

Equation**Equations for risk of events at 2 years:**

$$\begin{aligned} \text{All-cause mortality} = & 100^* (1 - (0.962450119)^{\exp(-0.306202287^* \text{Female sex} \\ & + 0.693789082^* \text{Heart failure} \\ & + 0.306120964^* \text{Vascular disease} \\ & + 0.26585298^* \text{Prior stroke} \\ & + 0.385407386^* \text{History of bleeding} \\ & + 0.280133213^* \text{Diabetes} \\ & + 0.377903886^* \text{Moderate-to-severe CKD} \\ & + 0.489453313^* \text{Dementia} \\ & + 0.345481149^* \text{Current smoking} \\ & - 0.414591263^* \text{OAC treatment: NOAC} \\ & - 0.18593561^* \text{OAC treatment: VKA} \\ & + 0.157023564^* \text{Ethnicity: Hispanic Latino} \\ & - 0.609609055^* \text{Ethnicity: Asian} \\ & + 0.375675102^* \text{Ethnicity: Black/Mixed/Other} \\ & + 0.031050027^* (\text{Age}-65)^* (\text{Age} \leq 65) \quad /*if age \leq 65*/ \\ & + 0.064594824^* (\text{Age}-65)^* (\text{Age} > 65) \quad /*if age > 65*/ \\ & - 0.021535182^* (\text{Weight}-75)^* (\text{Weight} \leq 75) \quad /*if weight \leq 75*/ \\ & + 0.007678035^* (\text{Pulse}-120)^* (\text{Pulse} \leq 120) \quad /*if pulse \leq 120*/ \\ & - 0.019304333^* (\text{Diastolic blood pressure}-80)^* (\text{Diastolic blood pressure} \leq 80) \quad /*if diastolic blood pressure \leq 80*/ \\ &)) \end{aligned}$$

$$\begin{aligned} \text{Ischaemic stroke/SE} = & 100^* (1 - (0.987574311)^{\exp(0.233182644^* \text{Heart failure} \\ & + 0.197919709^* \text{Vascular disease} \\ & + 0.800863063^* \text{Prior stroke} \\ & + 0.29883967^* \text{History of bleeding} \\ & + 0.211995445^* \text{Diabetes} \\ & + 0.349516938^* \text{Moderate-to-severe CKD} \\ & + 0.513221391^* \text{Dementia} \\ & + 0.478831506^* \text{Current smoking} \\ & - 0.572199357^* \text{OAC treatment: NOAC} \\ & - 0.352373263^* \text{OAC treatment: VKA} \\ & + 0.039138147^* (\text{Age}-65) \\ & + 0.01590016^* (\text{Diastolic blood pressure}-80)^* (\text{Diastolic blood pressure} > 80) \quad /*if diastolic blood pressure > 80*/ \\ &)) \end{aligned}$$

Major bleeding (incl. Haemorrhagic stroke) = $100 * (1 - (0.991720115)^{\exp(0.168950627 * \text{Vascular disease})})$

+0.782237771*History of bleeding

+0.316245771*Carotid occlusive disease

+0.498686574*Moderate-to-severe CKD

+0.24232543*OAC treatment: NOAC

+0.609713354*OAC treatment: VKA

+0.236620846*AP treatment

+0.176898047*Diabetes

+0.043476276*(Age-65)

+0.004167103*(Pulse-120))

))

Equations for risk of events at 1 year:

All-cause mortality = $100 * (1 - (0.9790643336)^{\exp(-0.306202287 * \text{Female sex})})$

+0.693789082*Heart failure

+0.306120964*Vascular disease

+0.26585298*Prior stroke

+0.385407386*History of bleeding

+0.280133213*Diabetes

+0.377903886*Moderate-to-severe CKD

+0.489453313*Dementia

+0.345481149*Current smoking

-0.414591263*OAC treatment: NOAC

-0.18593561*OAC treatment: VKA

+0.157023564*Ethnicity: Hispanic Latino

-0.609609055*Ethnicity: Asian

+0.375675102*Ethnicity: Black/Mixed/Other

+0.031050027*(Age-65)*(Age<=65) /*if age <=65*/

+0.064594824*(Age-65)*(Age>65) /*if age >65*/

-0.021535182*(Weight-75)*(Weight<=75) /*if weight <=75*/

+0.007678035*(Pulse-120)*(Pulse<=120) /*if pulse <=120*/

-0.019304333*(Diastolic blood pressure-80)*(Diastolic blood pressure <=80) /*if diastolic blood pressure <=80*/

))

Ischaemic stroke/SE = $100 * (1 - (0.9925445321)^{\exp(0.233182644 * \text{Heart failure})})$

+0.197919709*Vascular disease

+0.800863063*Prior stroke

+0.29883967*History of bleeding
 +0.211995445*Diabetes
 +0.349516938*Moderate-to-severe CKD
 +0.513221391*Dementia
 +0.478831506*Current smoking
 -0.572199357*OAC treatment: NOAC
 -0.352373263*OAC treatment: VKA
 +0.039138147*(Age-65)
 +0.01590016*(Diastolic blood pressure-80)*(Diastolic blood pressure>80) /*if diastolic blood pressure >80*/
))

Major bleeding (incl. Haemorrhagic stroke) = $100 * (1 - (0.9946821686)^{\exp(0.168950627 * \text{Vascular disease})})$

+0.782237771*History of bleeding
 +0.316245771*Carotid occlusive disease
 +0.498686574*Moderate-to-severe CKD
 +0.24232543*OAC treatment: NOAC
 +0.609713354*OAC treatment: VKA
 +0.236620846*AP treatment
 +0.176898047*Diabetes
 +0.043476276*(Age-65)
 +0.004167103*(Pulse-120)
))

Equations for risk of events at 6 months:

All-cause mortality = $100 * (1 - (0.987921904)^{\exp(-0.306202287 * \text{Female sex})})$

+0.693789082*Heart failure
 +0.306120964*Vascular disease
 +0.26585298*Prior stroke
 +0.385407386*History of bleeding
 +0.280133213*Diabetes
 +0.377903886*Moderate-to-severe CKD
 +0.489453313*Dementia
 +0.345481149*Current smoking
 -0.414591263*OAC treatment: NOAC
 -0.18593561*OAC treatment: VKA
 +0.157023564*Ethnicity: Hispanic Latino
 -0.609609055*Ethnicity: Asian

+0.375675102*Ethnicity: Black/Mixed/Other
 +0.031050027*(Age-65)*(Age<=65) /*if age <=65*/
 +0.064594824*(Age-65)*(Age>65) /*if age >65*/
 -0.021535182*(Weight-75)*(Weight<=75) /*if weight <=75*/
 +0.007678035*(Pulse-120)*(Pulse<=120) /*if pulse <=120*/
 -0.019304333*(Diastolic blood pressure-80)*(Diastolic blood pressure <=80) /*if diastolic blood pressure <=80*/
))

Ischaemic stroke/SE = 100*(1-(0.9955506465exp(0.233182644*Heart failure

+0.197919709*Vascular disease
 +0.800863063*Prior stroke
 +0.29883967*History of bleeding
 +0.211995445*Diabetes
 +0.349516938*Moderate-to-severe CKD
 +0.513221391*Dementia
 +0.478831506*Current smoking
 -0.572199357*OAC treatment: NOAC
 -0.352373263*OAC treatment: VKA
 +0.039138147*(Age-65)
 +0.01590016*(Diastolic blood pressure-80)*(Diastolic blood pressure>80) /*if diastolic blood pressure >80*/
))

Major bleeding (incl. Haemorrhagic stroke) = 100*(1-(0.9968755499exp(0.168950627*Vascular disease

+0.782237771*History of bleeding
 +0.316245771*Carotid occlusive disease
 +0.498686574*Moderate-to-severe CKD
 +0.24232543*OAC treatment: NOAC
 +0.609713354*OAC treatment: VKA
 +0.236620846*AP treatment
 +0.176898047*Diabetes
 +0.043476276*(Age-65)
 +0.004167103*(Pulse-120))
))