To use the Reduced GARFIELD models, you will need the following data elements defined as below:

* Age in years
* Diastolic BP (DBP) : If 0 < DBP < 80 then set DBP = 80. Otherwise, if DBP >=80, use DBP.
* NYHA for Heart Failure (HF), values from 0-4: If HF=No, set to 0. If Yes, use NHYA class for 1-4
* Race: Choose from one of the following categories: Hispanic, Caucasian, Chinese Asian, nonChinese Asian, Other (Black, American Indian, Native Hawaiian, Other)
* Country (if your country is not in the list, choose from the list of countries the one that most closely matches your baseline risk of event)
* Carotid obstructive disease (Set No to 0 and Yes to 1)
* CKD = categories 3 or 4 or eGFR < 60 (Set No to 0 and Yes to 1)
* History of bleed (Set No to 0 and Yes to 1)
* Embolic embolism (Set No to 0 and Yes to 1)
* Heavy alcohol use (Set No to 0 and Yes to 1)

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To calculate the probability of an event, find the coefficient for your country, for the race and for the level of heart failure. Plug into the equation below. Then add the values for the other variables. These equations will give you the probability of having an event at 1 year.

For example, for a patient from the USA who is 70 years of age, diastolic blood pressure of 95, Hispanic, with a history of bleeding and kidney disease, we have, for risk of stroke or systemic embolism at 1 year:

1- (0.99320\*\*exp(-0.58078 -0.044945 + 0.035515\*(10) + 0.69223\*0 + 0.58061\*1 + 0.77878\*0 + 0.53417\*1 + 0.018027\*15)) = 2.058%

Probability of 1 year event rate for nonhem stroke or systemic embolism:

1- (0.99320\*\*exp(country coefficient + race coefficient + 0.035515\*(age-60) + 0.69223\*heavy alcohol use + 0.58061\*history of bleeding + 0.77878\*embolic event + 0.53417\*ckd + 0.018027\*(truncatedDBP-80)))

Probability of 1 year event rate for hem. Stroke or major bleeding:

1-(0.99421\*\*exp(country coefficient + HF coefficient + 0.036267(age-60) + 0.81102\*carotid obstructive disease + 0.56829\*ckd))