Random vaccination on scale-free graph $(\beta = 3.00e-03, \gamma = 1.00e-03, R_0 = 3.00, n=5.00e+02, m=1.00e+01$ 400 q = 0.10350 q = 0.20g = 0.30300 number of infected q = 0.39250 q = 0.49g = 0.59200 q = 0.69150 q = 0.78g = 0.88100 q = 0.9850 0 500 1000 1500 2000 2500 3000 time t