bayesian updating



Dr. Mine Çetinkaya-Rundel

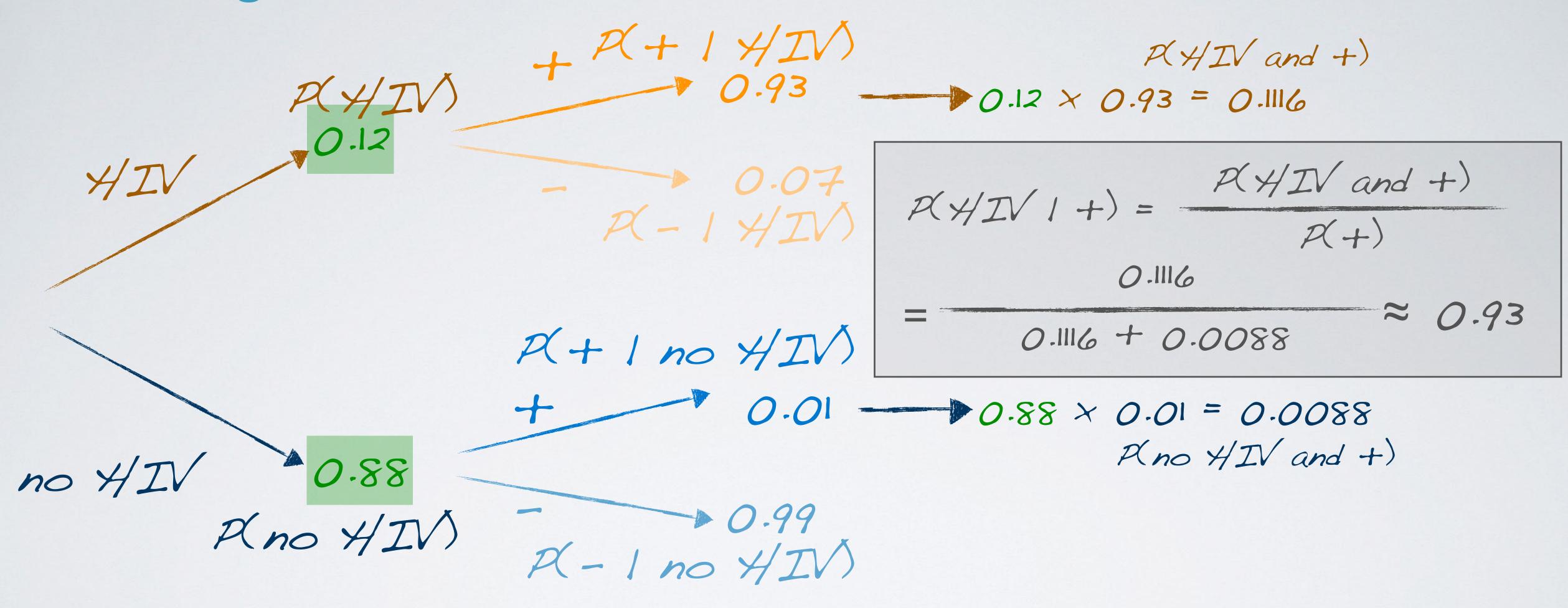
early HIV testing in the military

- In first screen with ELISA
- if positive, two more rounds of ELISA
- if either positive, two Western blot assays
- only if both positive, determine HIV infection

retesting

Since a positive outcome on the ELISA doesn't necessarily mean that the recruit actually has HIV, they are retested. What is the probability of having HIV if this second ELISA also yields a positive result?

retesting



summary

- Individual vs. group diagnostics
- updating only the prior vs. also updating sensitivity and specificity
- Bayesian updating