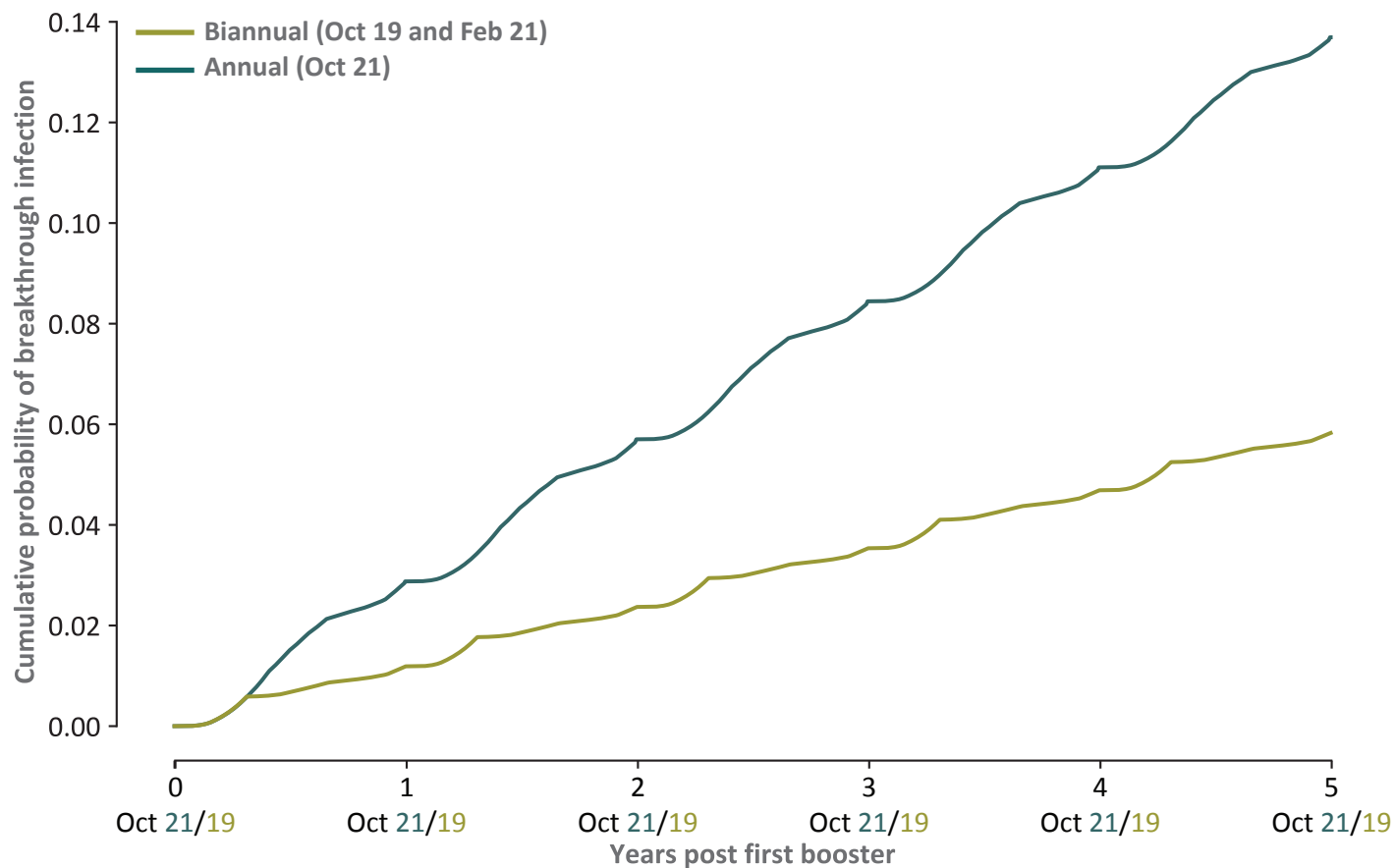


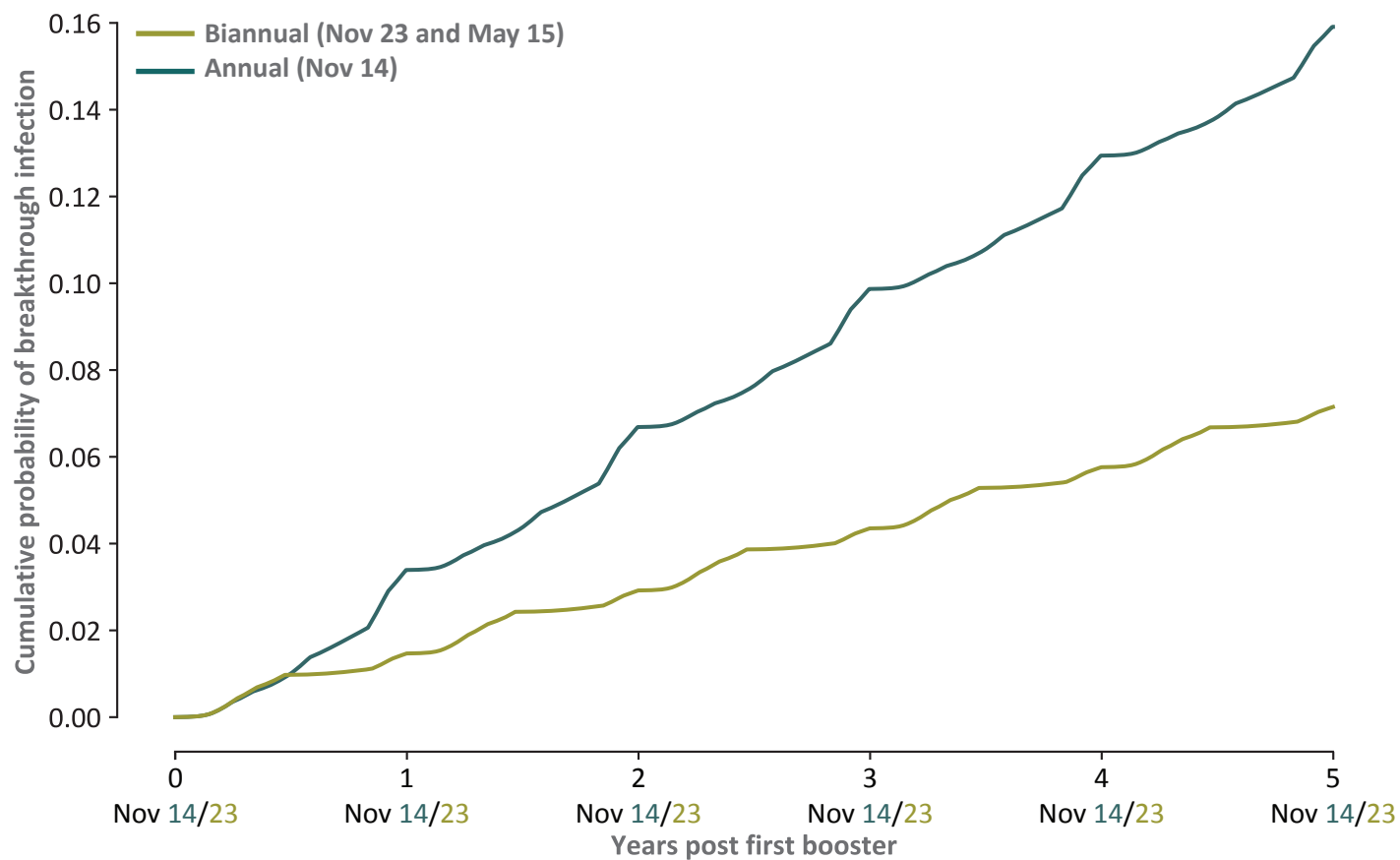
STOCKHOLM, SWEDEN

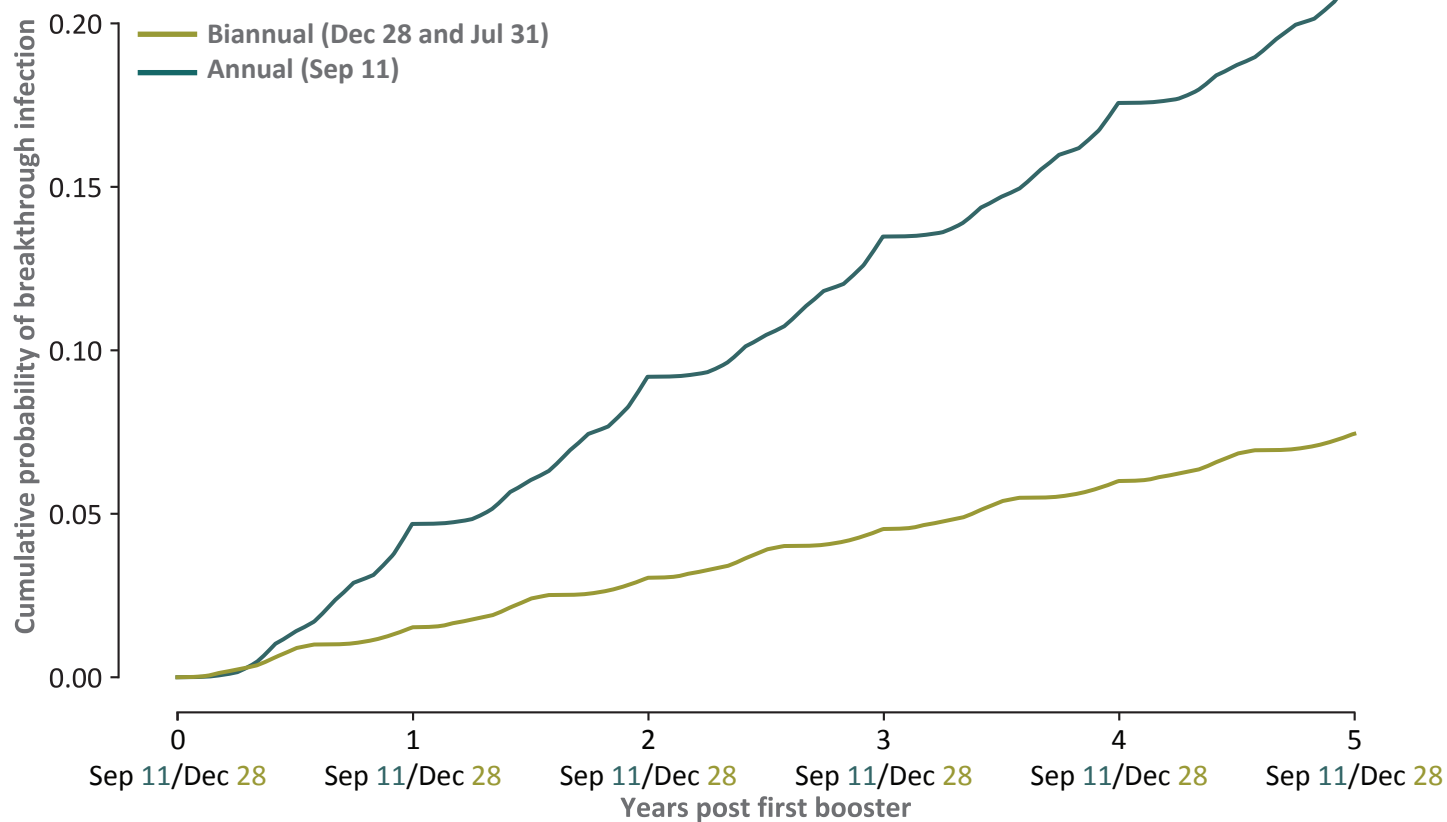
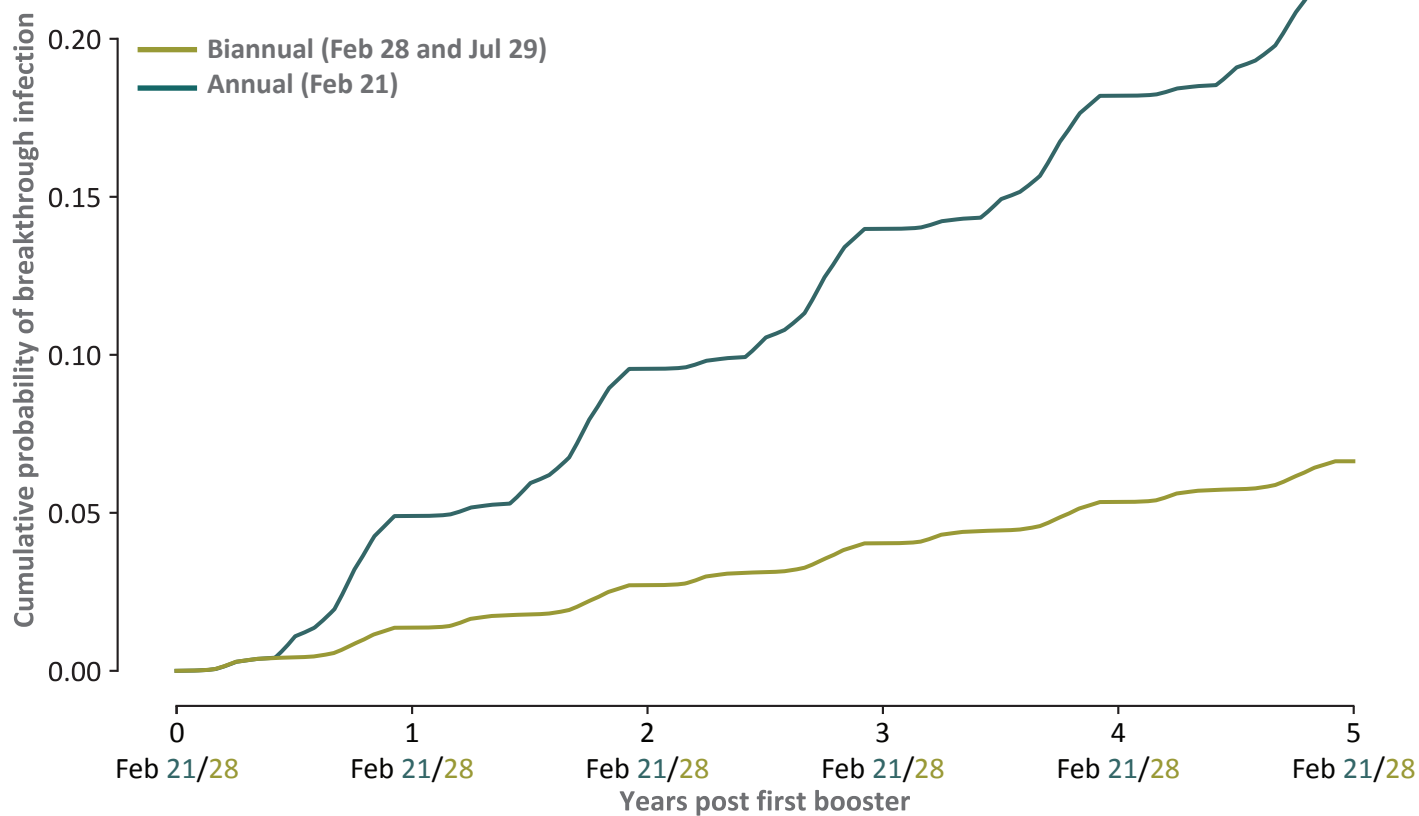
A

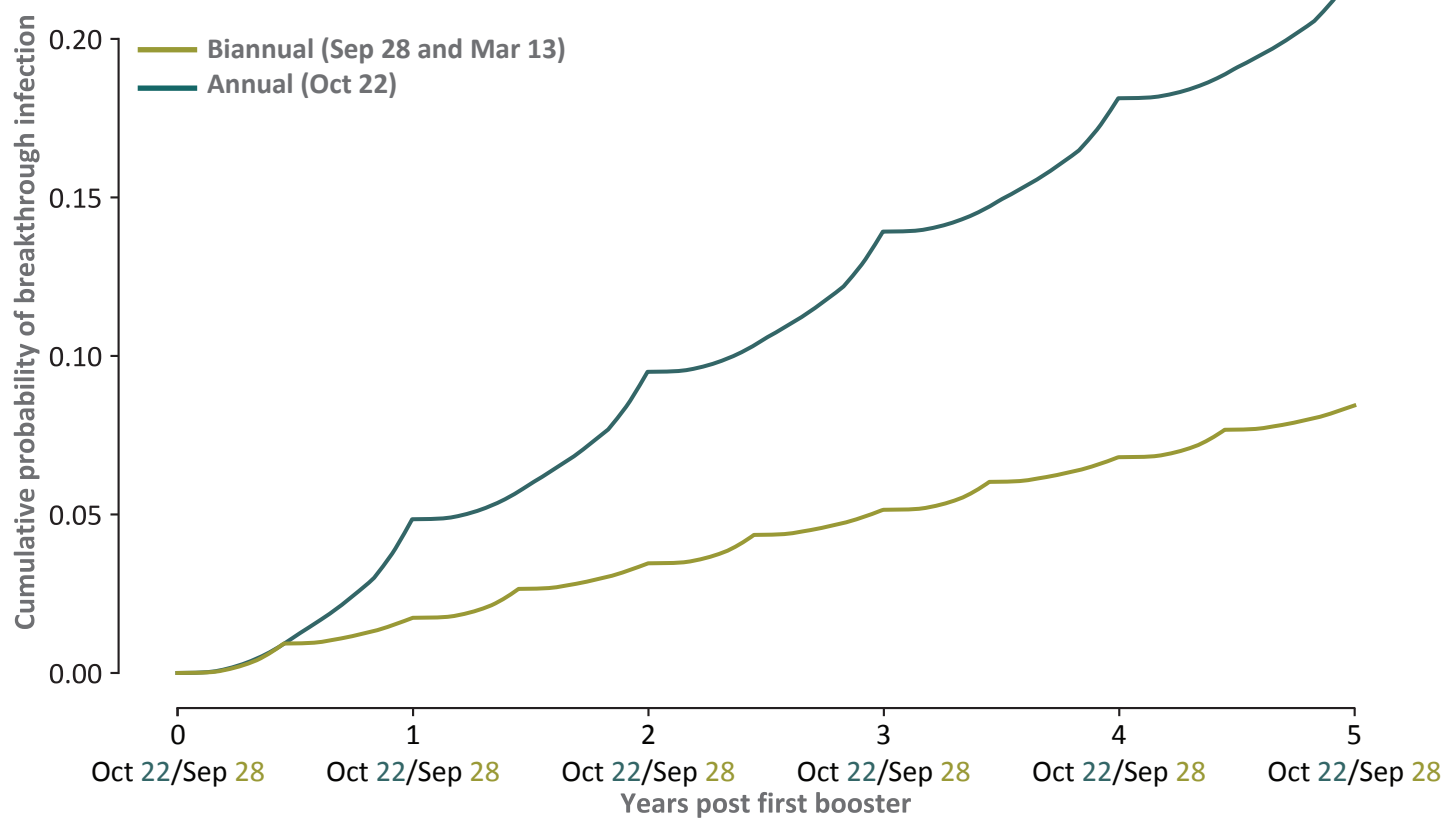
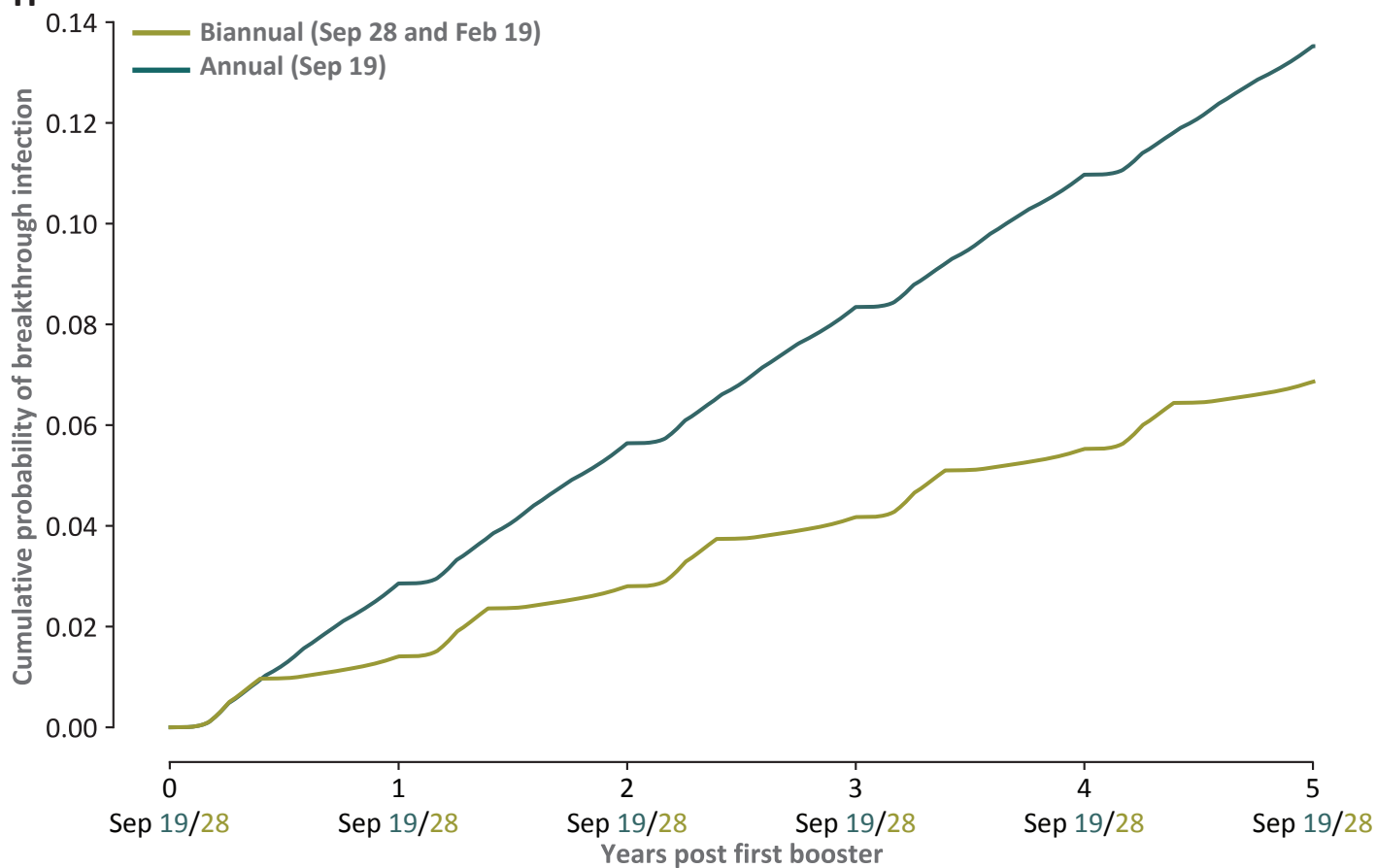


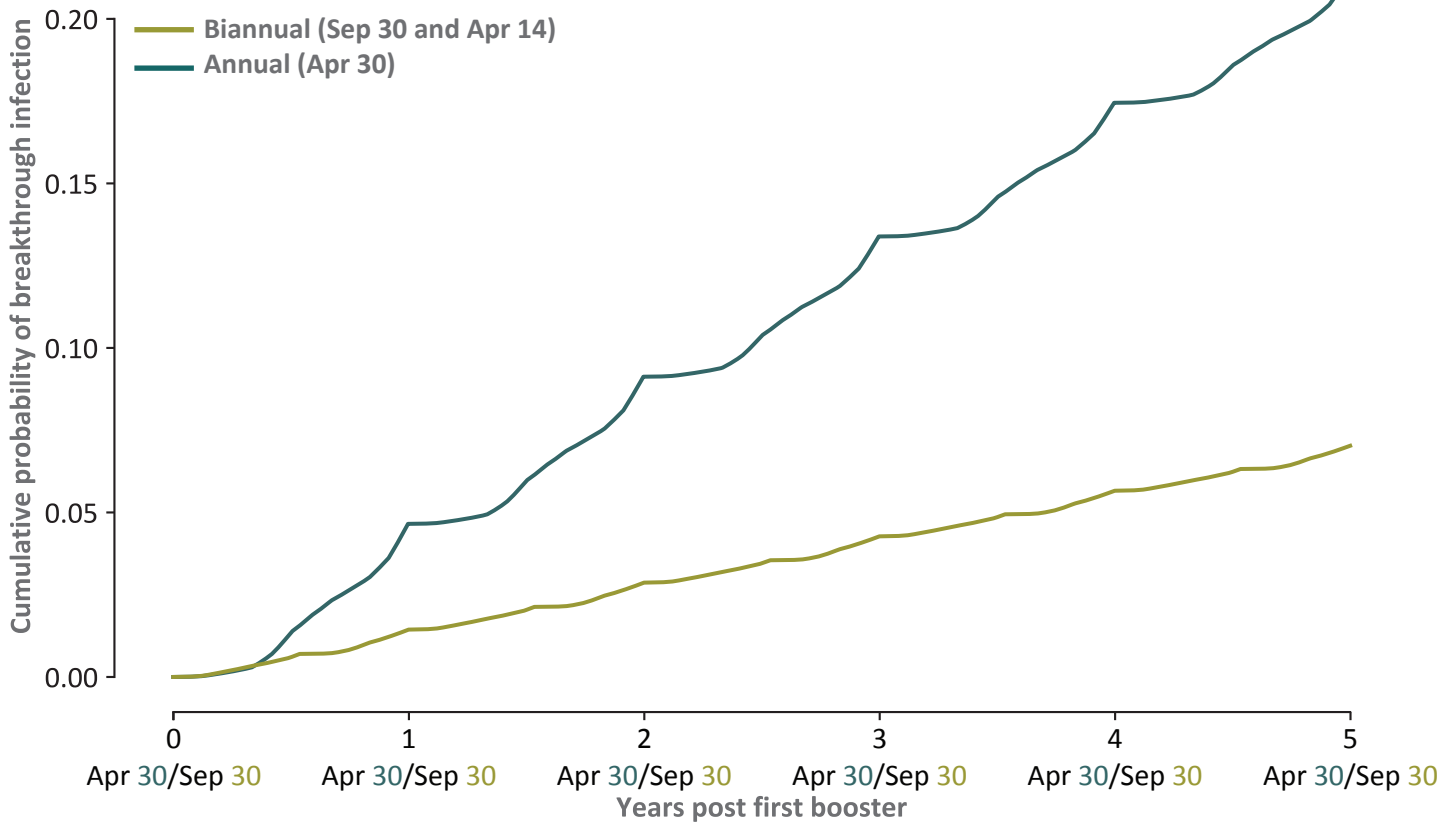
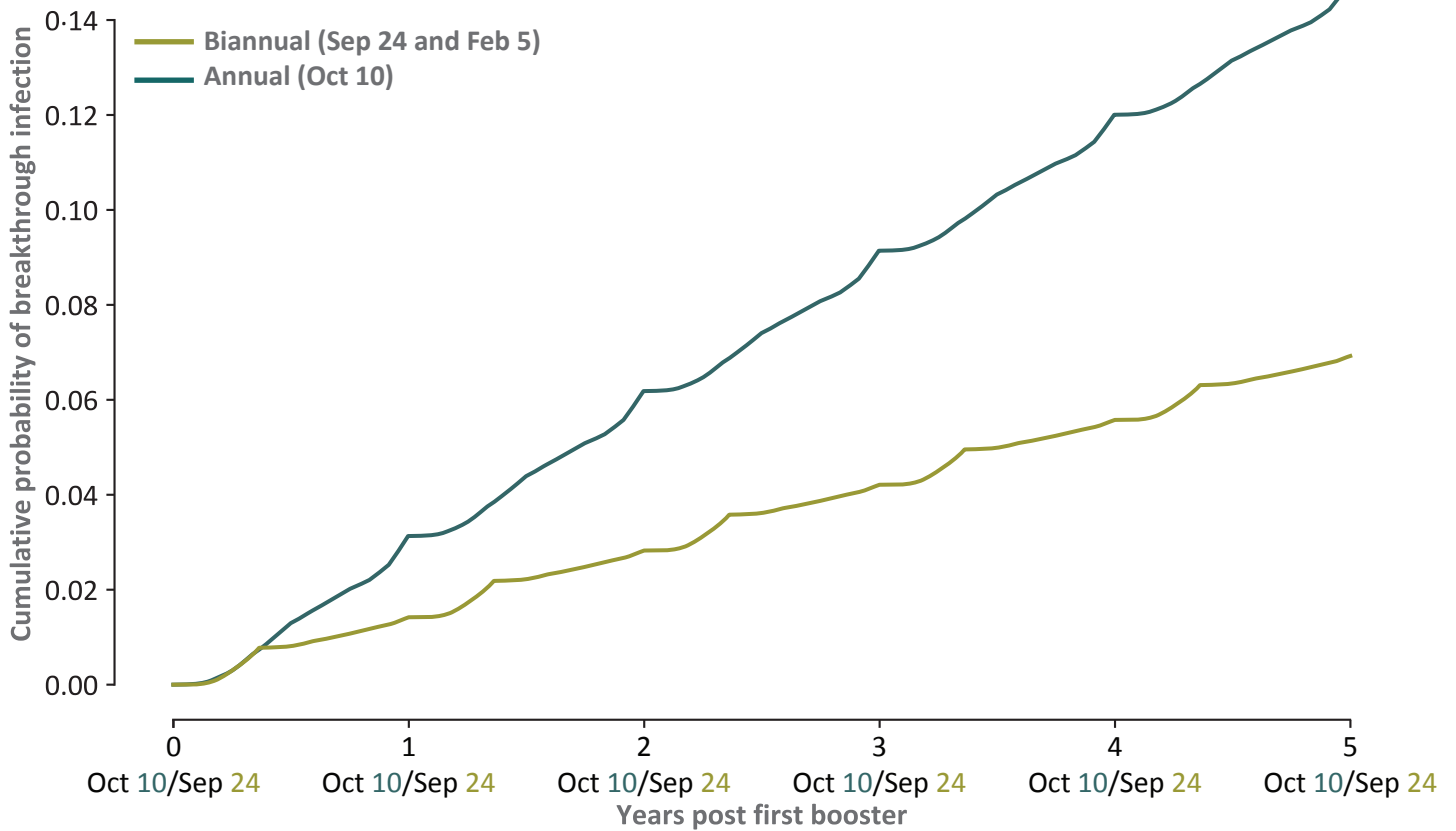
GOTHENBURGH, SWEDEN

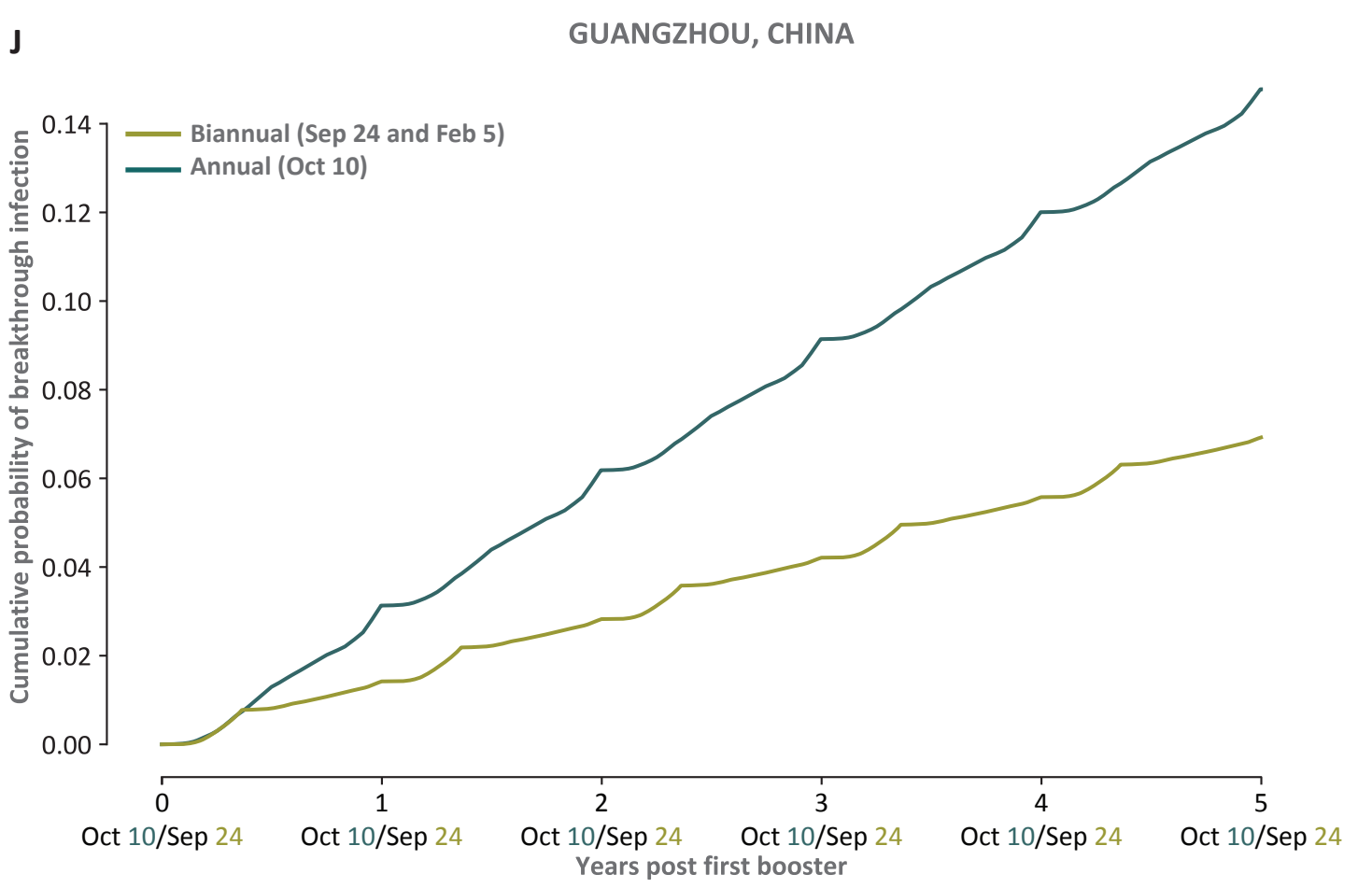
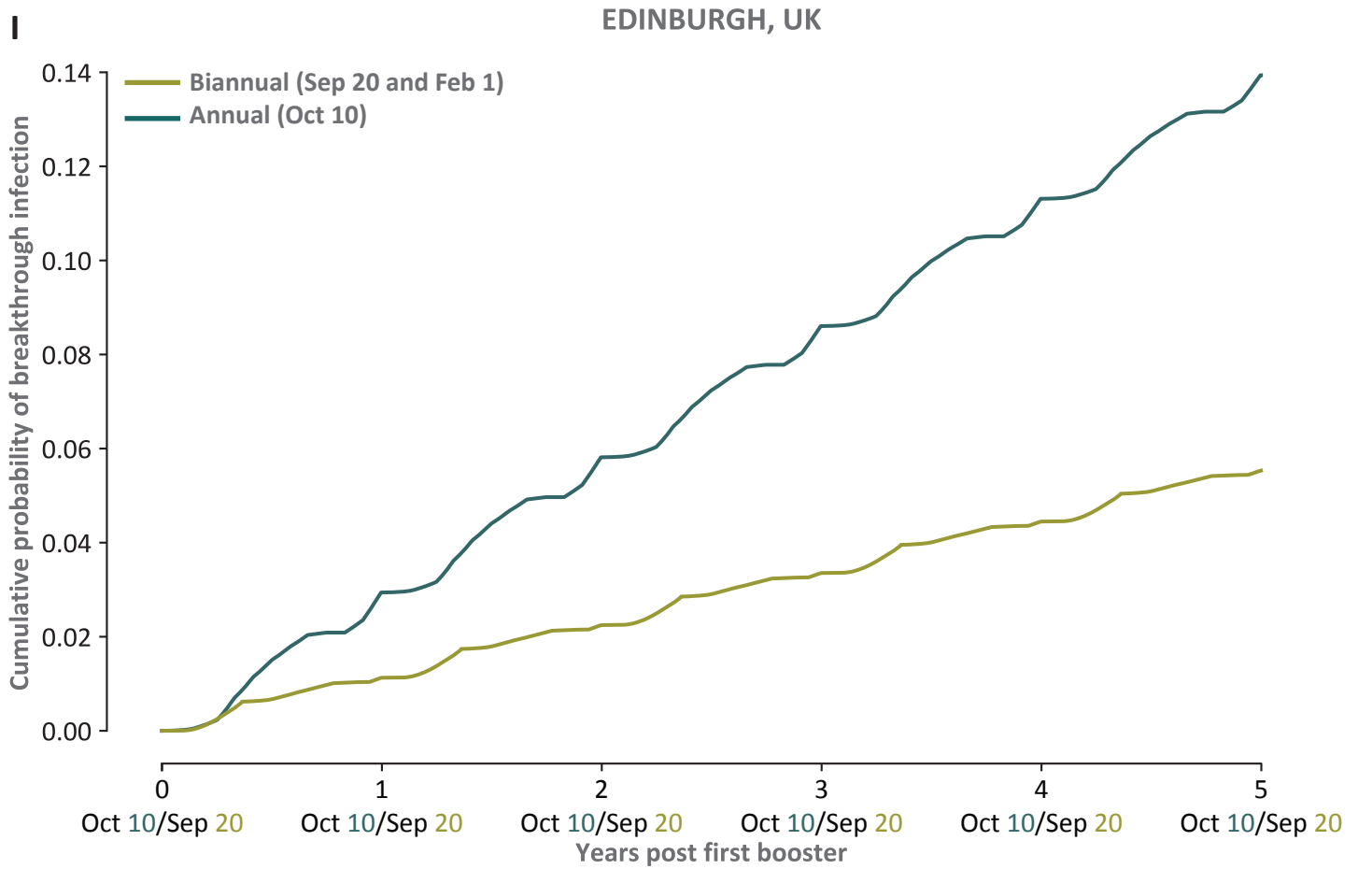
B



C**NEPAL****BEERSHEBA, ISRAEL****D**

G**AMSTERDAM, NETHERLANDS****H****SOUTH KOREA**

E**NEW YORK CITY, 2024****F****TRØNDELAG, NORWAY**



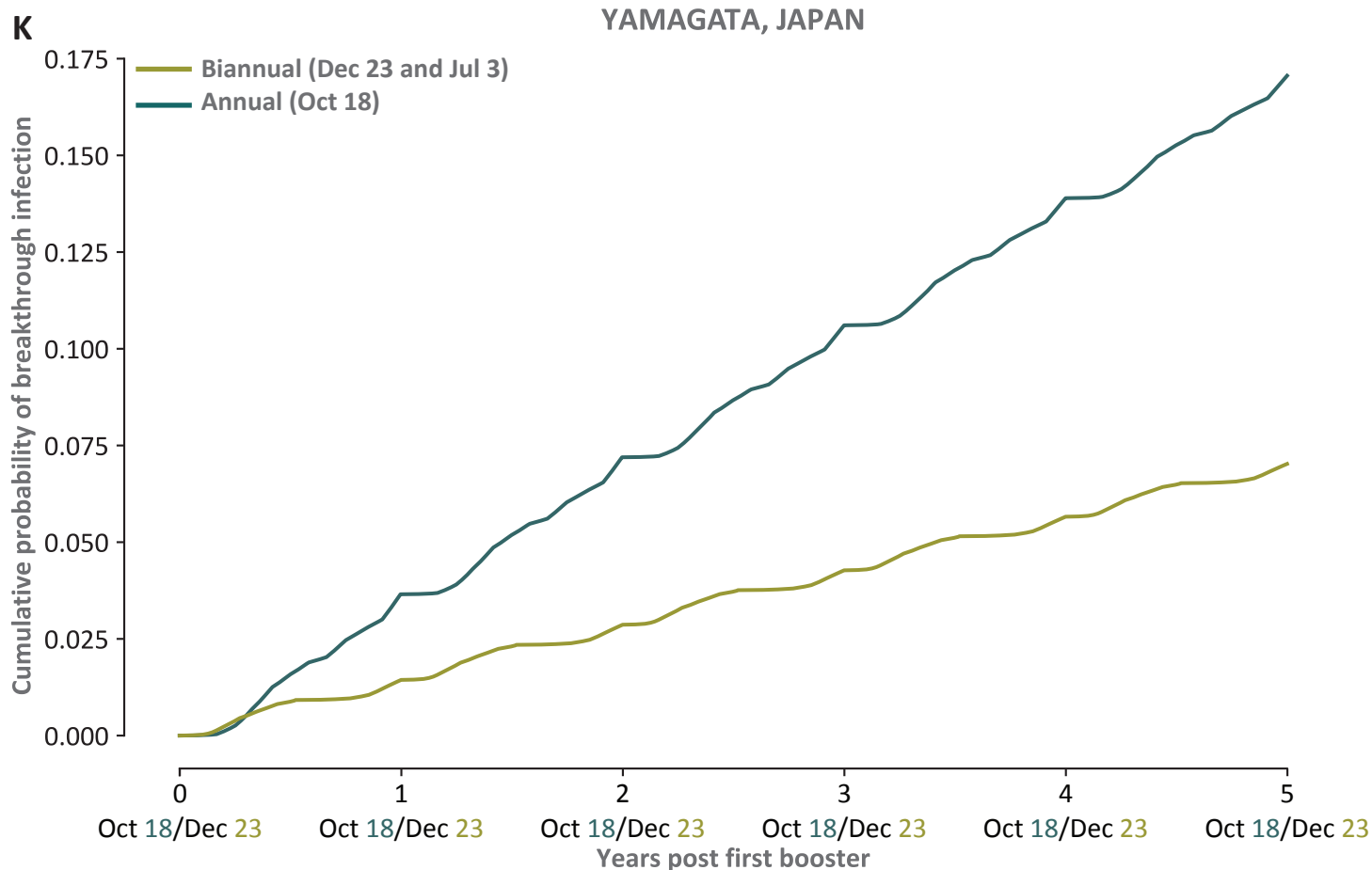


Figure S2. Cumulative probabilities of breakthrough infection over five years, with optimal annual boosting (dark teal) and with optimal biannual boosting (green) for **A.** Stockholm, Sweden; **B.** Gothenburg, Sweden; **C.** Nepal; **D.** Beersheeba, Israel; **E.** New York City in 2024; **F.** Trøndelag, Norway; **G.** Amsterdam, Netherlands; **H.** South Korea; **I.** Edinburgh, UK; **J.** Guangzhou, China; **K.** Yamagata, Japan.