

21 Mar 2022

1st draft due Friday .

MALARIA CONTROL

vector control

- landscape change
(draining wetland)
- biocontrol -
e.g. *Gambusia*
- insecticides .
residual indoor spraying .
(DDT)
↳ 6-7 years
until resistance
- treated bednets

↳ AVOIDANCE .

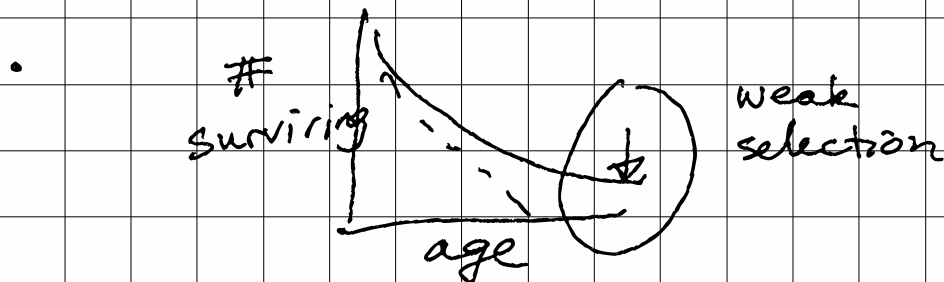
improved housing -

VACCINES? 40% efficacy...

VECTOR CONTROL

- insecticide
(OK until resistance occurs)
- sterile male release
 - ↳ Irradiation
 - ↳ Wolbachia
 - ↳ cytoplasmic incompatibility
- gene drive
 - reduce vector competence
 - shift sex ratios toward males

MEDAWAR evolution of senescence



- neutral/weak selection
- PLEIOTROPY