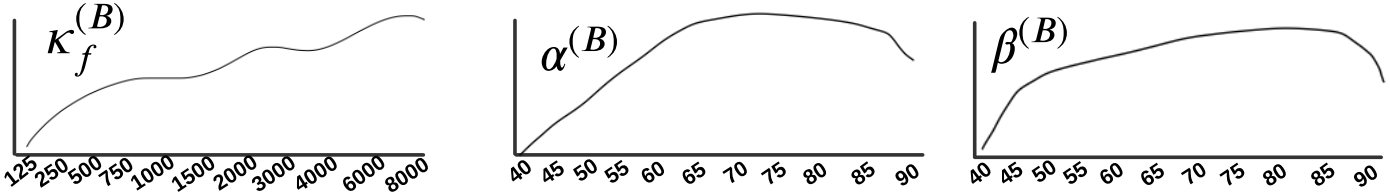
Baseline Model

$$\pi_f = \alpha^{(B)} + \beta^{(B)} \kappa_f^{(B)} + \epsilon_f^{(B)}$$
$$\kappa_f^{(B)} = \theta^{(B)} + \phi_1^{(B)} \kappa_{f-1}^{(B)} + \omega_f^{(B)}$$

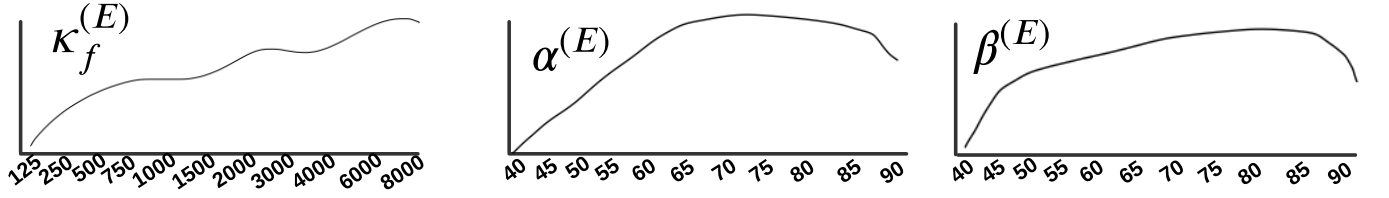
Baseline Model Ouput



Extended Model

$$\tilde{\pi}_f = \alpha^{(E)} + \beta^{(E)} \kappa_f^{(E)} + \gamma_{(Q)}^{\intercal} \pi^{(Q)} + \gamma_{(N)}^{\intercal} \pi^{(N)} + \epsilon_f^{(E)}$$
$$\kappa_f^{(E)} = \theta^{(E)} + \phi_1^{(E)} \kappa_{f-1}^{(E)} + \omega_f^{(E)}$$

Extended Model Ouput



Inference Procedures

PS1

$$H_0 : \Theta(\mathcal{M}_{\mathrm{B},d,h}) = \Theta(\mathcal{M}_{\mathrm{B},d',h'})$$
$$H_1 : \Theta(\mathcal{M}_{\mathrm{B},d,h}) \neq \Theta(\mathcal{M}_{\mathrm{B},d',h'})$$

$$H_0 : \Theta(\mathcal{M}_{\mathrm{E},d,h}) = \Theta(\mathcal{M}_{\mathrm{E},d',h'})$$
$$H_1 : \Theta(\mathcal{M}_{\mathrm{E},d,h}) \neq \Theta(\mathcal{M}_{\mathrm{E},d',h'})$$

PS2

$$H_0 : \Theta(\mathcal{M}_{\mathrm{B},d,h}) = \Theta(\mathcal{M}_{\mathrm{E},d',h'})$$
$$H_1 : \Theta(\mathcal{M}_{\mathrm{B},d,h}) \neq \Theta(\mathcal{M}_{\mathrm{E},d',h'})$$

⇩

Overall Population | **By PTA Category** | **By Sex**