Analytical Solutions vs Tau-leaping Eq1: All neutral (Analytical) Eq2: APC advantage (Analytical) 10-2 ++++++++++ Eq3: APC & KRAS advantage (Analytical) Tau-leaping (Both advantage) Tau-leaping (KRAS neutral) Reported lifetime risk (0.6%) 10^{-4} Probability of malignancy 10^{-6} ×××××× 10^{-8} 10-10 -10-12 30 20 40 50 60 70 80 Age (years)