$$f_a \sim \mathcal{U}(0.1,0.4), \quad a=1,2,\ldots,7$$
 For $a=1,2,\ldots,7$ For each $i\in\mathcal{I}$ $X_{ia}^{ ext{int}} \sim B^{-1}\left(Y_{ia}^{ ext{unif}}; n=2, p=f_a
ight)$