(X, Y) ~ bivariate normal X~N(N, 6"), Y~N(N2, 622) cov(X,Y)=612=621 XIY~N(N+6,2622(Y-N2), 6,1-6,2622621) var (XIY) = 611 (1-p2) P(B) = E[P(BIX)] var (X) = ELX2] - LEXIZ Mirred - residual, whin subject variance

var (\(\frac{\gamma_i}{2i}\) = cov (\(\frac{\gamma_i}{160}\)) = Ri (usually &\frac{\gamma_i}{160}\)

(variance from the subject-specific mean - between - subject variance; cov(bi) = 6 Var (Yij) = Zij G Zij + Rij Cov (Yij, Yik) = Zij G Zik + Rijk - Total Variance et one duster: \$i = cov(Yi) = ZiGZi+Ri between + w/in ICC: O correlation of observations whin a cluster Opposition of total variation due to var between clusters

