

$$P_{S_{\bar{c},a}|S_{\bar{c},\bar{a}}}^{\oplus} = P_{e/S_{\bar{c},\bar{a}}}^{\oplus} P_{a/S_{\bar{c},\bar{a}}}^{\oplus} + (1 - P_{e/S_{\bar{c},\bar{a}}}^{\oplus}) P_{a/S_c}$$

