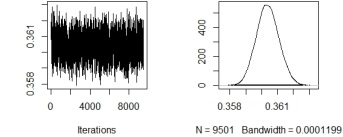
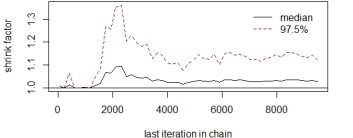


Figure S2: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, males

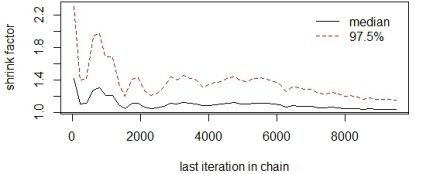
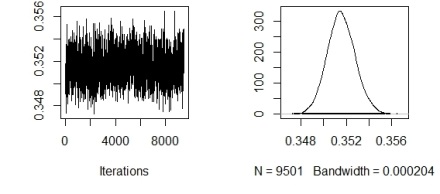
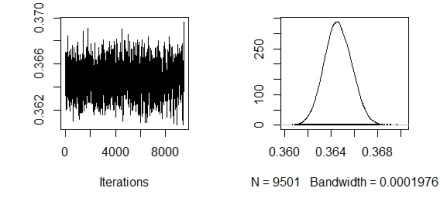
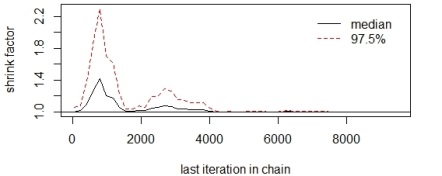
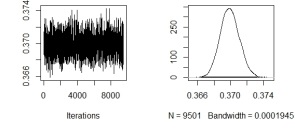
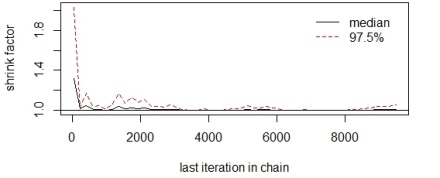
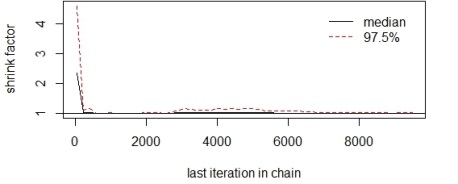
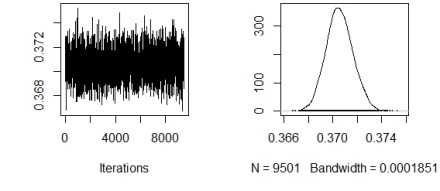


Figure S3: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, females

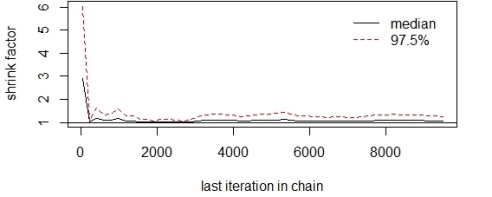
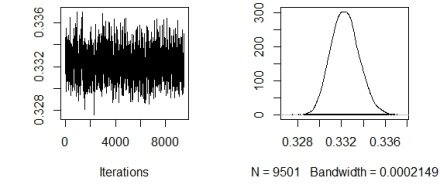
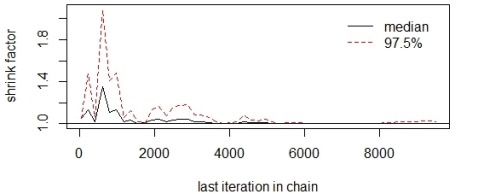
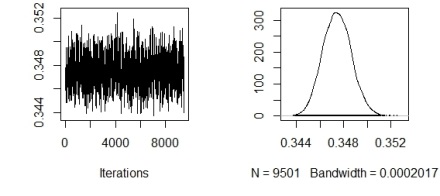
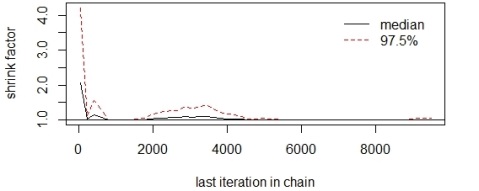
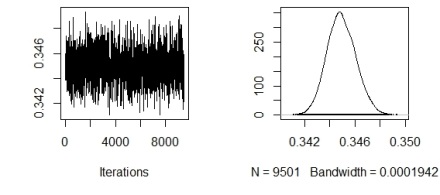
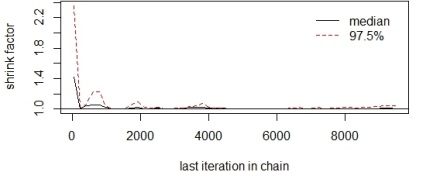
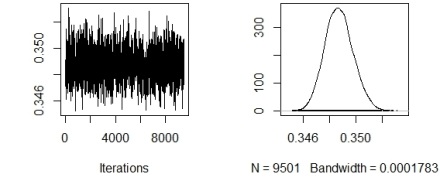


Figure S4: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, 18-44 age group

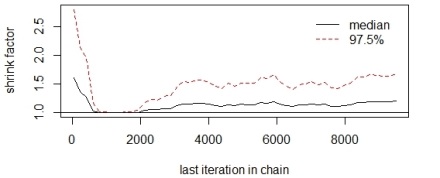
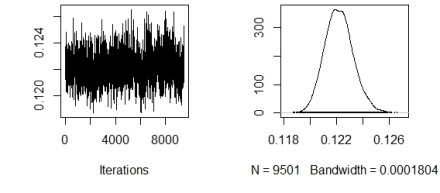
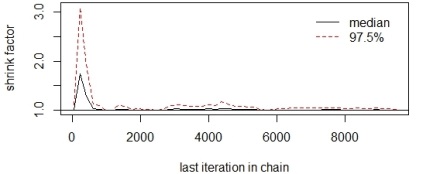
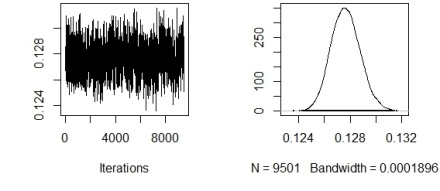
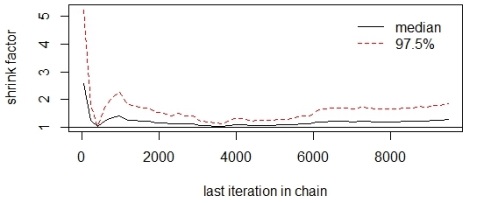
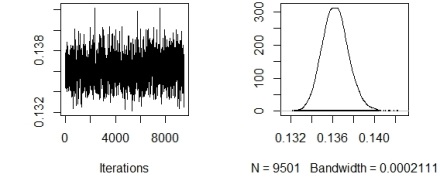
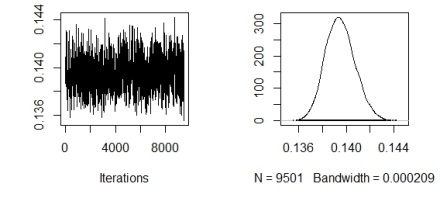


Figure S5: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, 45-64 age group

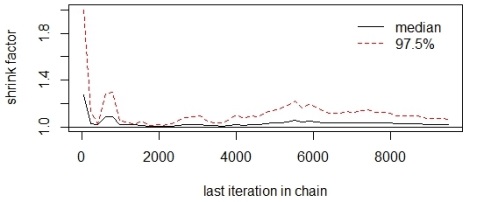
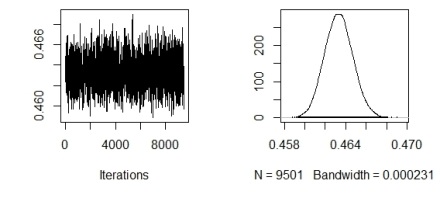
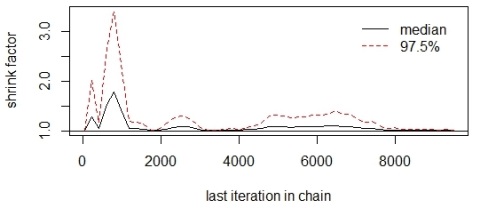
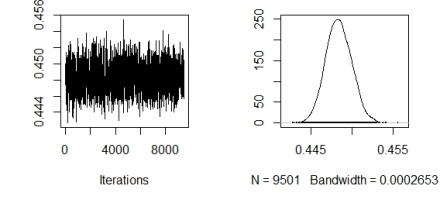
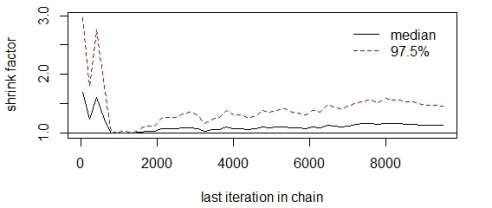
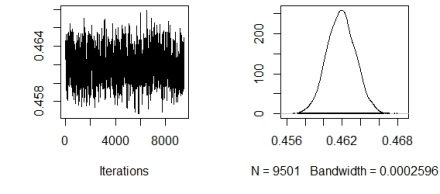
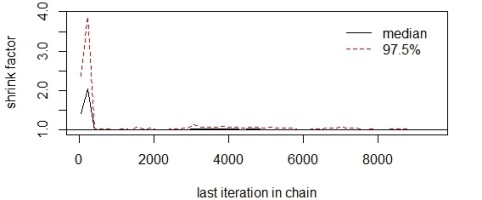
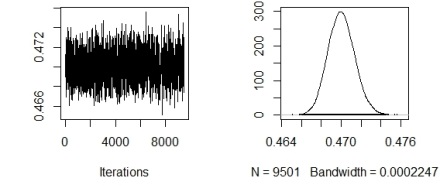


Figure S6: Trace plots, density plots and convergence plots of the posterior distribution of the estimated disease prevalence for the PSSA method, 65+ age group

