p(yld) d

Prediction

Let  $\vec{y} = \{y_1, \dots, y_n\}$  be n outcomes from a pop'n.

Let y be an additional outcome from the same popin.

Predict Y: posterior predictive distr."

 $p(\vec{g}|\vec{g}) = \int p(\vec{g}, \theta|\vec{g}) d\theta$ 

· law of total

p(g/g) = Sp(g/0) p(0/g) de

Remember: y is just a #. We view p(g10)

as a function of O.

If I say p(g10) = g(0)

then I have:

Sglerplaig) de posterior expectation! TE gler) ly