Proposed hazard functions for HIV-HCV co-infection model

Having HIV increases risk for HCV.

<u>Updated hazard for HIV transmission</u>

 $hazard = exp(a + bV^{-C} + d_1P_{HIV-infected} + d_2P_{HIV-uninfected} + Wf_1exp(f_2(A_{woman}(t_{ry}) - A_{debut})) + gM + hH)$

M = indicator for a person of being male

H = indicator for a person of being HCV infected

<u>Updated hazard for HCV transmission</u>

hazard = $exp(a + b(t - t_{infected}) + c_1P_{HIV-infected} + c_2P_{HIV-uninfected}))$