

Methods ▪ Transmission Rate

- Infection of patient
 - HCW's hands are colonized with the pathogen
 - For each 30 second contact with patient, infect patient with probability p
- Colonization of HCW (by patient)
 - Patient is infected
 - For each 30 second contact with patient, colonize HCW with probability p
- Colonization of HCW (by environment)
 - Each time HCW leaves a patient room, colonize HCW with probability ϵ
- Per-contact transmission rate of MRSA is not known
- Range of p values were used which includes values used in prior work^{2,3}
- ϵ values are not well studied, we varied them over a wide range