JAGS Land y: ~N(gi, T) T= to precision gi= Bo+Bix; + bici] by - N(0, Tb) The only Bo ~N(0, 1000) B ~ N(0, 1000) 02-Unif(0,1000) Jo2 - Unif(0,1000) lboping through each chservation looping through each group bj - N(O, 52) Bo-NCO, .001) B, ~ N(O, 100T) To de o ~ Unif(0, 1000) Tb = 1/8,2 Tb ~ Unif(0,1000)

Baseball example Typical 4: = Bo+ B, age; + B2 age; + b, cij + 2; p. ~ N(0, 0, 2) 5: ~ N(0, 02) JAGS Land y: ~N(gi, t) Bo-N(0, 1000) B, ~N(0, 1000) To the B2~ N(0,1000) gi= Bo+ B, age; +Bz age; + bzi] 02 ~ Unif (0, 1000) b ~ N(0 %) Jp 2~ Unif(0,1000) Tb = 2 model { for (i in 1:N) { 4: -N(9i, 3) y [i] ~ drorm ( y hot [i], tou-y) yhat - beta + betal \*al [i] + beta 2 a Z [c] + b g [i] g = Bo + B/o]; Bea for (j in 1:J) { 65,7 ~ drorm(0, tau-6) Beta 0 - dnorm (0, .001) betal -dnorm(0,001)

beta 2 - dnorm(d, 001)