

$$P(V > t) = P(\log(V) > \log(t)) = P(-X^T \gamma + \epsilon > \log(t)) = P(\epsilon > \log(t) + X^T \gamma) = \exp(-N(\log(t) + X^T \gamma))$$

$N(t)$  cumulative hazard of  $\nu(t)$

Therefore hazard is

$$-D_t \log(S_v(t)) = D_t(N(\log(t) + X^T \gamma)) = \frac{1}{t} \nu(\log(t) + X^T \gamma)$$