

Formelsammlung Physiologie

$$\begin{aligned}
 \rho &= \rho [\text{kg/m}^3] \times c^2 [\text{m/s}^2] \\
 M_{\text{inj}} &= M_{\text{pla}} \cdot \frac{\dot{V} = (P_c + \pi_c - P_v - \pi_v) \times K}{P_{\text{osmol}} = \frac{n}{V} \times R \times T \times c} \\
 V_{\text{inj}} \times K_{\text{inj}} &= V_{\text{pla}} \times K_{\text{pla}} \\
 \text{MCV} (\mu\text{m}^3) &= \frac{\text{Hämatokrit} (\%)/10}{\text{Erythrozytenzahl} (/10^6/\text{mm}^3)} \\
 R &= \frac{\Delta P}{\dot{V}} \quad V_{\text{pla}} = \frac{V_{\text{inj}} \times K_{\text{inj}}}{K_{\text{pla}}} \quad \dot{V} = \frac{\pi \times r^4}{8 \times \eta \times l} \times \Delta P
 \end{aligned}$$