

Define  $b_2 t_i = \mathbb{E}_{\{i\} \rightarrow \{i\}} [\alpha_i a_i + \beta_i (\epsilon a_i - t_i) / \gamma + \xi_i x_i + \eta_i y_i]$ ,

$t_2 b_i = \mathbb{E}_{\{i\} \rightarrow \{i\}} [\alpha_i a_i + \tau_i (\epsilon a_i - \gamma b_i) + \xi_i x_i + \eta_i y_i]$