Cross sick female fly with wild type male and get 343/350 progeny dead embryos. The escapers grow up to become fertile adults. You cross rare escaper males $X$ escaper females and all offspring are wild type. How can this be?

Could be maternal effect lethal gene (lethality not fully penetrant.)

\[
\text{let}^+/\text{let}^+ \text{ male } \times \text{let}^-/\text{let}^- \text{ female }
\]

\[
\text{let}^+/\text{let}^- \text{ offspring, most die, few survive }
\]

\[
\text{cross F}_1 \text{ escapers }
\]

all wild type phene because mom heterozygous

Could it be extranuclear inheritance? No, these would die.

Could it be sex linkage? No (male F1s would die)

Could it be genomic imprinting? No, 1/2 of these die