

# VSB ENGINEERING COLLEGE, KARUR

IBM Nalaiyathiran

Electronics and communication engineering

Title: Visualizing and predicting heart disease with an interactive dashboard

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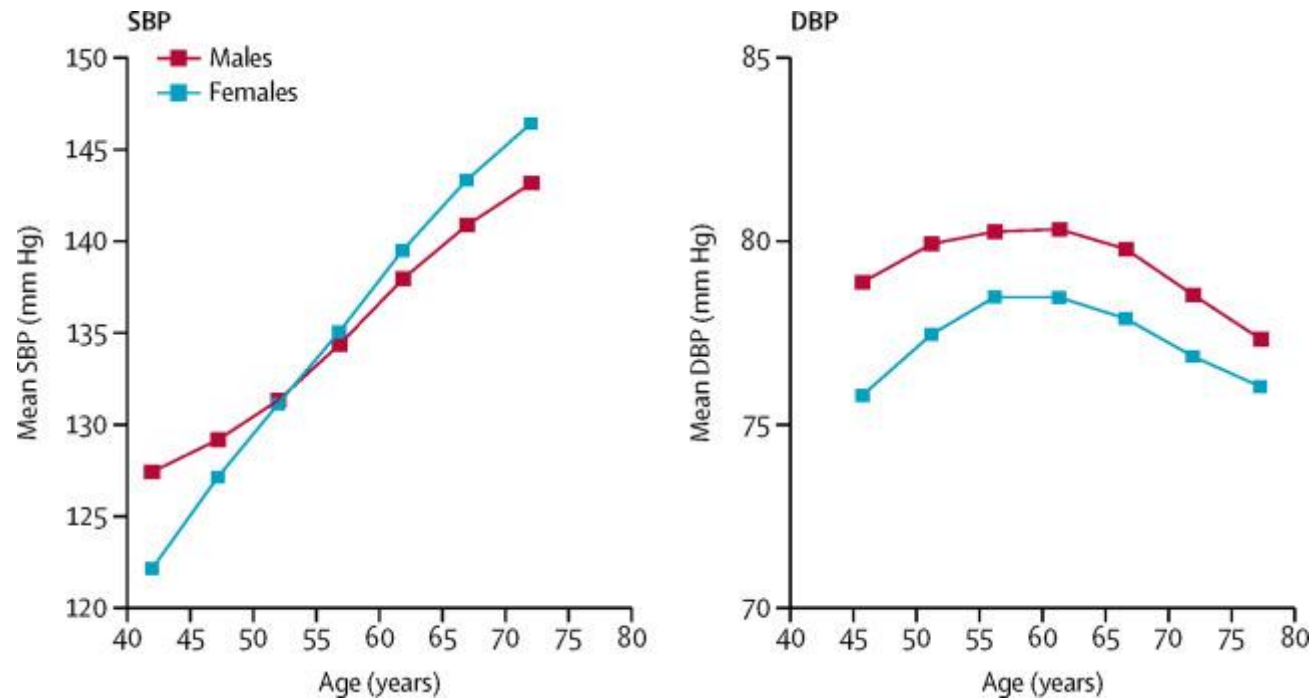
## Blood pressure variation with respect to age

### DESCRIPTION:

An age-related increase in blood pressure (BP) is viewed as a universal feature of human aging. Among Westerners over age 40 years, systolic BP (SBP) increases by  $\approx 7$  mmHg per decade. Epidemiological surveys show a progressive increase in SBP with age, reaching an average of  $\approx 140$  mmHg by the eighth decade

Higher BP is associated with cardiovascular and renal disease across diverse populations, even controlling for other factors.<sup>5</sup> Hypertension is the leading cause of cardiovascular mortality, and age-related BP increase is a high-priority target for intervention. It's not usually life threatening, but it's a warning sign that you could be at risk of a heart attack or stroke.

An increase in blood pressure (BP) has always been taken as an inevitable consequence of ageing in industrialised societies, leading to hypertension in a high proportion of elderly subjects. However, the characterisation and definition of what constitutes hypertension in the elderly has changed over the years.



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