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Tracer kinetic modelling for DCE-MRI quantification of subtle blood–brain barrier permeability

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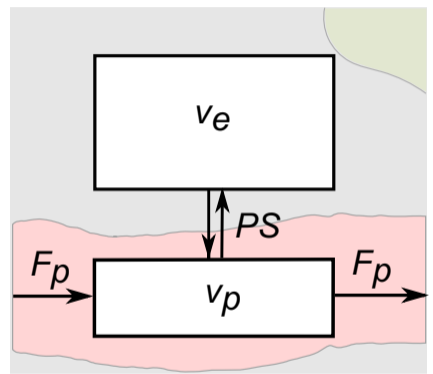
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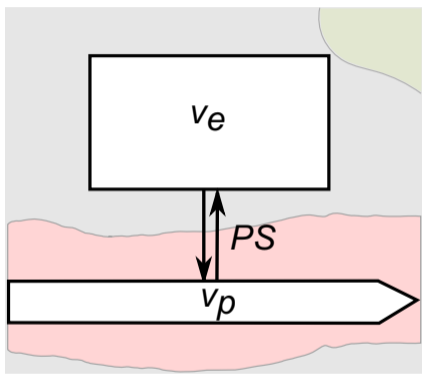
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Two-compartment exchange

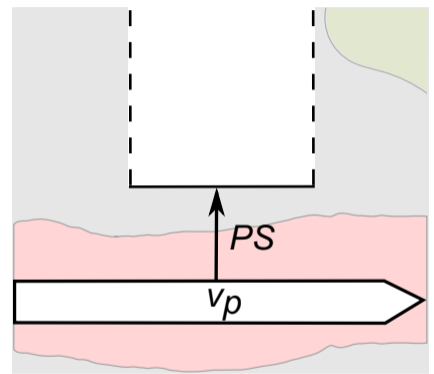


Modified Tofts



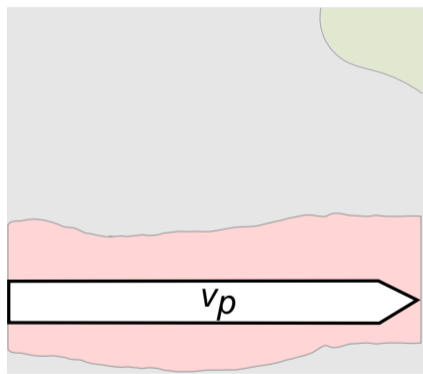
infinite flow ($F_p = \infty$)

Patlak



no backflux ($C_p \gg C_e$)

Steady State



no exchange ($PS=0$ or $v_e=0$)