## Elements: Generic controlled - depot compartment: Ad - central compartment: Ac, V vocabulary for PK - linear elimination, k models - 1st order absorption, ka PharmML **Automatic** translation (always possible) $\frac{dAd}{dt}$ = -ka Ad $\frac{dAc}{dt} = ka Ad - k Ac$ System of C = Ac/V**ODEs Expert knowledge** (solution doesn't always exist) Analytic $C(t) = \frac{D}{V} \frac{k}{ka - k} (\exp(-k^*t) - \exp(-ka^*t))$ solution

