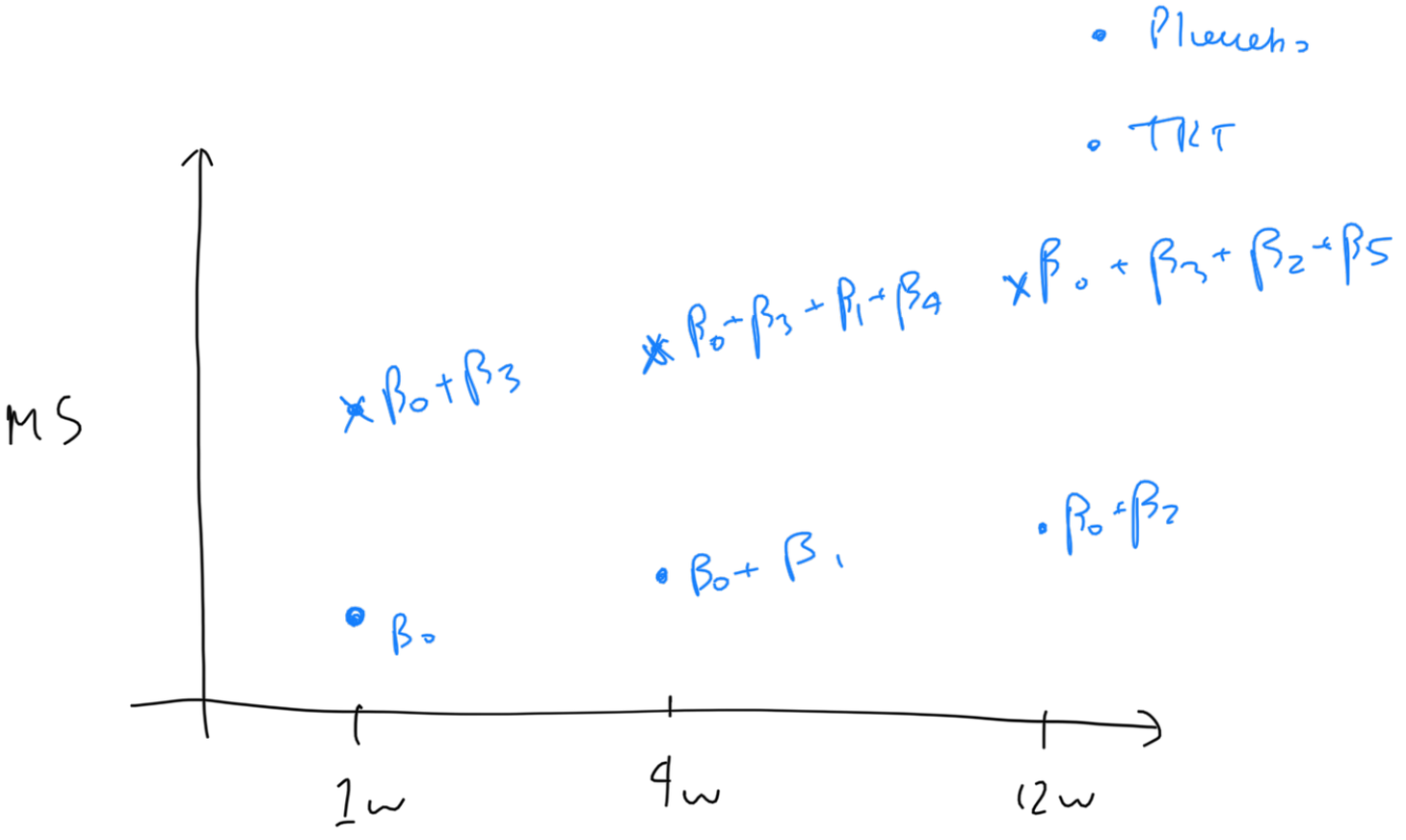
$$E = \beta_0 + \beta_1 \times \text{Time } 4 + \beta_2 \times \text{Time } 12 + \beta_3(\text{Trt} = \text{"Drug"}) + \beta_4 + \beta_5$$



$E[w=4, \text{TRT} = \text{Drug}] = \beta_0 + \beta_1 + \beta_3 + \beta_4$

$E[w=4, \text{TRT} = \text{Cond}] = \beta_0 + \beta_1$

To test no difference in mean change from bl to 4 weeks between groups we need to

see if $\beta_3 = \beta_4 = 0$

Change from 4 to 12 weeks

$$E[w=12 \mid TVA = Drug] - E[w=4 \mid TDT = Drug] =$$

$$(\beta_0 + \beta_2 + \beta_3 + \beta_5) - (\beta_0 + \beta_1 + \beta_3 + \beta_4) =$$

$$(\beta_2 + \beta_5) - (\beta_1 + \beta_4) = (\beta_2 - \beta_1) + (\beta_5 - \beta_4)$$

$$E[w=12 \mid TDT = Control] - E[w=4 \mid TDT = Control] =$$

$$(\beta_0 + \beta_2) - (\beta_0 + \beta_1) =$$

$$\beta_2 - \beta_1$$

Test if $\beta_5 = \beta_4 = 0$.

$$\text{logit}\left[P(Y_{ij})\right] = 0.1676 - 0.3238 \times \text{Post} - \beta_1$$
$$- 0.1599 \times \text{IC group} + \beta_2$$
$$\underline{1.0073 \times \text{Post} \times \text{IC group}}\ \beta$$

Post = 1.

IC group = 1 or 0.

$$\log\left[\frac{P(Y_{ij}=1)}{1-P(Y_{ij}=1)} \,\middle|\, \text{Post}_{ij}=1,\ \text{Trt}_{ij}=1\right]:$$

$$= 0.1676 - 0.3238 - 0.1599 + 1.0073.$$

$$\log\left[\frac{P(Y_{ij}=1)}{1-P(Y_{ij}=1)} \,\middle|\, \text{Post}_{ij}=0,\ \text{Trt}_{ij}=1\right] =$$

$$= 0.1676 - 0.1599$$

$$\Rightarrow \log[\ldots \mid \text{Post}=1] - \log[\ldots \mid \text{Post}=0]$$

$$= -0.3238 + 1.0073$$

need $\text{Cov}(\beta_1, \beta_3)$

$$\exp(\text{logit}[p]) = \exp(\beta_0 + \beta_1 + \beta_2 + \beta_3)$$

$$\frac{p}{1-p} = \exp^{\beta_0 + \beta_1 + \beta_2 + \beta_3}$$

$$\frac{p}{1-p} = e^{\beta_0 + \beta_1 + \beta_2} \cdot \underbrace{e^{\beta_3}}$$