Model No.	$\lambda_{t,s}$ *and* π_s
Model 1	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s$
Model 2	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_2\ \text{GPclinic}_s$
Model 3	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s$
Model 4	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s$
Model 5	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + +\beta_2\ \text{GPclinic}_s$
Model 6	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s$
Model 7	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s$
Model 8	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + +\beta_2\ \text{GPclinic}_s$
Model 9	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s$
Model 10	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s$
Model 11	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + +\beta_2\ \text{GPclinic}_s$
Model 12	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_4\ \text{AccessDifficulty}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s$
Model 13	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 14	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 15	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 16	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 17	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 18	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_2\ \text{hhsize}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 19	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 20	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 21	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \alpha_3\ \text{homeless}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 22	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 23	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_2\ \text{GPclinic}_s + \beta_3\ \text{AccessDifficulty}_s$
Model 24	$\lambda_{t,s} = \log(\text{Pop}_{t,s}) + \alpha_0 + \alpha_1\ \text{seifa}_s + \phi_s + \theta_s + f(t)$ $\pi_s = \beta_0 + \beta_1\ \text{GP}_s + \beta_3\ \text{AccessDifficulty}_s$