**Demo of Variables in R Programming**

Let’s use the Hagen–Poiseuille equation for “Flow Resistance”

$$R=\frac{8 η l}{πr^{4}}$$

to demonstrate variables in R scripting.

Use a search engine or AI to look up values for

* η: the dynamic viscosity of air
* l: the length of a trachea
* r: the radius of a trachea

Create variables in an R script and assign the values you found.

Then use the formula above to calculate the flow resistance.

Change one or more of the values and then recalculate the flow resistance.