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AIRWAY RESISTANCE

Determinants of airway resistance

There are several important determinants of airway resistance including:

The diameter of the airways Whether airflow is laminar or turbulent Hagen–Poiseuille equation In fluid dynamics, the Hagen–Poiseuille equation is a physical law that gives the pressure drop in a fluid flowing through a long cylindrical pipe. The assumptions of the equation are that the flow is laminar viscous and incompressible and the flow is through a constant circular cross-section that is substantially longer than its diameter. The equation is also known as the Hagen–Poiseuille law, Poiseuille law and Poiseuille equation.

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