

COVID-19 Scenario Modeling Hub Supplementary Report

26 June, 2024

Scenario Modeling Hub Team¹

Overview

In a new round of projections, the Scenario Modeling Hub evaluated the trajectory of COVID-19 during April 28, 2024 to April 26, 2025 (52-week horizon), under 6 scenarios about the extent of immune escape of circulating variants (50% vs 20% annually) and the annual uptake of reformulated boosters (i) minimal uptake, ii) high-risk group uptake, where vaccination is recommended for individuals under 65 yrs with high-risk conditions and those over 65 yrs, with vaccination coverage mirroring reported levels in these groups in 2023-24, or iii) universal uptake corresponding to 2023-24 coverage levels in the entire US population). Nine teams contributed both national and state-specific projections. Detailed scenario descriptions and setting assumptions are provided [here](#).

Key Takeaways from the Eighteenth Round

- Based on the national ensemble, COVID-19 hospitalizations are projected to remain at low levels throughout spring, rise in summer and fall, and peak in late December 2024-early January 2025. Summer COVID-19 activity is projected to be more pronounced in high-immune escape scenarios. Peak size is projected to be broadly similar to last year in the all vaccinated, high immune escape scenario (Scenario F). Throughout the projection period, weekly hospitalizations are likely to remain below high hospital admission levels even in the high immune escape scenarios (>20 weekly hospitalizations per 100,000, as defined by the CDC).
- The two vaccination strategies considered would significantly reduce disease burden compared to no vaccination, irrespective of immune escape assumptions. Under low and high immune escape scenarios, vaccination of high-risk groups reduces hospitalizations by 11% and 8%, and deaths by 13% and 10%; targeting all ages reduces hospitalizations by 15% and 11%, and deaths by 16% and 13%, compared to no vaccination. In absolute numbers vaccinating high-risk groups would result in 76,000 (34,000-118,000) fewer hospitalizations and 7,000 (3,000-11,000) fewer deaths nationally over the projection period in high immune escape scenarios, compared to no vaccination. Expanding vaccination to all ages increases these reductions to 104,000 (55,000-153,000) hospitalizations and 9,000 (4,000-14,000) deaths under high immune escape assumptions. Reductions in numbers of deaths and hospitalizations are similar in low immune escape scenarios. Expanding vaccination to all ages would prevent an extra 28,000 hospitalizations and 2,000 deaths compared to vaccination targeted at high risk groups.
- The majority of the hospitalization and death burden of COVID-19 is expected to occur in individuals 65+ (51–62% of hospitalizations and 84–87% of deaths across all scenarios); as a result the majority of the overall vaccination benefits (i.e., direct and indirect effects) is expected to come from reductions in this age group. Yet, individuals of all ages are projected to see moderate indirect benefit from a universal vaccine recommendation. Indirect effects are projected to reduce disease burden by 6–7% in those under 65+ (representing savings of ~19,000 hospitalizations and ~600 deaths) and 3–4% in those over 65 (representing ~11,000 hospitalizations and ~1,000 deaths averted; comparison of universal vs high-risk scenarios).
- In the worst case scenario (B, high immune escape, no vaccination), we project 931,000 cumulative hospitalizations by the end of the season (95% PI 0.5–1.3 million) and 62,000 deaths (95% PI 18,000–115,000). In the best case scenario (E, low immune escape, all age vaccination) we project 550,000 hospitalizations (95% PI 296,000–832,000) and 42,000 deaths (95% PI 13,000–72,000).
- A few caveats are worth noting:
 - We assumed the VE of reformulated boosters would be 75% against hospitalization at the time of delivery in September 2024. The effectiveness of reformulated boosters against existing and

¹Compiled by Sung-mok Jung, Lucie Contamin, Shaun Truelove, Cécile Viboud, and Justin Lessler.

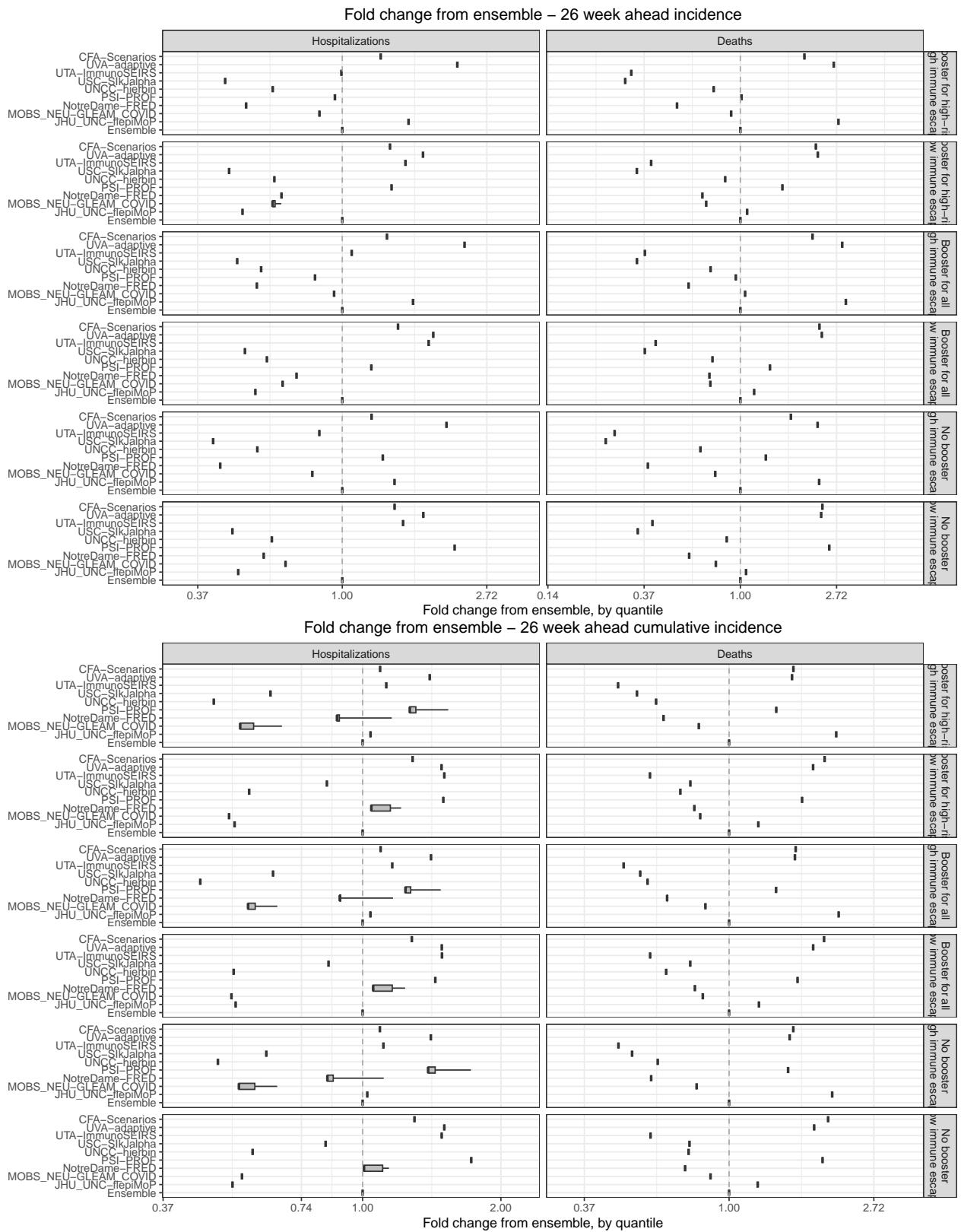
new variants remains unclear, as does the pace of waning after multiple booster shots and repeat infections.

- We assumed continuous immune escape rather than discrete variants, mirroring observations of evolutionary changes in the last year. We did not consider the impact of a significant new variant that would have accumulated a large amount of antigenic changes over a very short period, nor increase in transmissibility (akin to Delta or Omicron variants). We also assumed that the intrinsic severity (i.e., severity in naive populations) of future circulating strains would remain similar to that of the Omicron lineages.
- There is considerable heterogeneity between states and between individual models in seasonality and vaccine effects. In particular, a more pronounced peak of summer COVID-19 activity is projected in Southeastern and middle Atlantic states.
- As in prior rounds, hospitalizations from HHS protect were used for calibration of the hospitalization outcome; however the pause of the HHSprotect system as of May-15 will make comparison of projections with observations difficult.
- A few models projected zero deaths throughout the projection period for smaller states and were excluded from state-level meta-analyses.

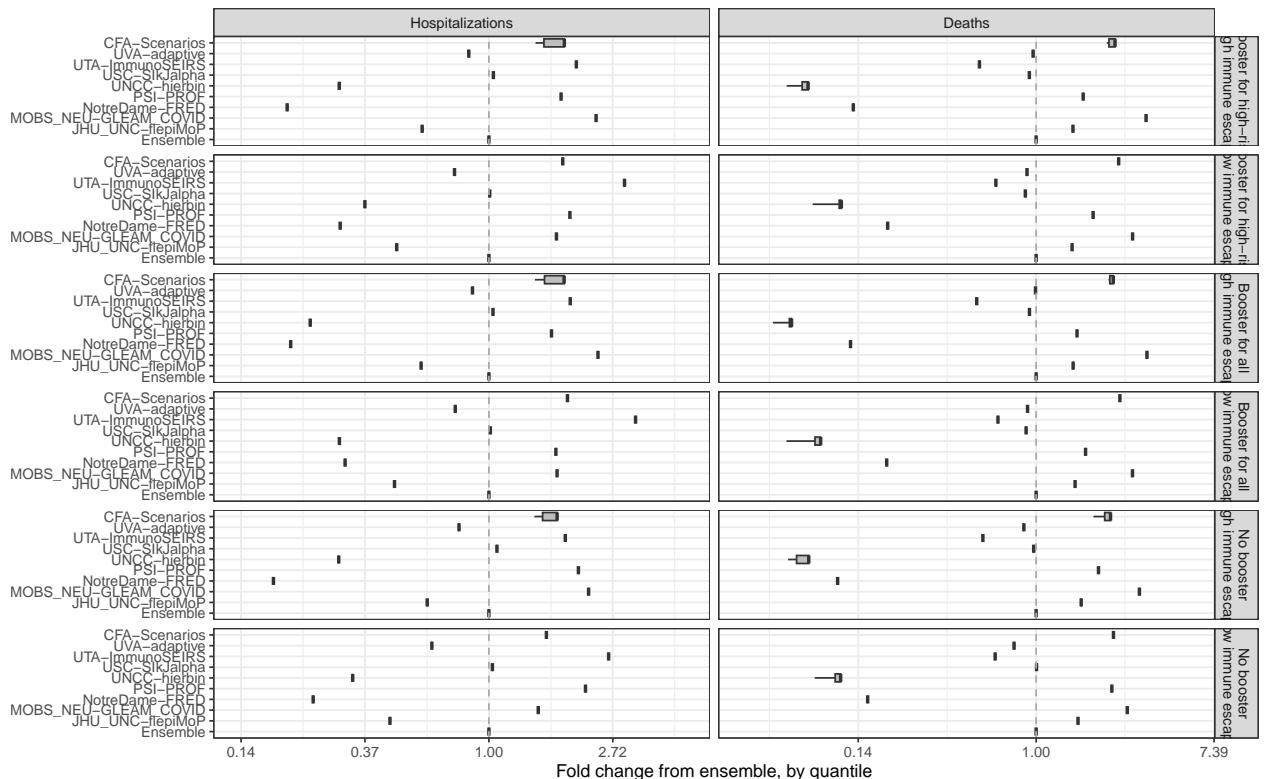
Round 18 Scenario Specifications

	Low immune escape • Immune escape occurs at a constant rate of 20% per year	High immune escape • Immune escape occurs at a constant rate of 50% per year
No vaccine recommendation • Only naive children aging into eligibility get vaccinated	Scenario A	Scenario B
Reformulated annual vaccination recommended for high risk groups (65+ and those with underlying risk factors) • Vaccine becomes available September 1 • Reformulated vaccine has 75% VE against hospitalization at time of delivery on September 1 • Uptake in high risk groups (individuals 65+ or with underlying risk factors) is the same as seen for 2023-24 reformulated vaccine • Uptake in naive children aging into eligibility is same as seen for 2023-24 • Uptake in all other groups is negligible.	Scenario C	Scenario D
Reformulated annual vaccination recommended for all currently eligible groups • Reformulated vaccine has 75% VE against hospitalization at time of delivery on September 1 • Vaccine becomes available September 1 • Coverage saturates at levels of the 2023-24 booster for all age/risk groups (approximately 21% of adults nationally, 39% of 65+, 32% of high risk individuals)	Scenario E	Scenario F

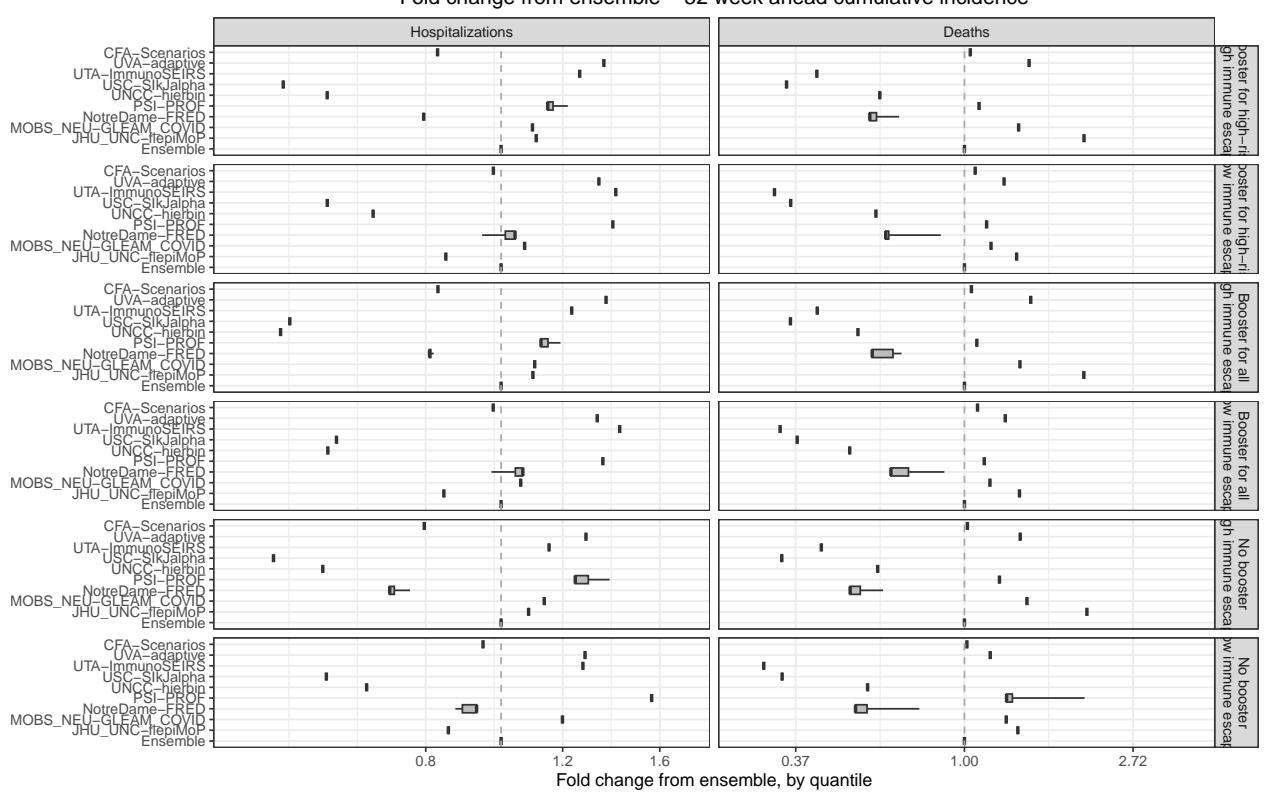
Difference between model and ensemble distributions



Fold change from ensemble – 52 week ahead incidence

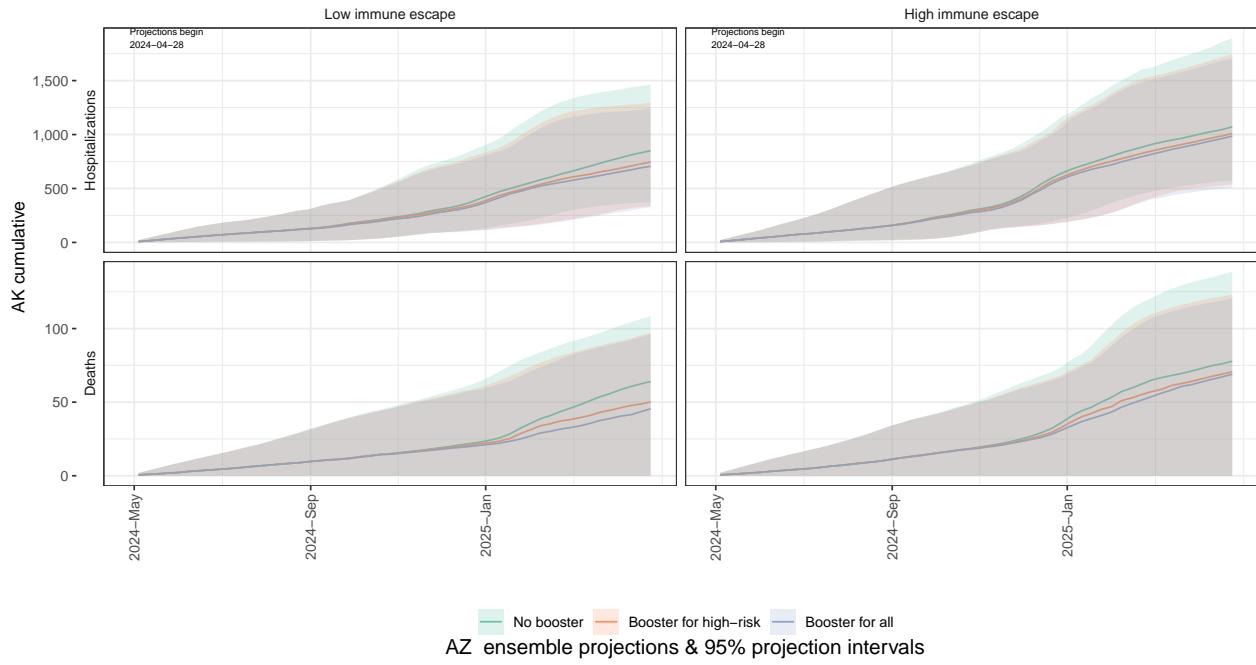


Fold change from ensemble, by quantile

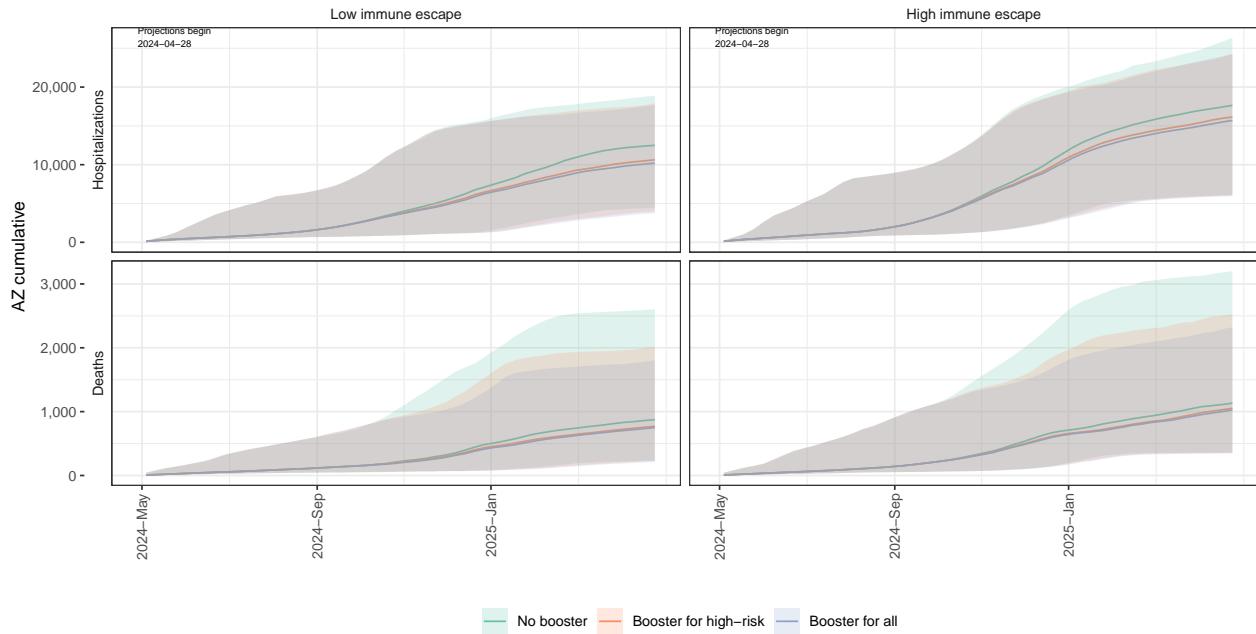


State-level ensemble plots

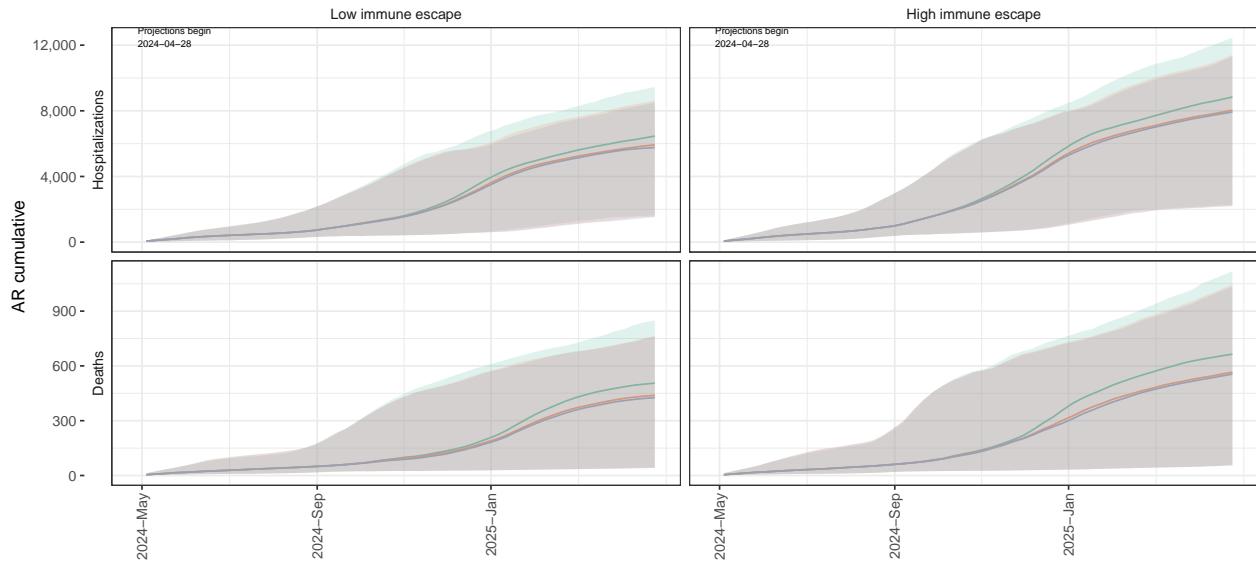
AK ensemble projections & 95% projection intervals



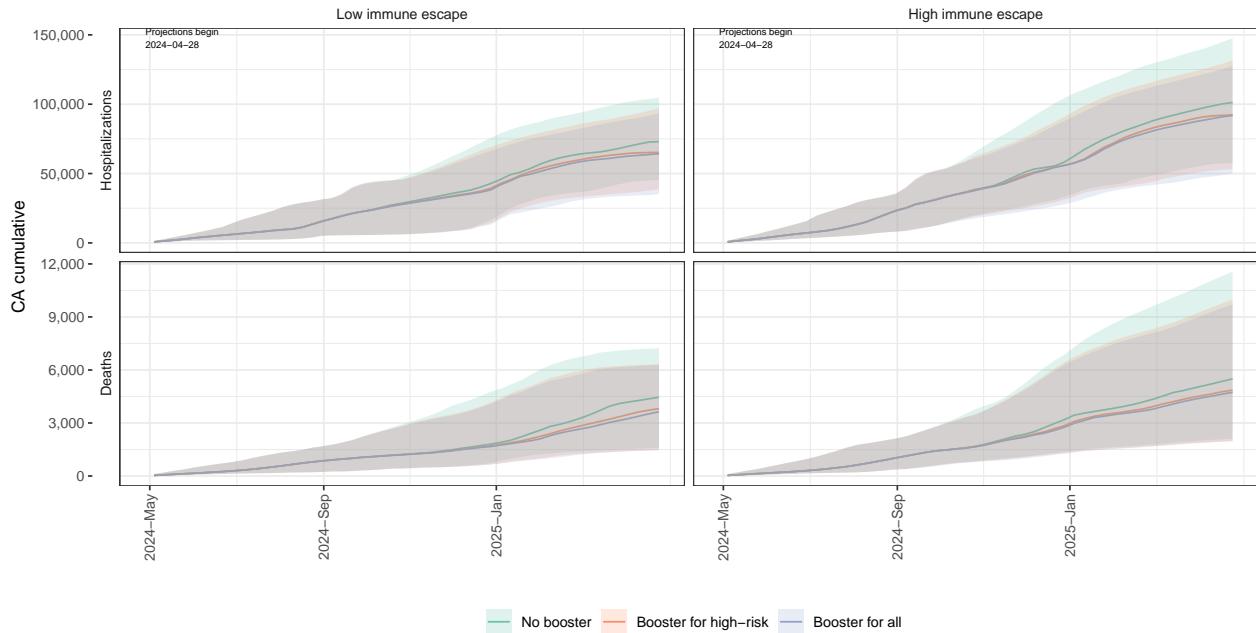
AZ ensemble projections & 95% projection intervals



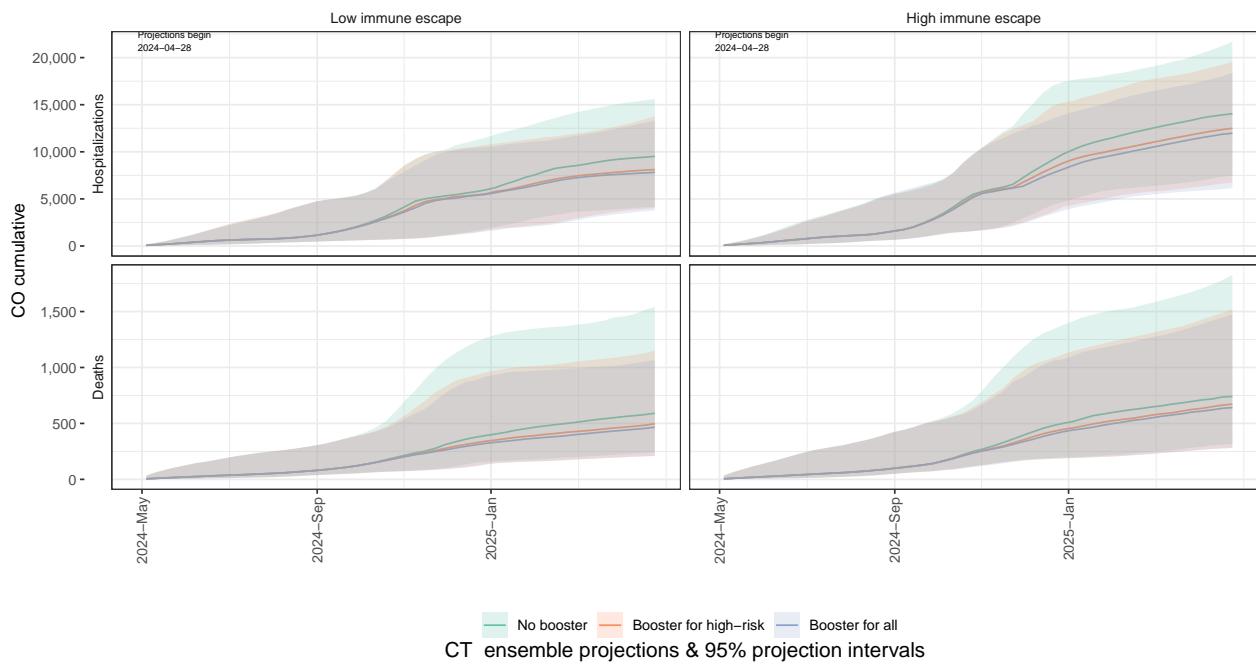
AR ensemble projections & 95% projection intervals



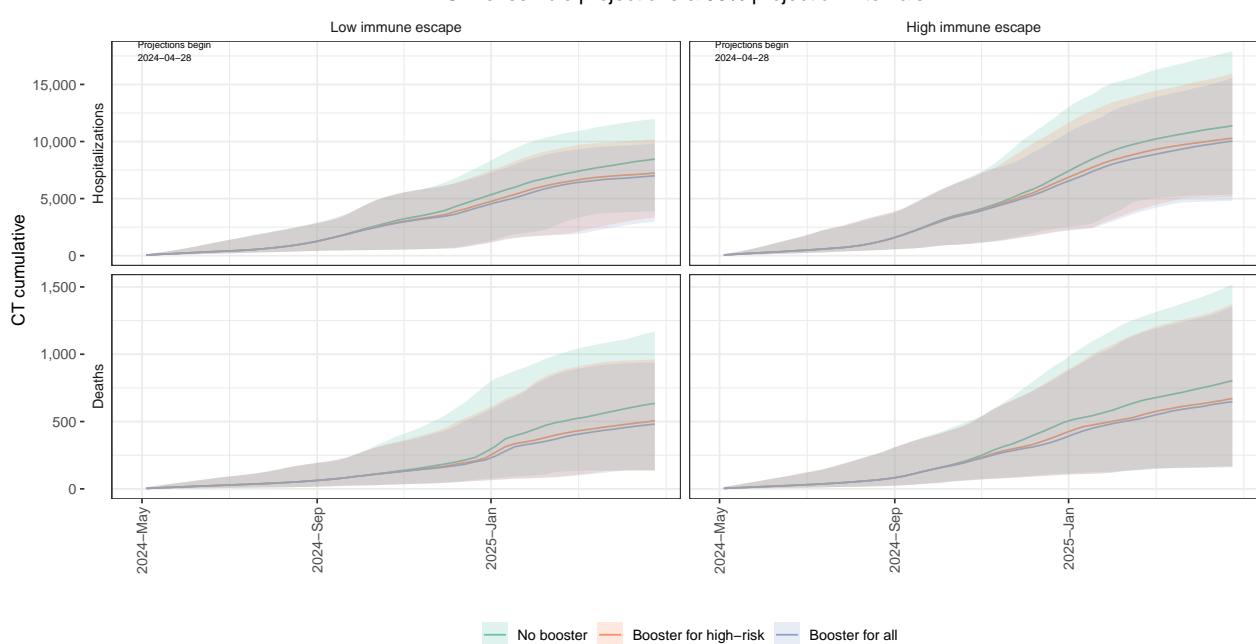
CA ensemble projections & 95% projection intervals



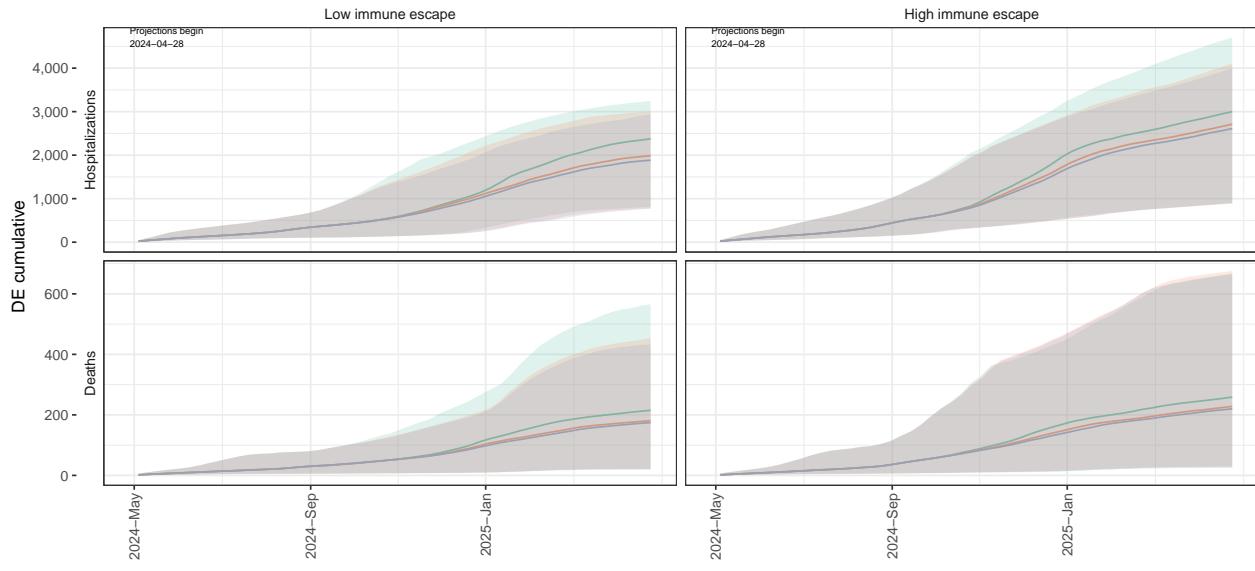
CO ensemble projections & 95% projection intervals



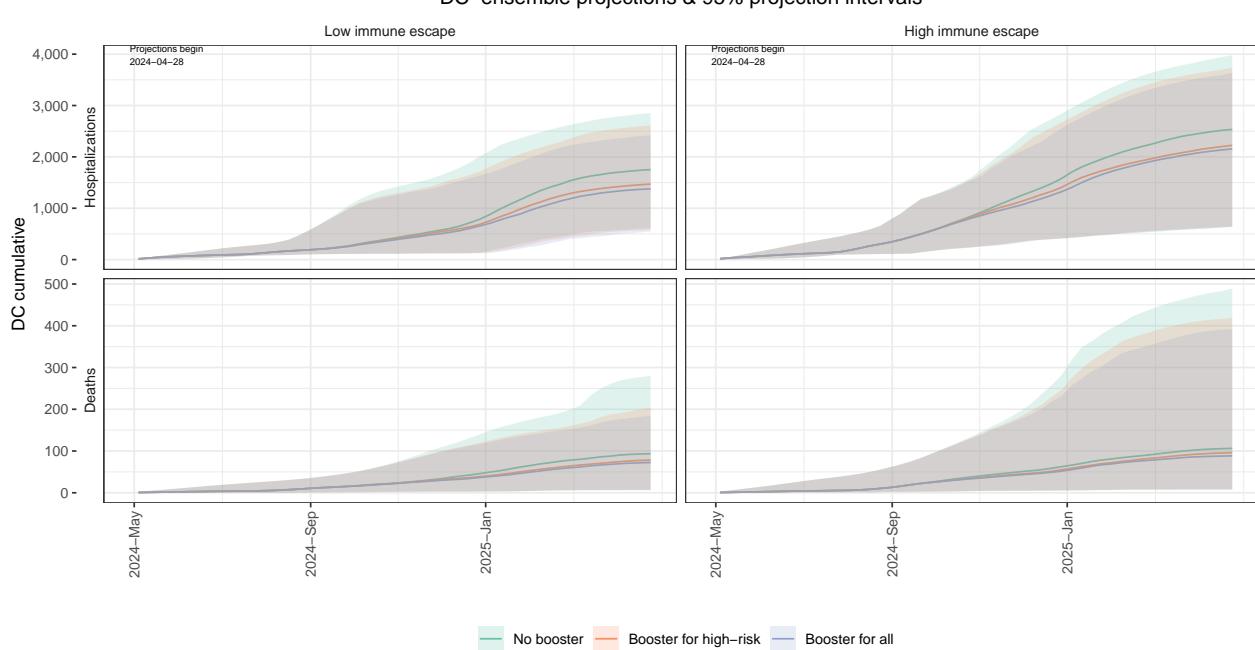
CT ensemble projections & 95% projection intervals



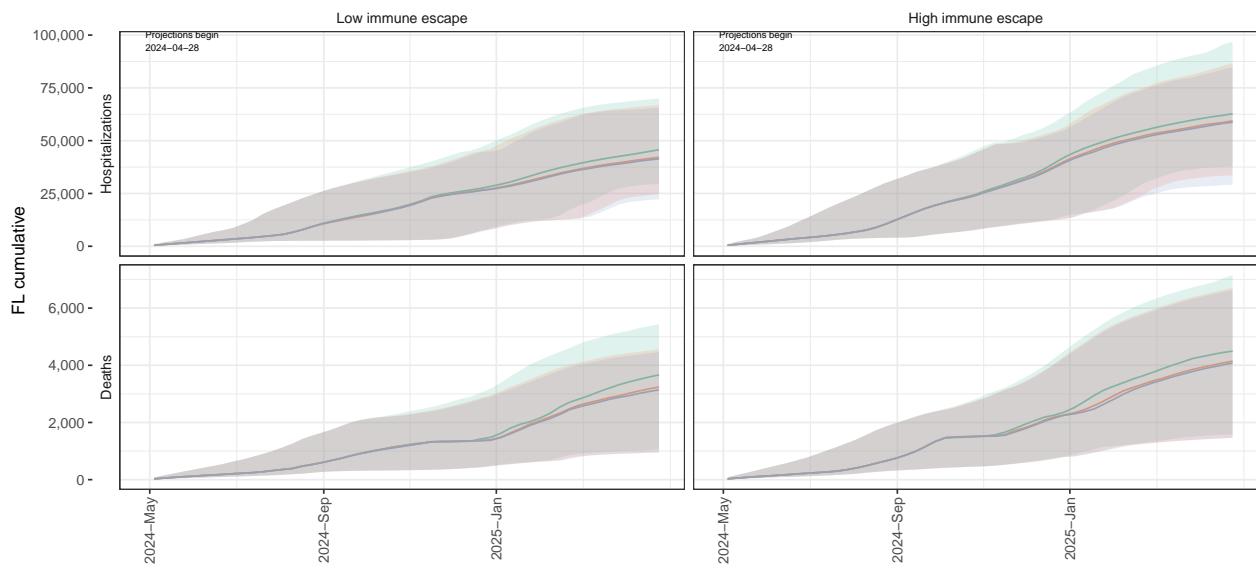
DE ensemble projections & 95% projection intervals



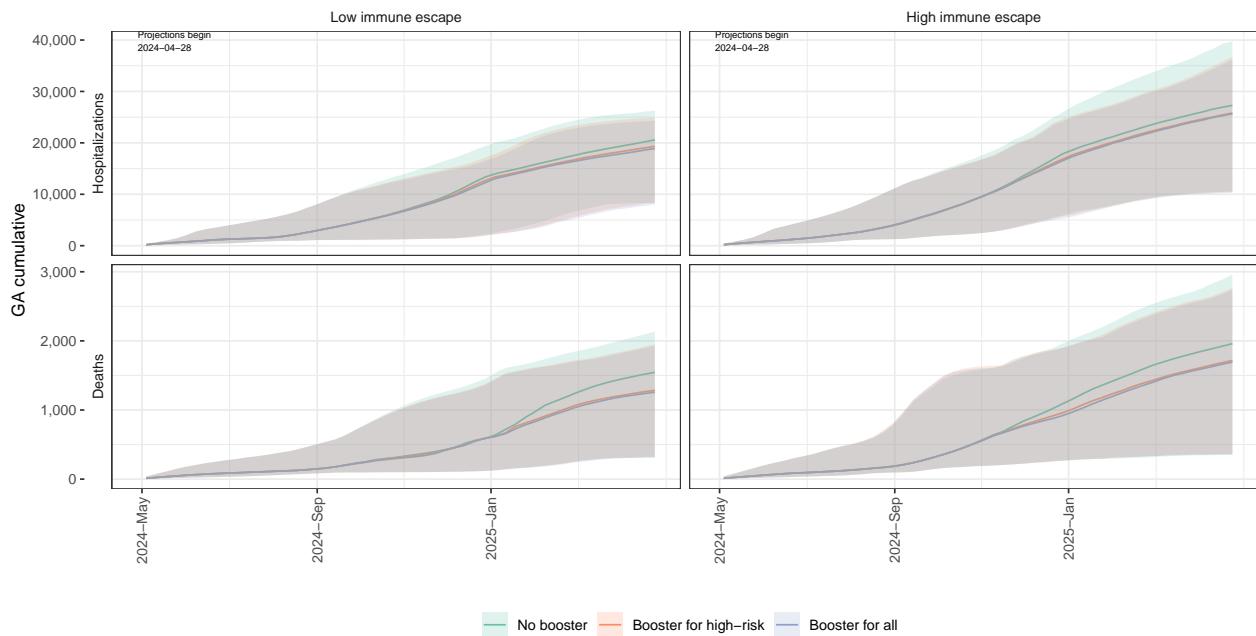
DC ensemble projections & 95% projection intervals



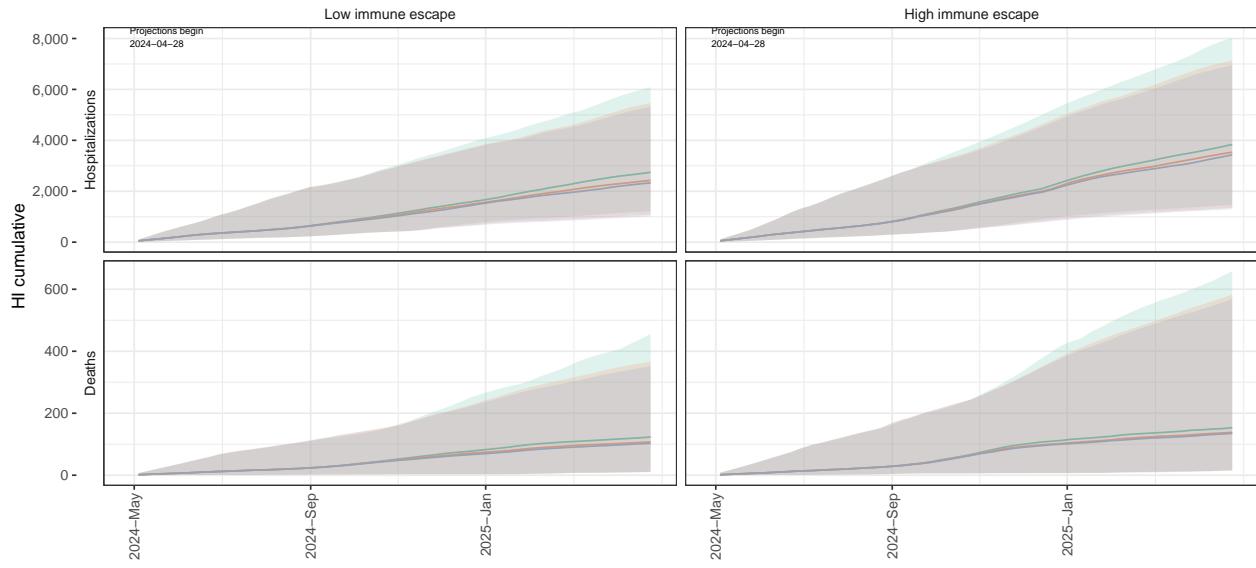
FL ensemble projections & 95% projection intervals



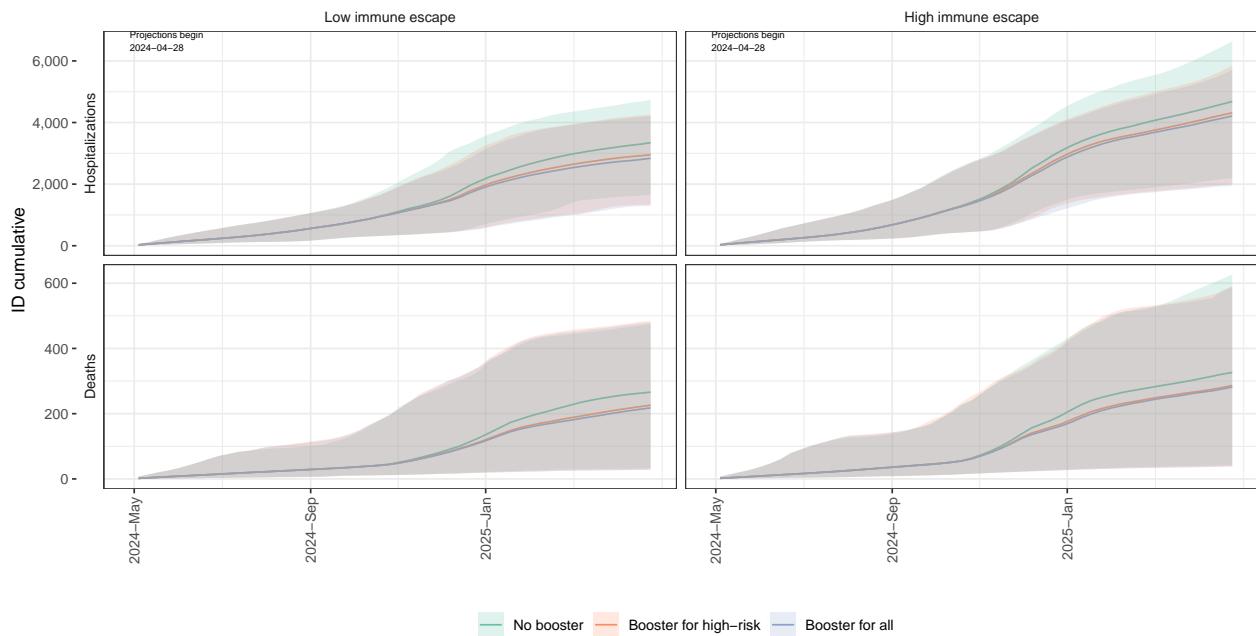
GA ensemble projections & 95% projection intervals



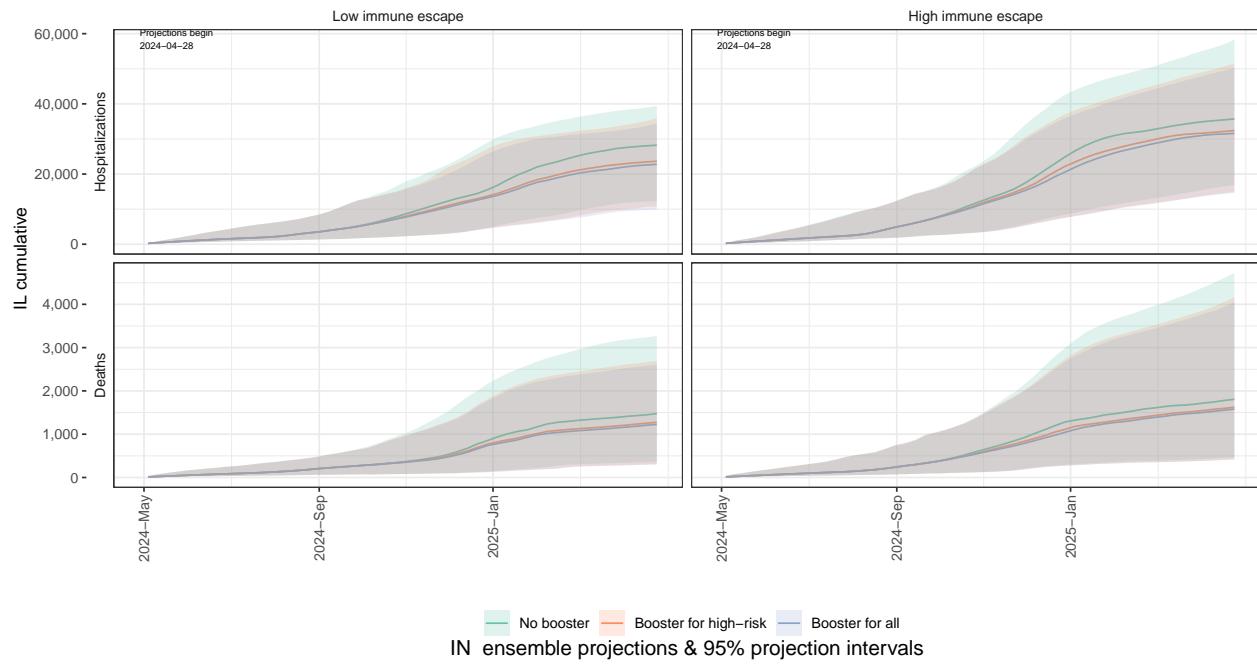
H1 ensemble projections & 95% projection intervals



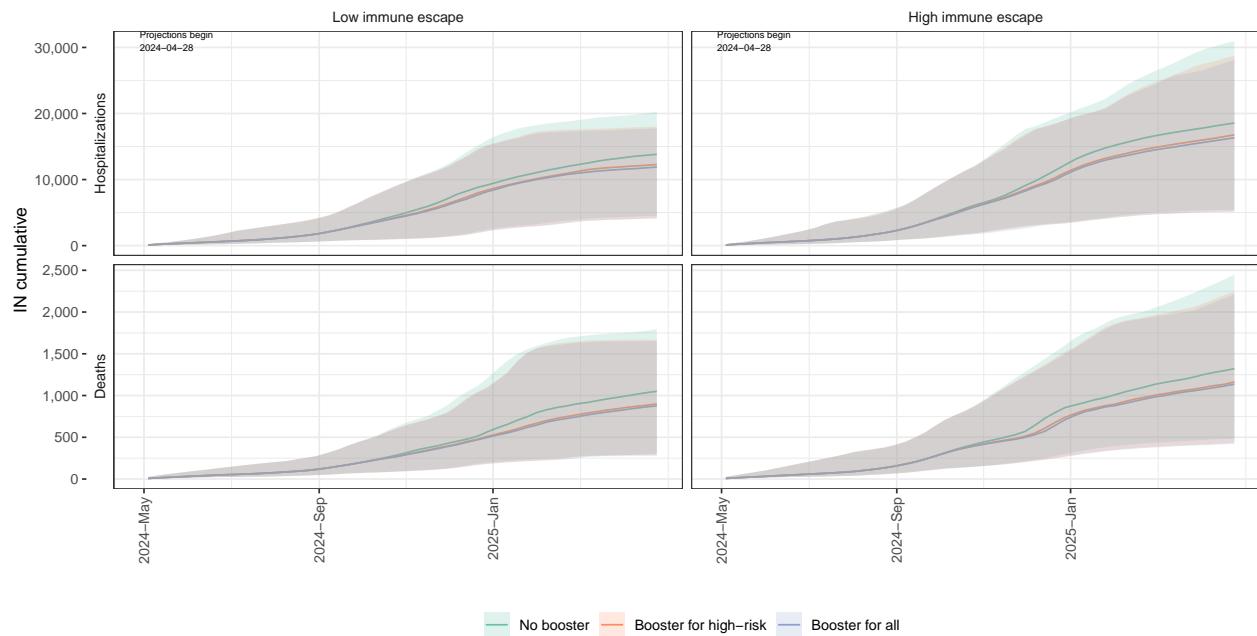
ID ensemble projections & 95% projection intervals



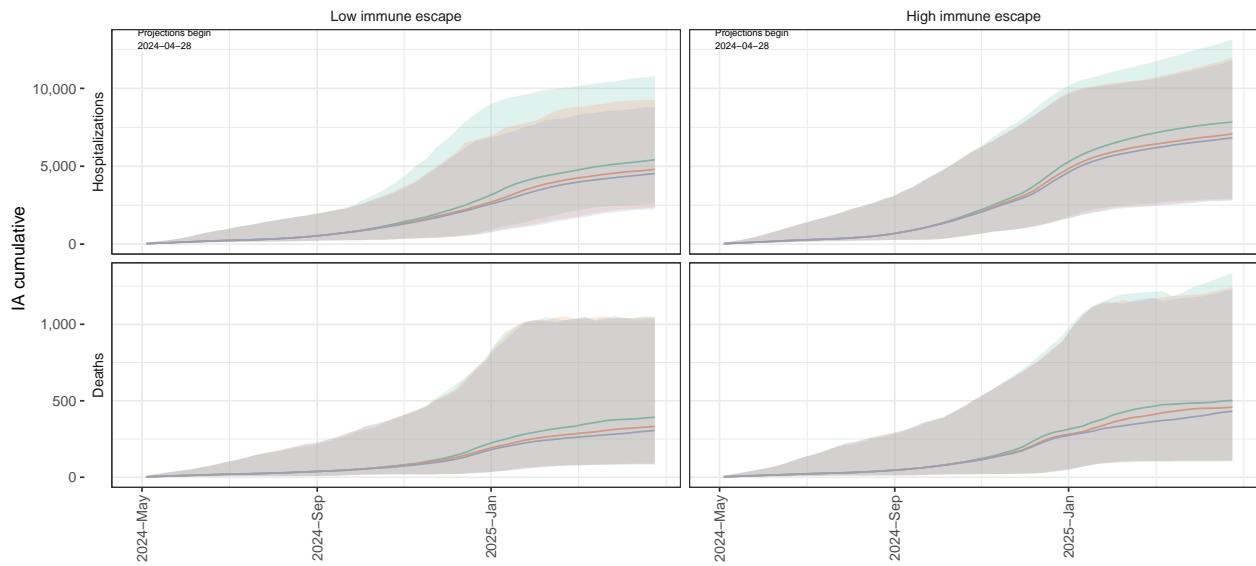
IL ensemble projections & 95% projection intervals



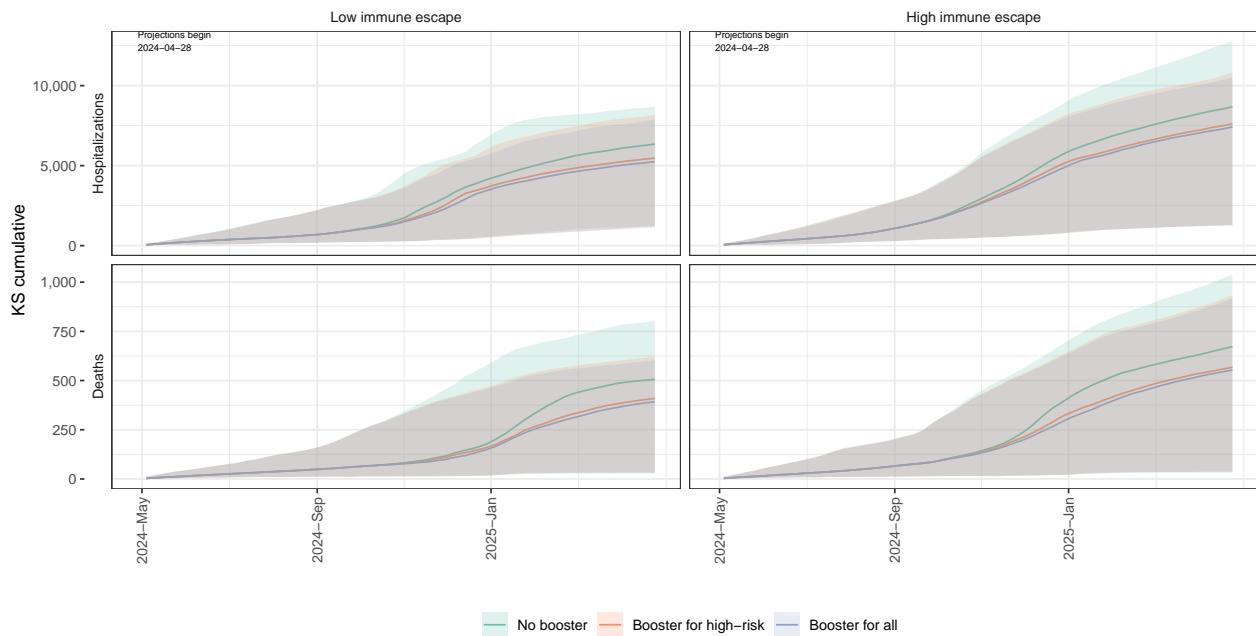
IN ensemble projections & 95% projection intervals



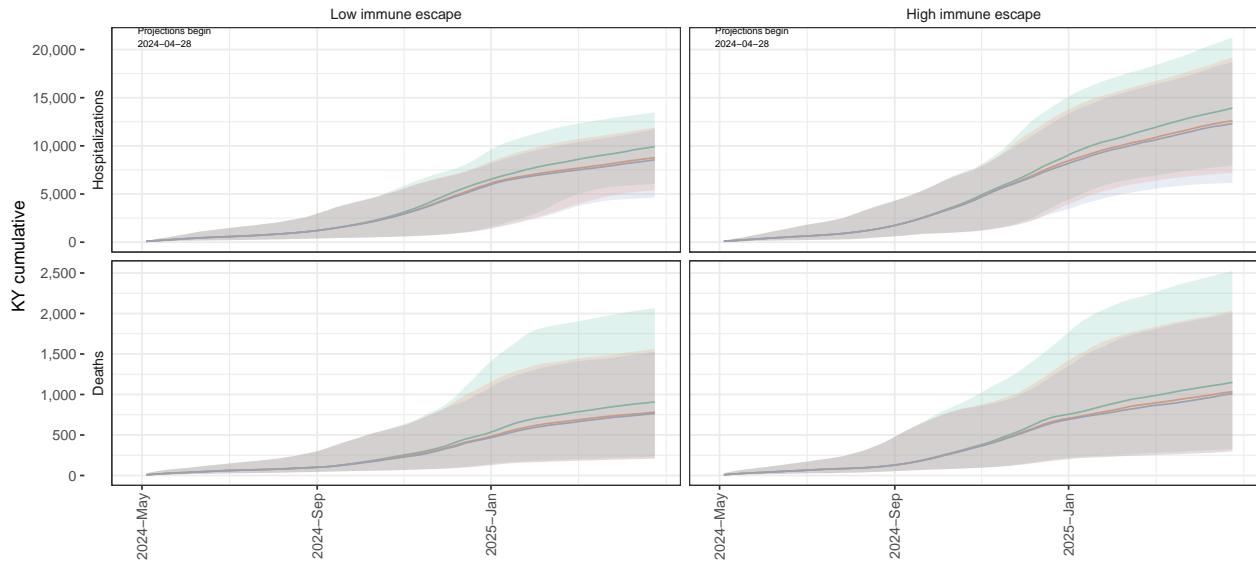
IA ensemble projections & 95% projection intervals



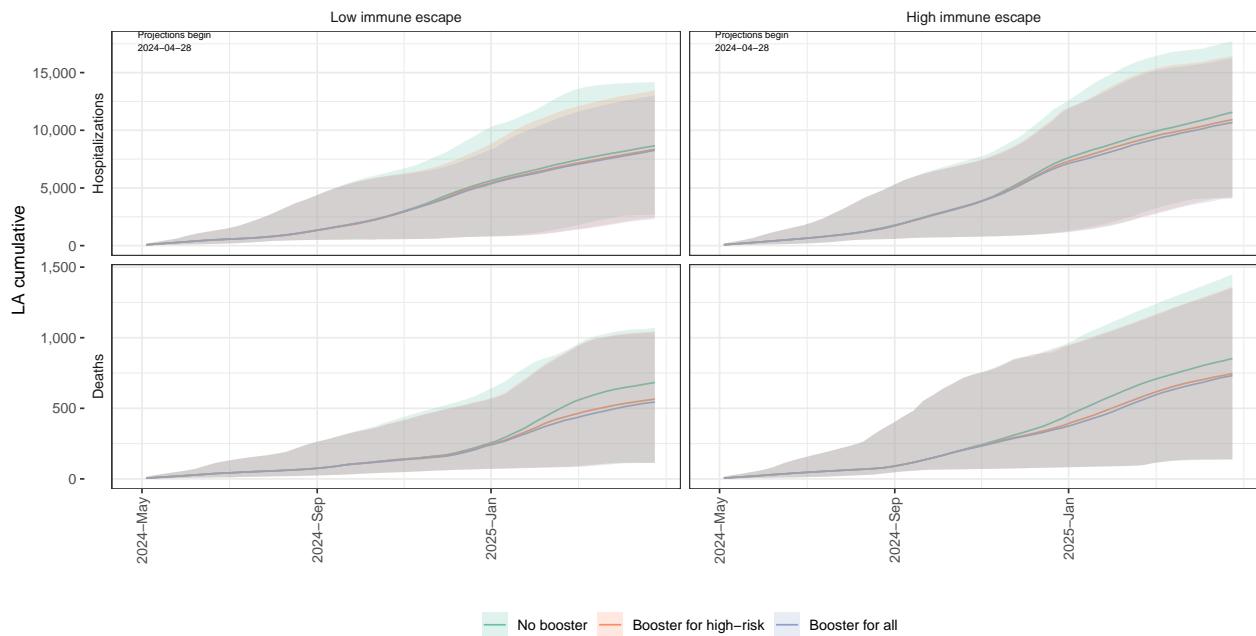
KS ensemble projections & 95% projection intervals



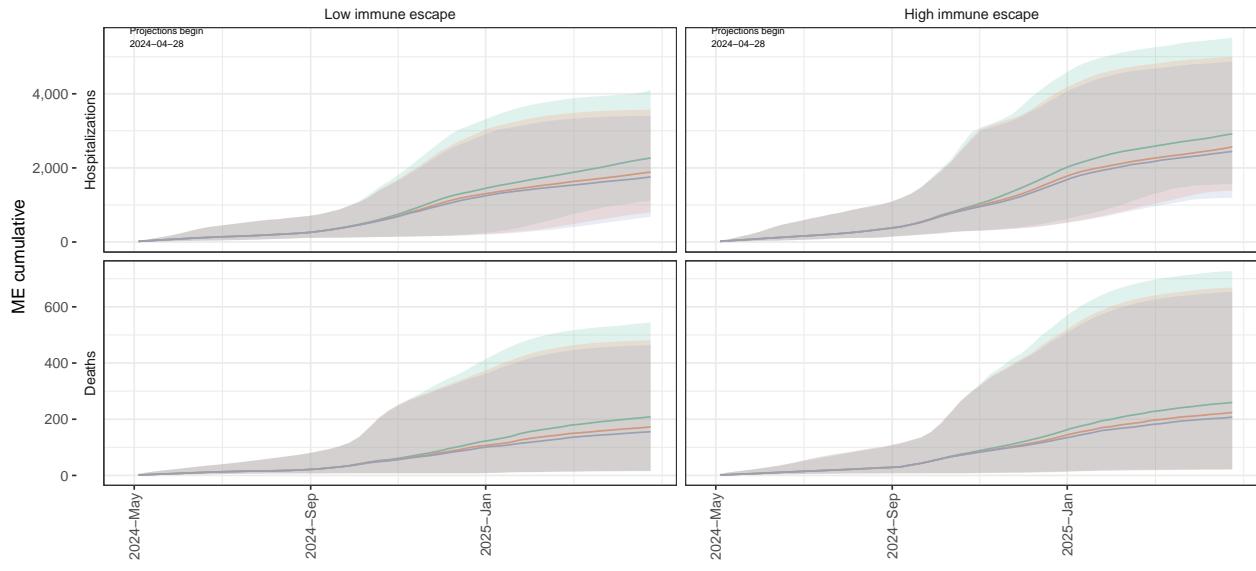
KY ensemble projections & 95% projection intervals



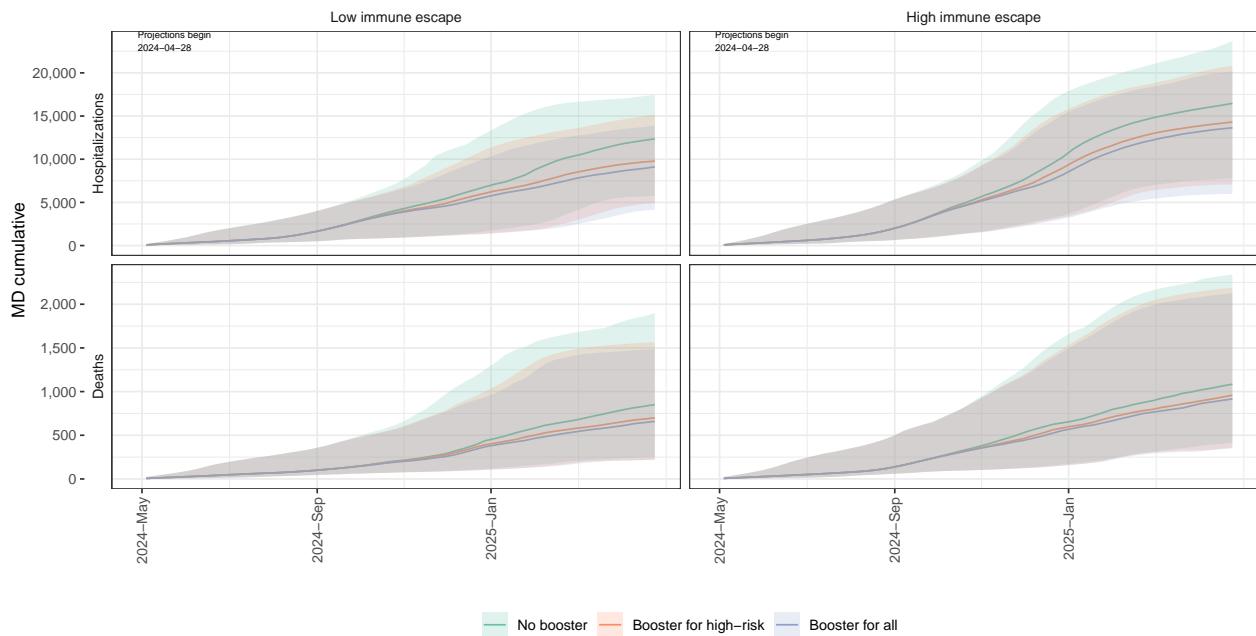
LA ensemble projections & 95% projection intervals



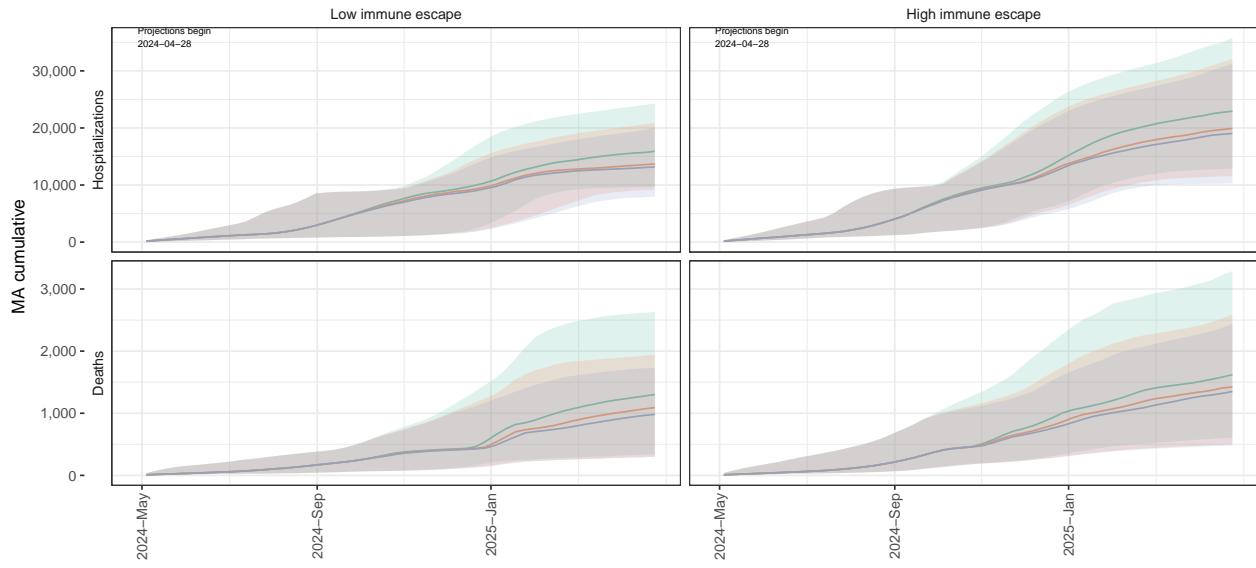
ME ensemble projections & 95% projection intervals



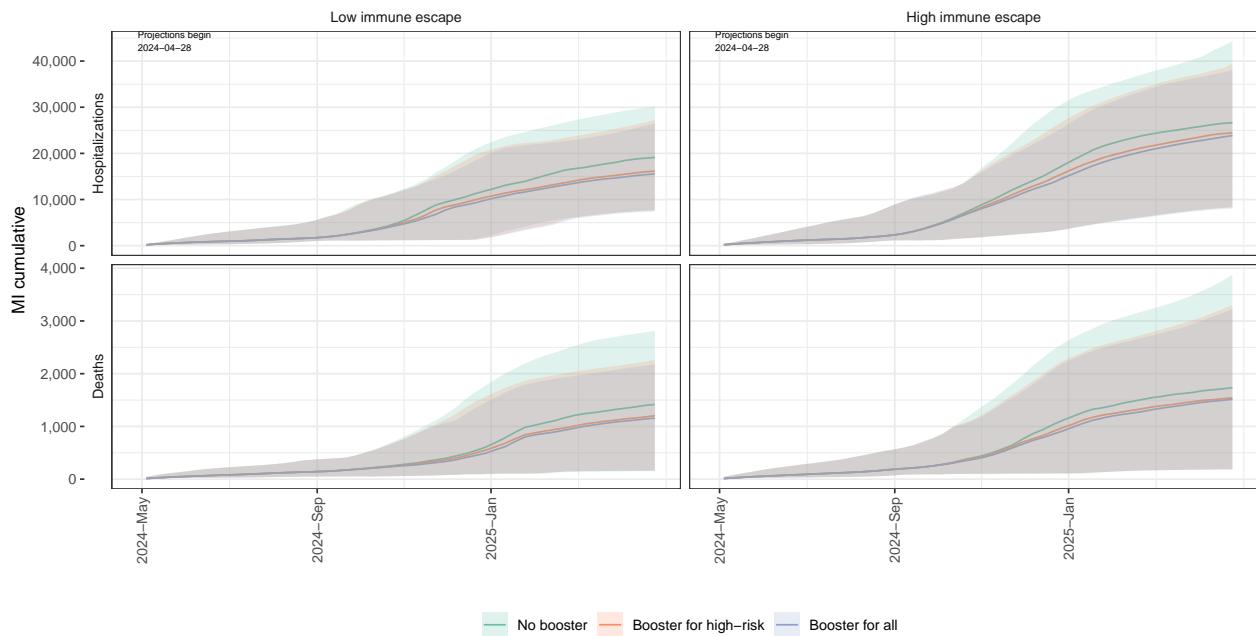
MD ensemble projections & 95% projection intervals



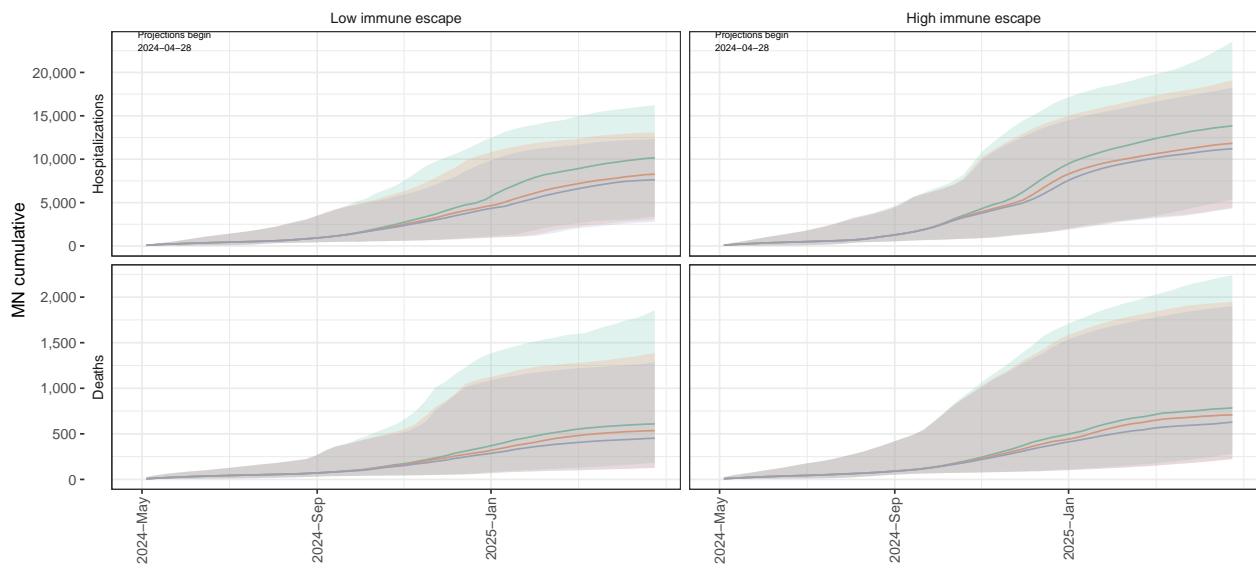
MA ensemble projections & 95% projection intervals



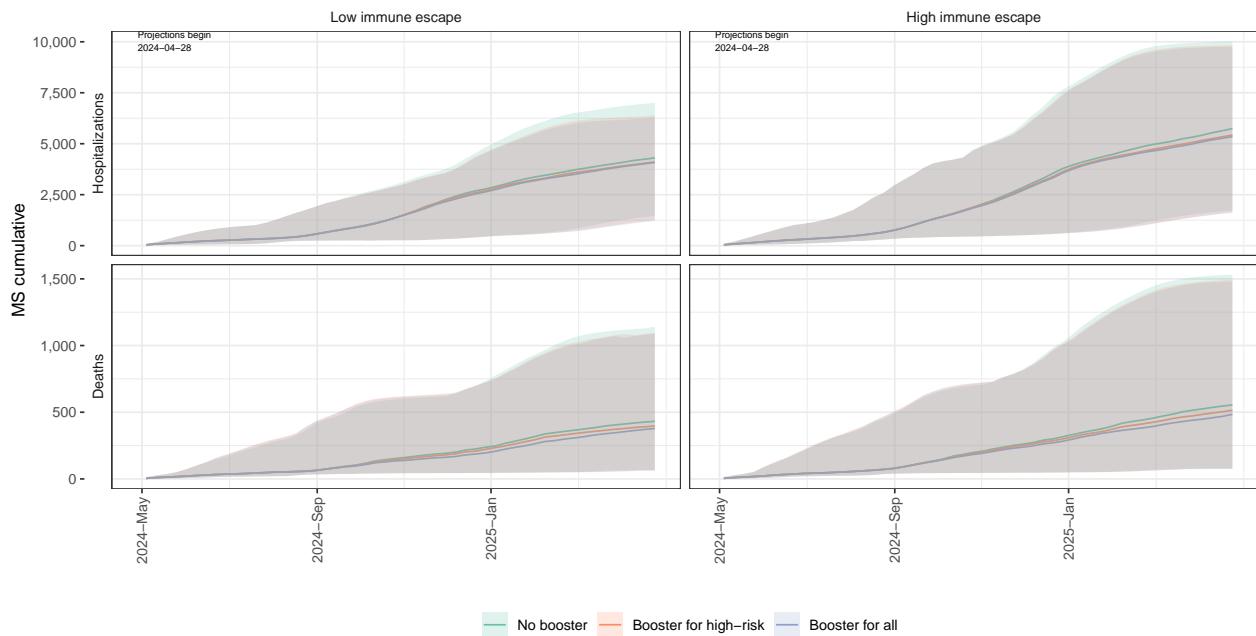
MI ensemble projections & 95% projection intervals



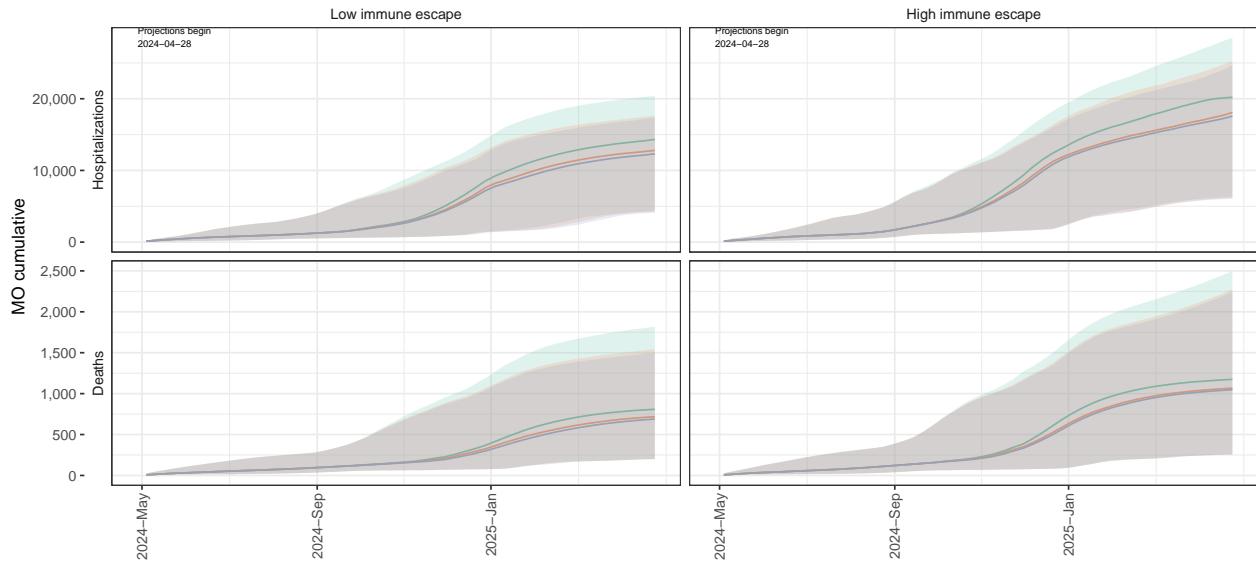
MN ensemble projections & 95% projection intervals



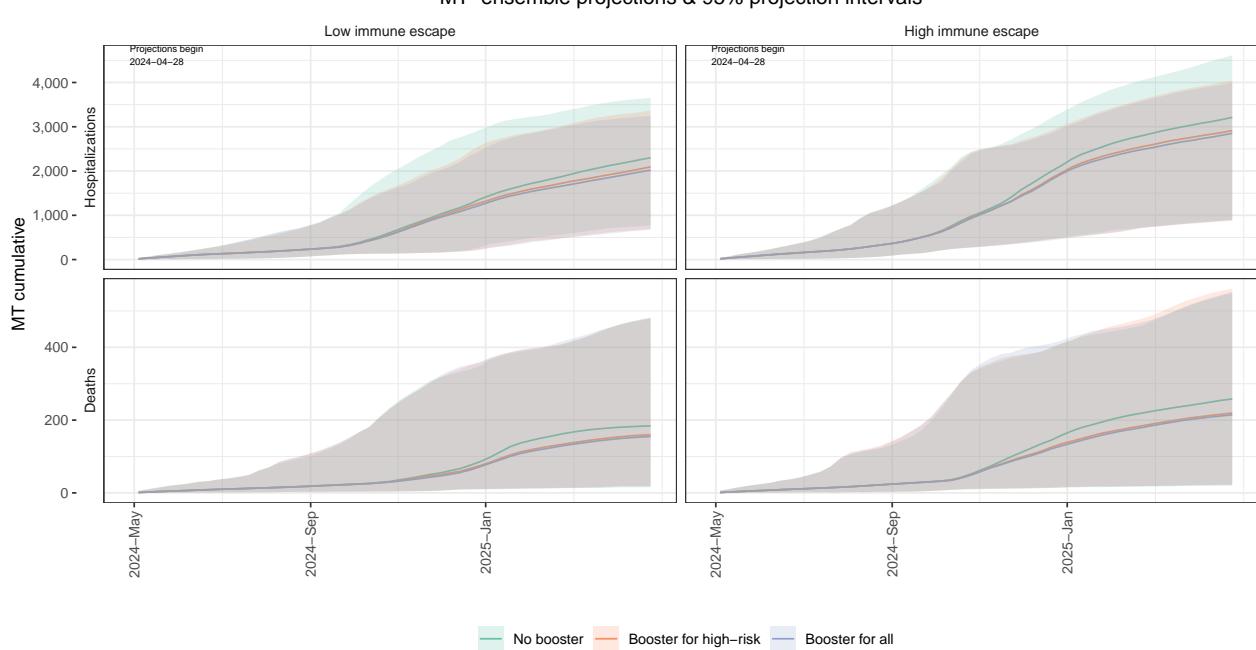
MS ensemble projections & 95% projection intervals



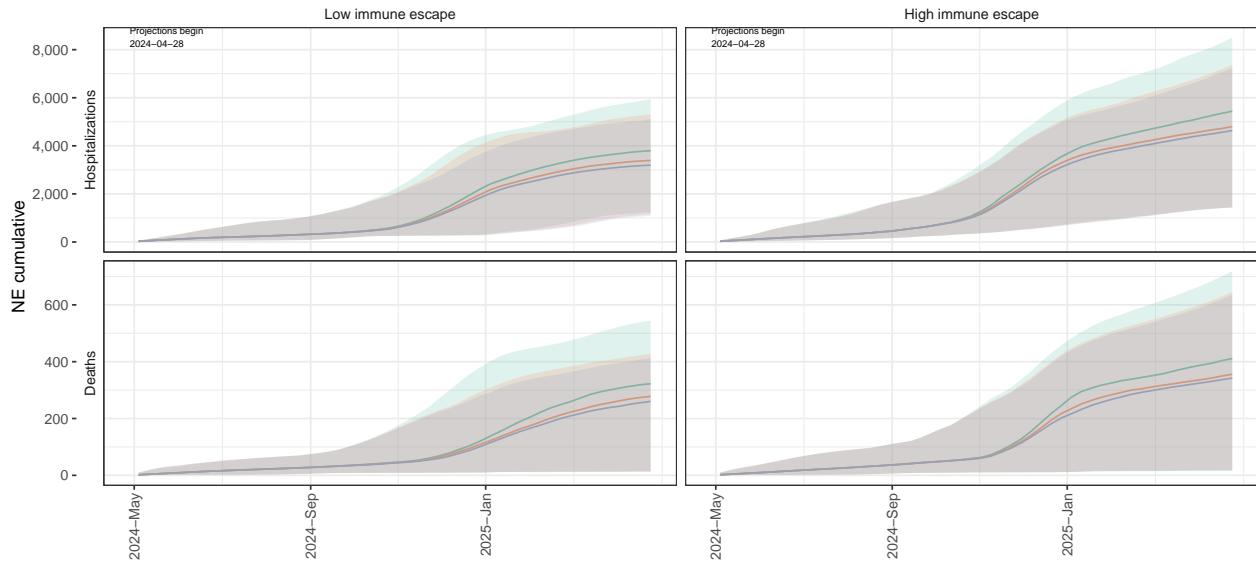
MO ensemble projections & 95% projection intervals



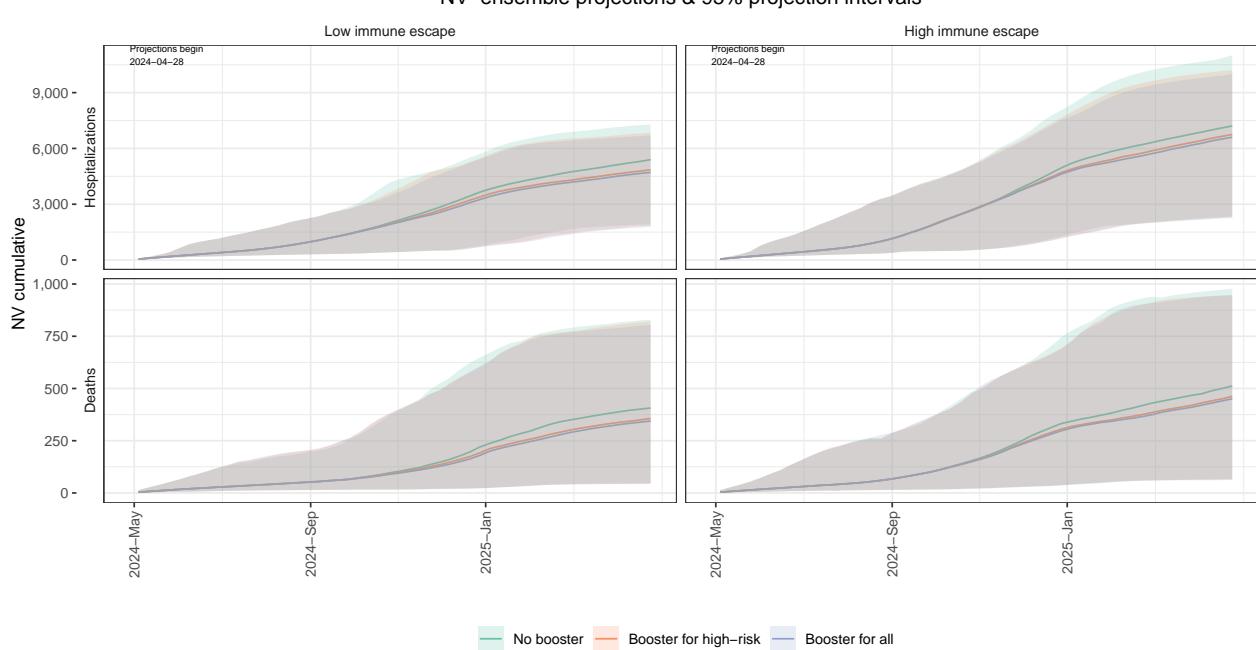
MT ensemble projections & 95% projection intervals



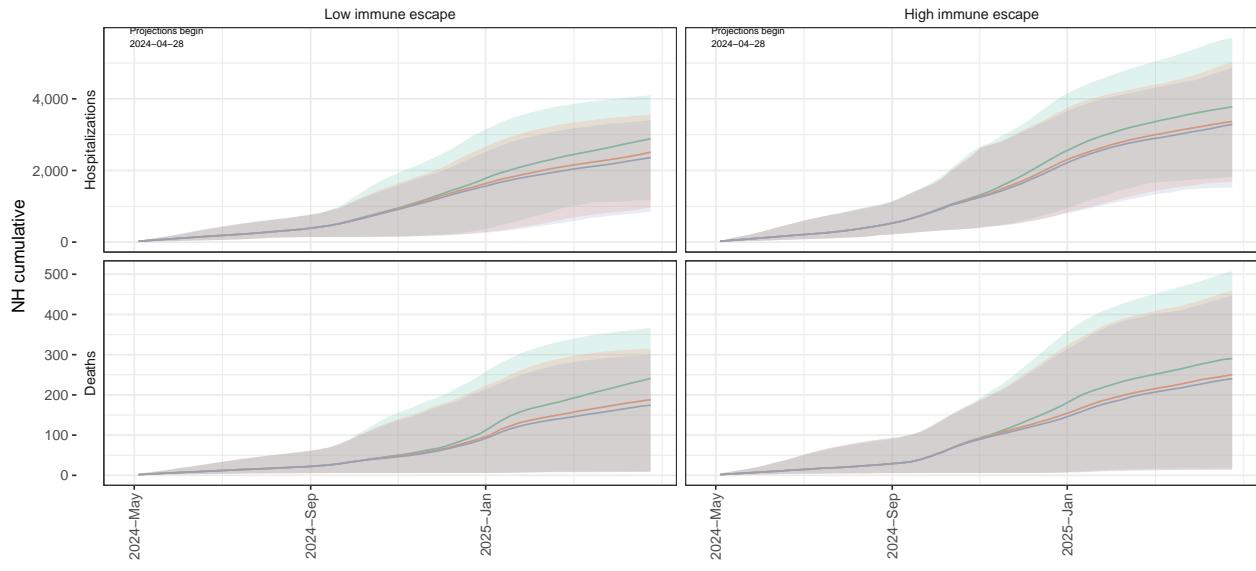
NE ensemble projections & 95% projection intervals



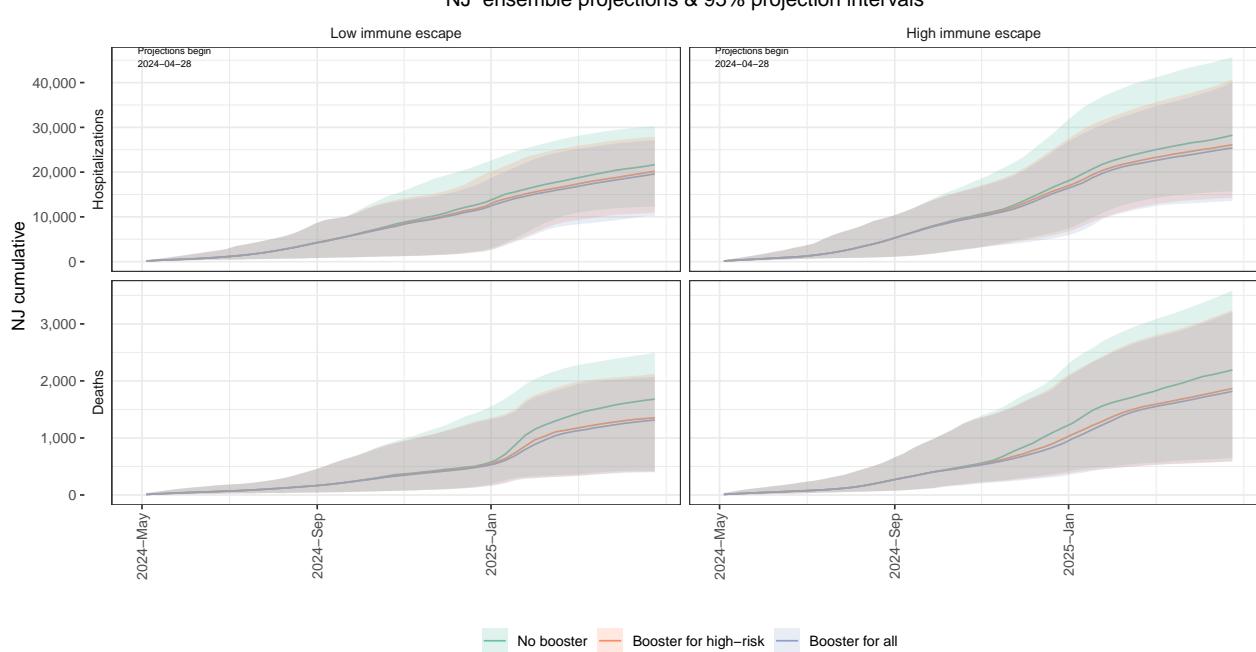
NV ensemble projections & 95% projection intervals



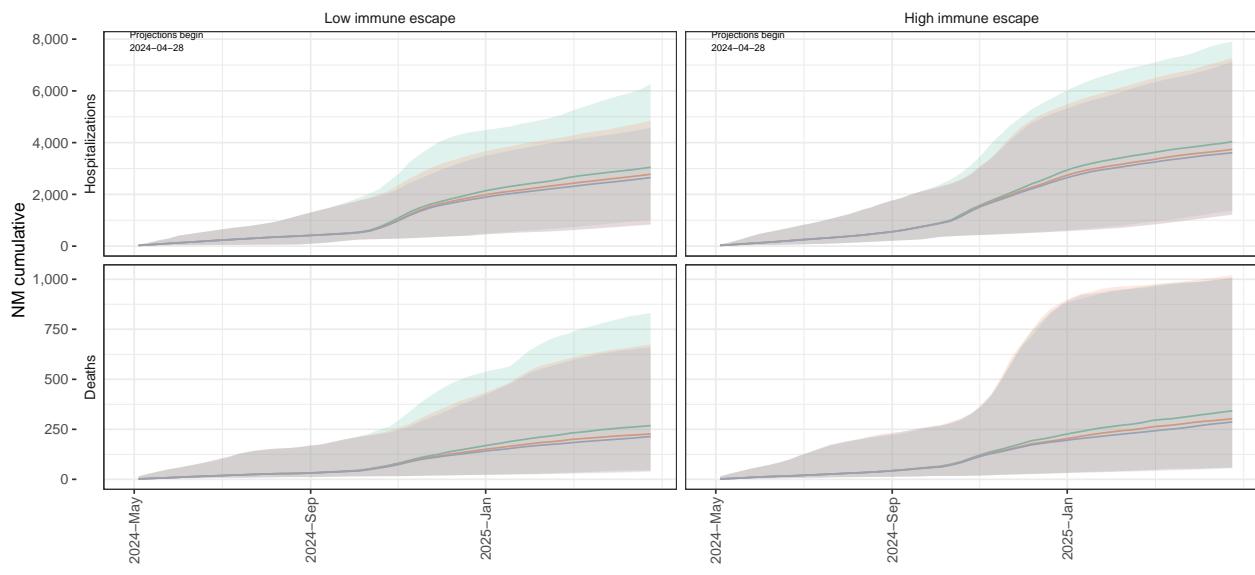
NH ensemble projections & 95% projection intervals



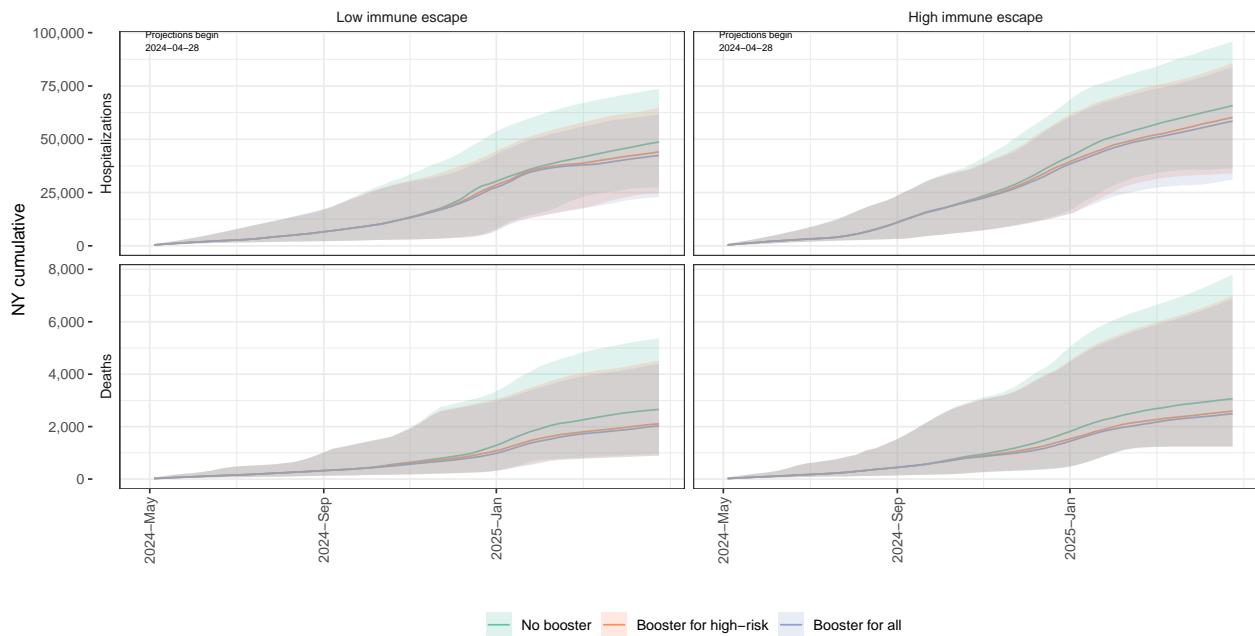
NJ ensemble projections & 95% projection intervals



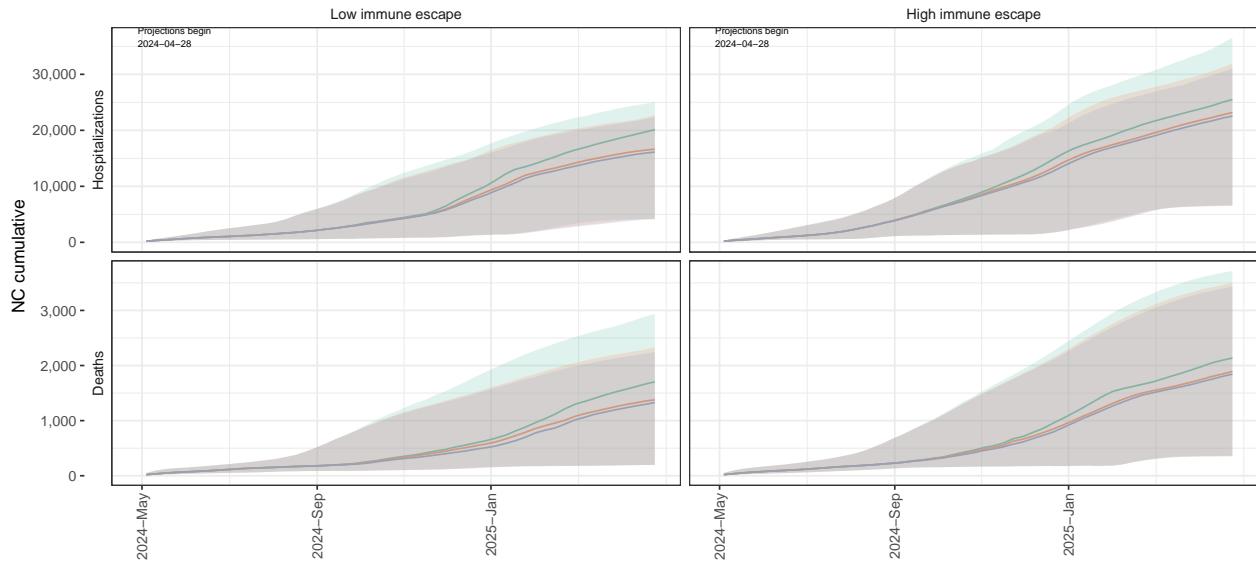
NM ensemble projections & 95% projection intervals



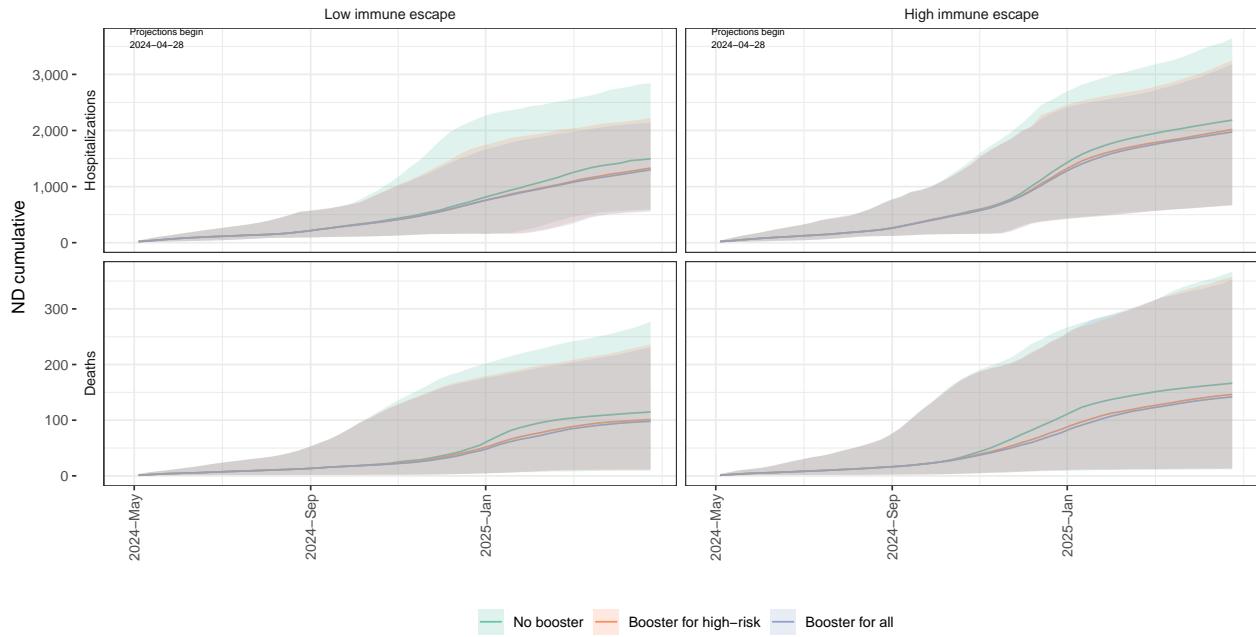
NY ensemble projections & 95% projection intervals



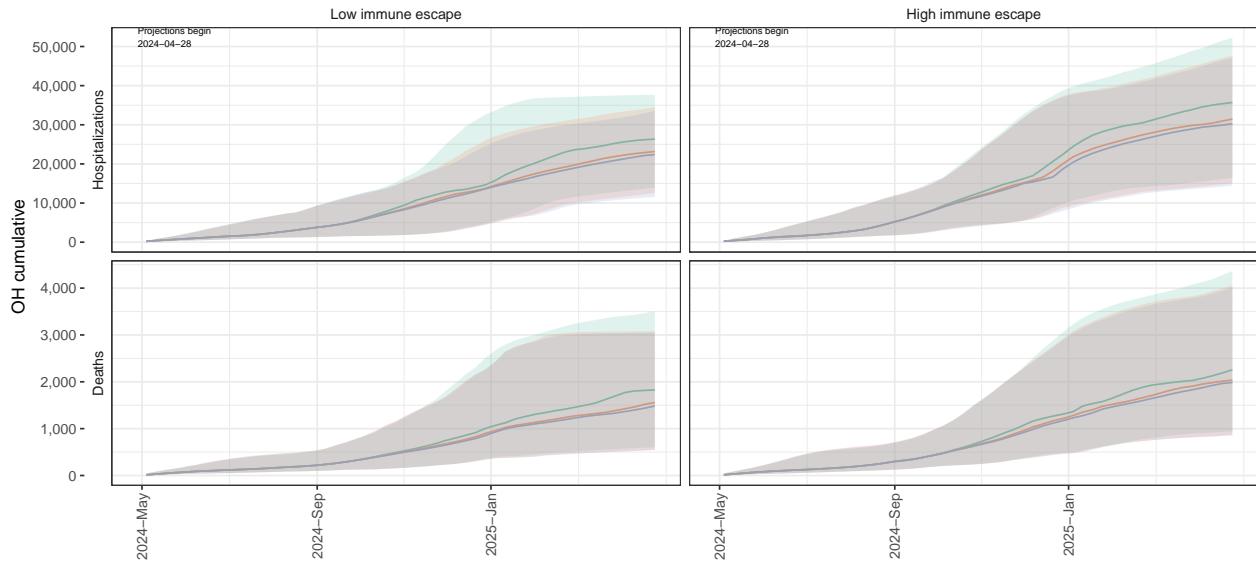
NC ensemble projections & 95% projection intervals



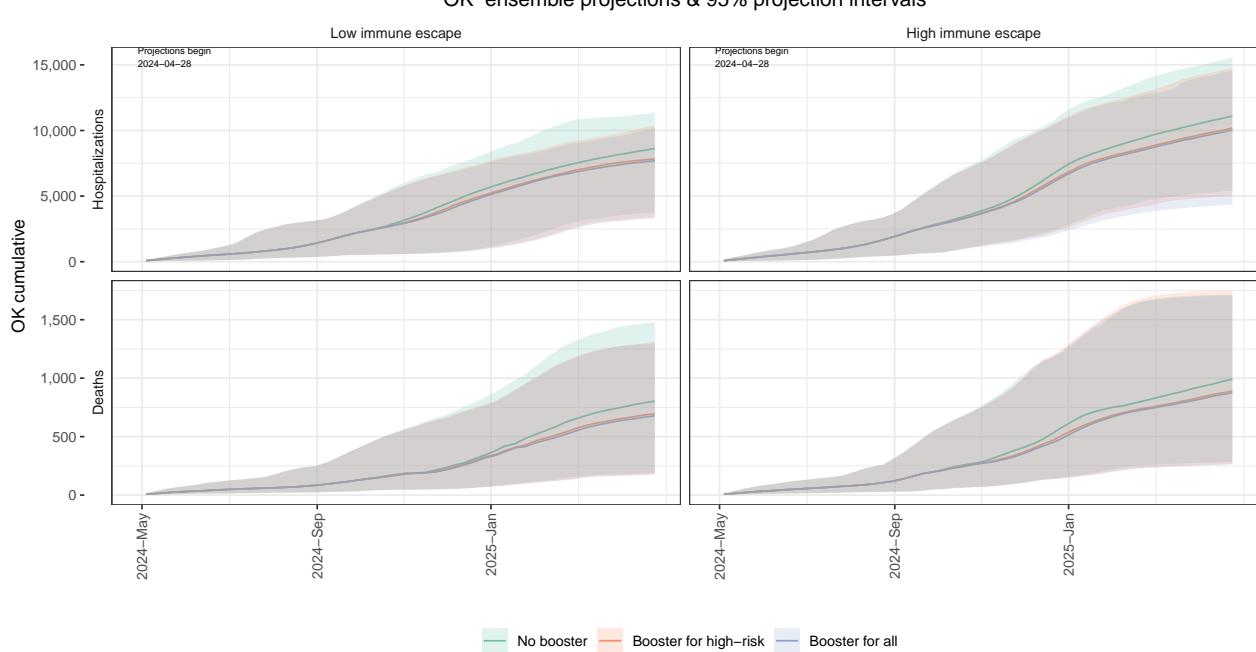
ND ensemble projections & 95% projection intervals



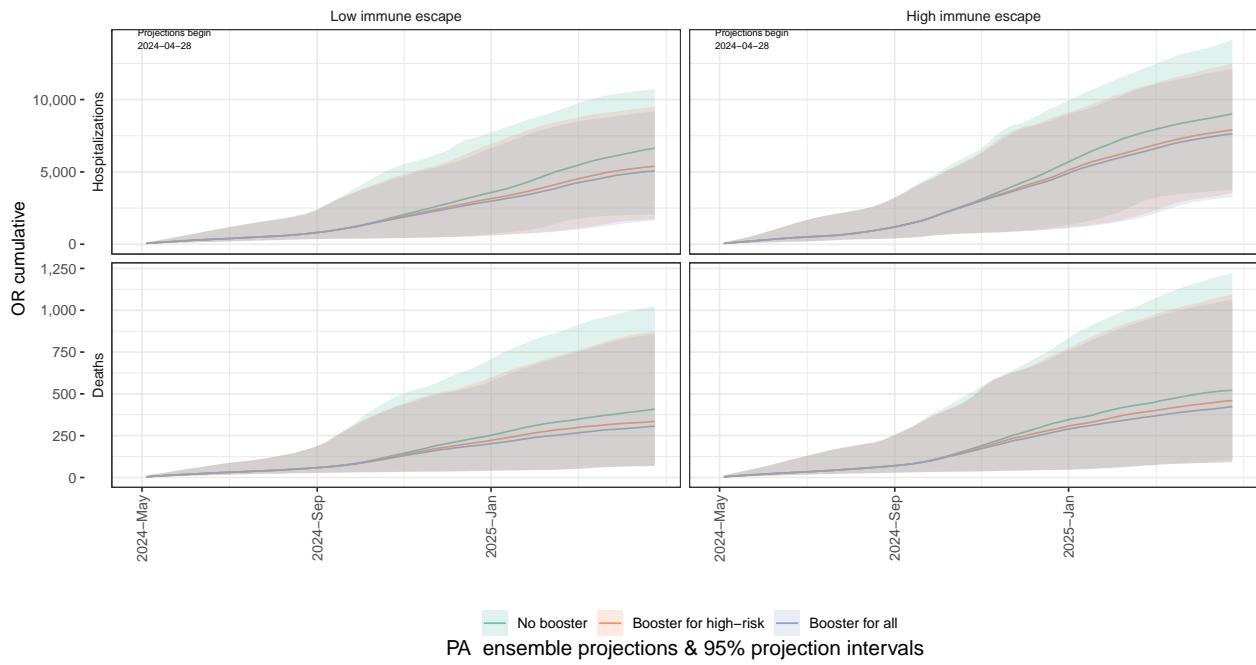
OH ensemble projections & 95% projection intervals



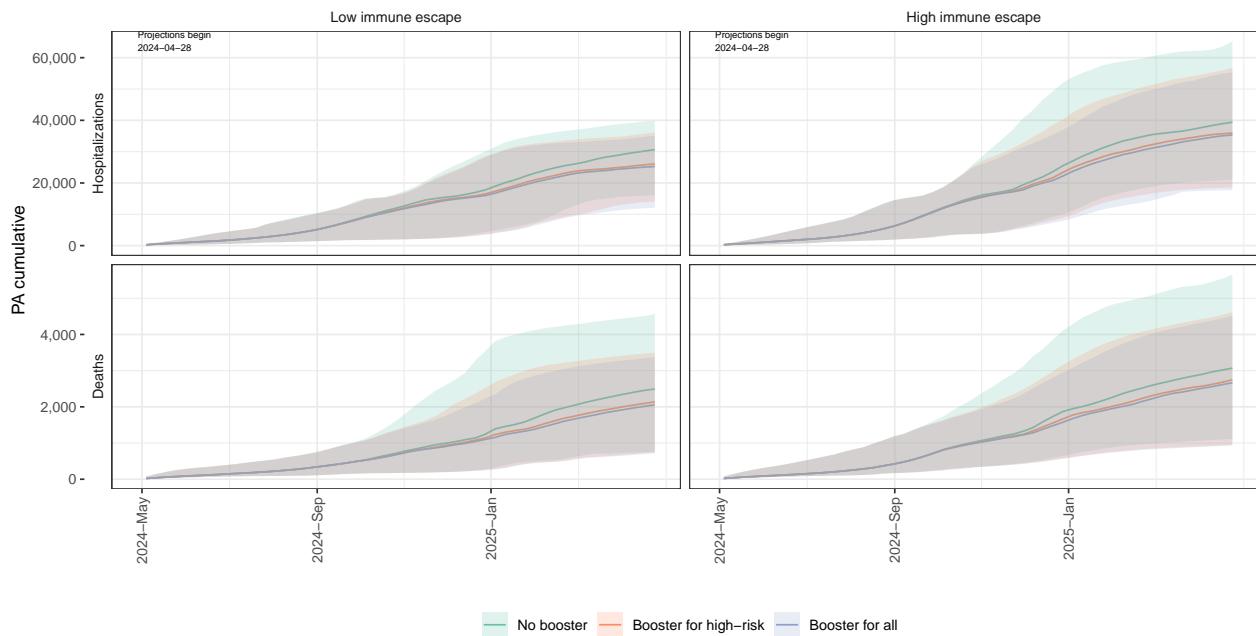
OK ensemble projections & 95% projection intervals



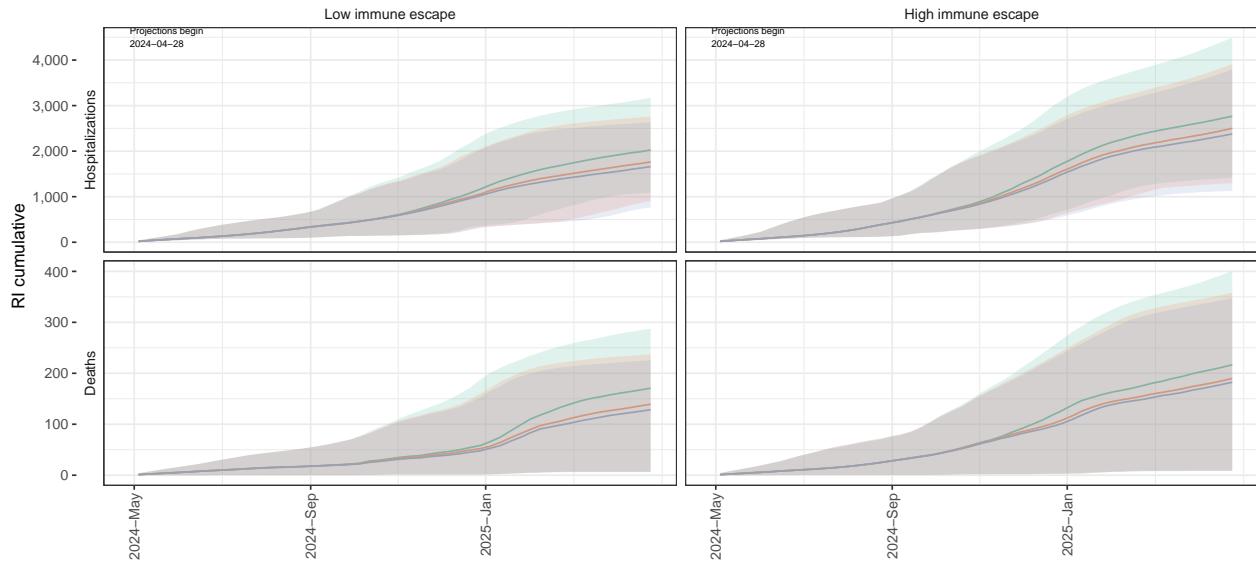
OR ensemble projections & 95% projection intervals



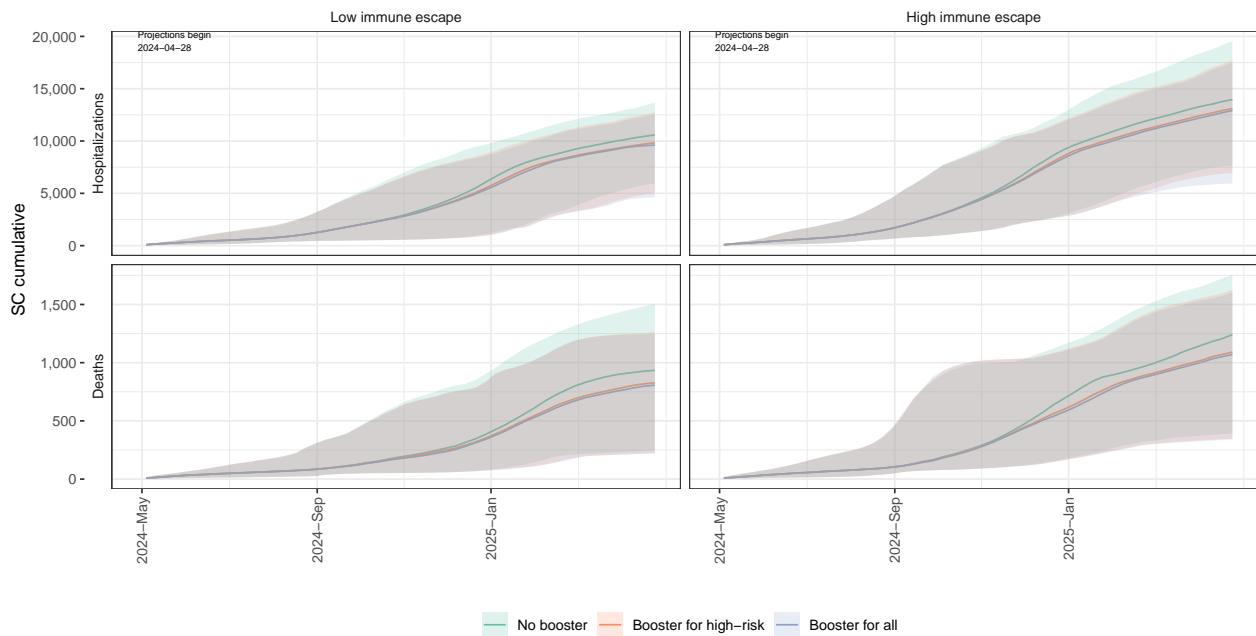
PA ensemble projections & 95% projection intervals



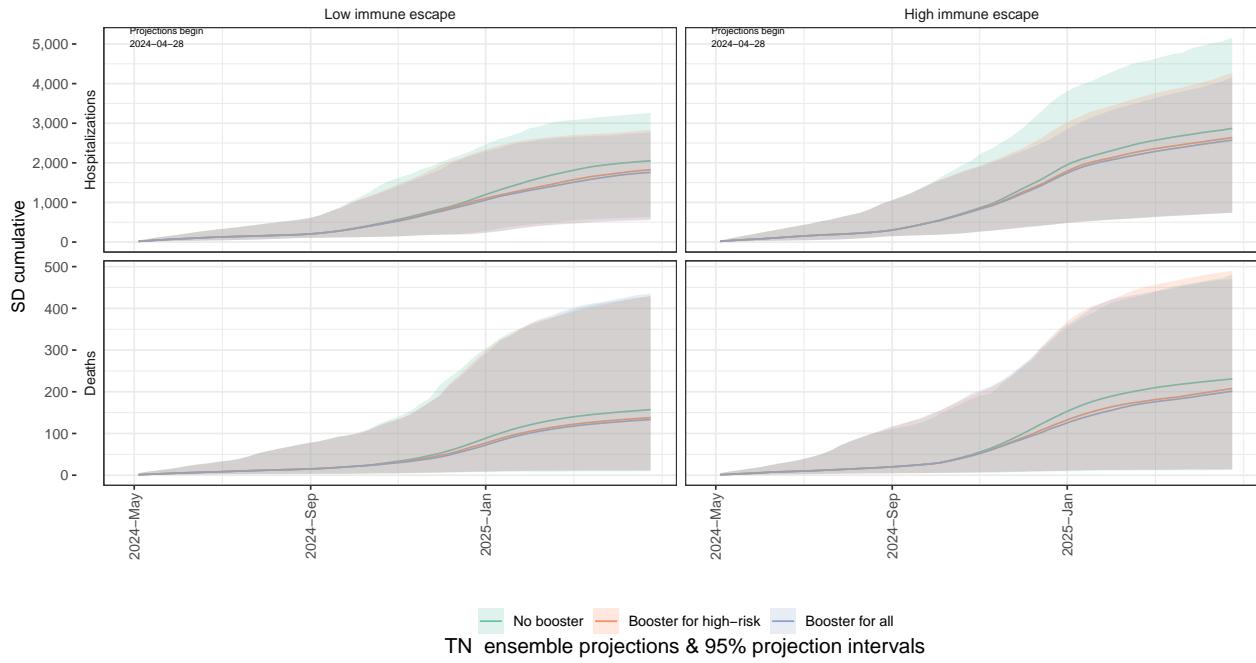
RI ensemble projections & 95% projection intervals



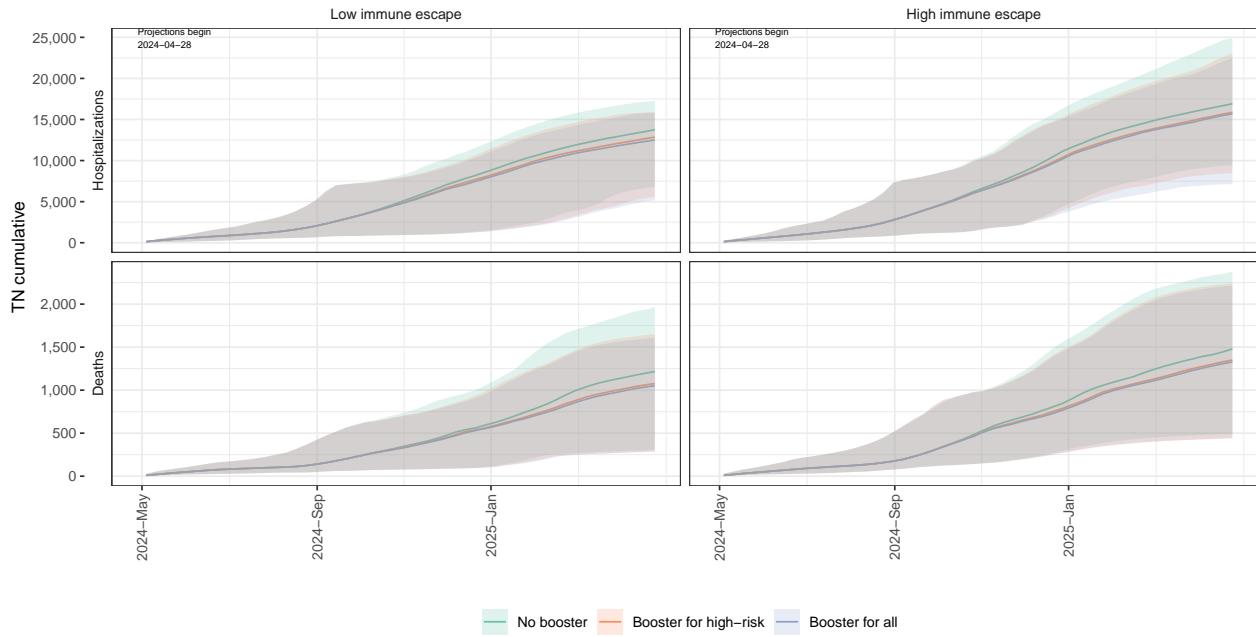
SC ensemble projections & 95% projection intervals



SD ensemble projections & 95% projection intervals

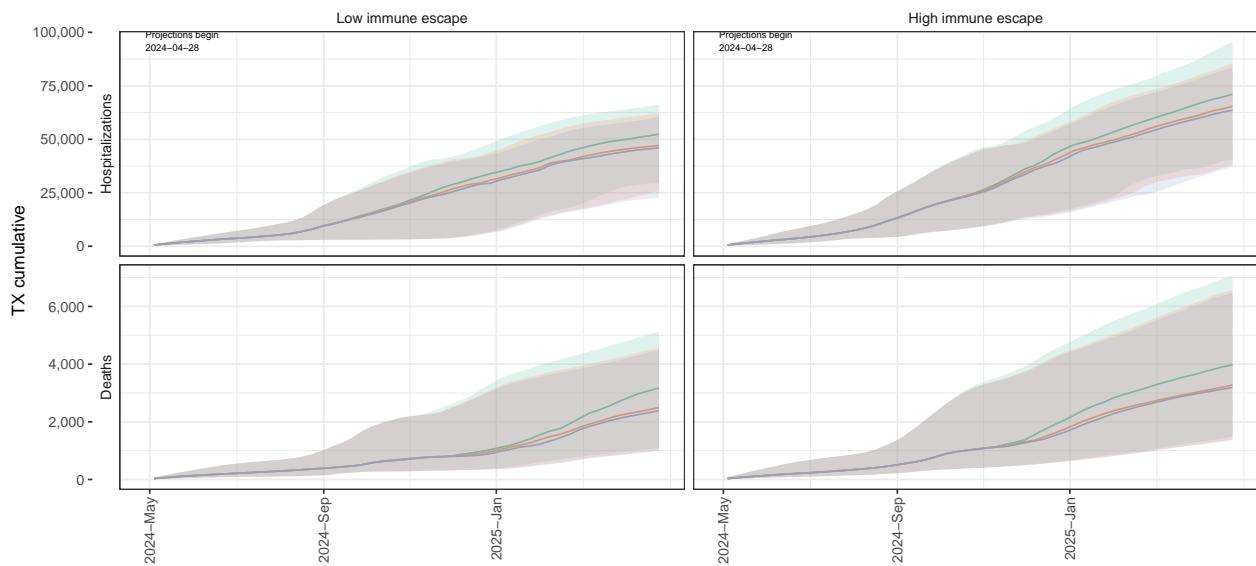


SD ensemble projections & 95% projection intervals

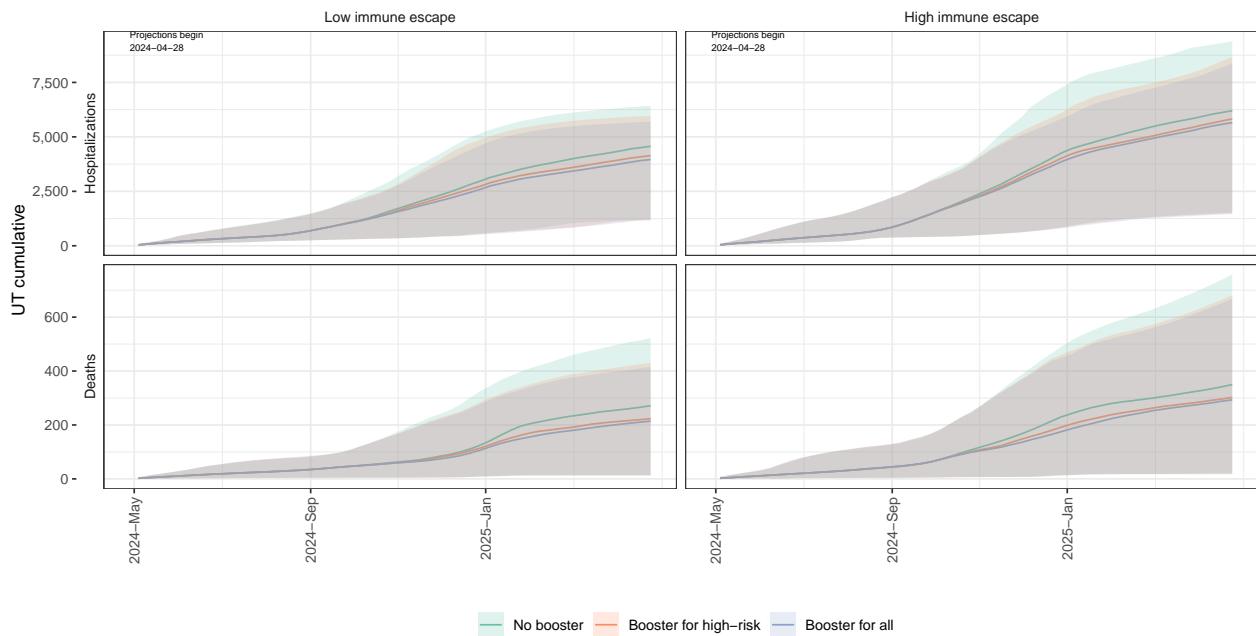


TN ensemble projections & 95% projection intervals

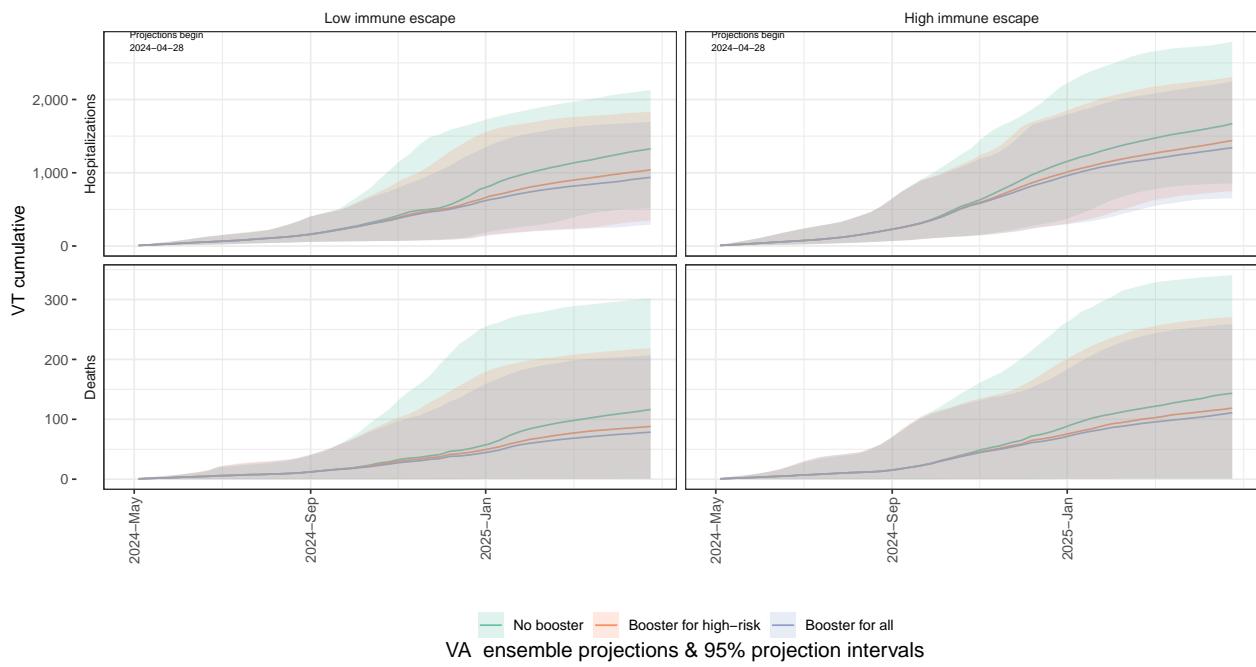
TX ensemble projections & 95% projection intervals



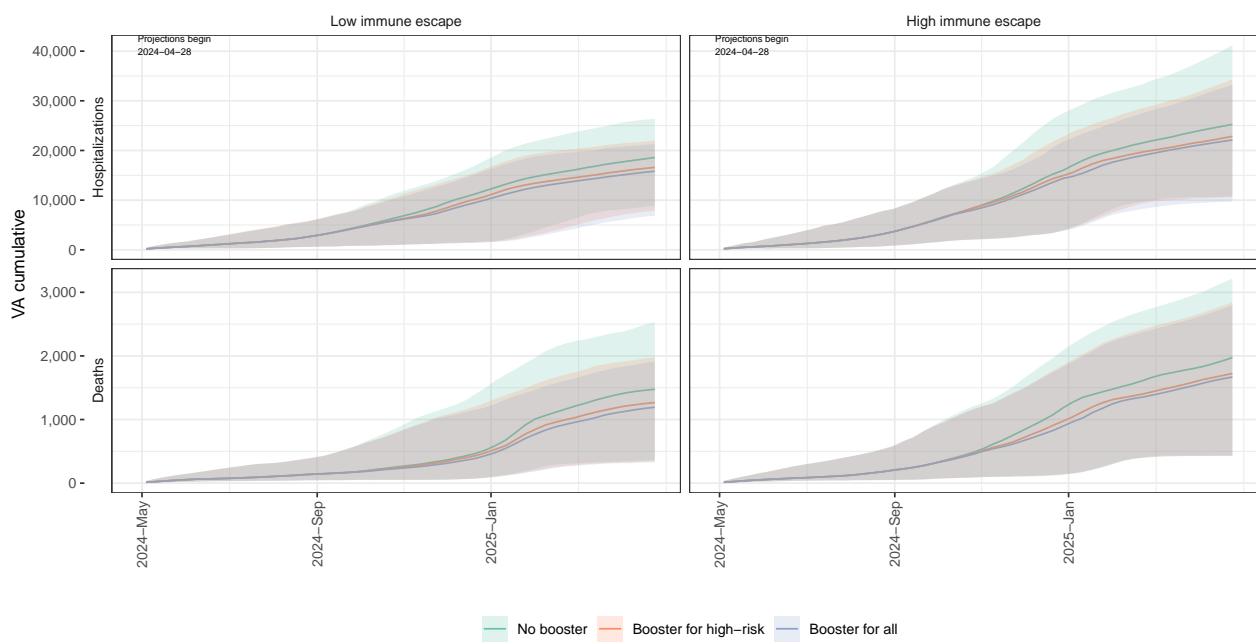
UT ensemble projections & 95% projection intervals



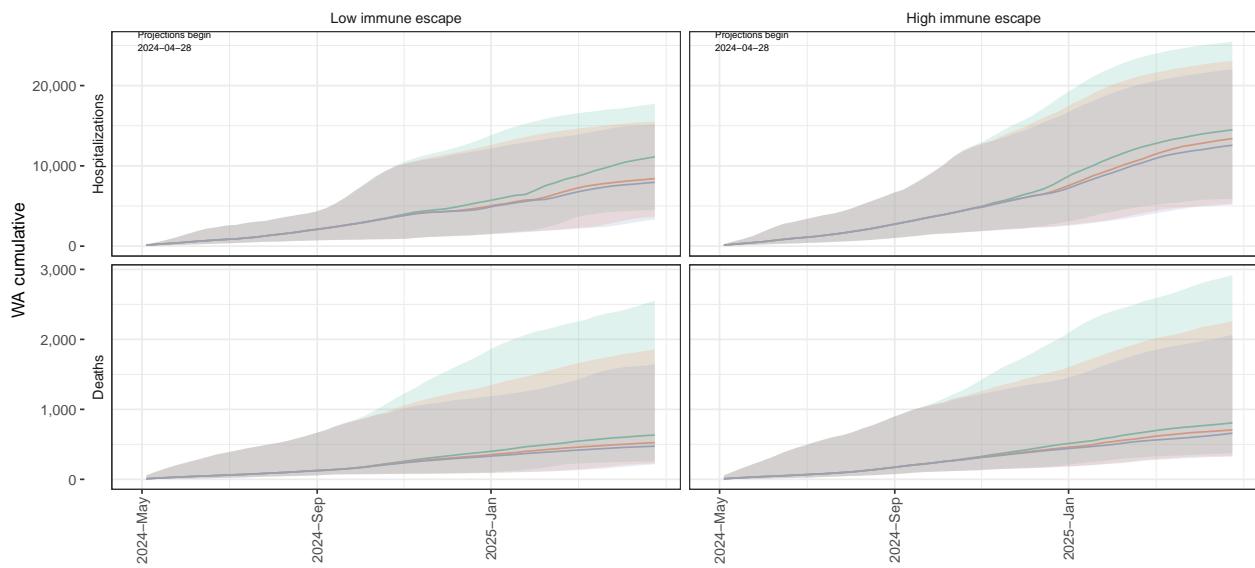
VT ensemble projections & 95% projection intervals



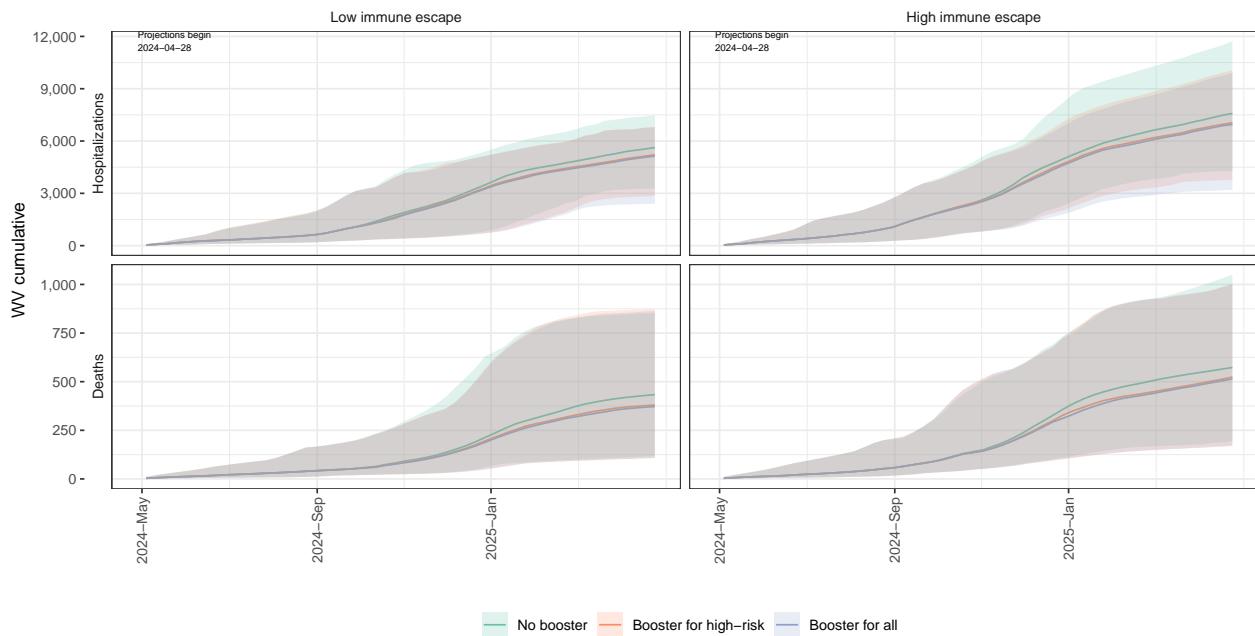
VA ensemble projections & 95% projection intervals



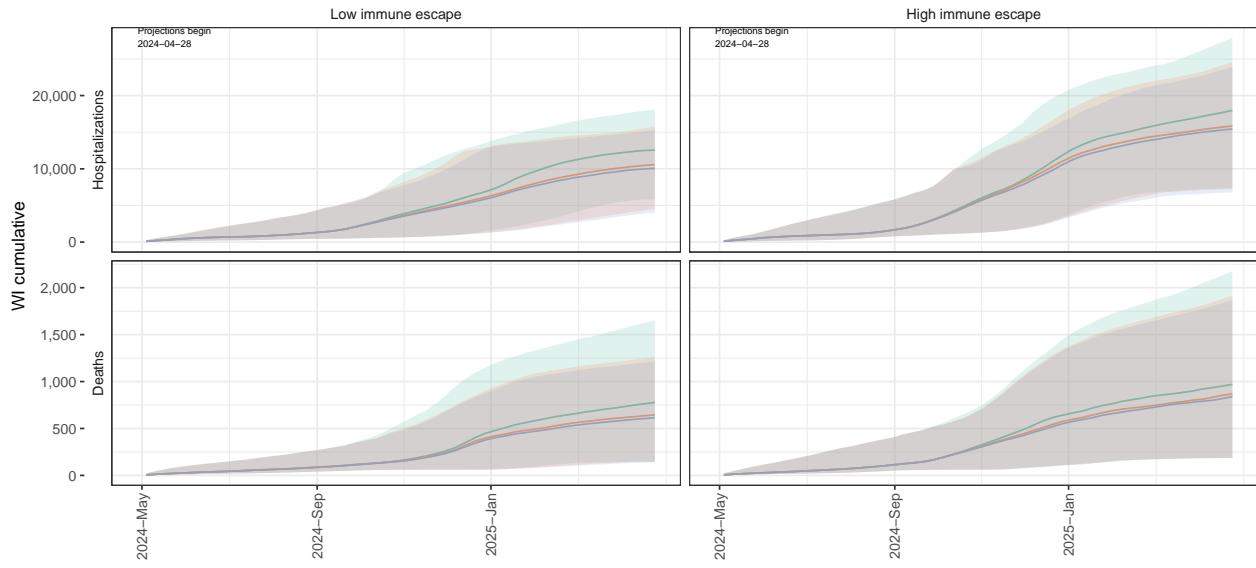
WA ensemble projections & 95% projection intervals



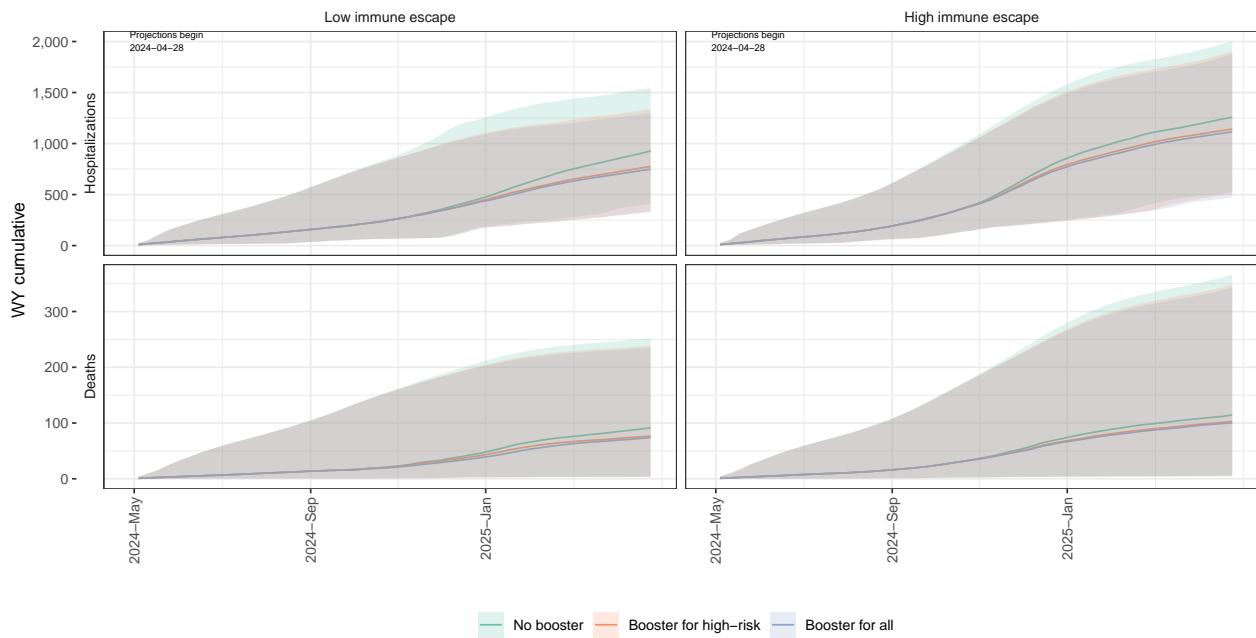
WV ensemble projections & 95% projection intervals



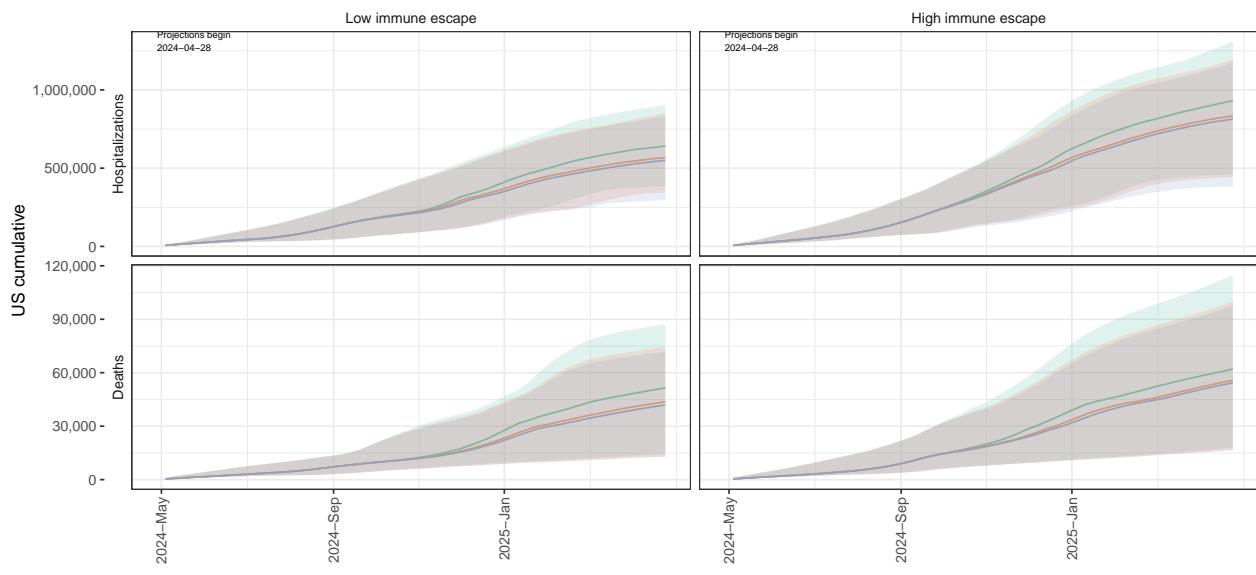
WI ensemble projections & 95% projection intervals



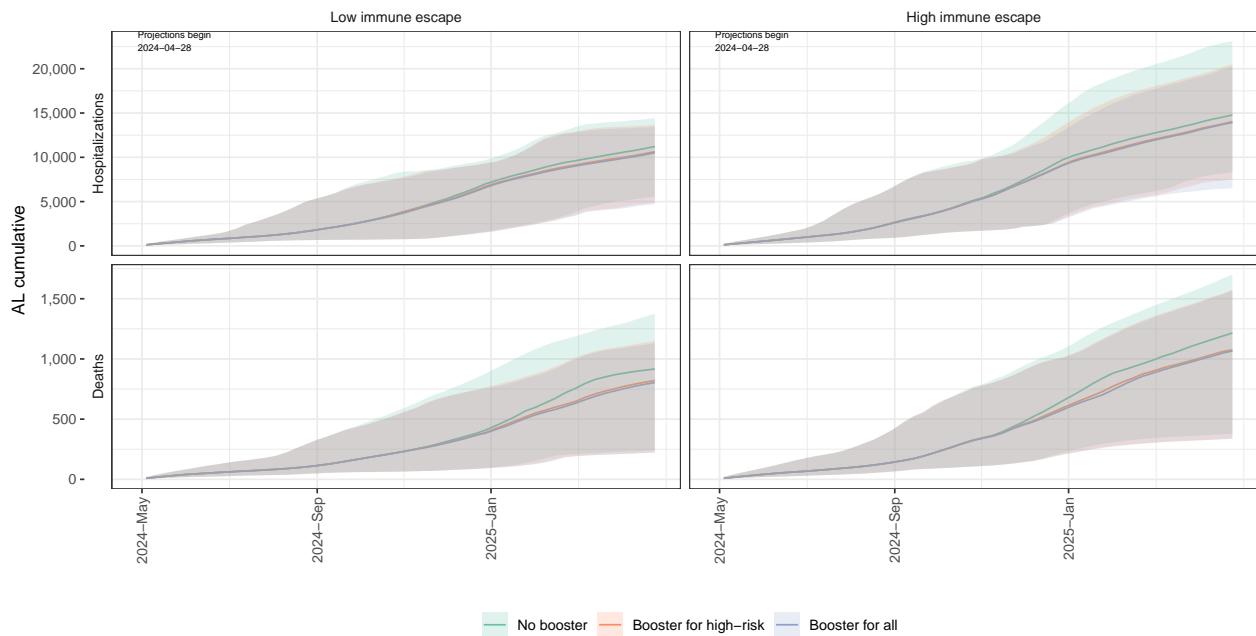
WI ensemble projections & 95% projection intervals



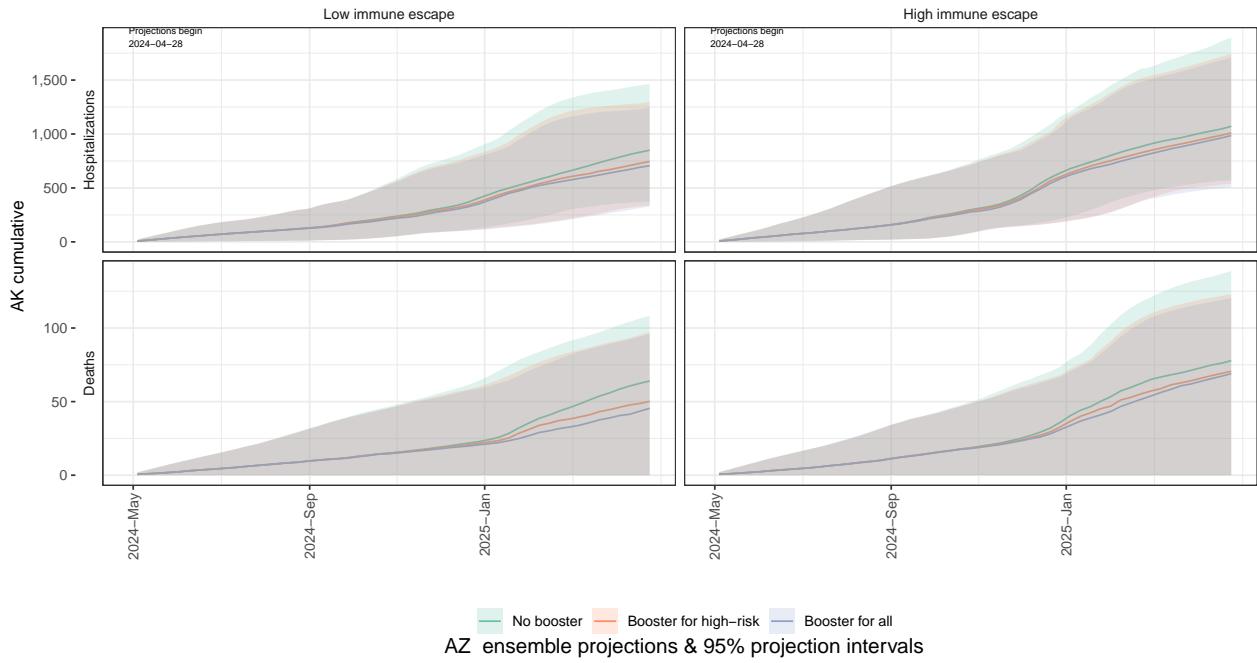
US ensemble projections & 95% projection intervals



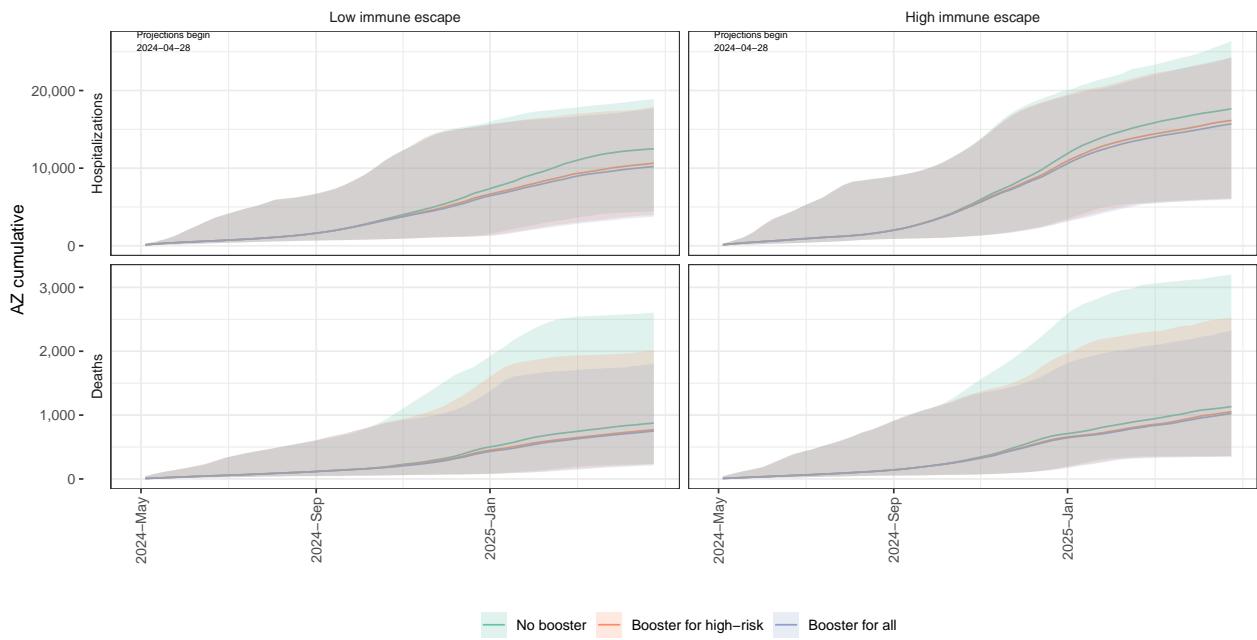
AL ensemble projections & 95% projection intervals



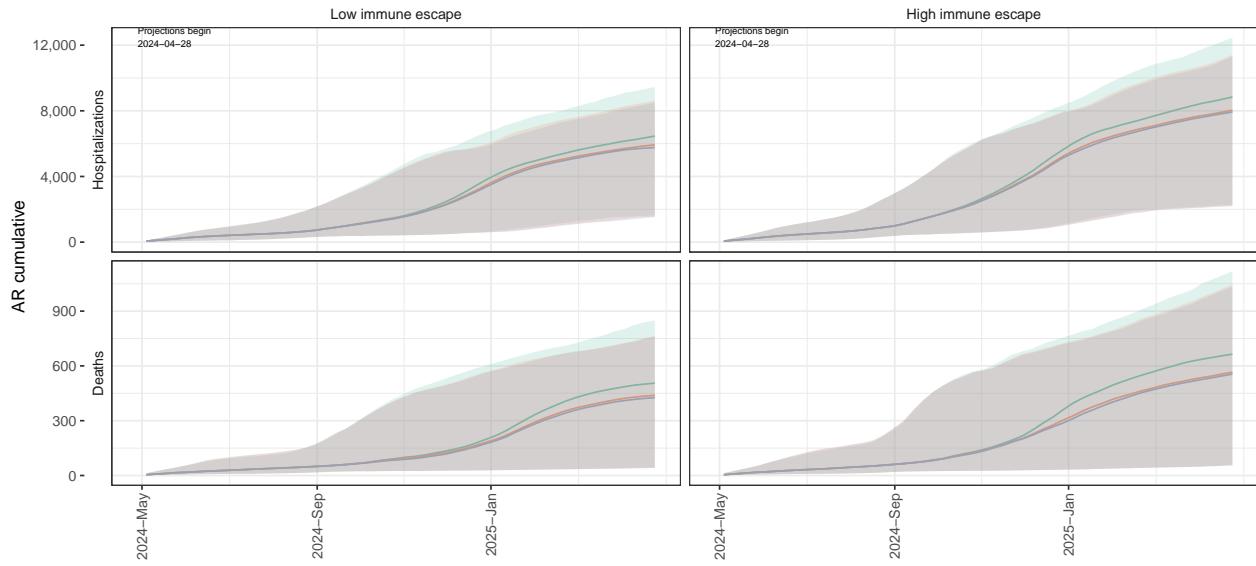
AK ensemble projections & 95% projection intervals



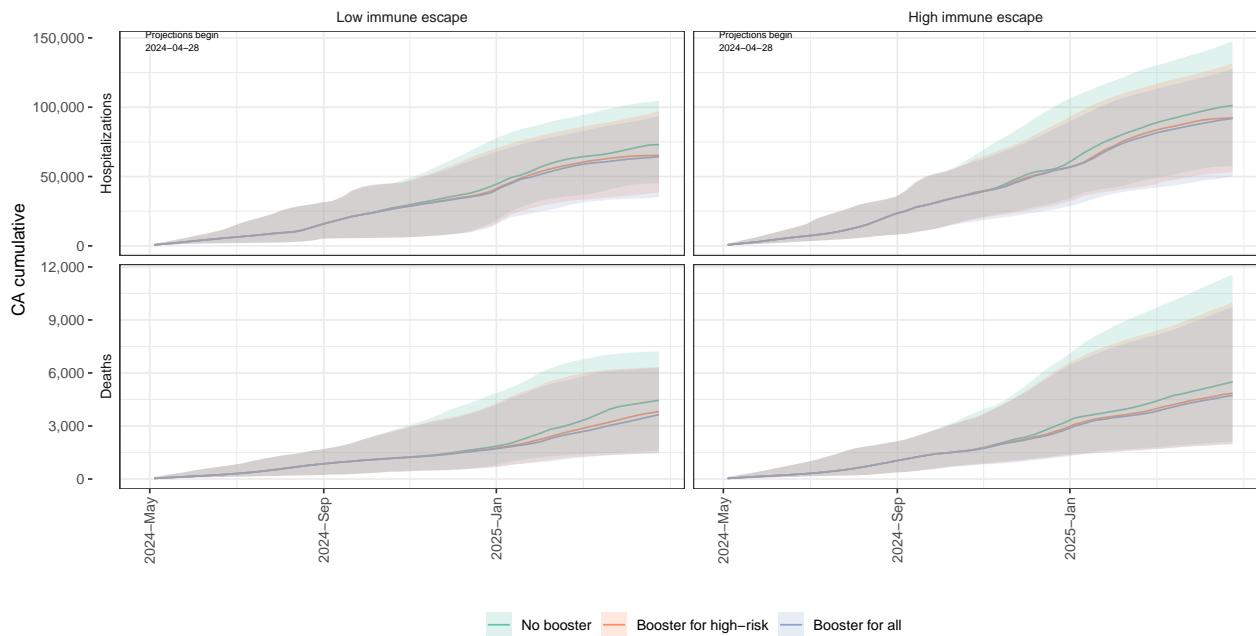
AZ ensemble projections & 95% projection intervals



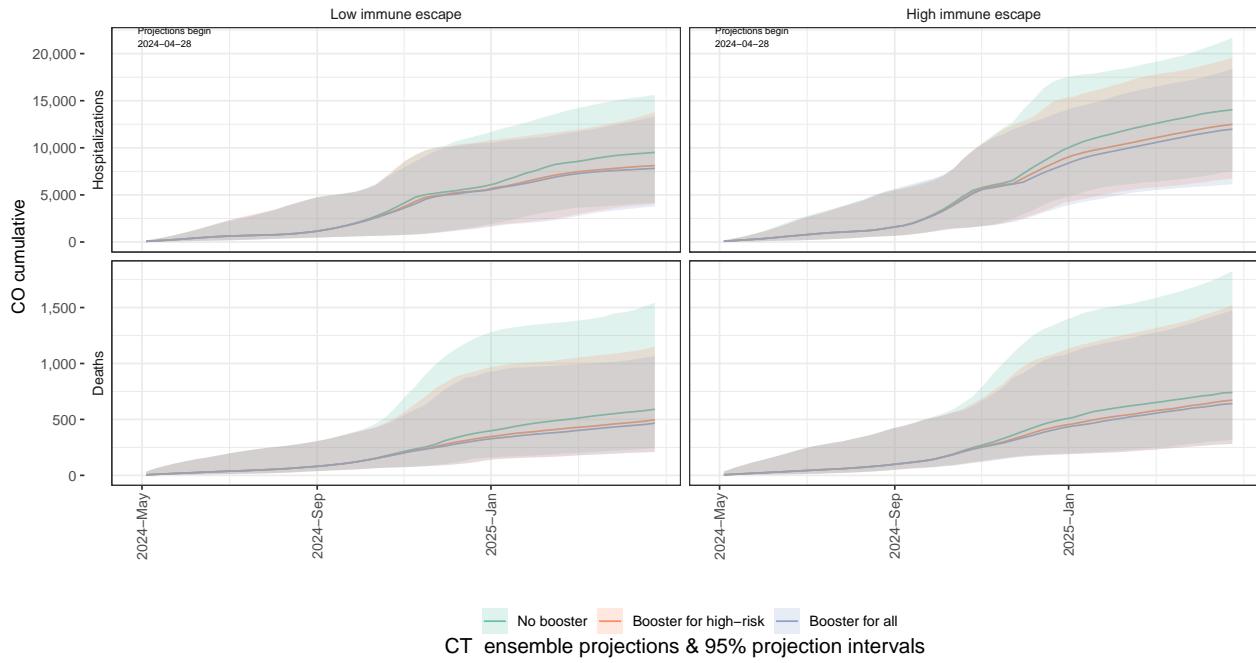
AR ensemble projections & 95% projection intervals



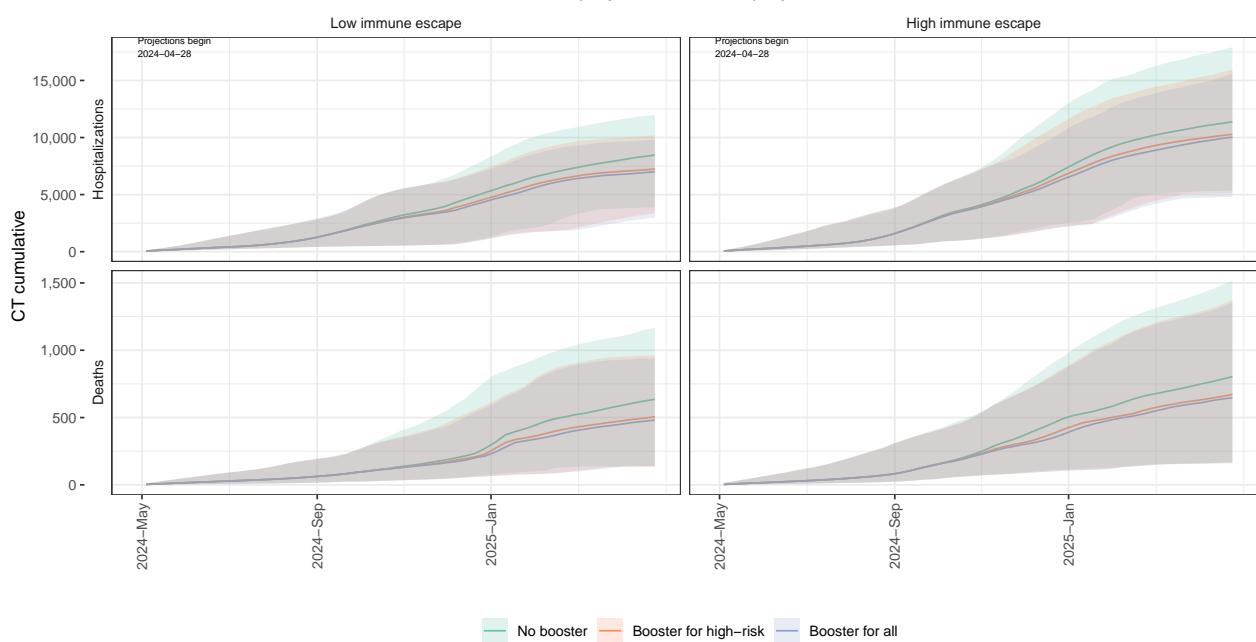
CA ensemble projections & 95% projection intervals



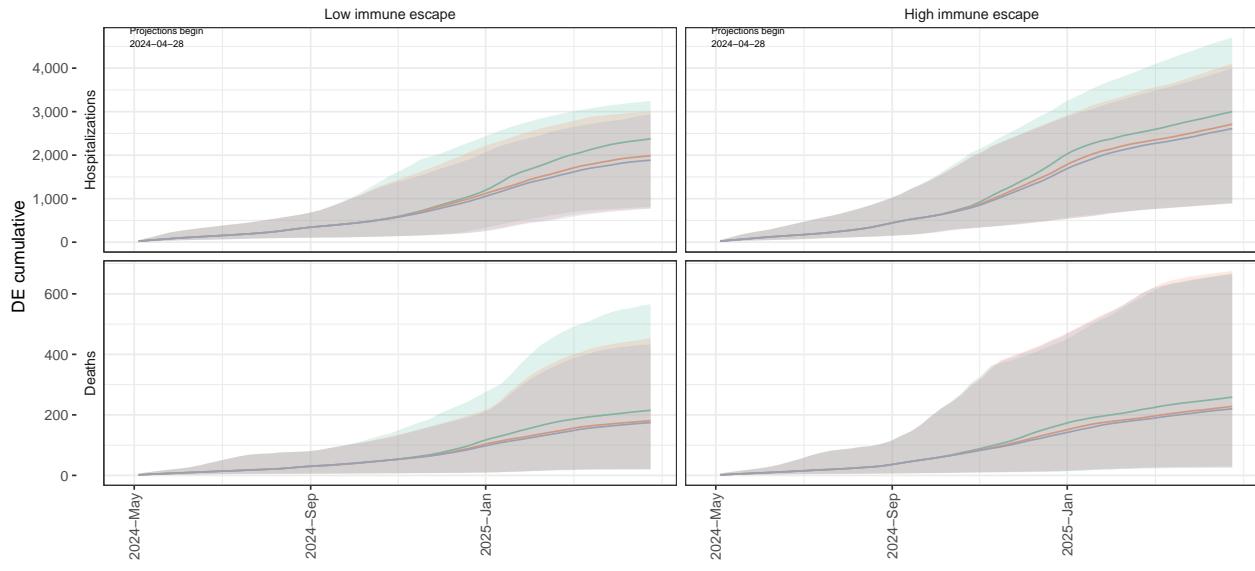
CO ensemble projections & 95% projection intervals



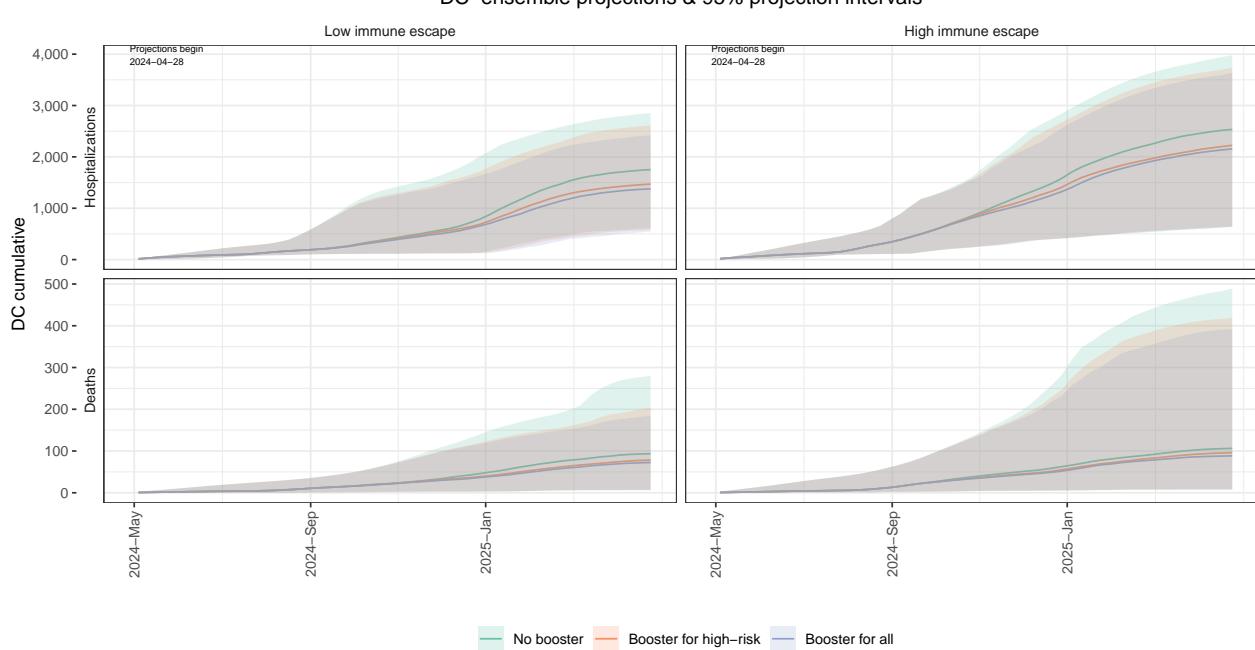
CT ensemble projections & 95% projection intervals



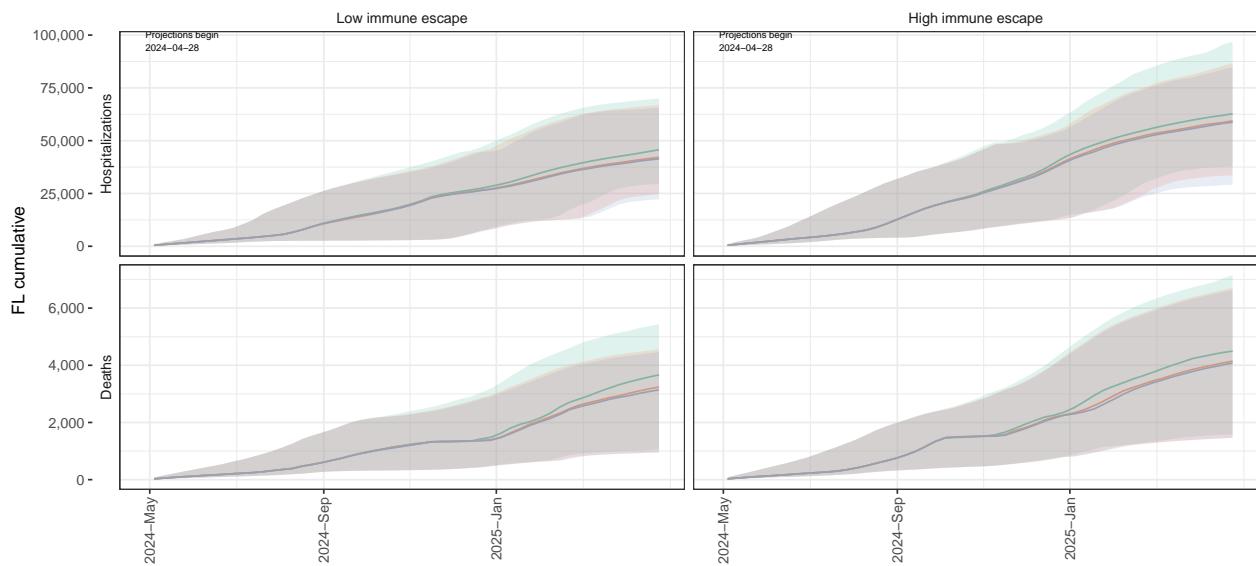
DE ensemble projections & 95% projection intervals



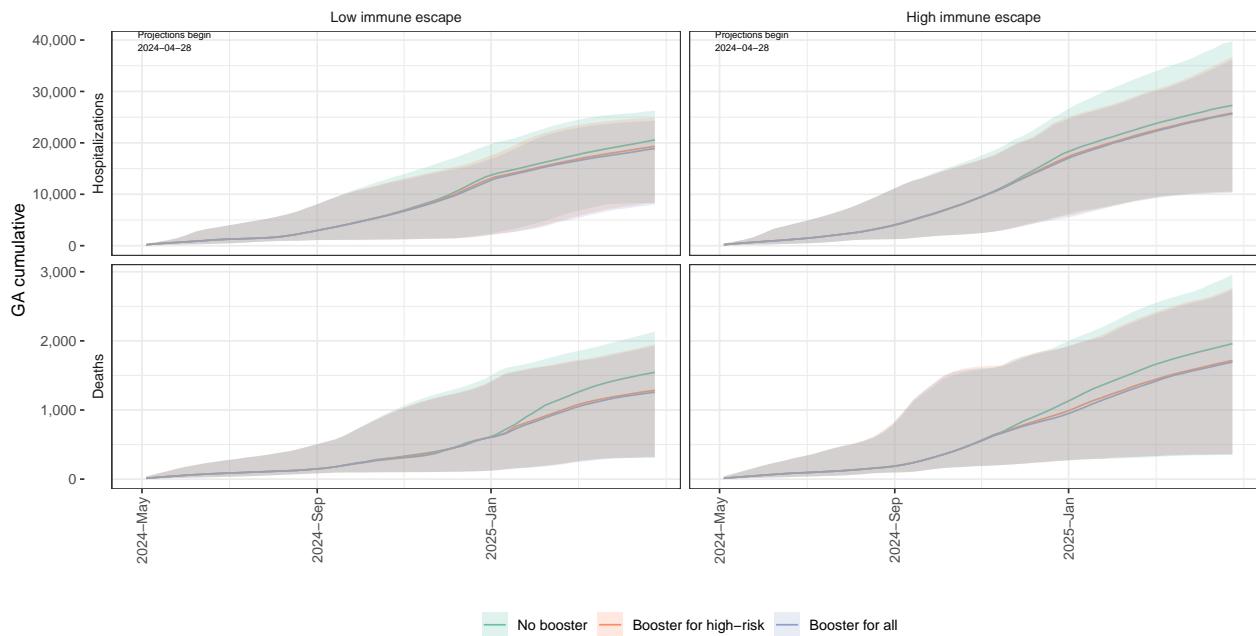
DC ensemble projections & 95% projection intervals



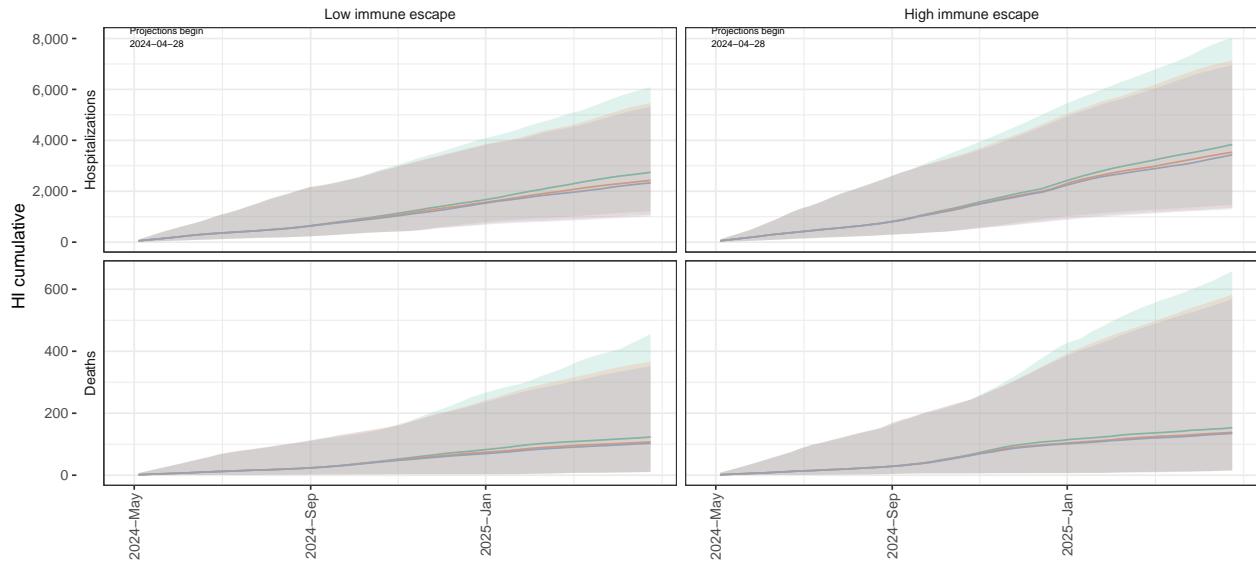
FL ensemble projections & 95% projection intervals



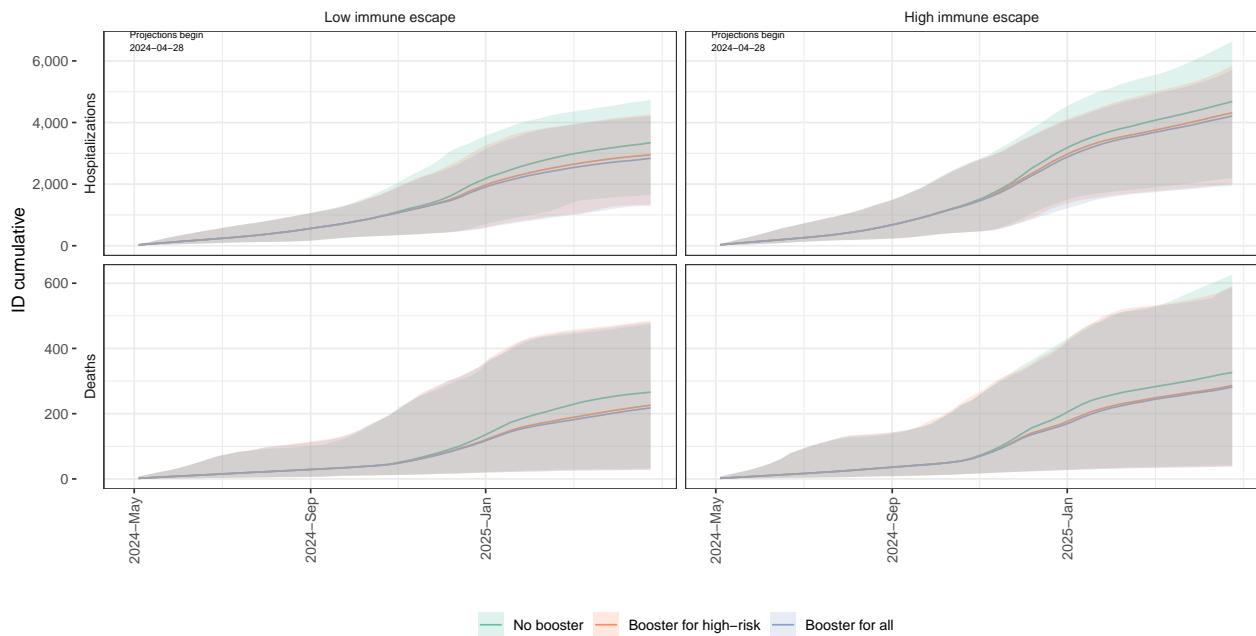
GA ensemble projections & 95% projection intervals



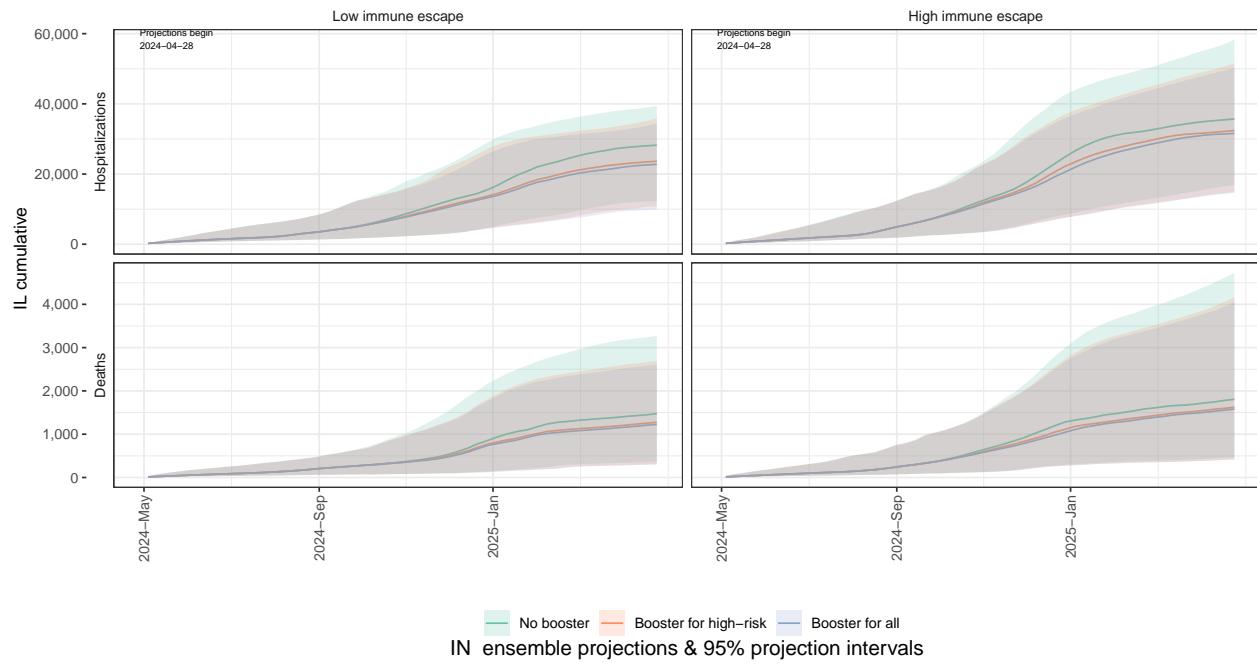
H1 ensemble projections & 95% projection intervals



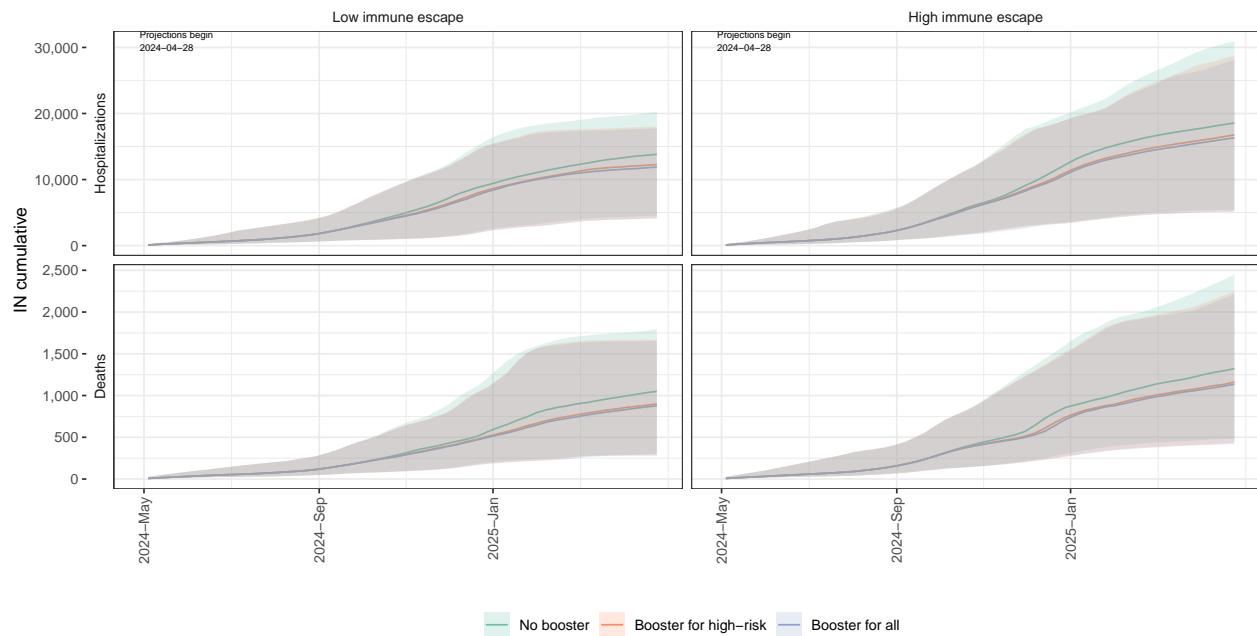
ID ensemble projections & 95% projection intervals



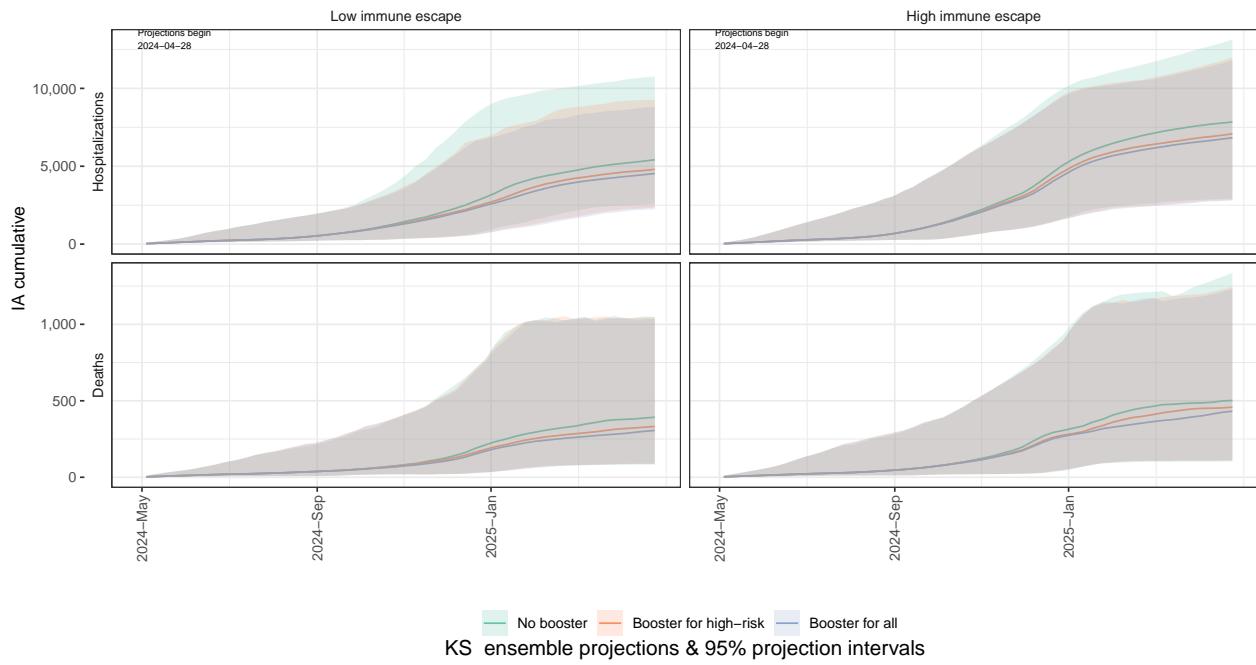
IL ensemble projections & 95% projection intervals



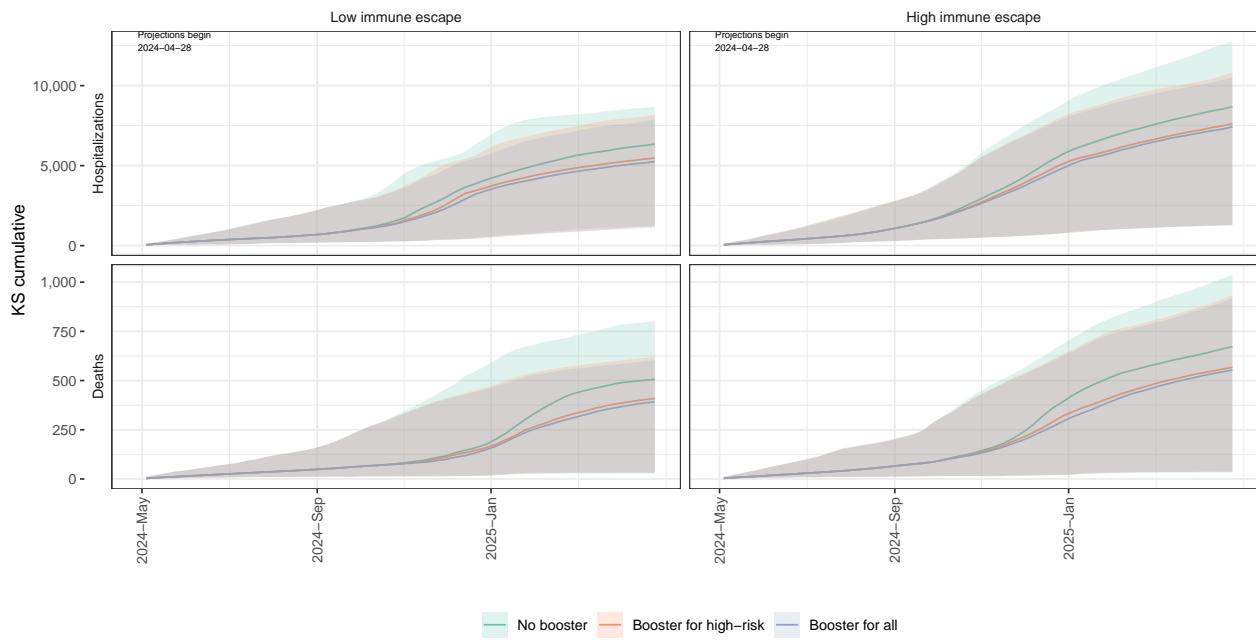
IL ensemble projections & 95% projection intervals



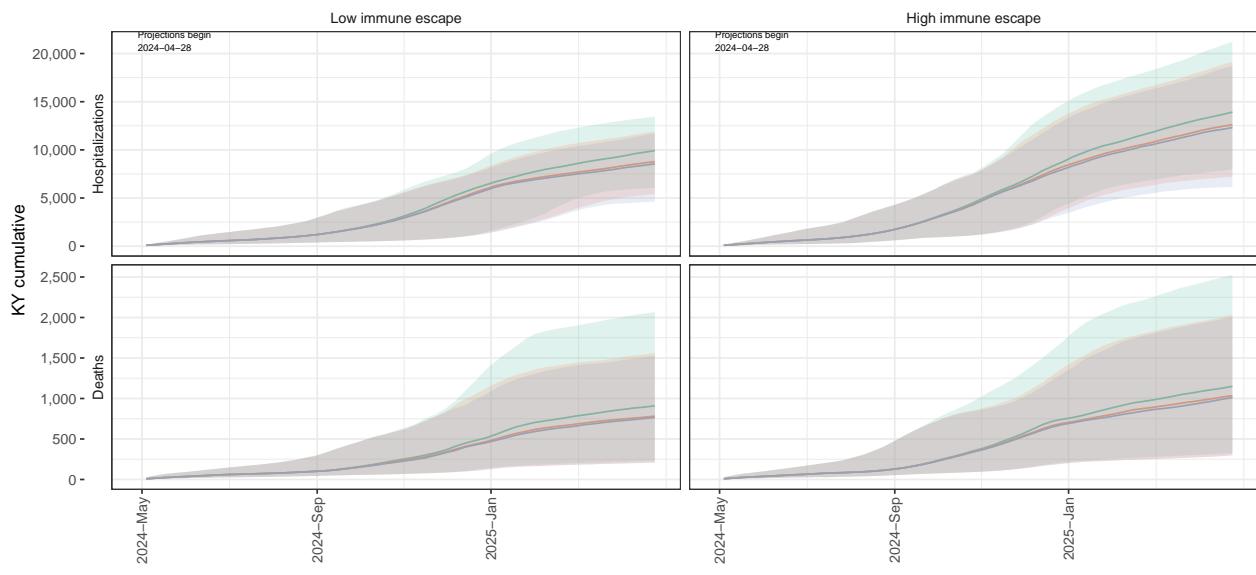
IA ensemble projections & 95% projection intervals



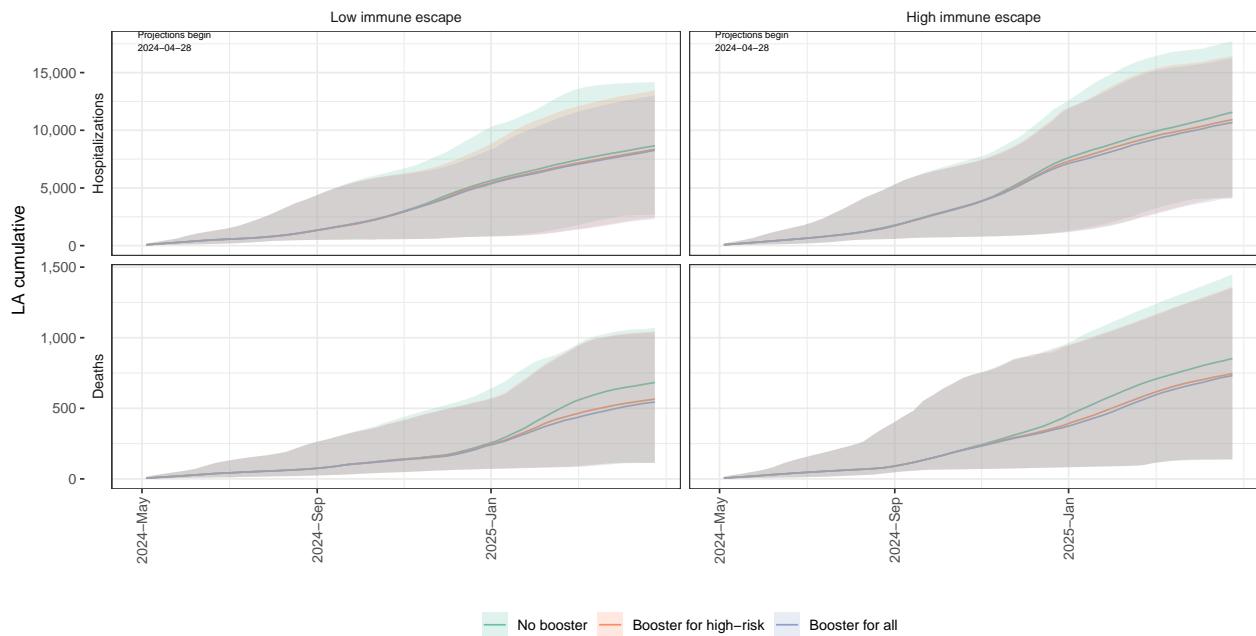
KS ensemble projections & 95% projection intervals



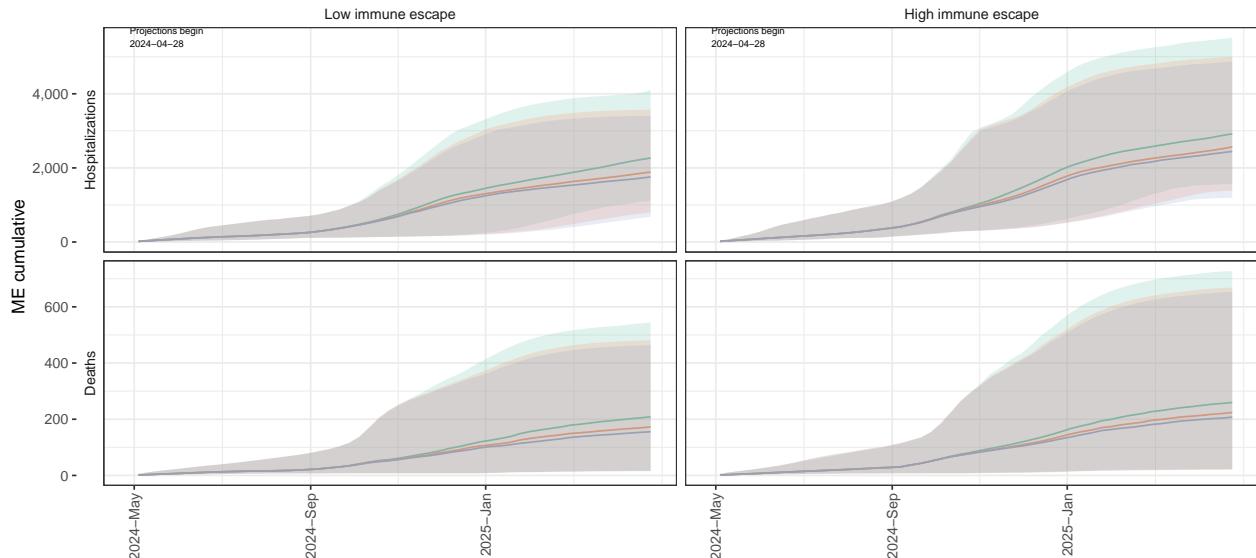
KY ensemble projections & 95% projection intervals



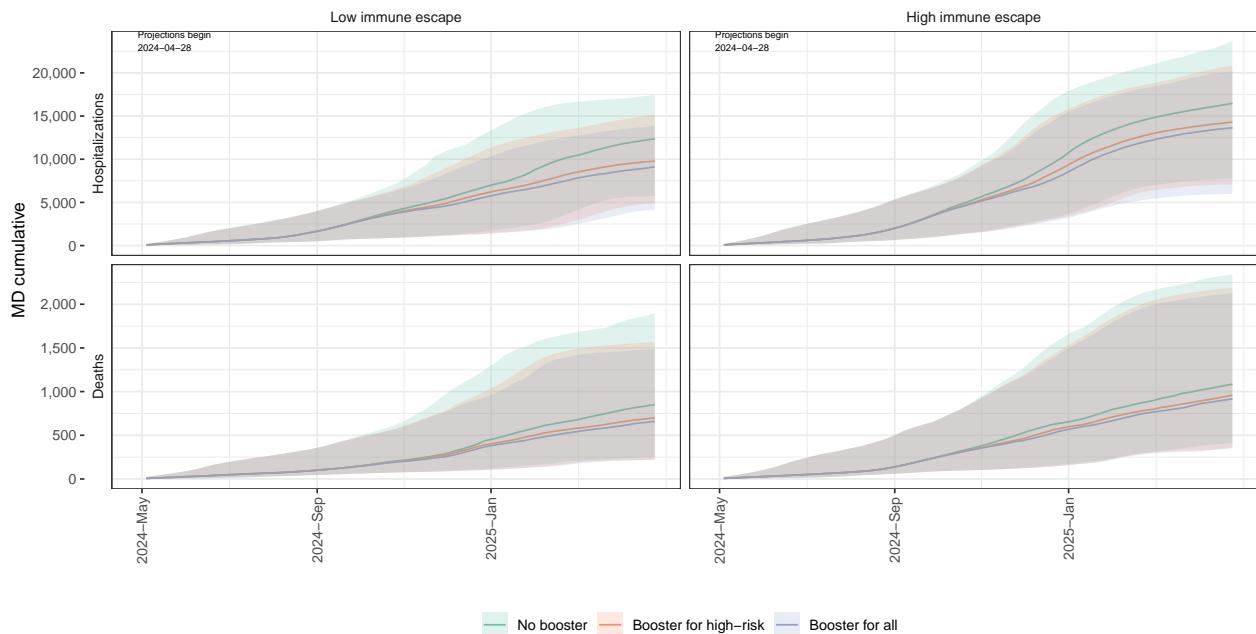
LA ensemble projections & 95% projection intervals



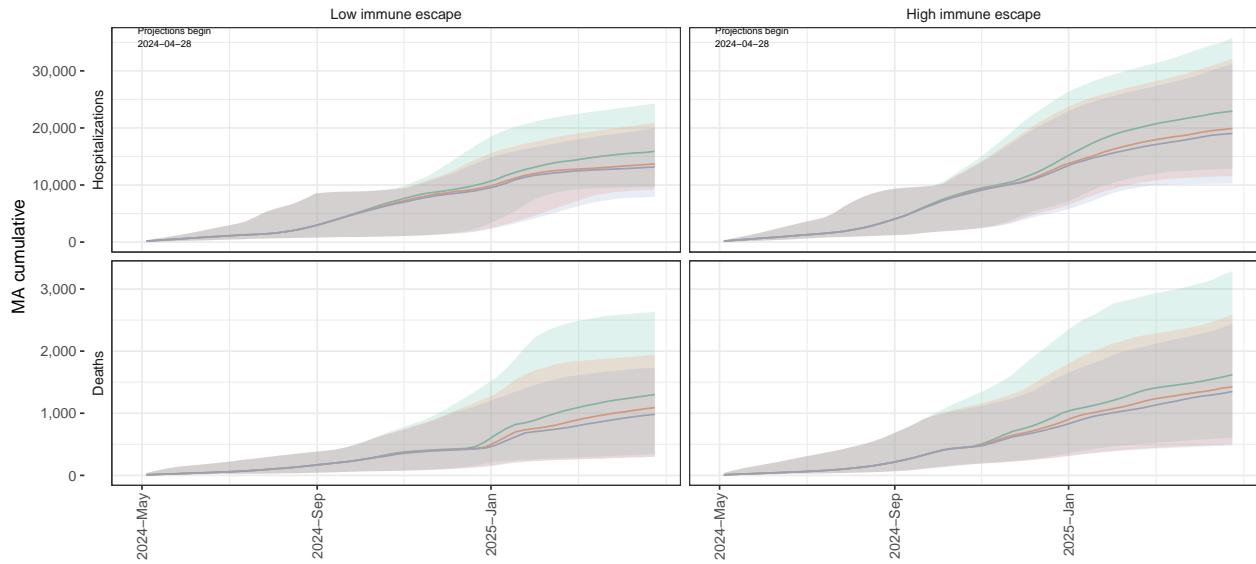
ME ensemble projections & 95% projection intervals



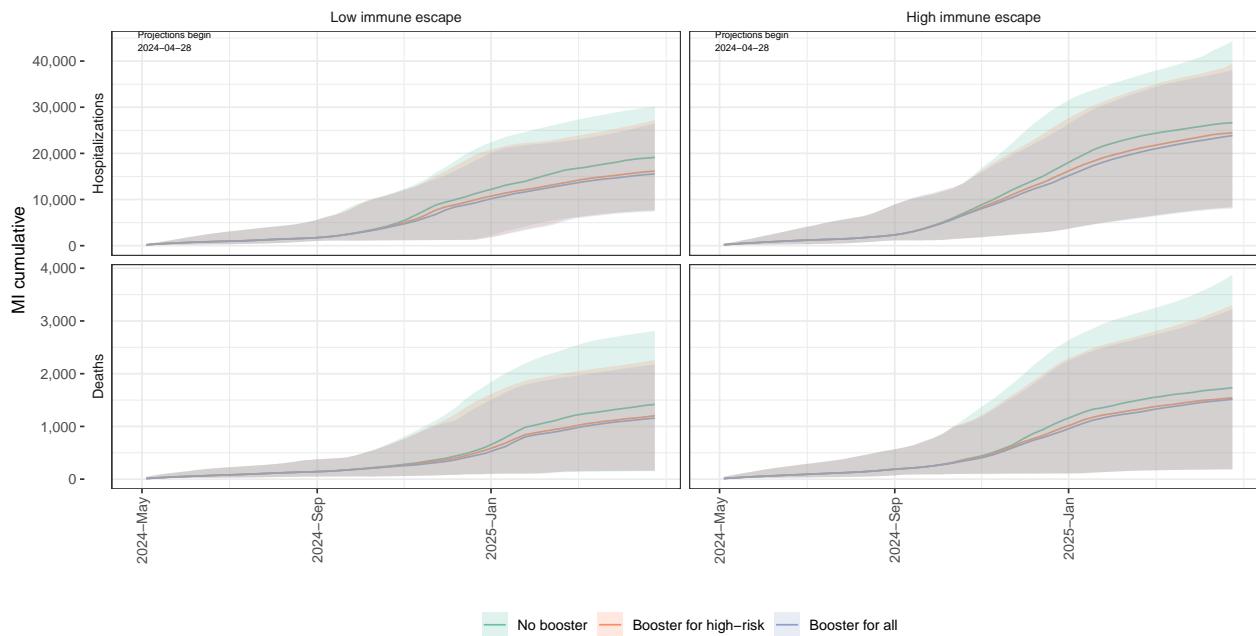
MD ensemble projections & 95% projection intervals



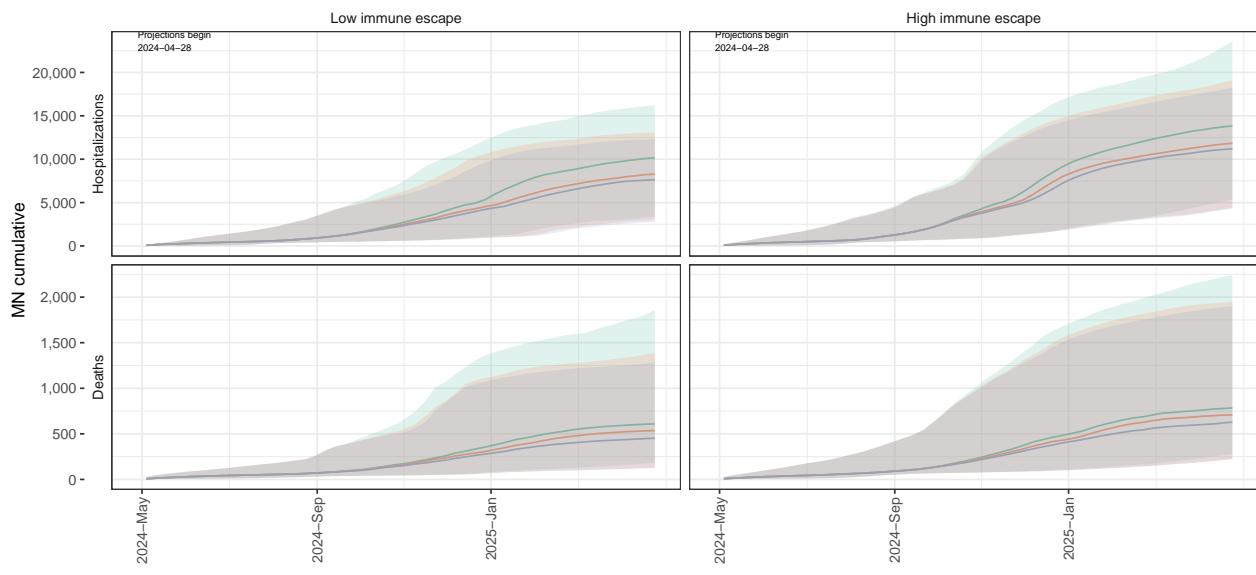
MA ensemble projections & 95% projection intervals



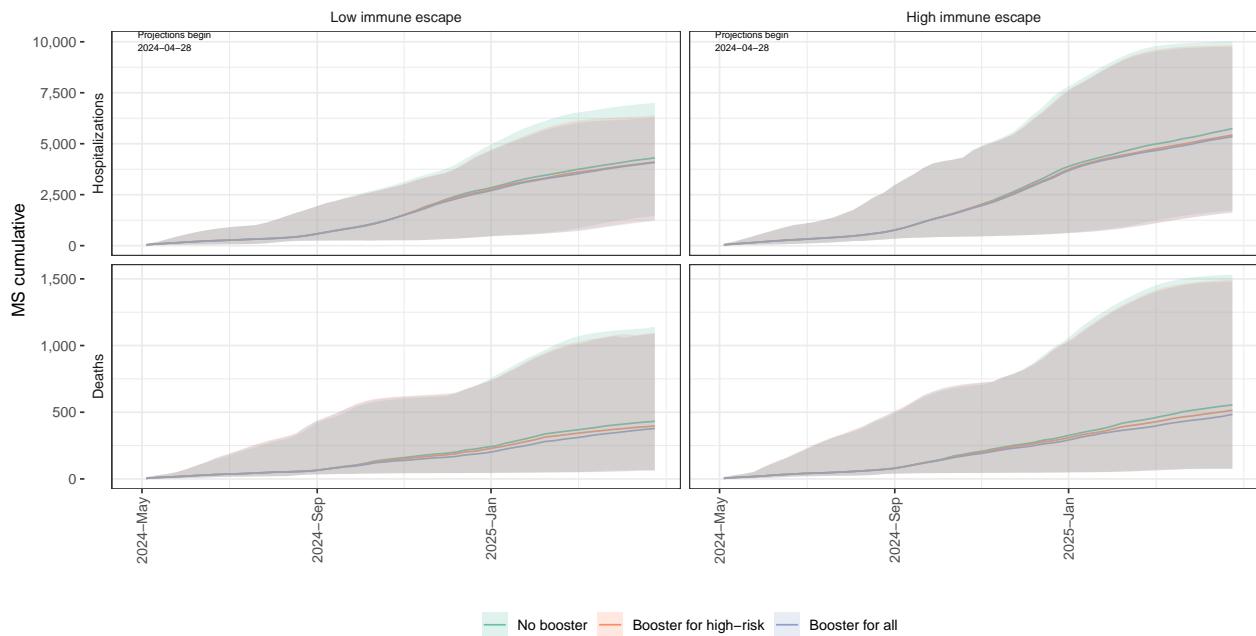
MI ensemble projections & 95% projection intervals



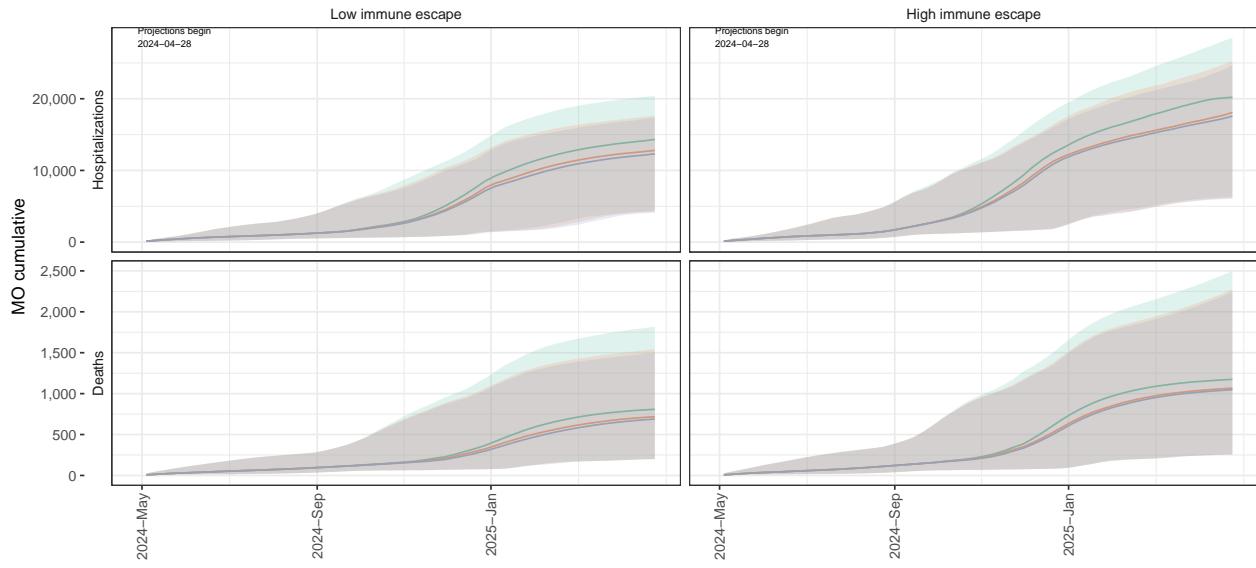
MN ensemble projections & 95% projection intervals



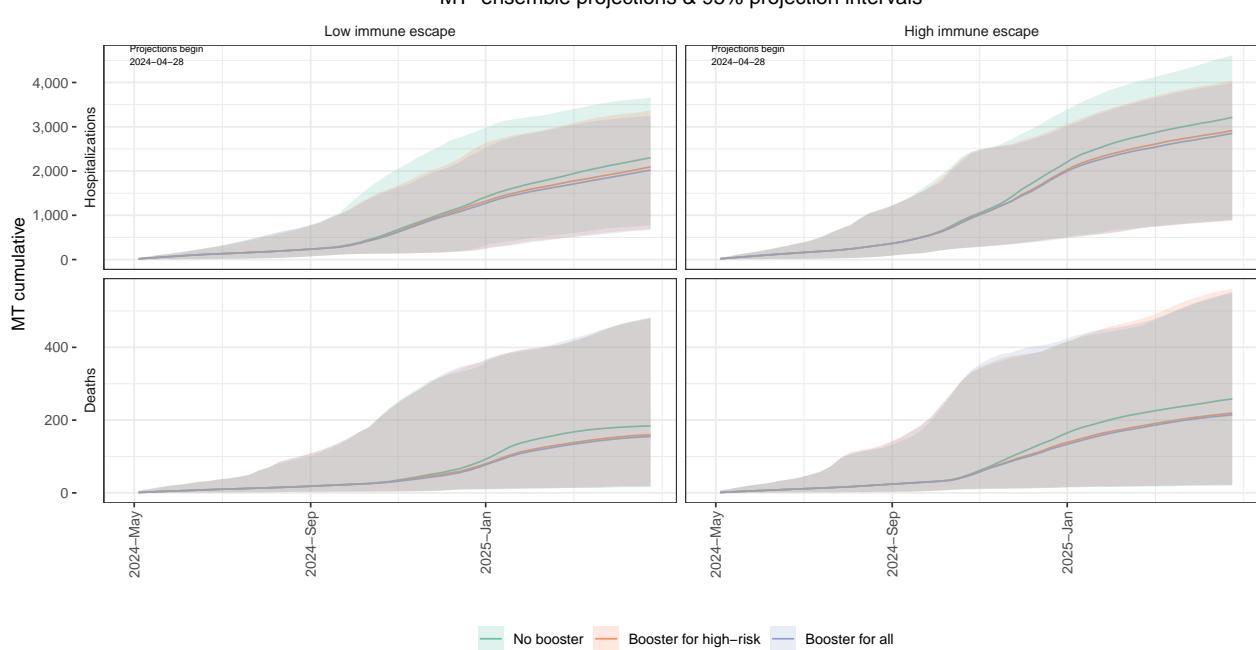
MS ensemble projections & 95% projection intervals



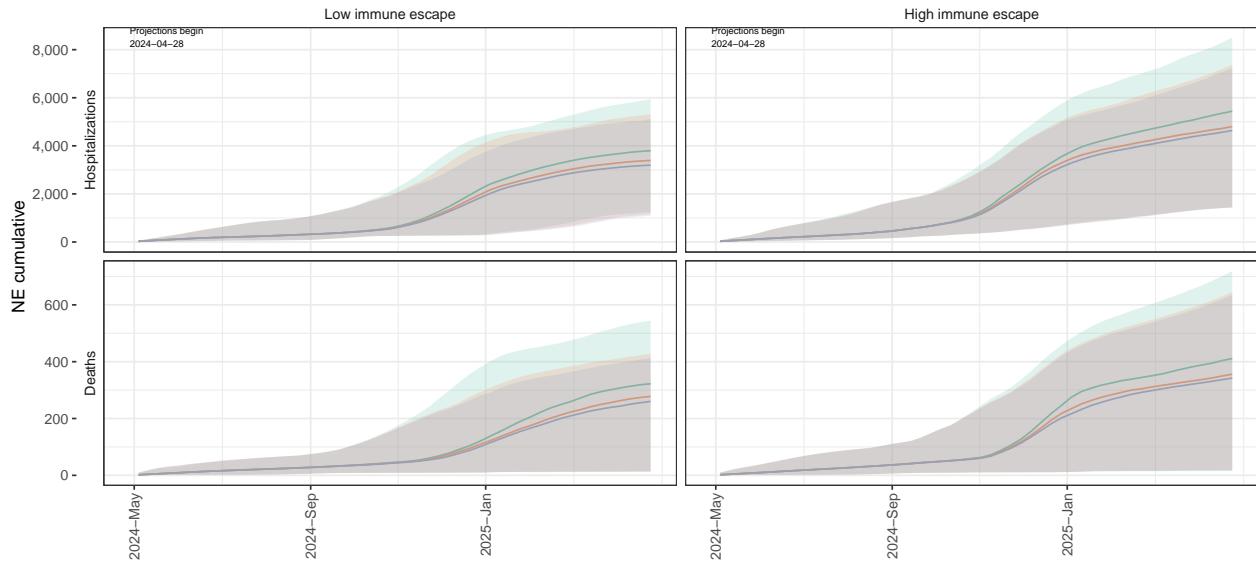
MO ensemble projections & 95% projection intervals



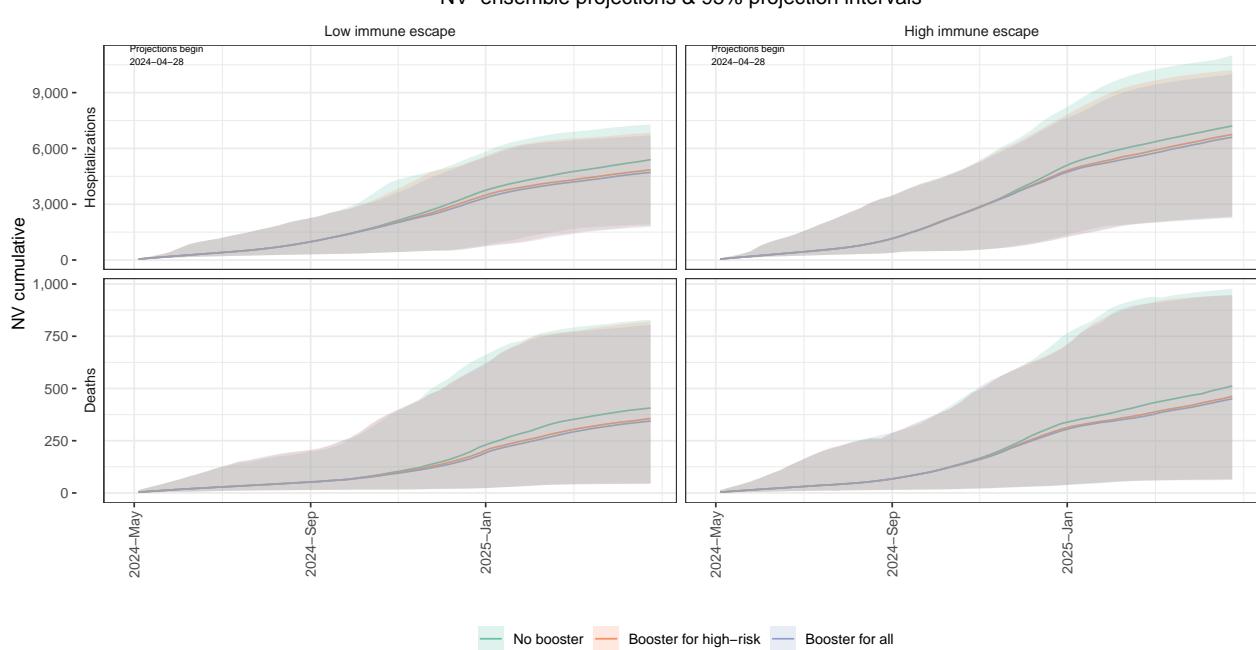
MT ensemble projections & 95% projection intervals



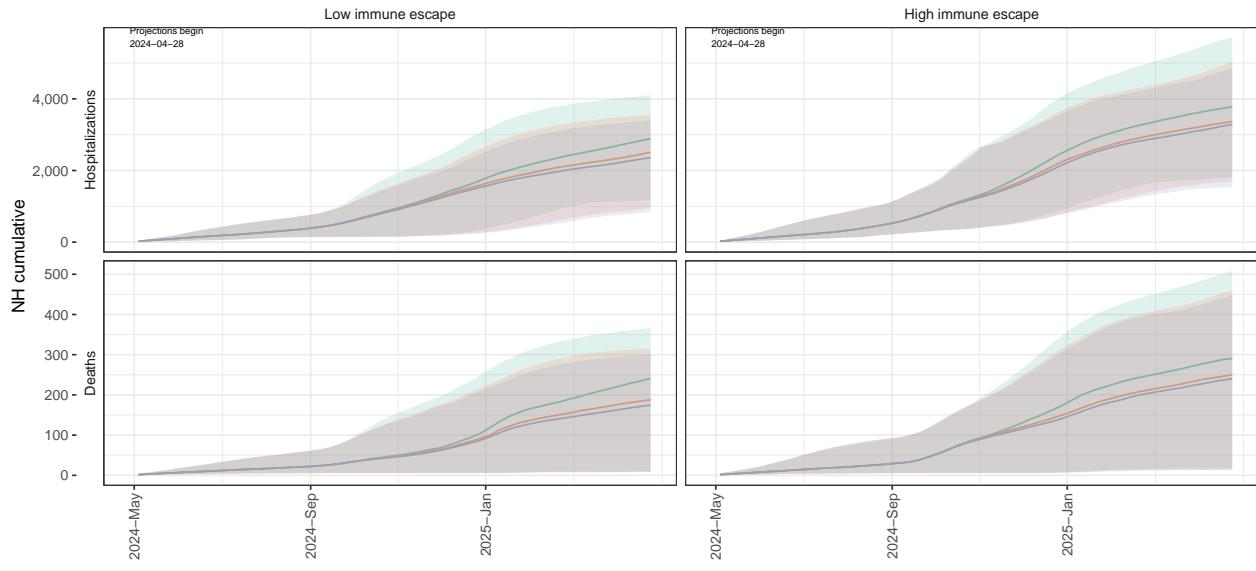
NE ensemble projections & 95% projection intervals



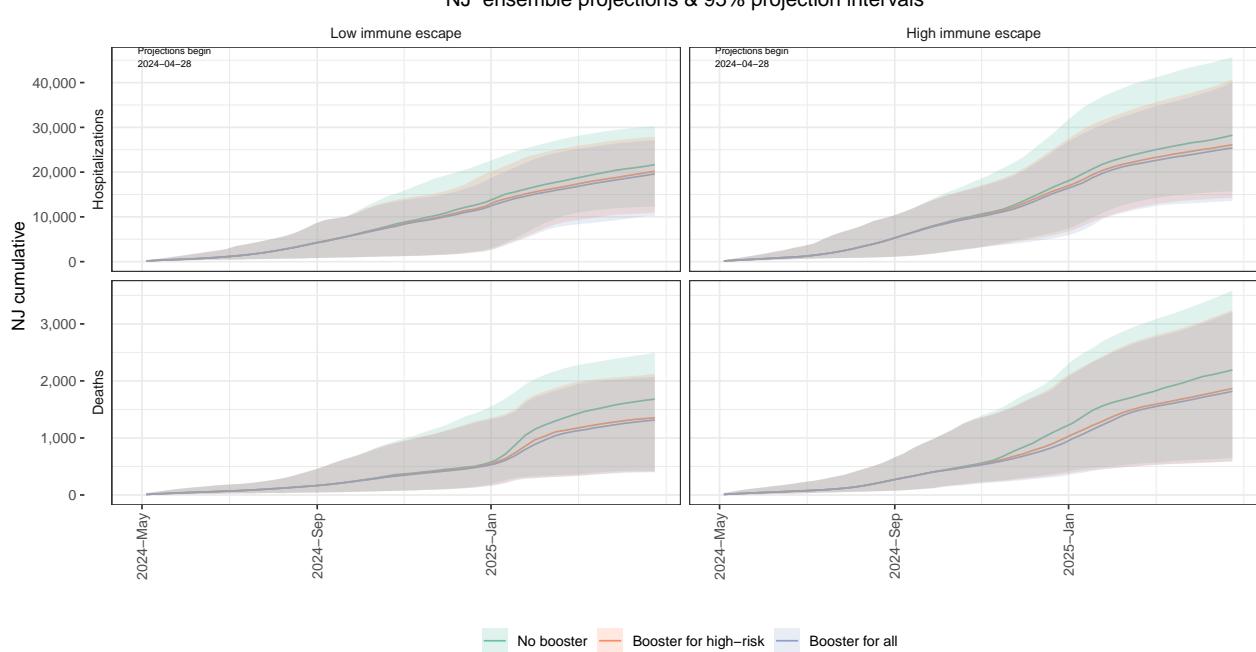
NV ensemble projections & 95% projection intervals



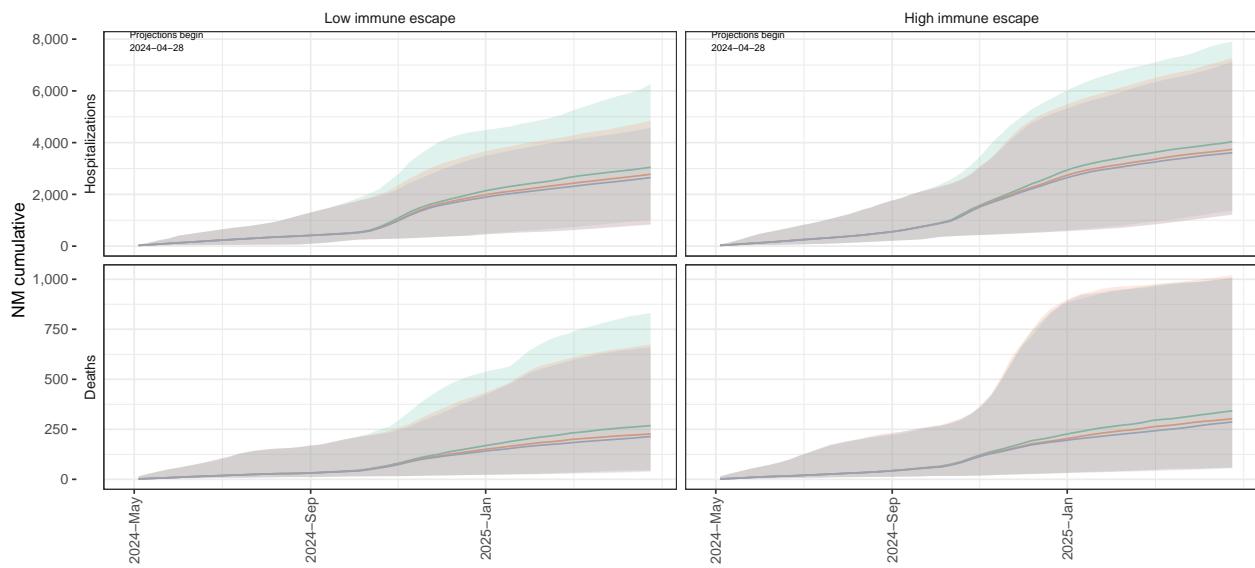
NH ensemble projections & 95% projection intervals



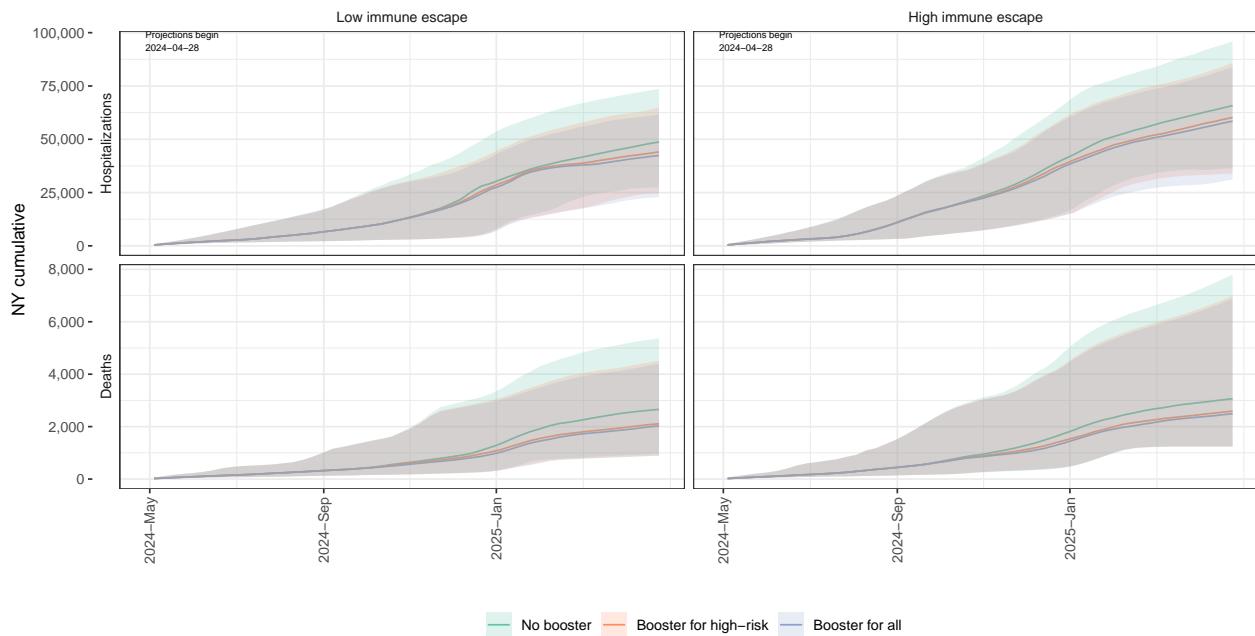
NJ ensemble projections & 95% projection intervals



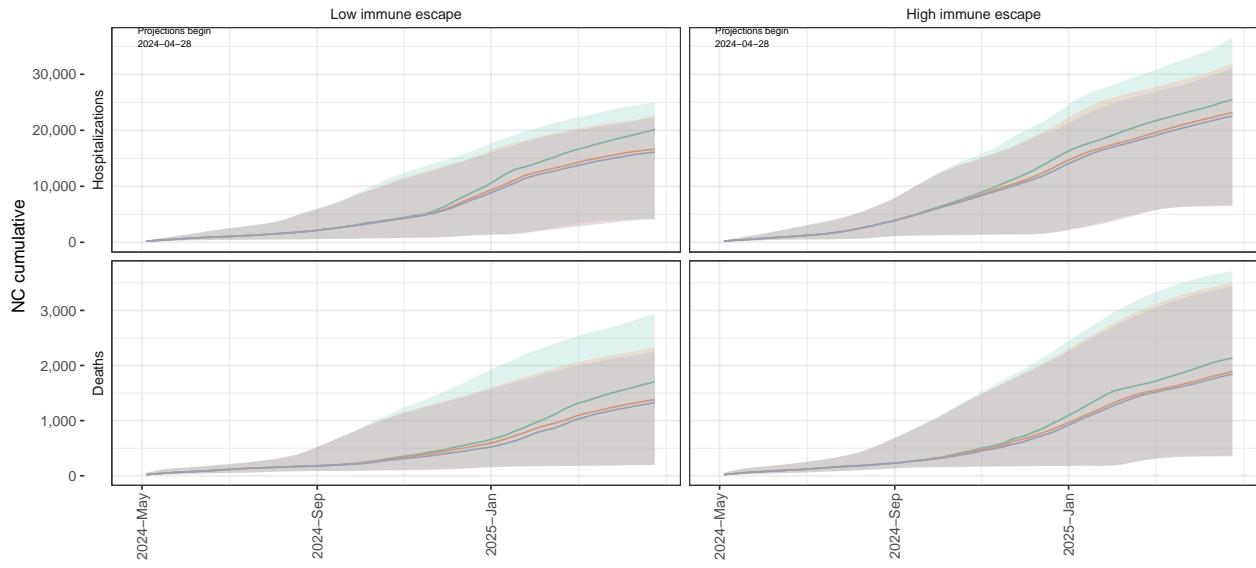
NM ensemble projections & 95% projection intervals



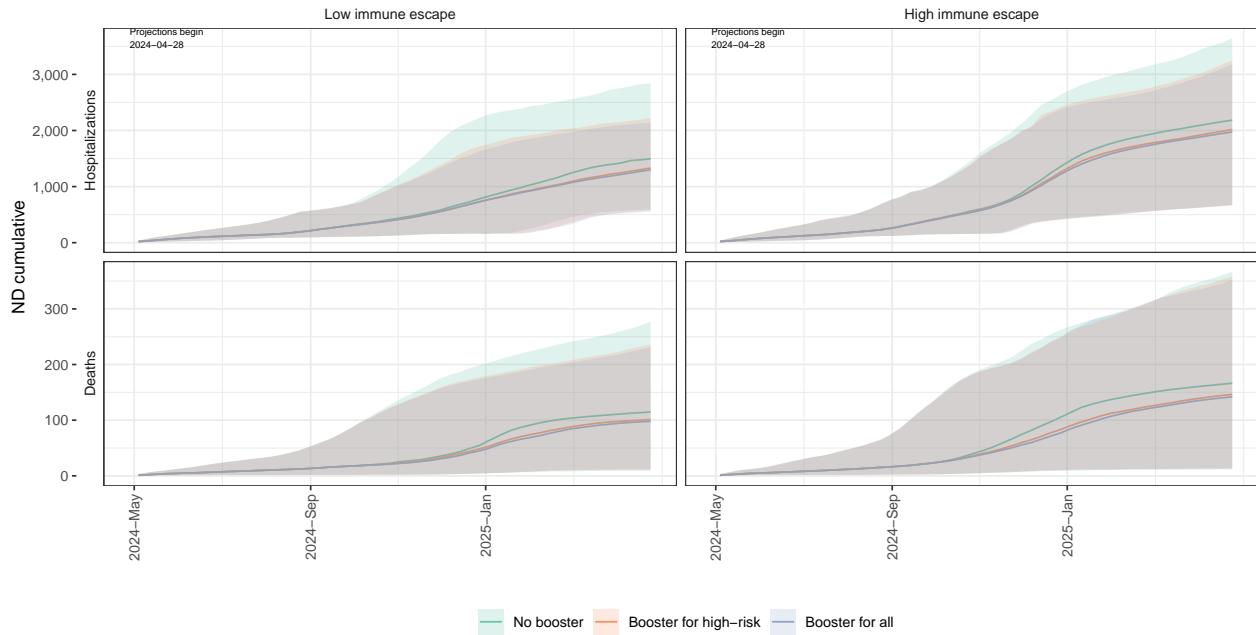
NY ensemble projections & 95% projection intervals



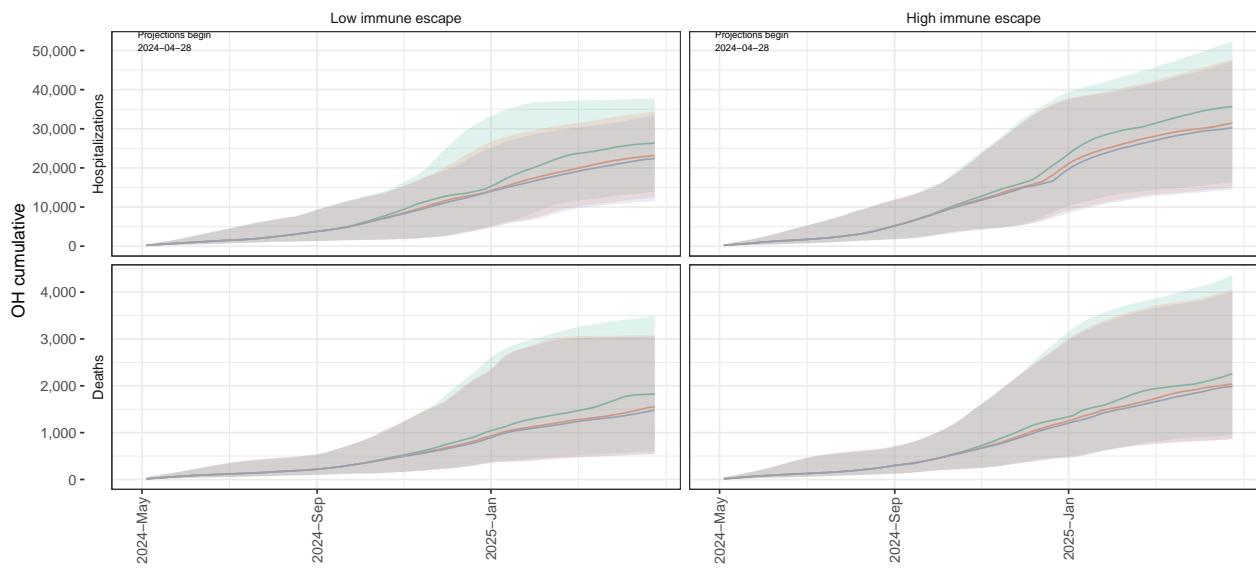
NC ensemble projections & 95% projection intervals



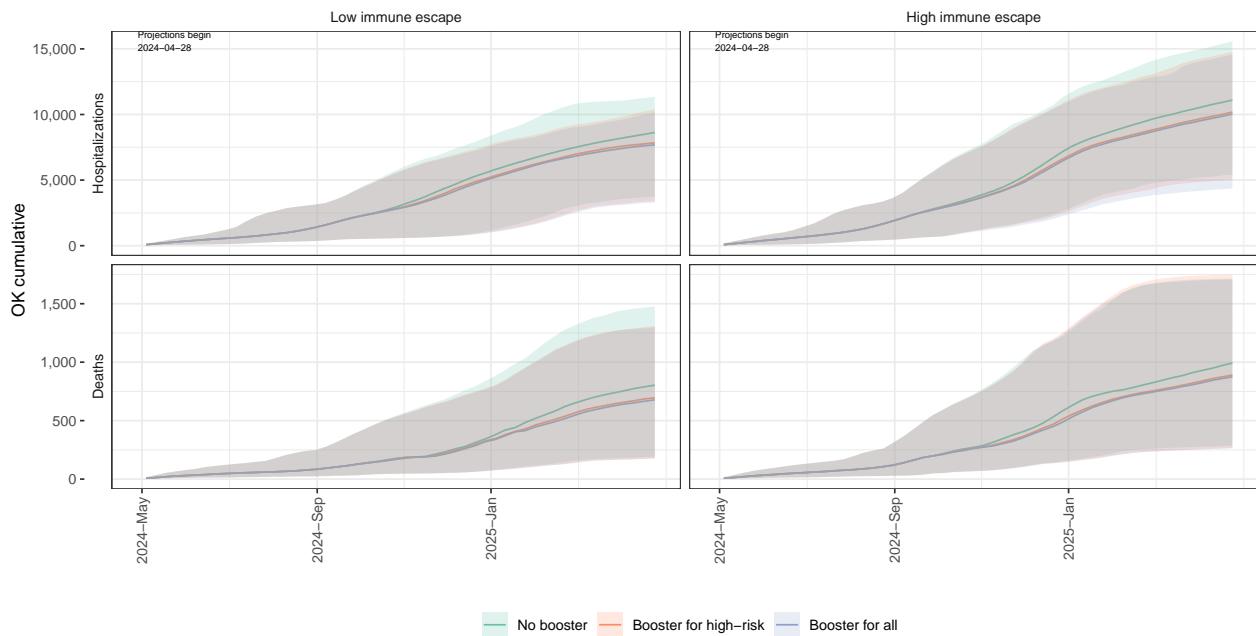
ND ensemble projections & 95% projection intervals



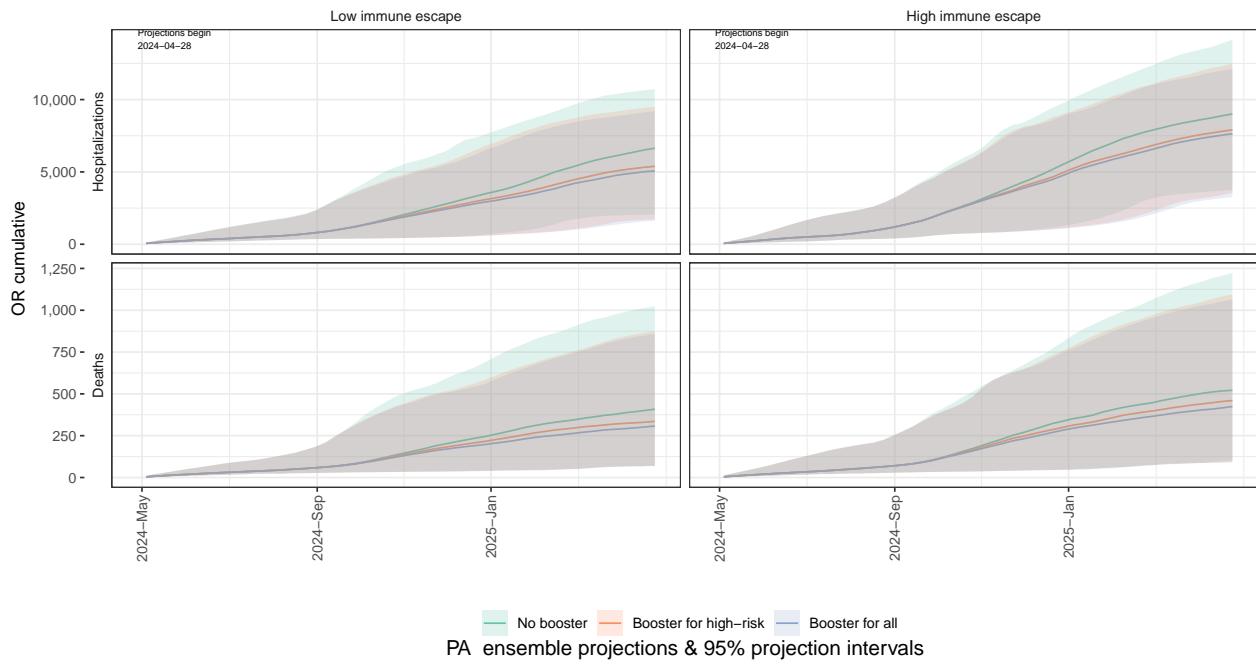
OH ensemble projections & 95% projection intervals



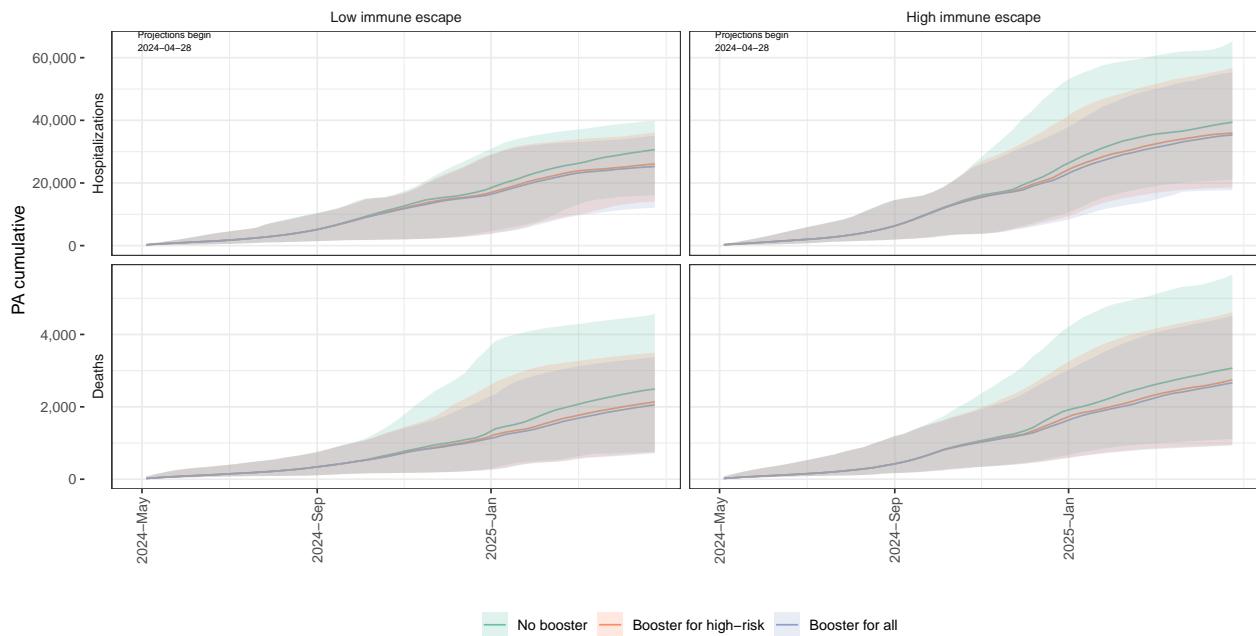
OK ensemble projections & 95% projection intervals



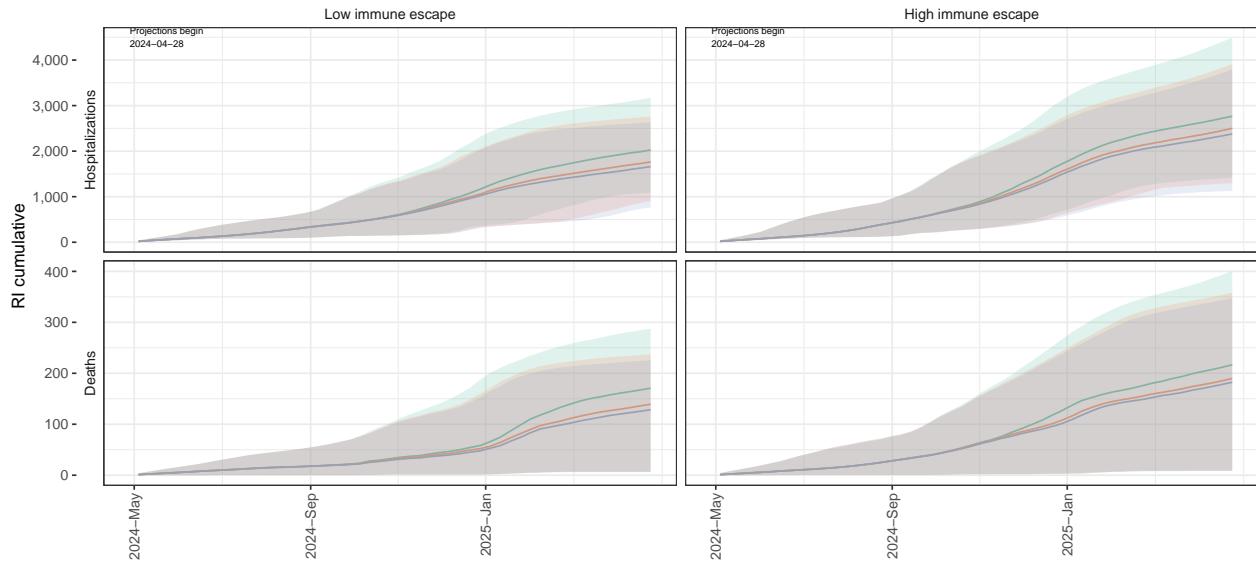
OR ensemble projections & 95% projection intervals



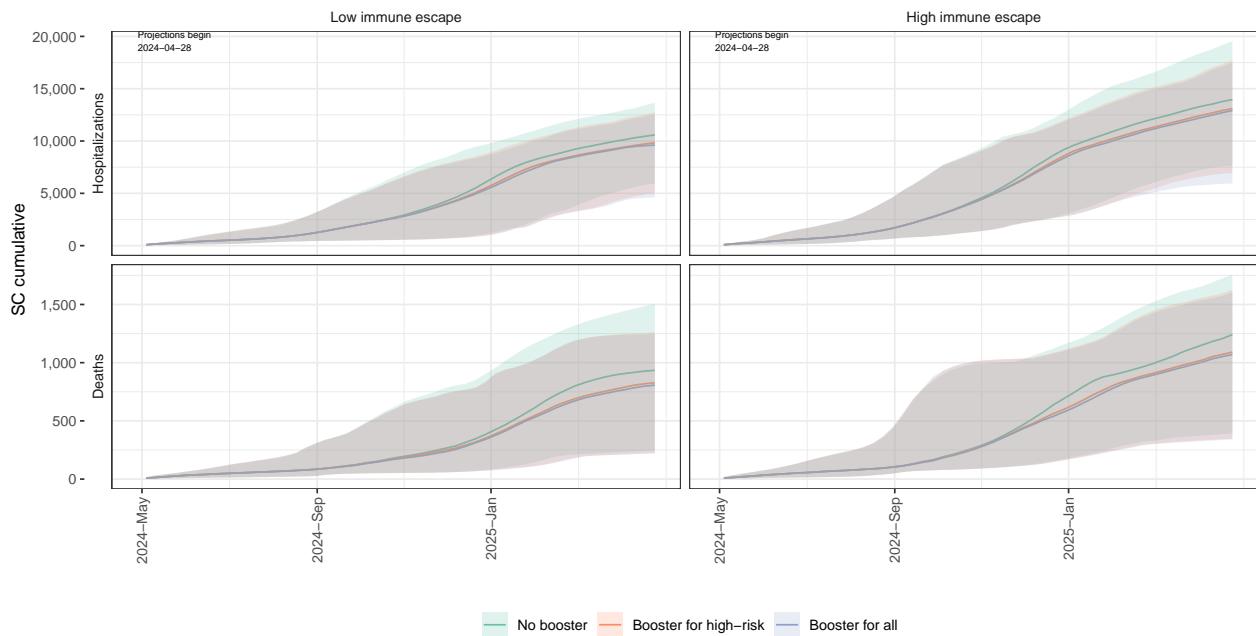
PA ensemble projections & 95% projection intervals



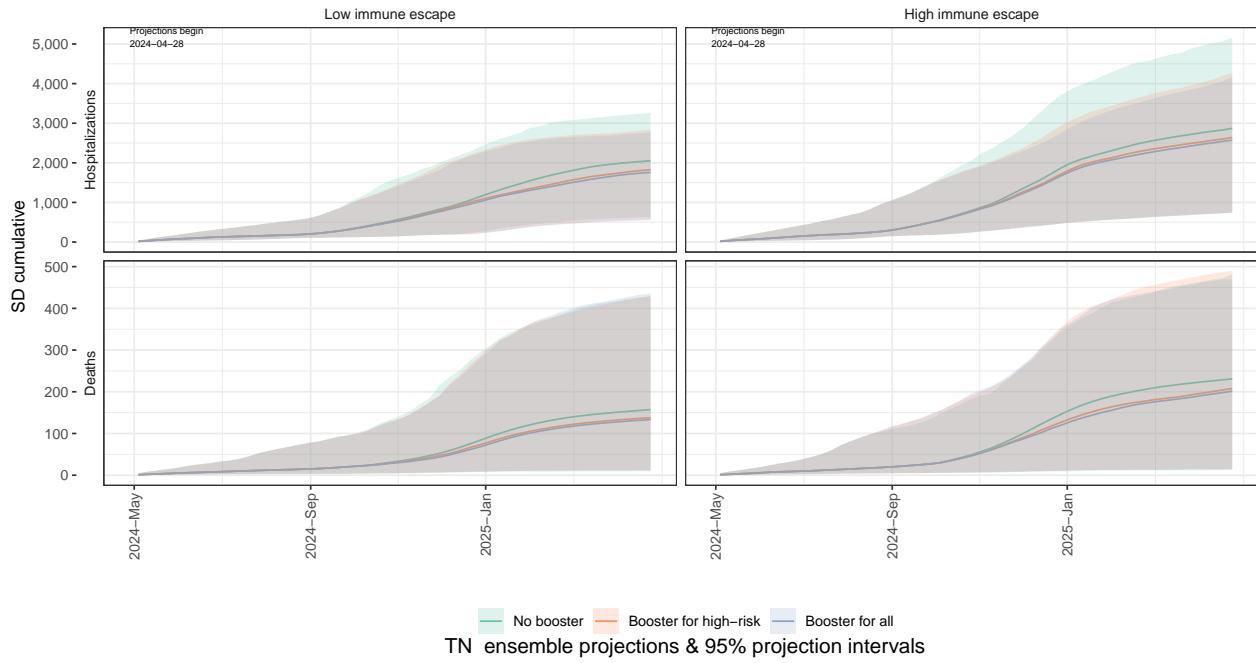
RI ensemble projections & 95% projection intervals



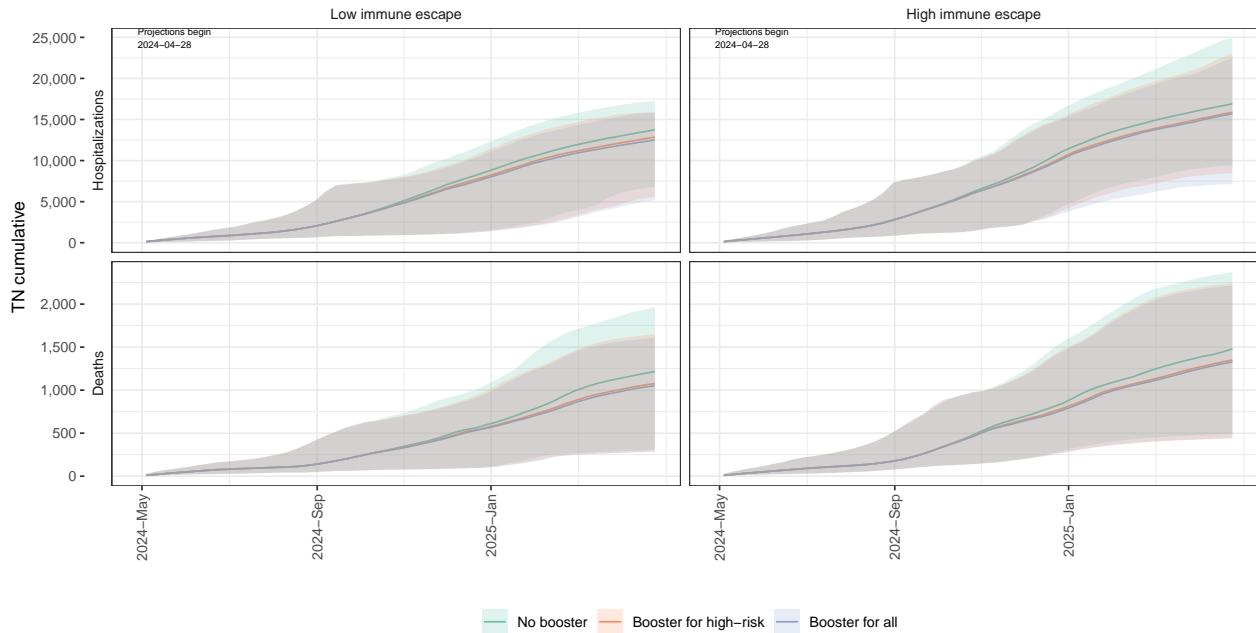
SC ensemble projections & 95% projection intervals



SD ensemble projections & 95% projection intervals

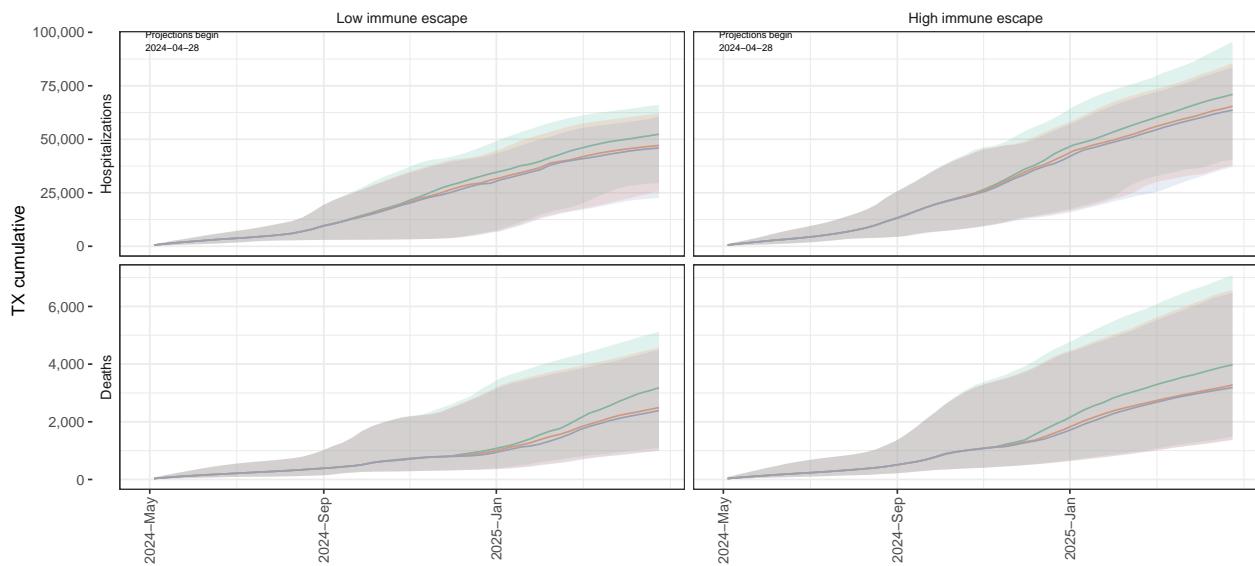


SD ensemble projections & 95% projection intervals

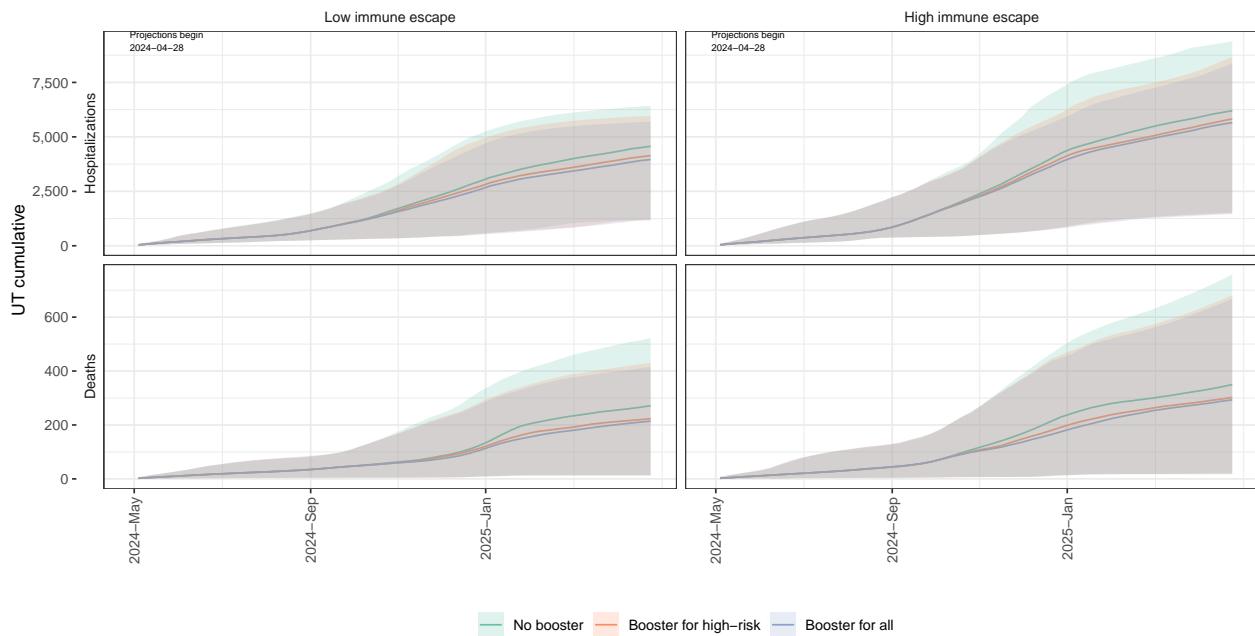


TN ensemble projections & 95% projection intervals

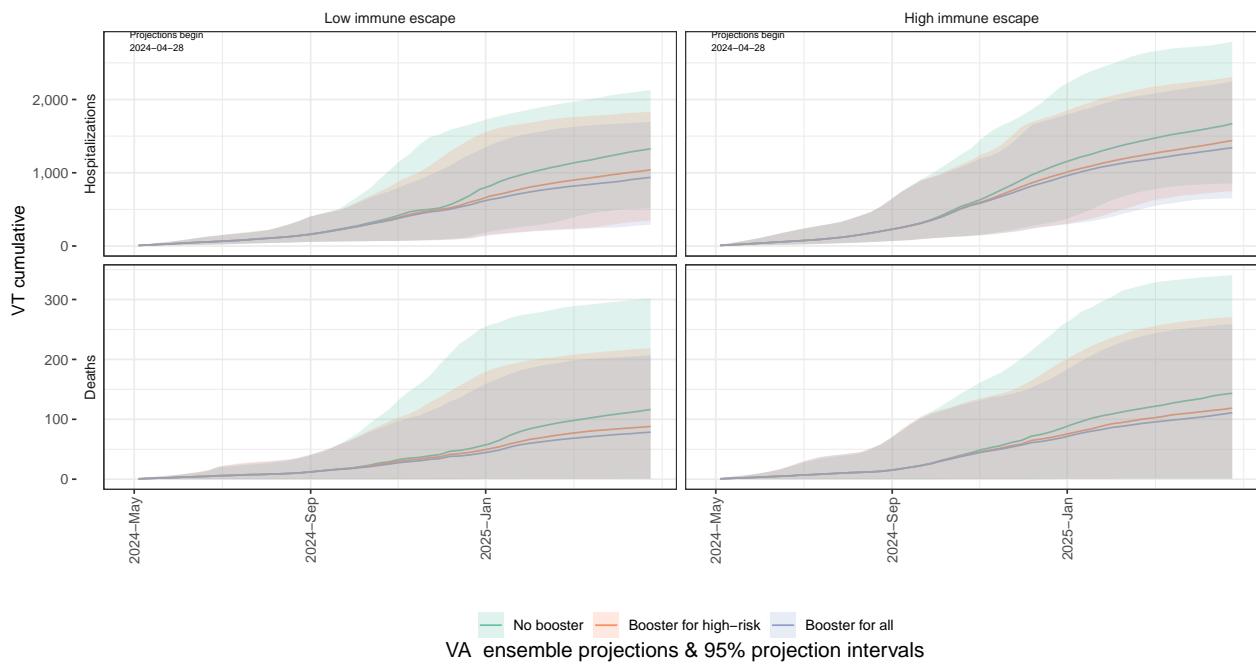
TX ensemble projections & 95% projection intervals



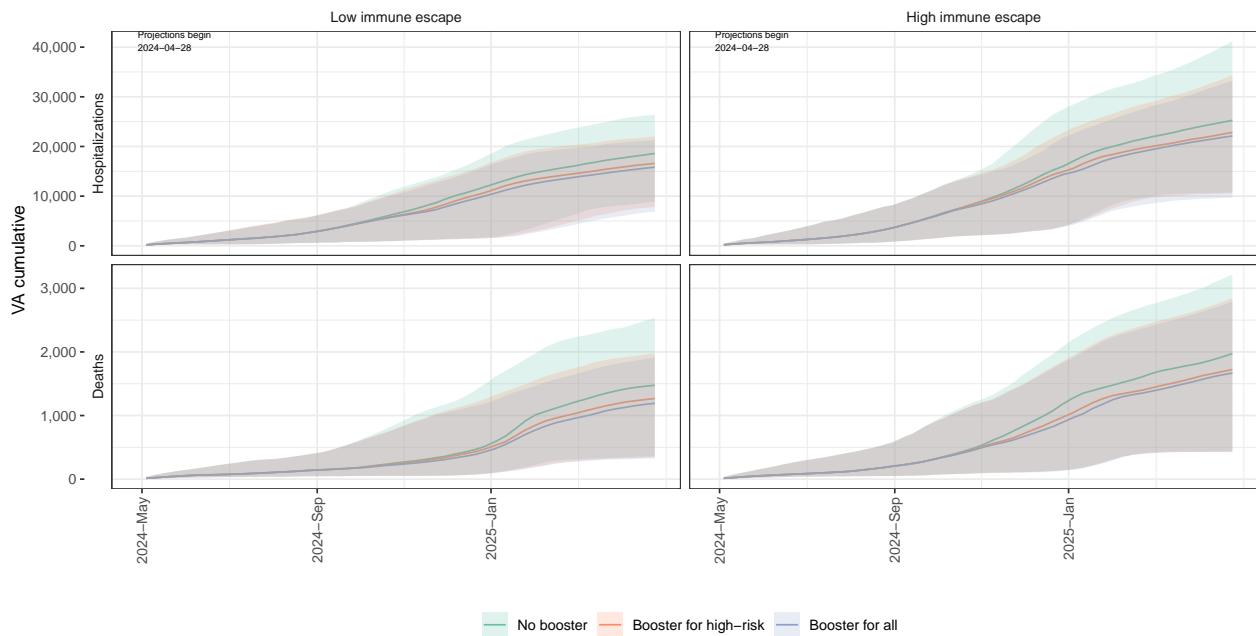
UT ensemble projections & 95% projection intervals



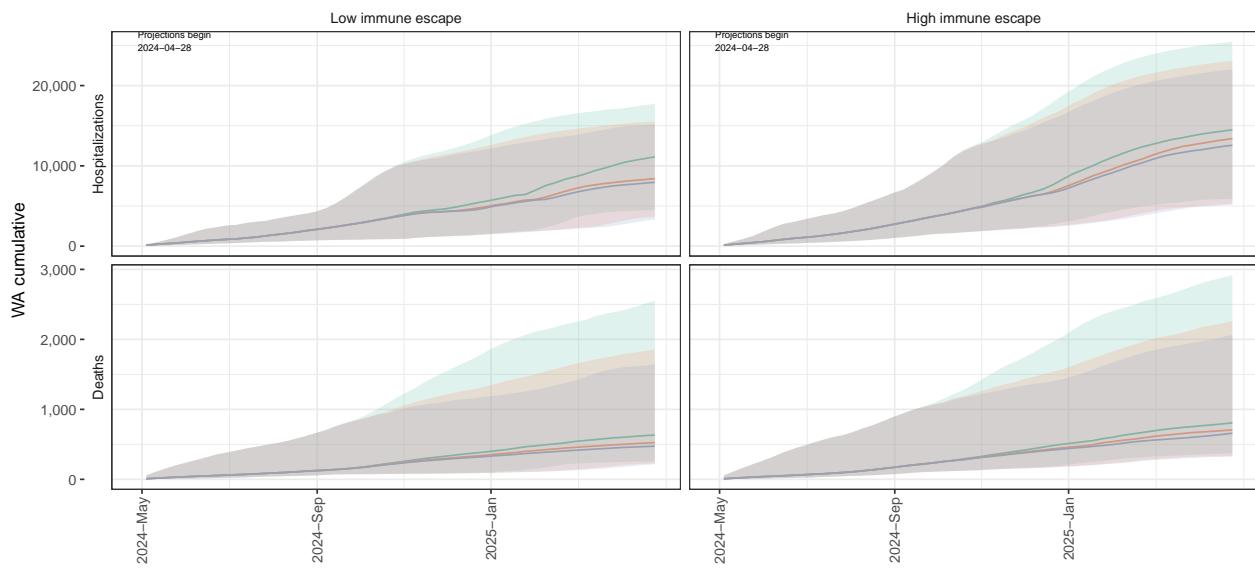
VT ensemble projections & 95% projection intervals



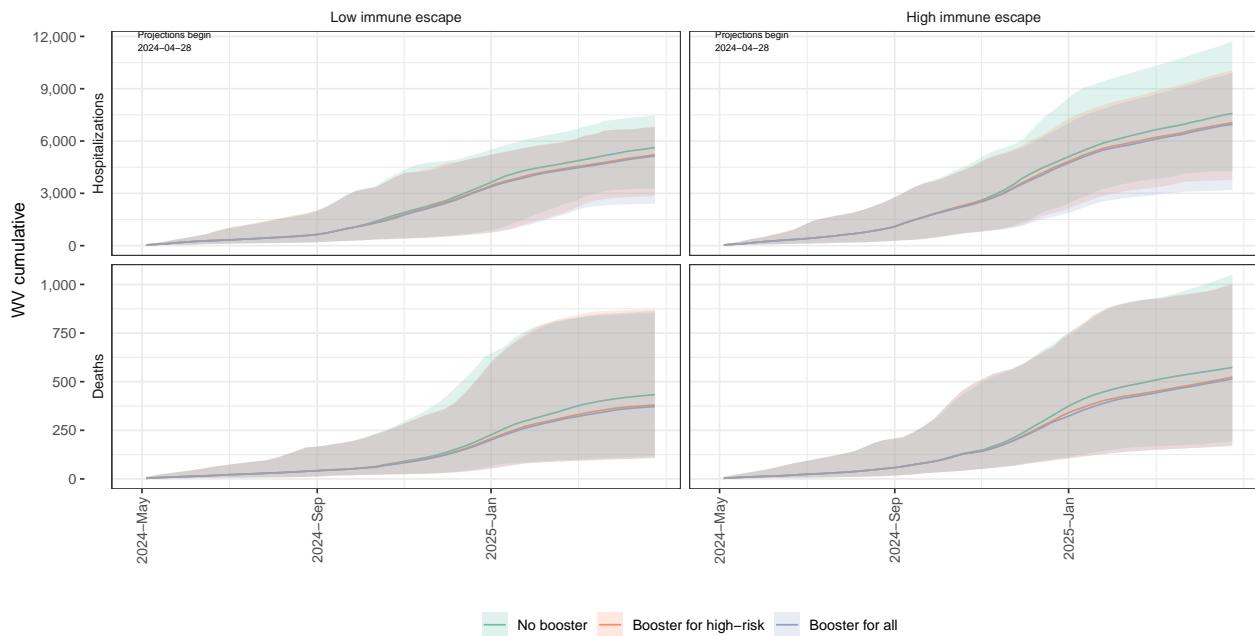
VA ensemble projections & 95% projection intervals



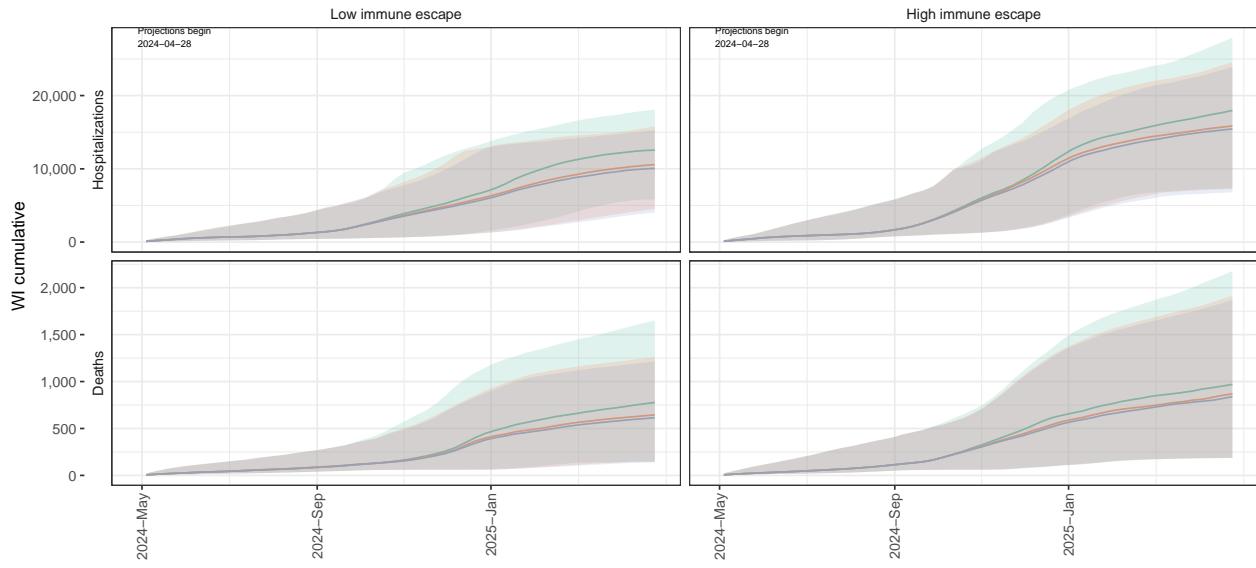
WA ensemble projections & 95% projection intervals



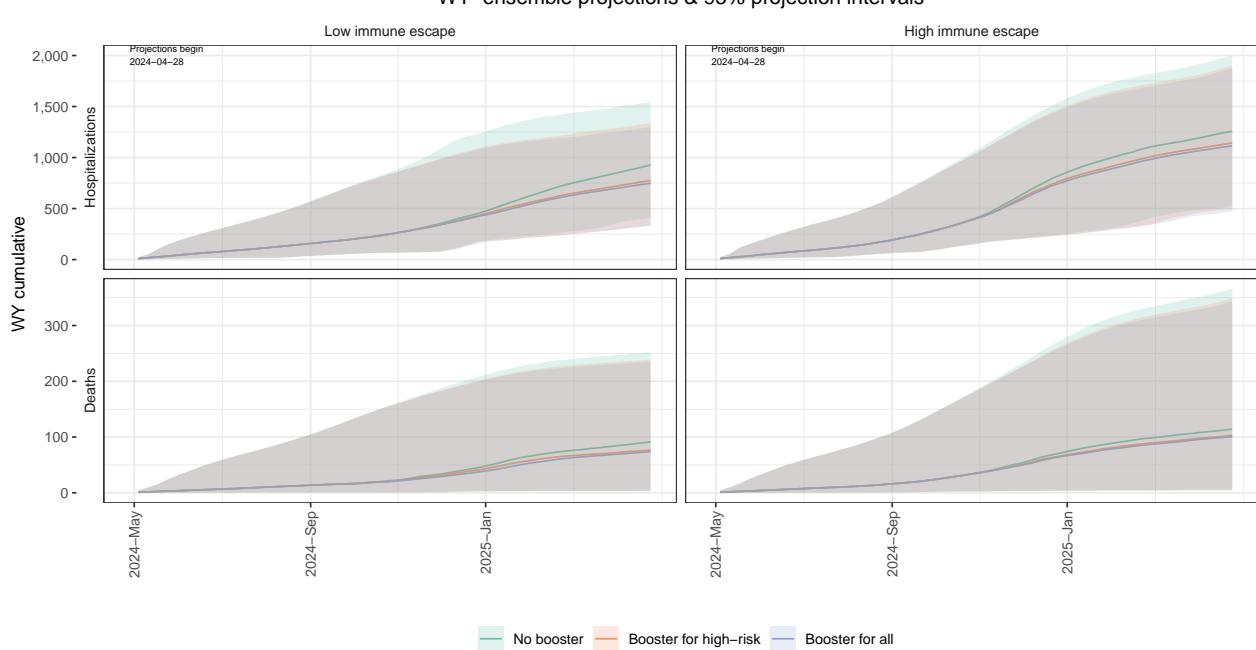
WV ensemble projections & 95% projection intervals



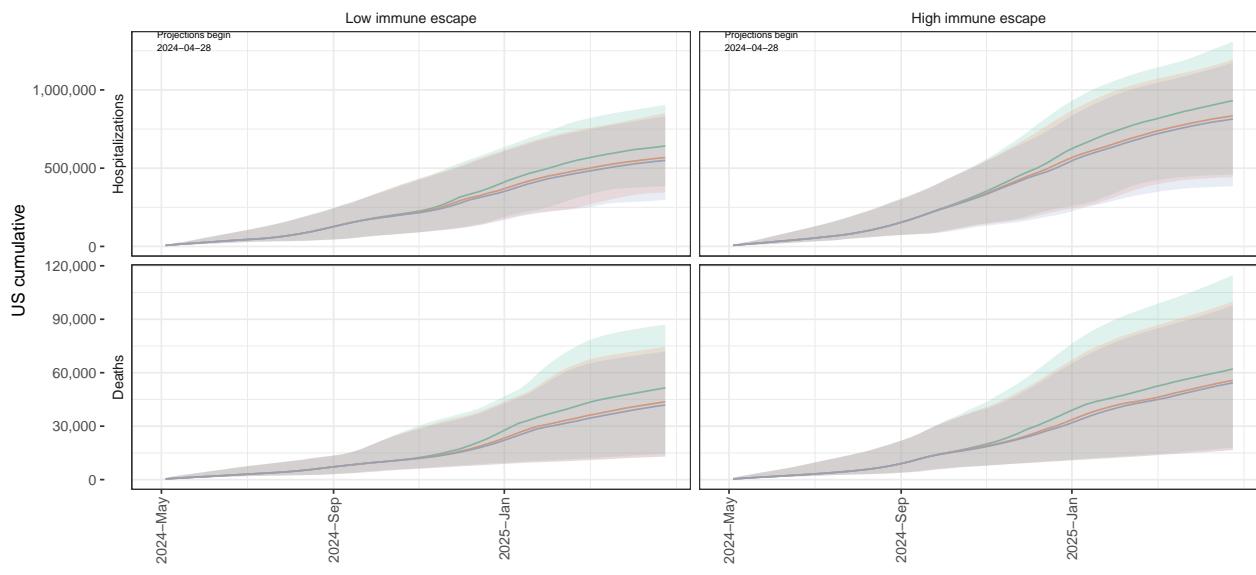
WI ensemble projections & 95% projection intervals



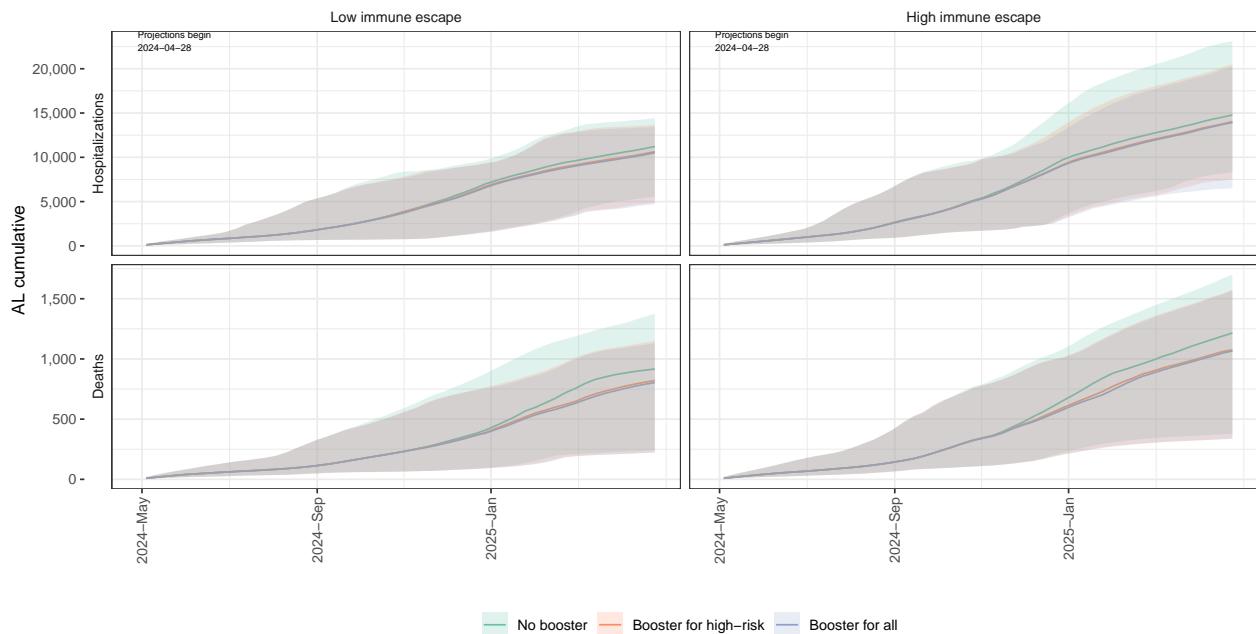
WY ensemble projections & 95% projection intervals



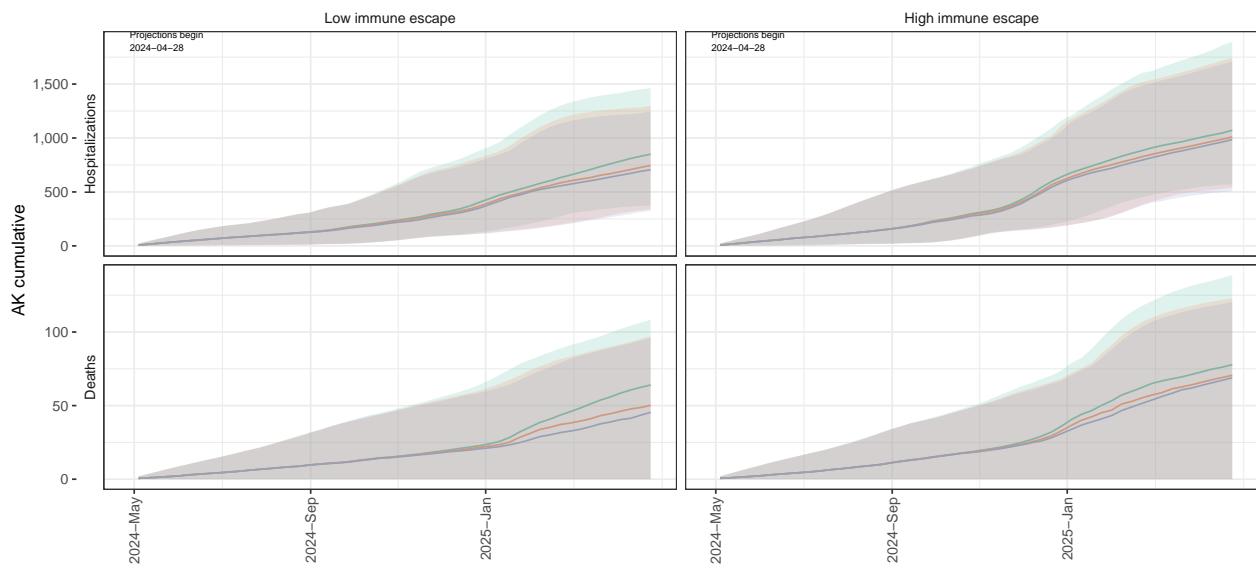
US ensemble projections & 95% projection intervals



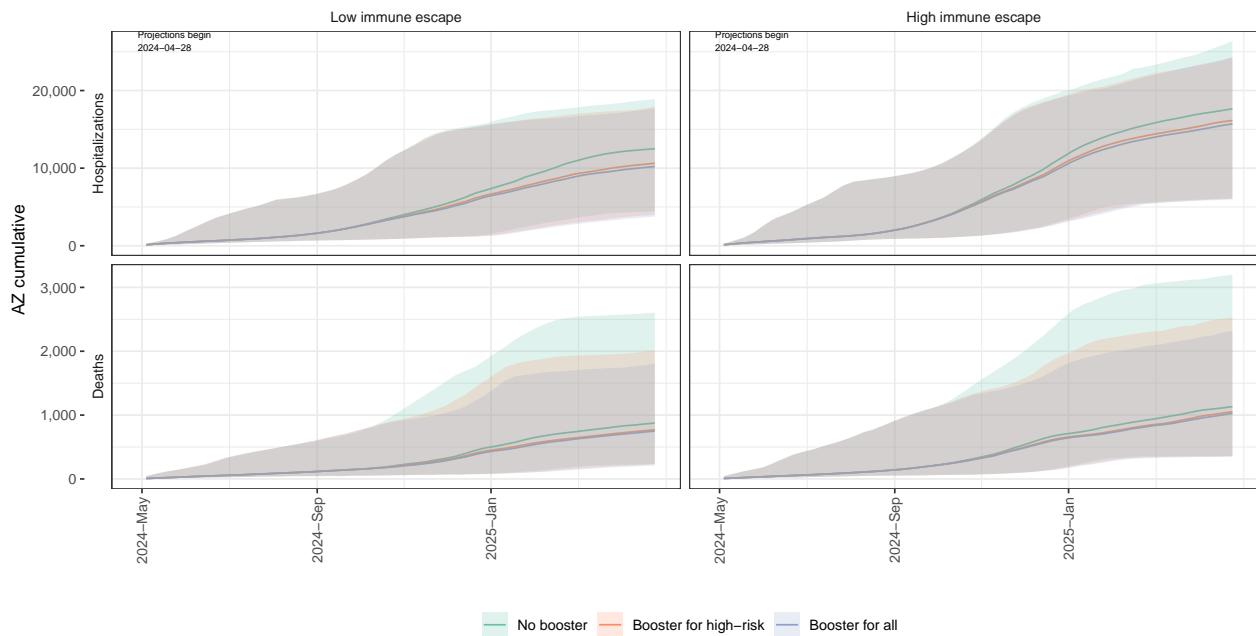
AL ensemble projections & 95% projection intervals



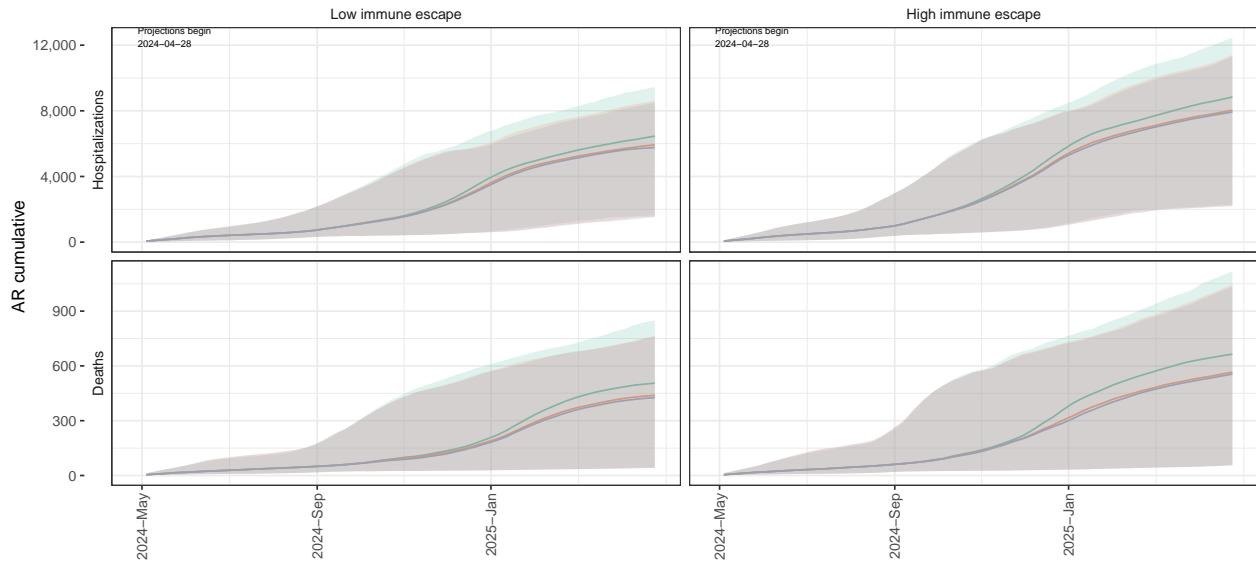
AK ensemble projections & 95% projection intervals



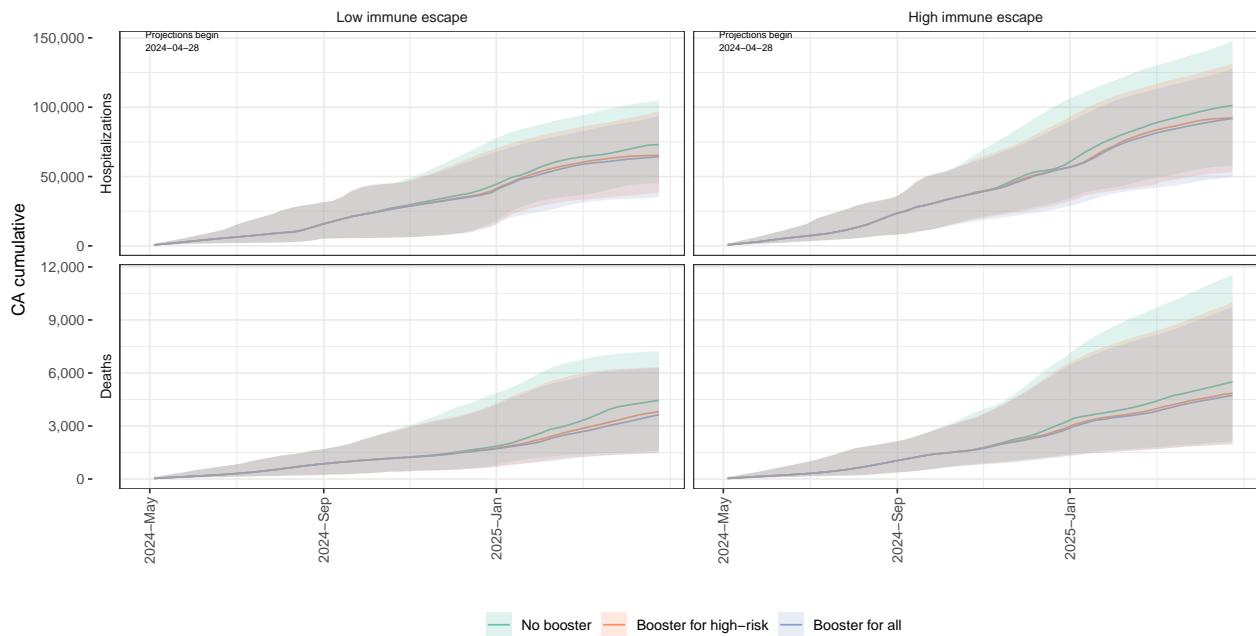
AZ ensemble projections & 95% projection intervals



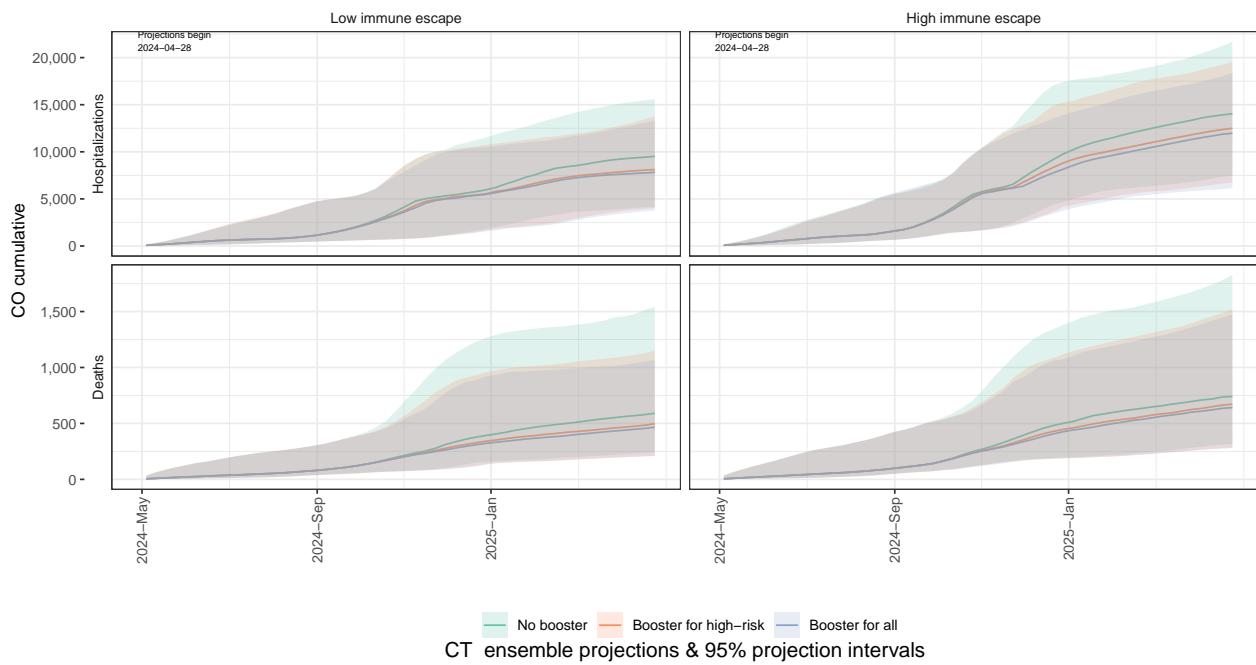
AR ensemble projections & 95% projection intervals



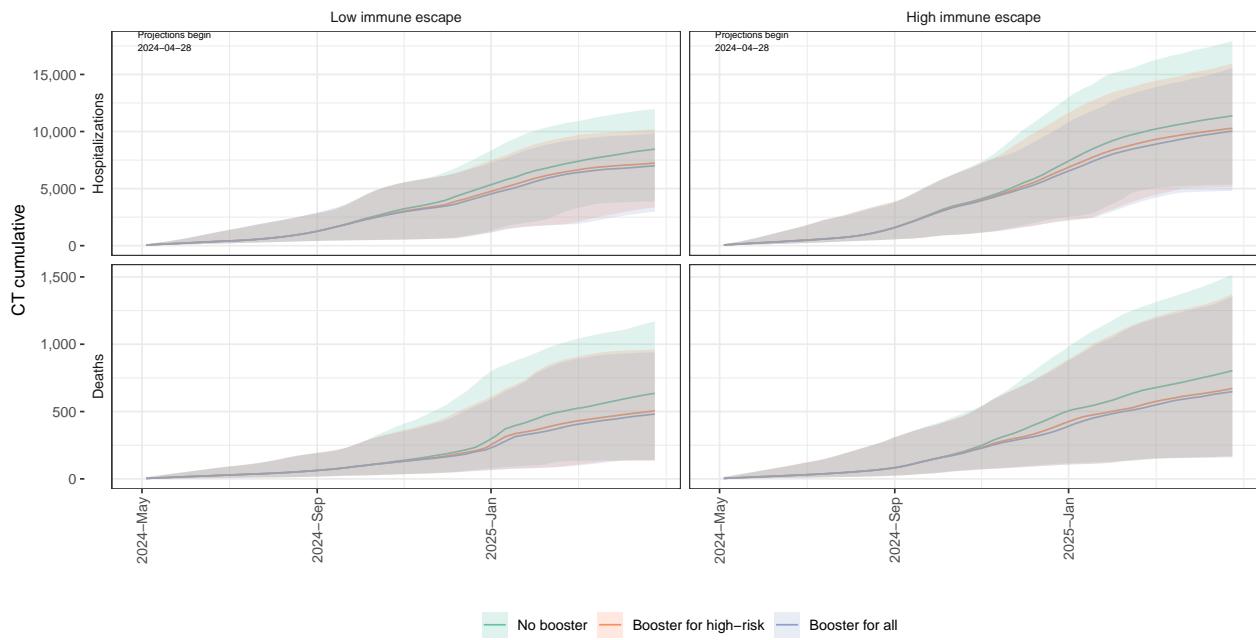
CA ensemble projections & 95% projection intervals



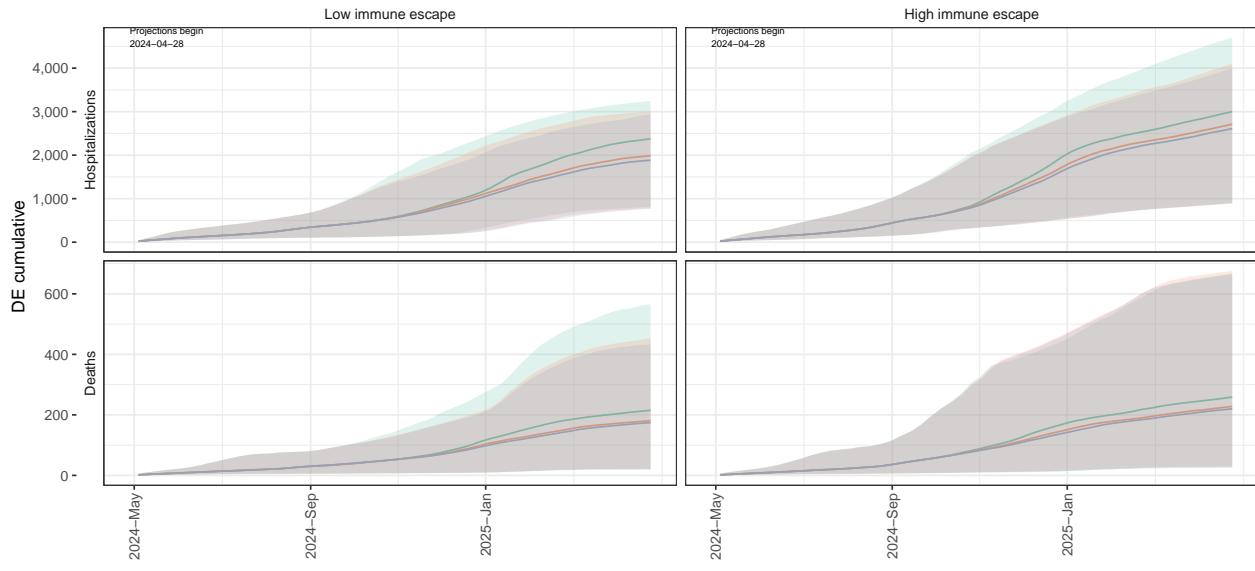
CO ensemble projections & 95% projection intervals



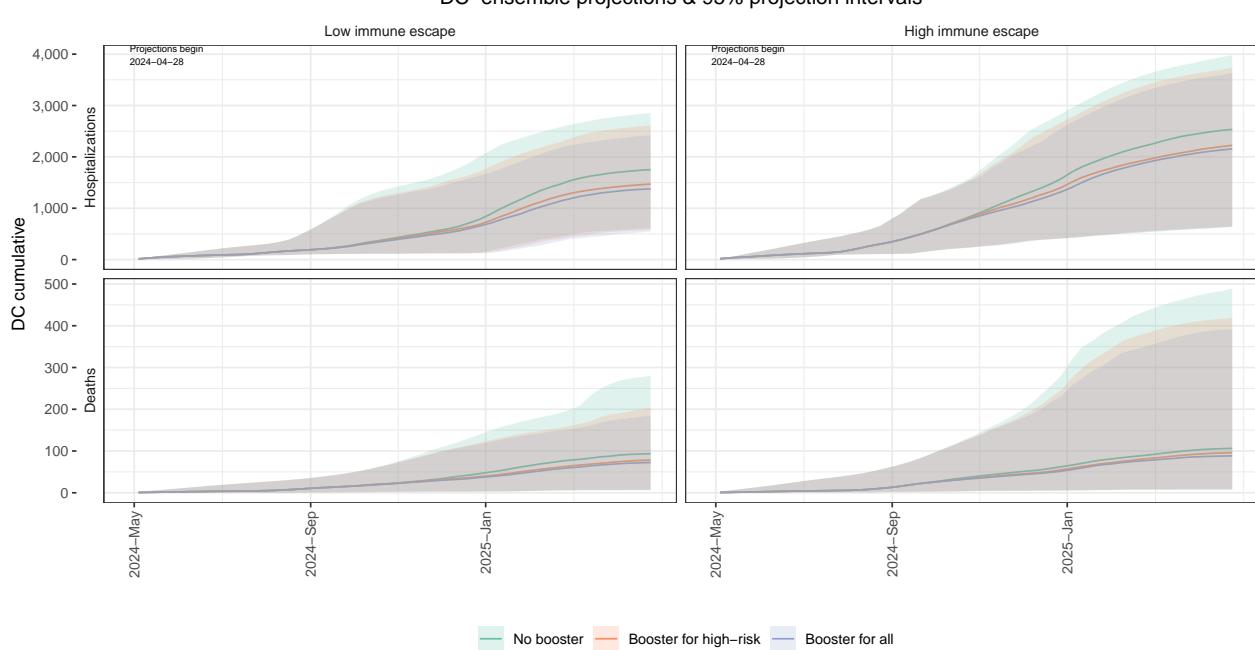
CT ensemble projections & 95% projection intervals



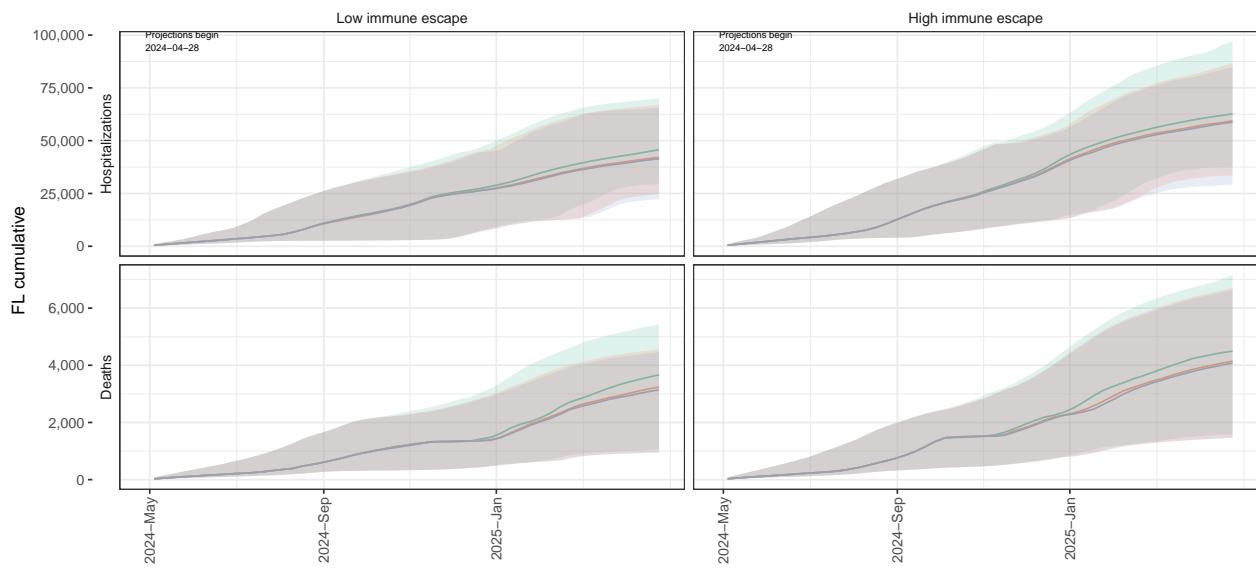
DE ensemble projections & 95% projection intervals



DC ensemble projections & 95% projection intervals

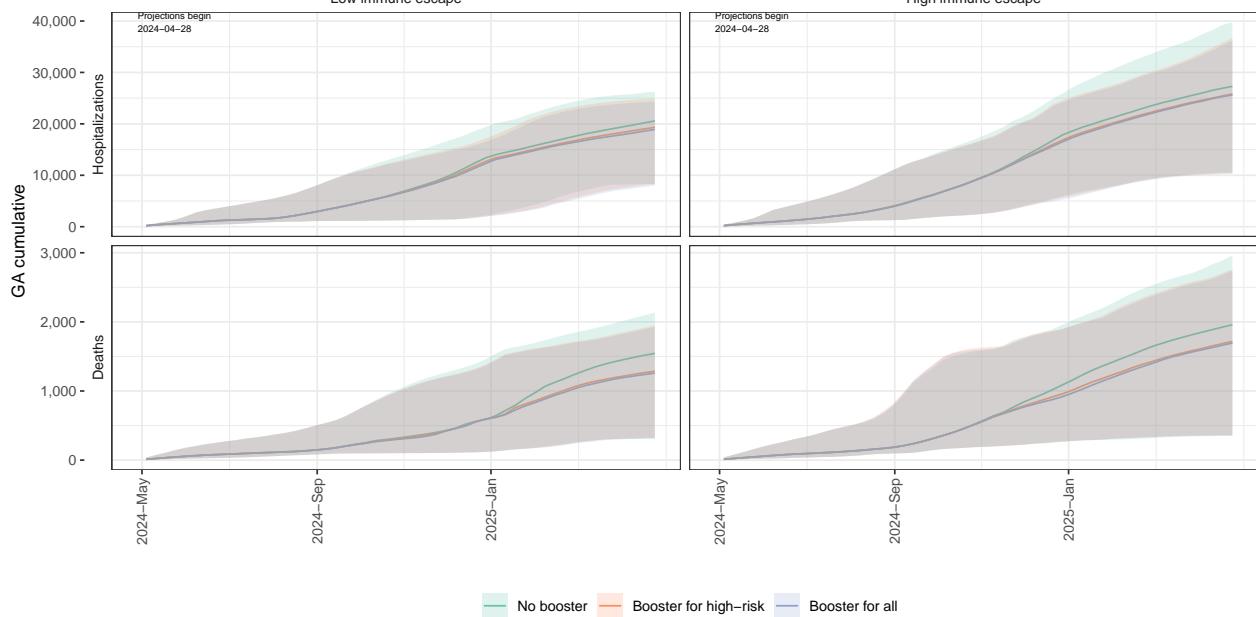


FL ensemble projections & 95% projection intervals



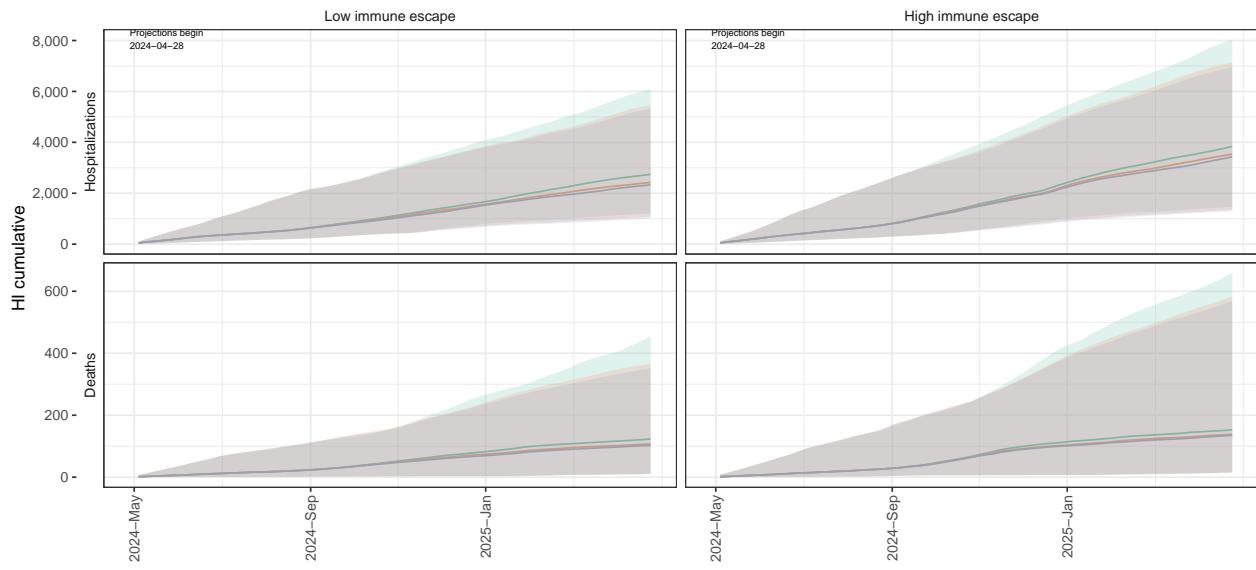
FL ensemble projections & 95% projection intervals
— No booster — Booster for high-risk — Booster for all

GA ensemble projections & 95% projection intervals

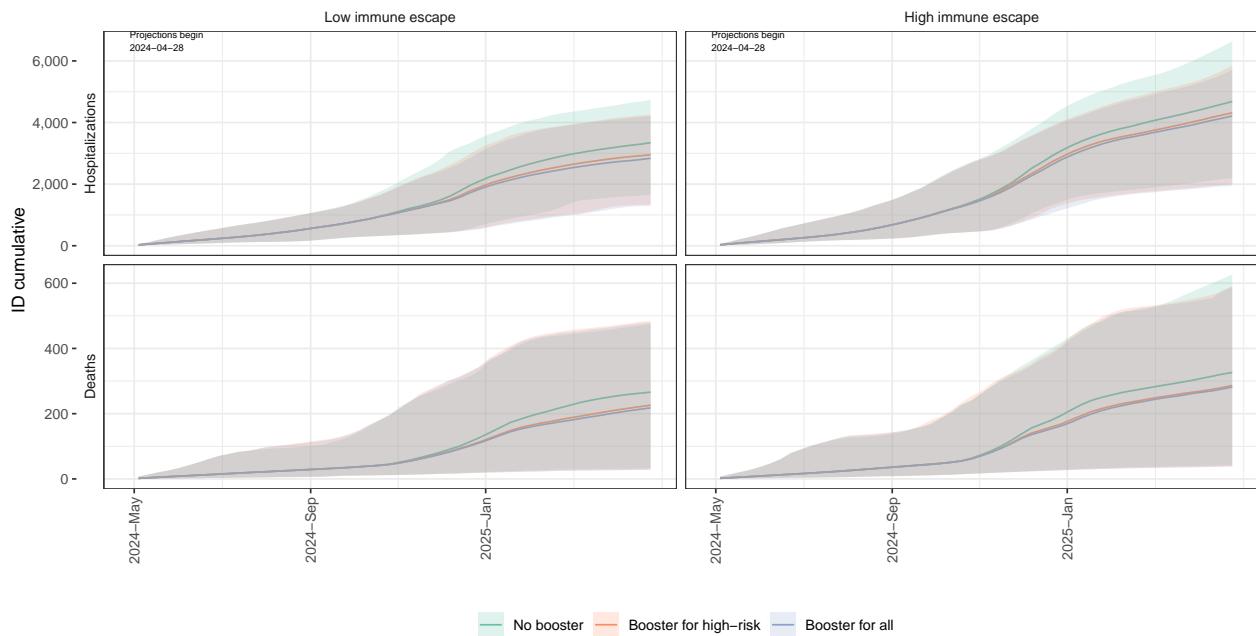


GA ensemble projections & 95% projection intervals
— No booster — Booster for high-risk — Booster for all

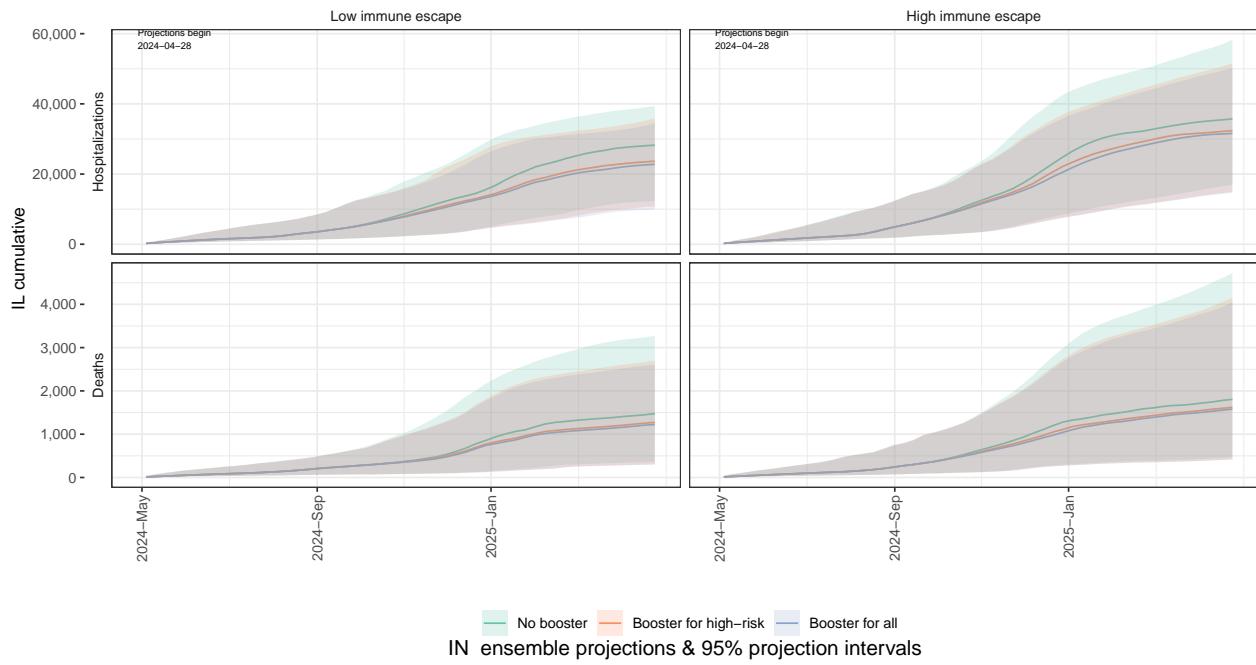
HI ensemble projections & 95% projection intervals



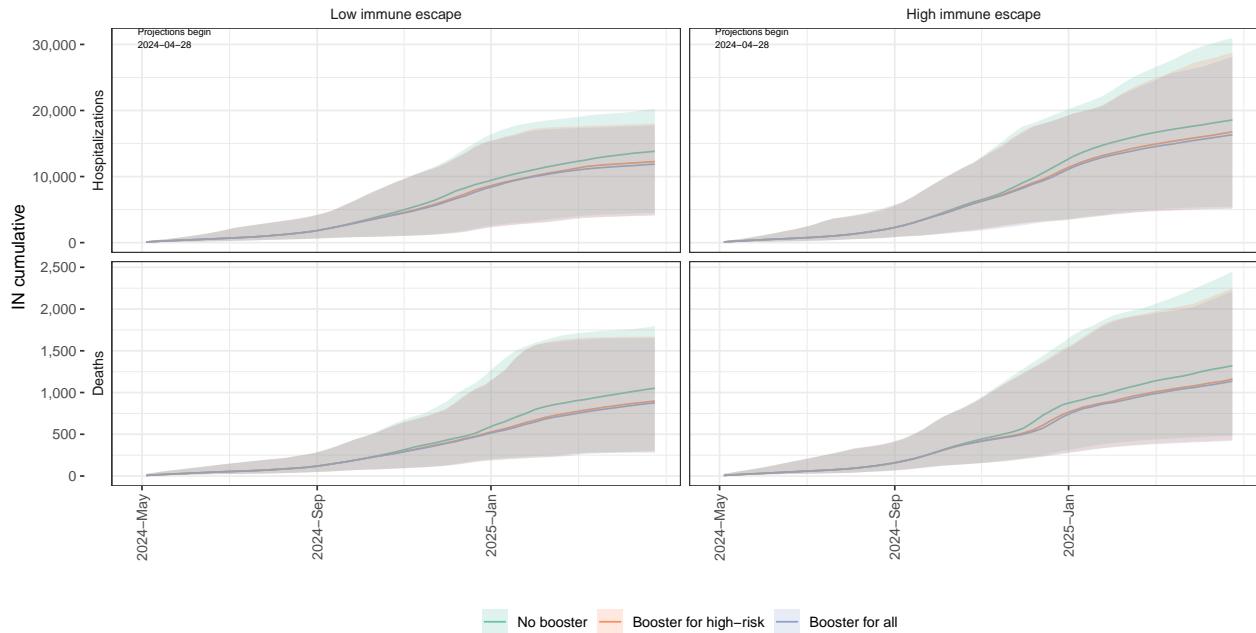
ID ensemble projections & 95% projection intervals



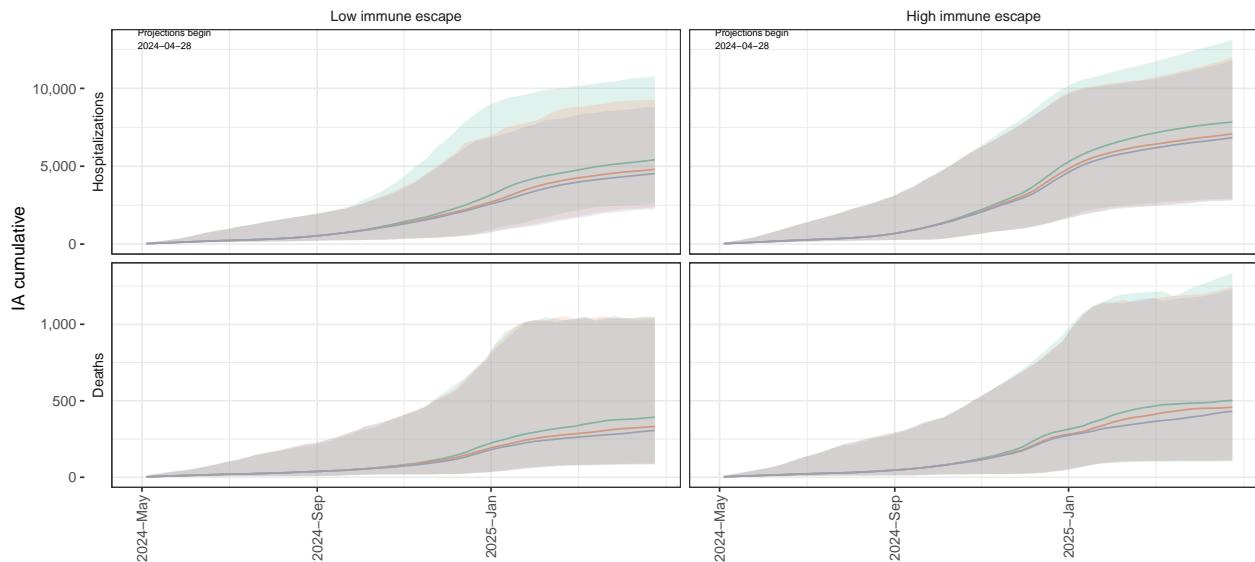
IL ensemble projections & 95% projection intervals



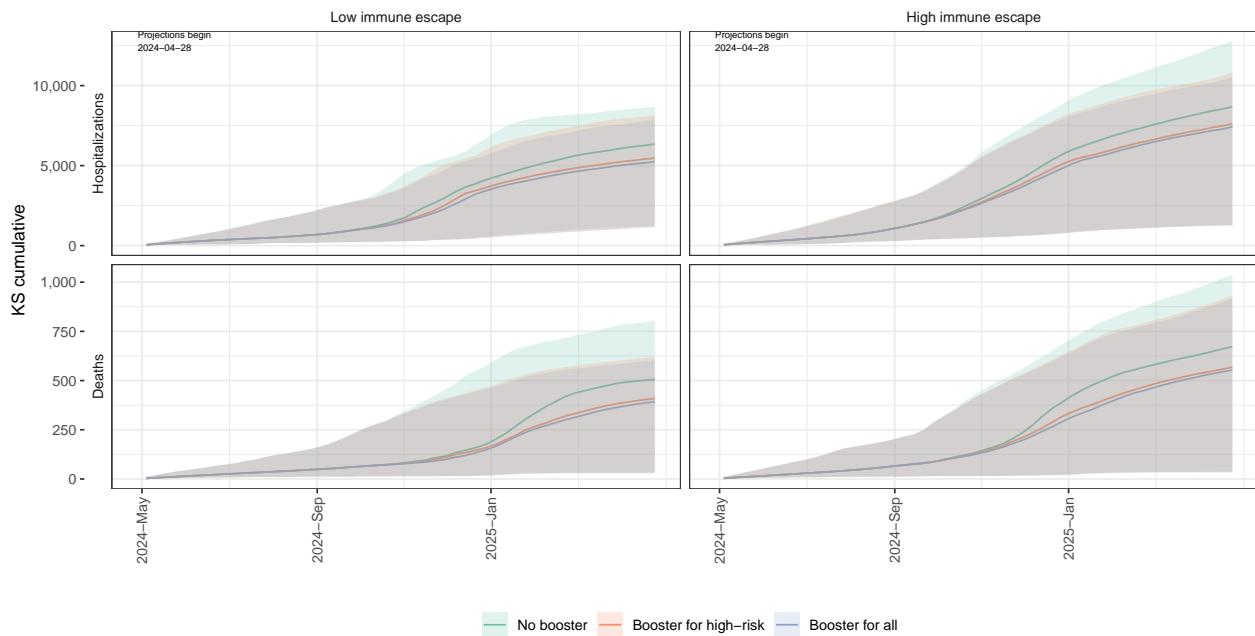
IN ensemble projections & 95% projection intervals



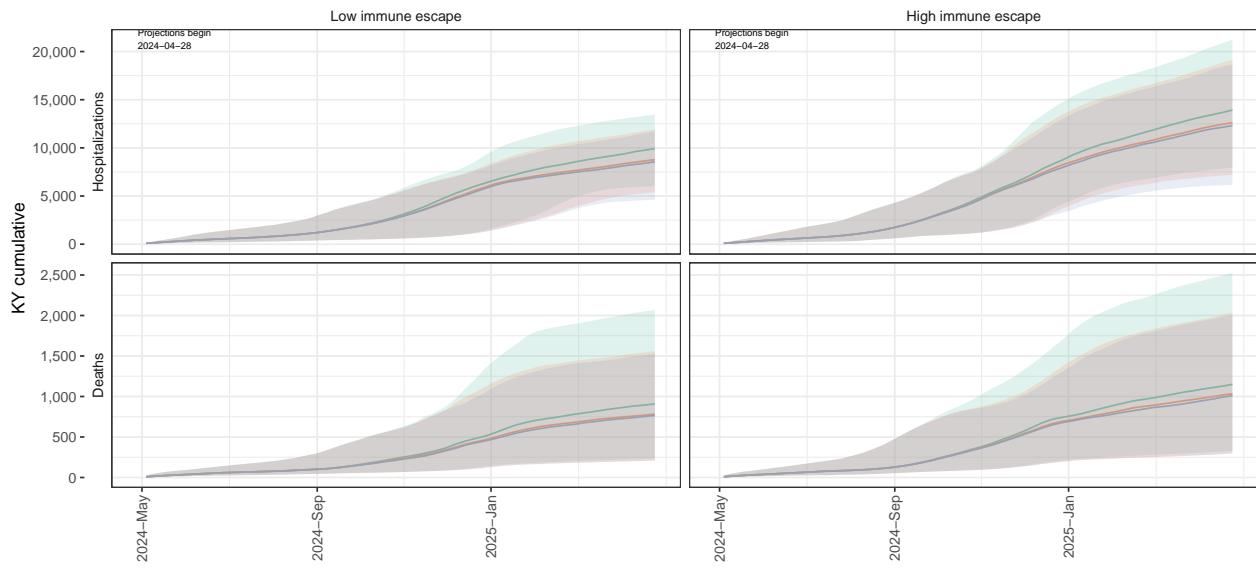
IA ensemble projections & 95% projection intervals



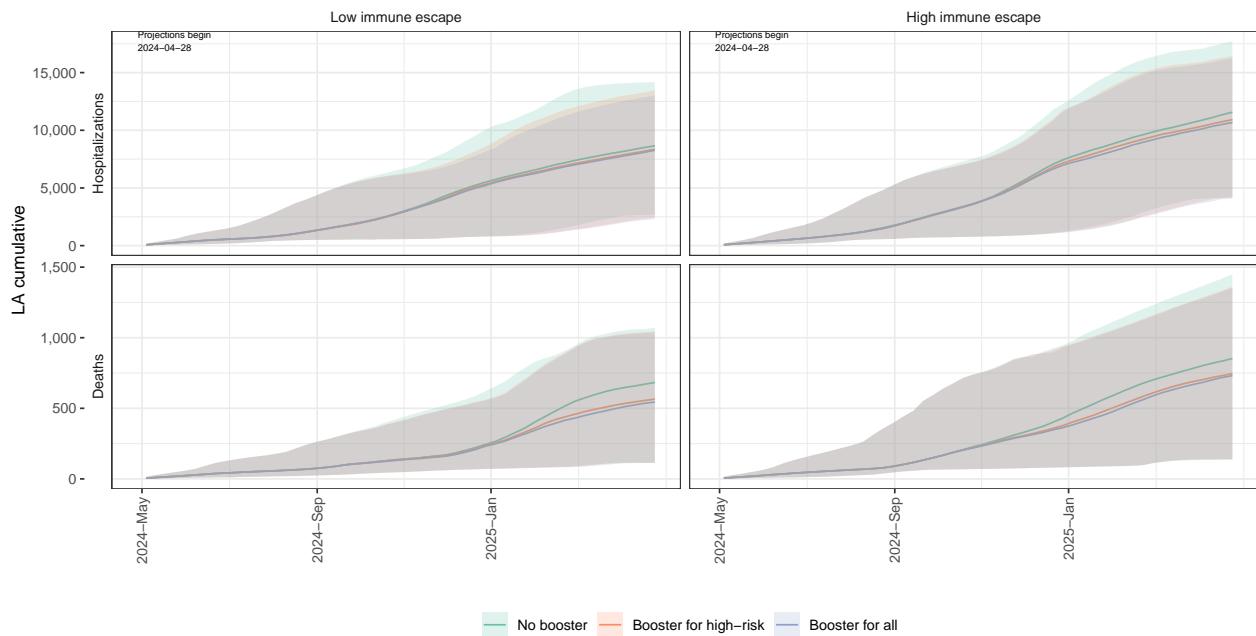
KS ensemble projections & 95% projection intervals



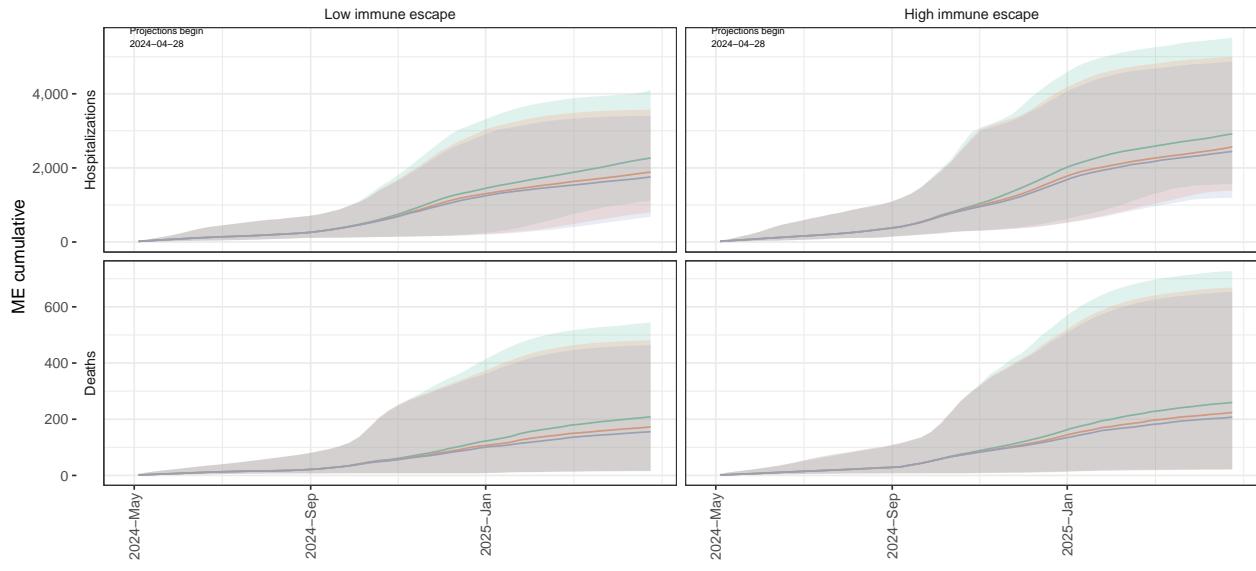
KY ensemble projections & 95% projection intervals



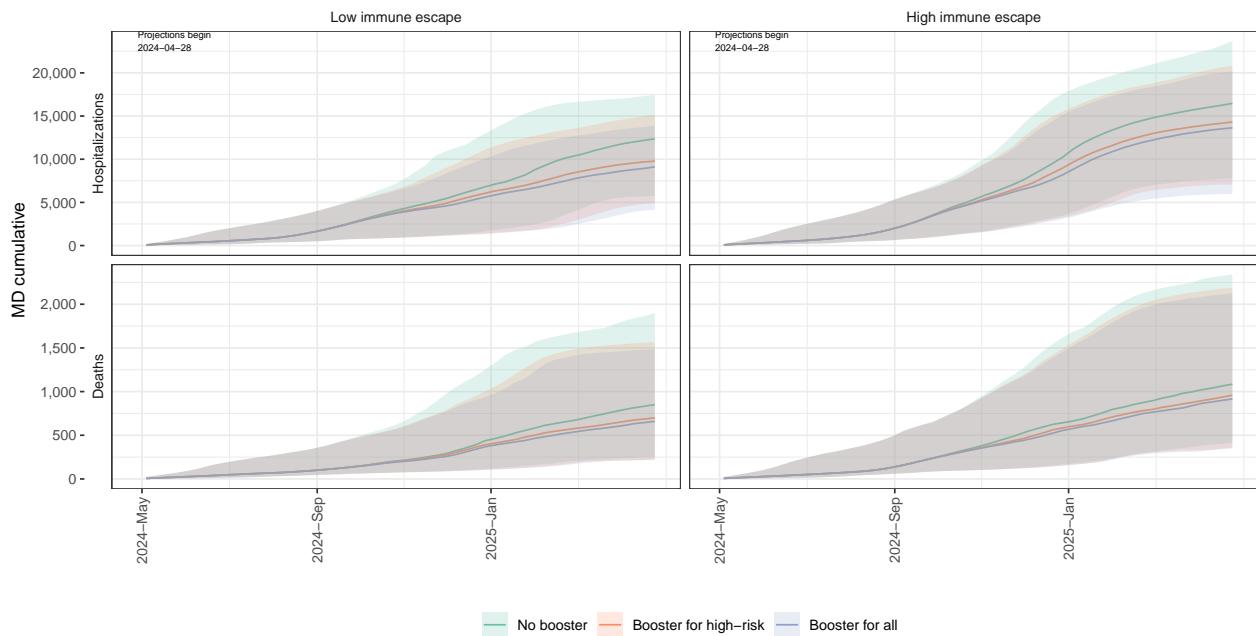
LA ensemble projections & 95% projection intervals



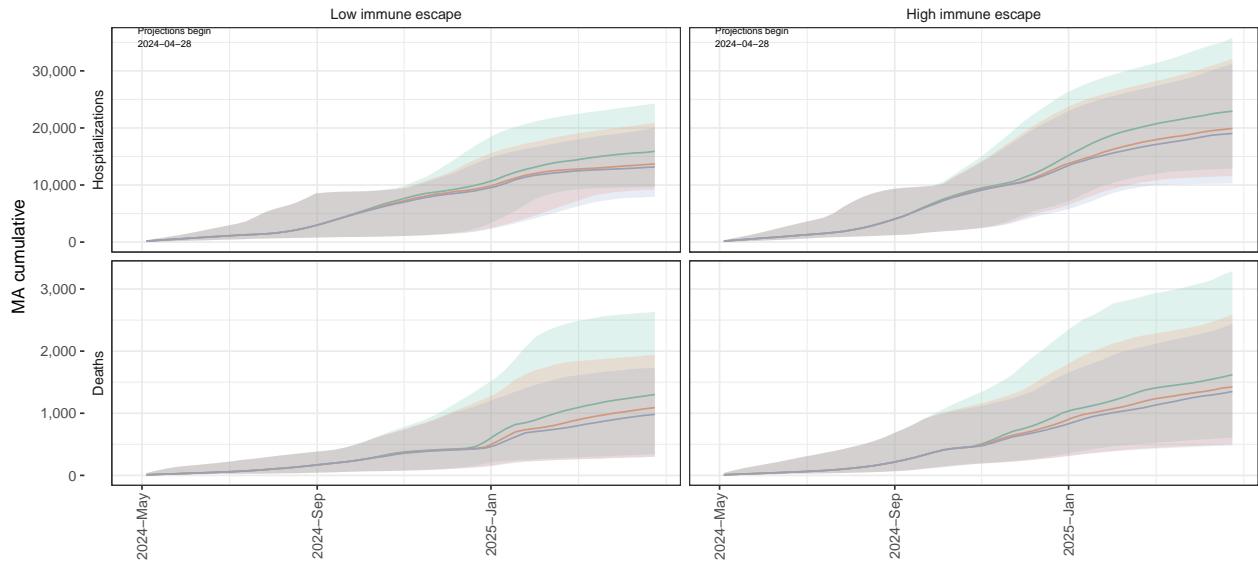
ME ensemble projections & 95% projection intervals



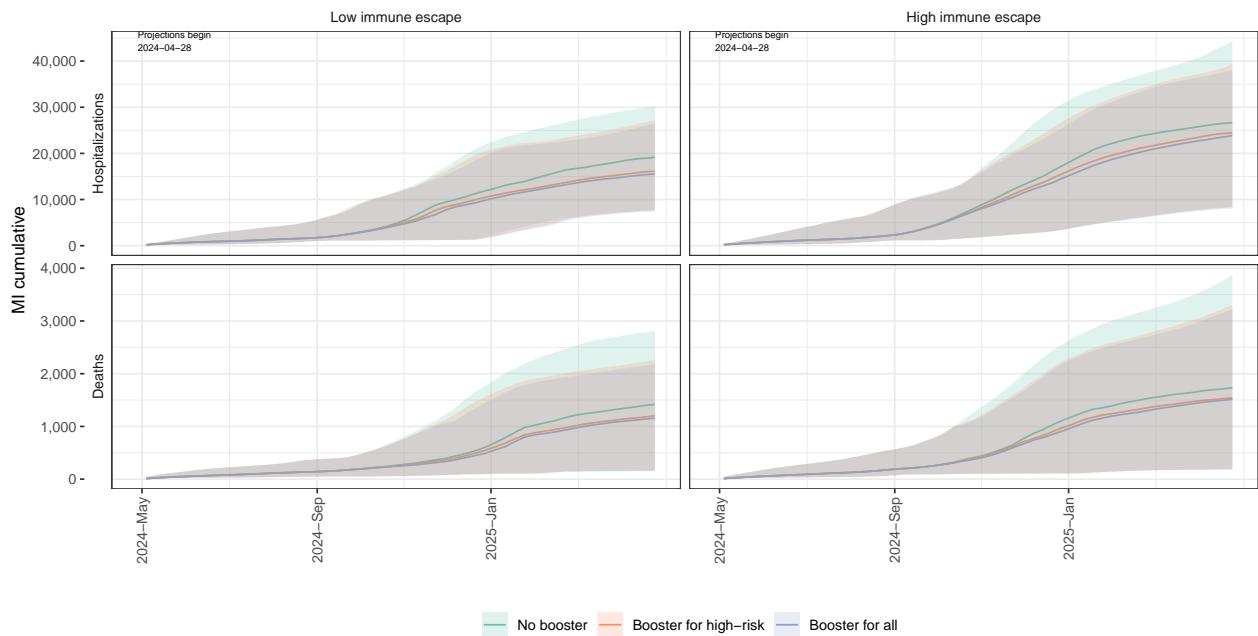
MD ensemble projections & 95% projection intervals



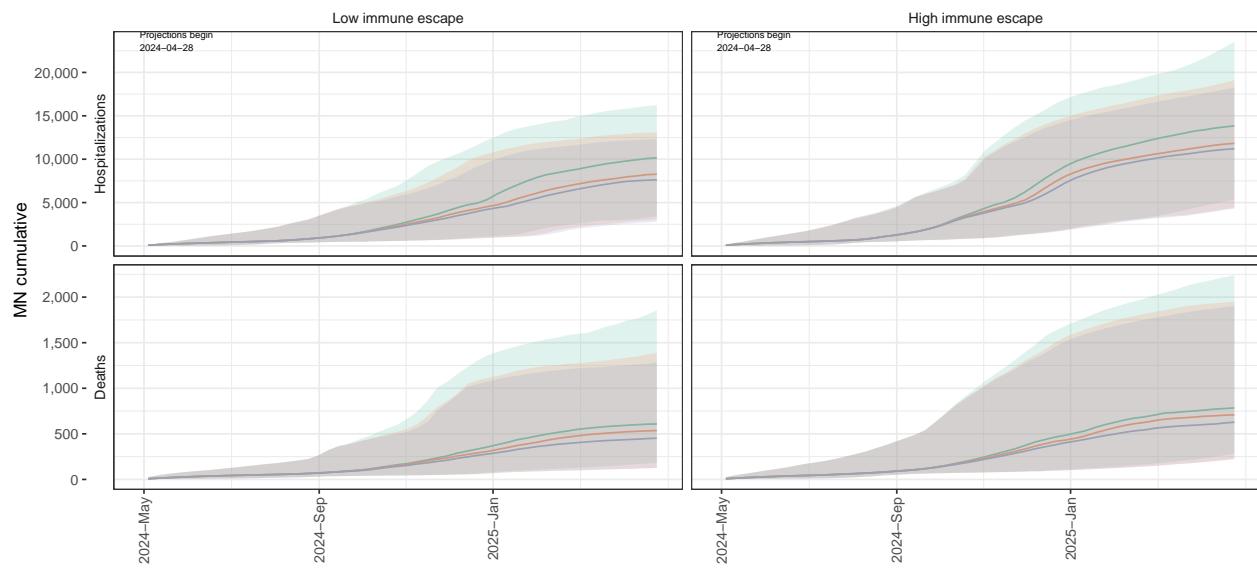
MA ensemble projections & 95% projection intervals



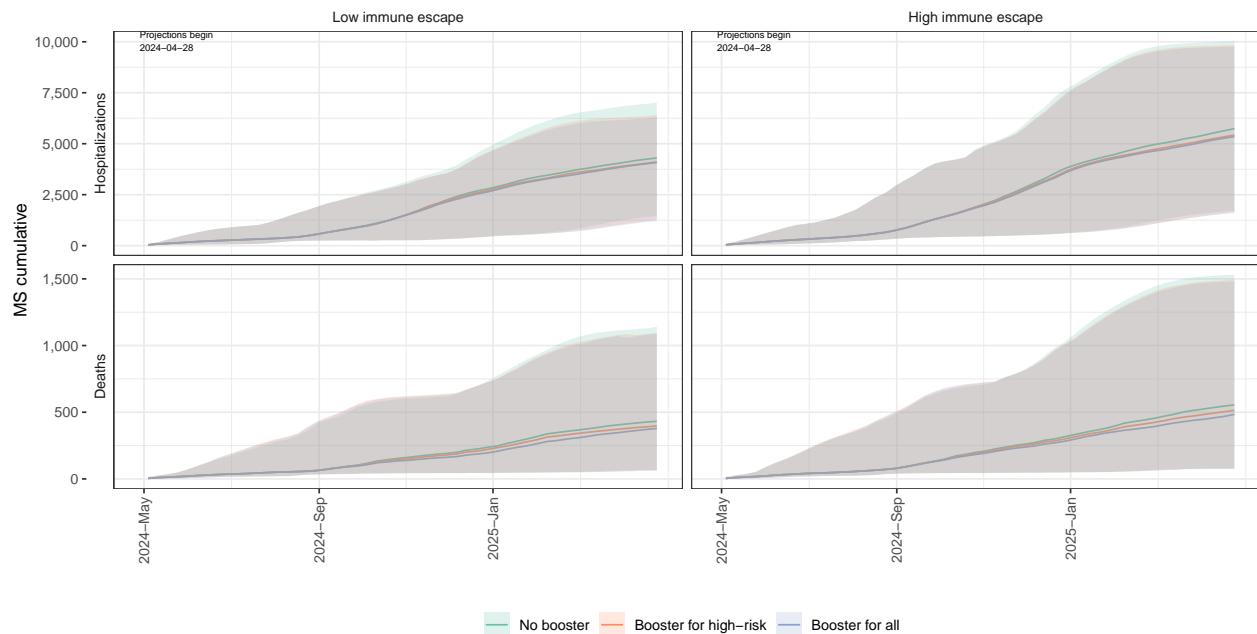
MA ensemble projections & 95% projection intervals



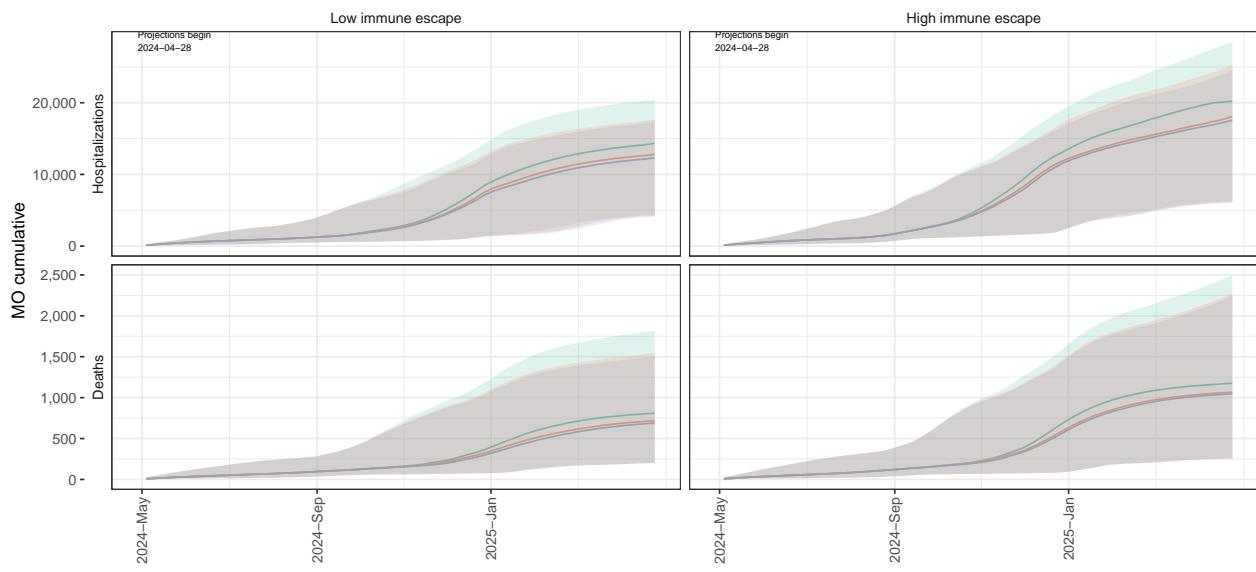
MN ensemble projections & 95% projection intervals



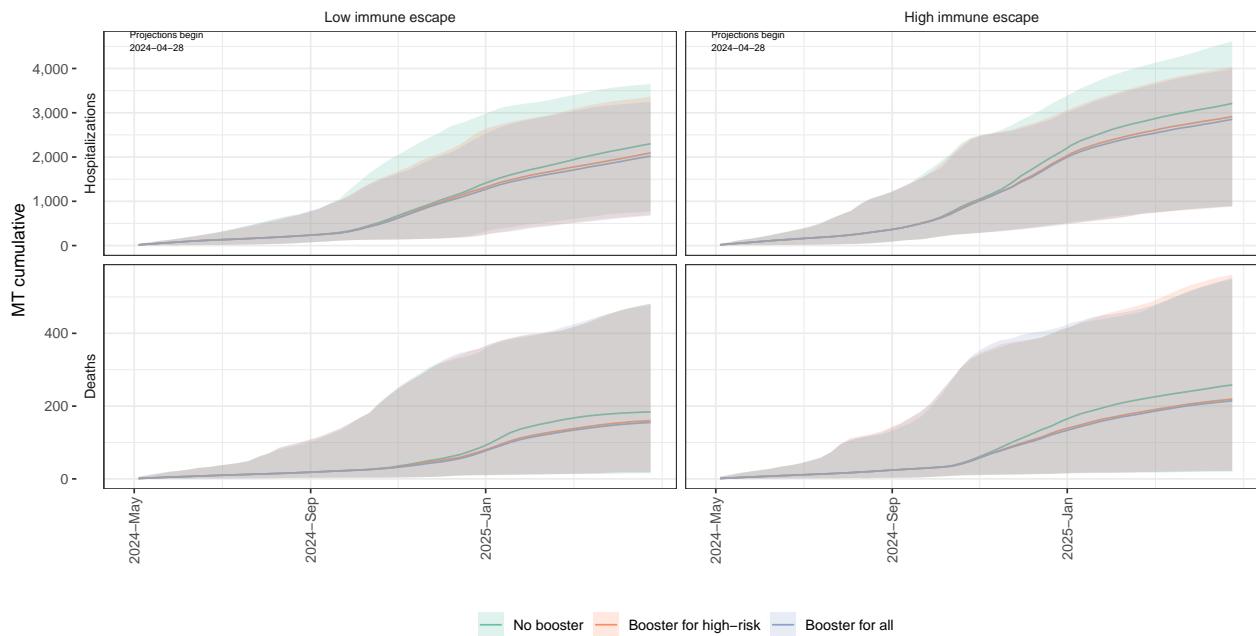
MS ensemble projections & 95% projection intervals



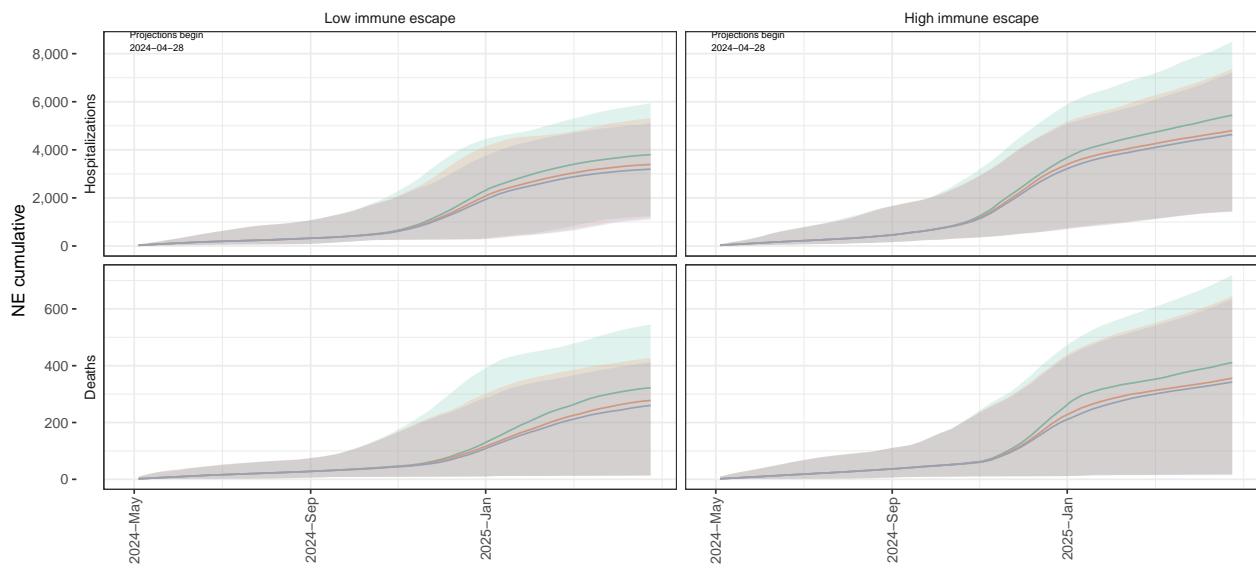
MO ensemble projections & 95% projection intervals



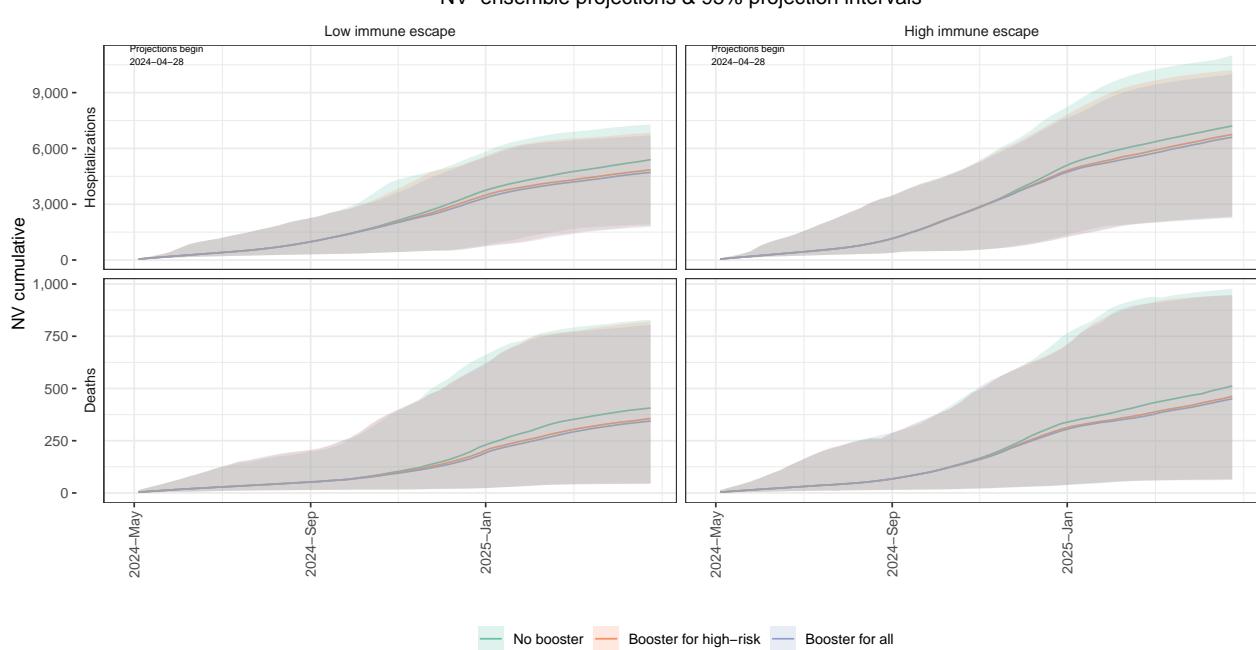
MT ensemble projections & 95% projection intervals



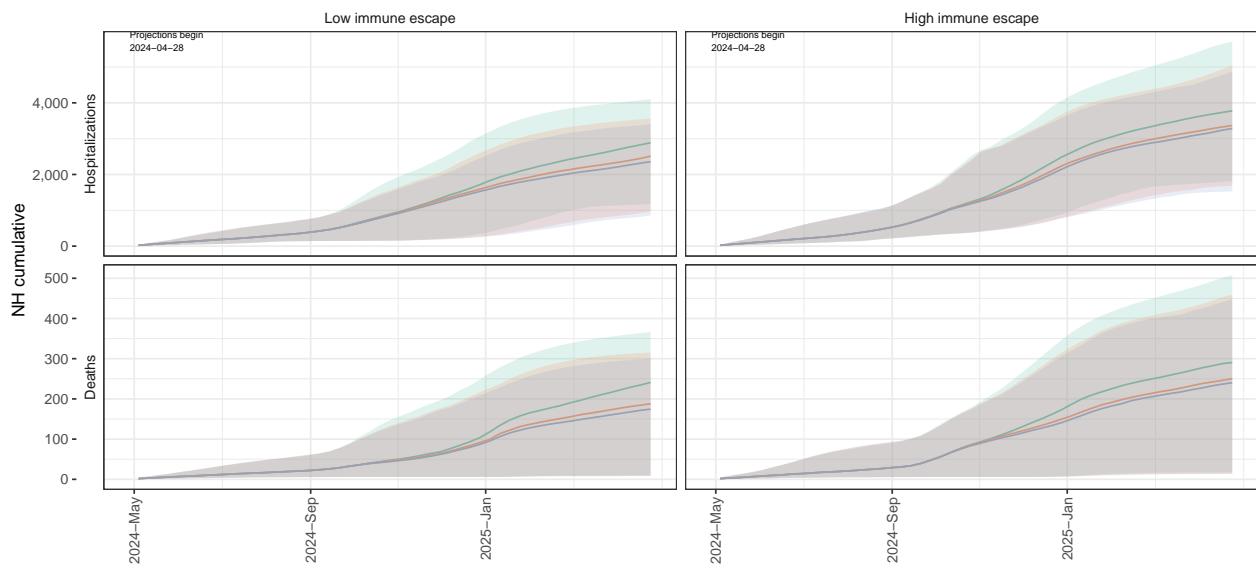
NE ensemble projections & 95% projection intervals



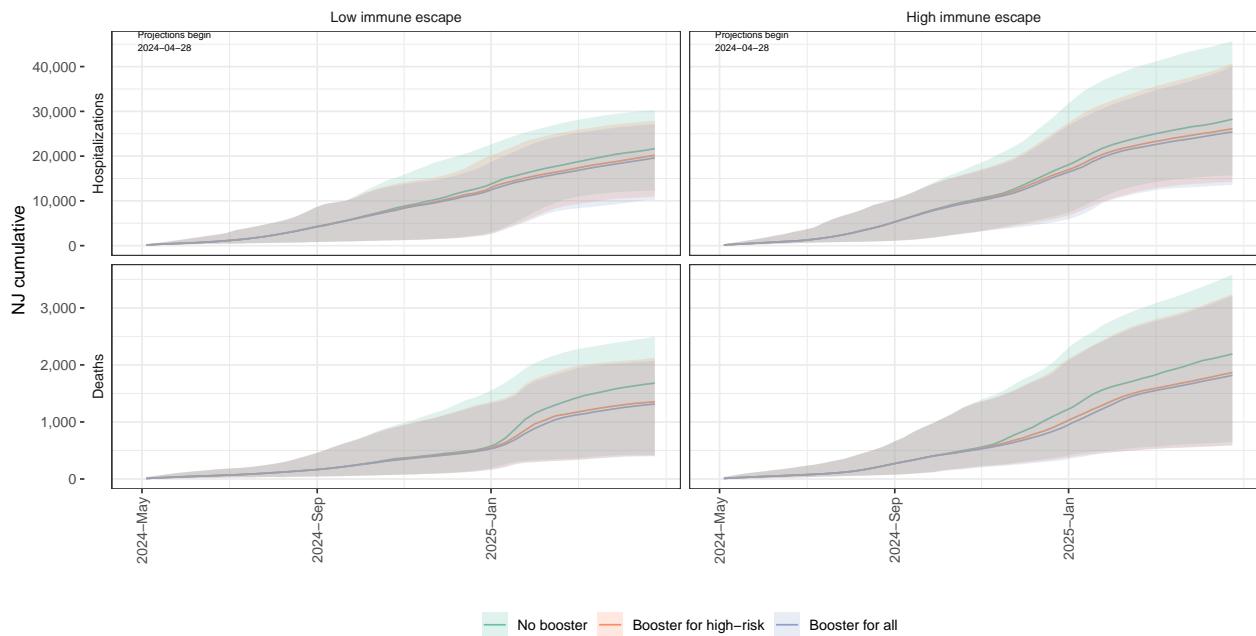
NV ensemble projections & 95% projection intervals



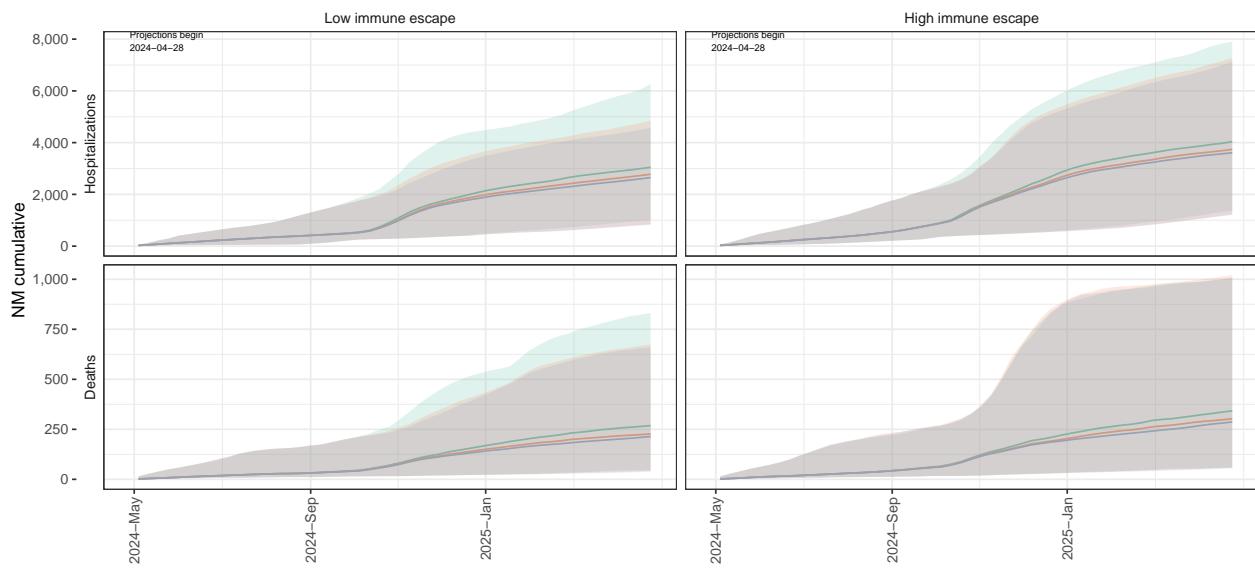
NH ensemble projections & 95% projection intervals



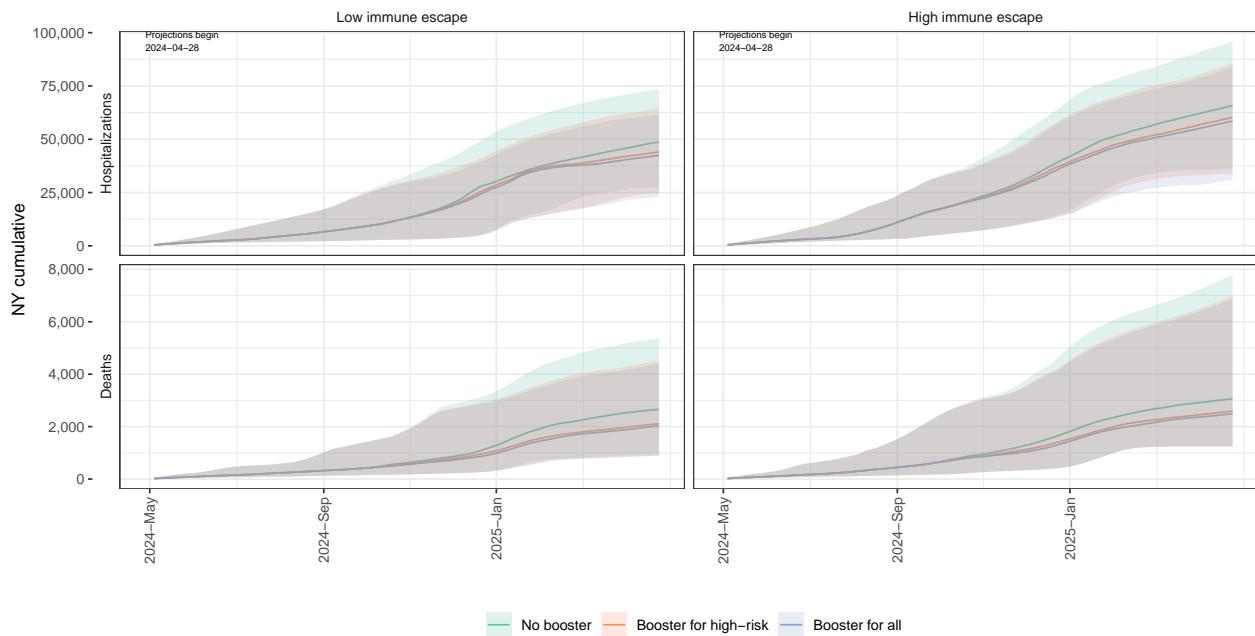
NJ ensemble projections & 95% projection intervals



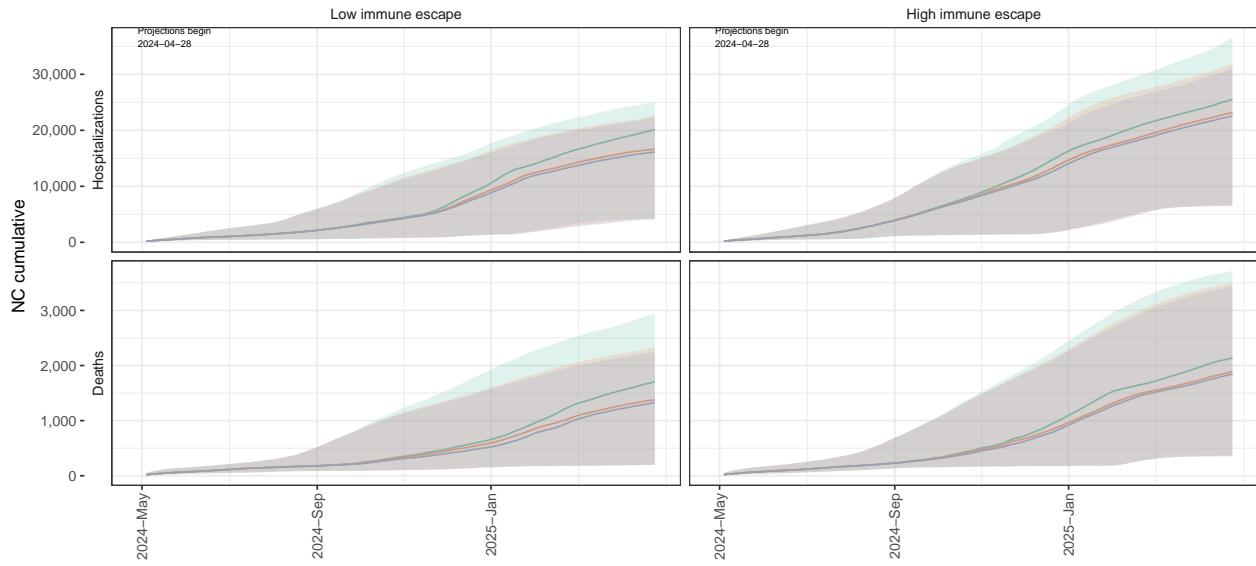
NM ensemble projections & 95% projection intervals



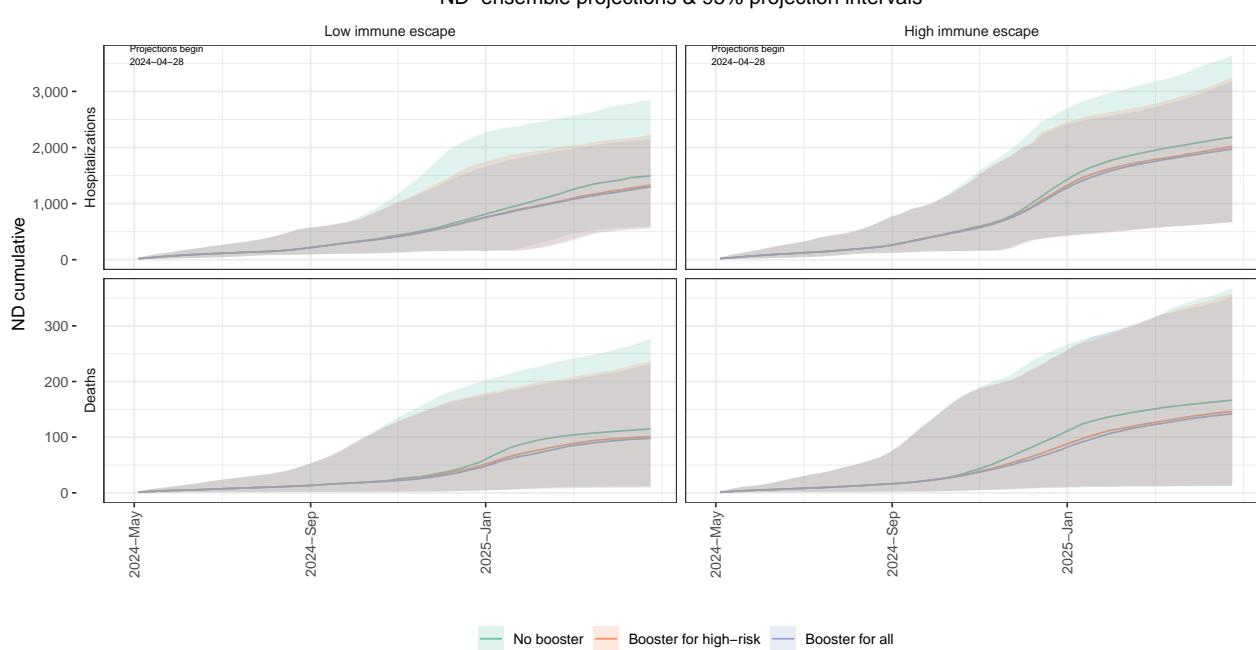
NY ensemble projections & 95% projection intervals



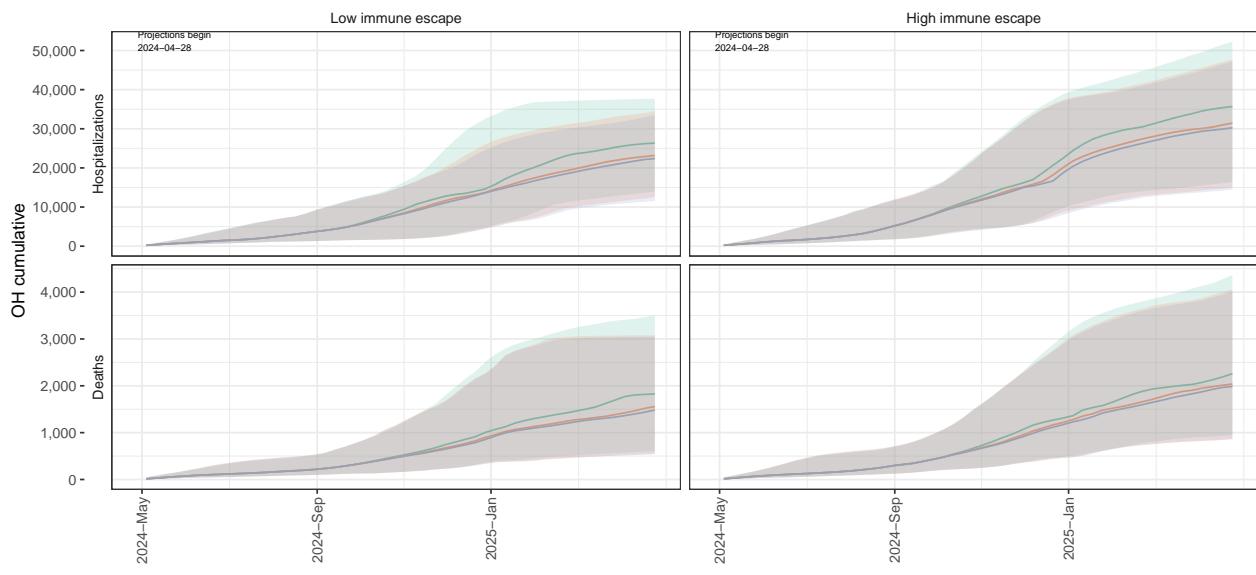
NC ensemble projections & 95% projection intervals



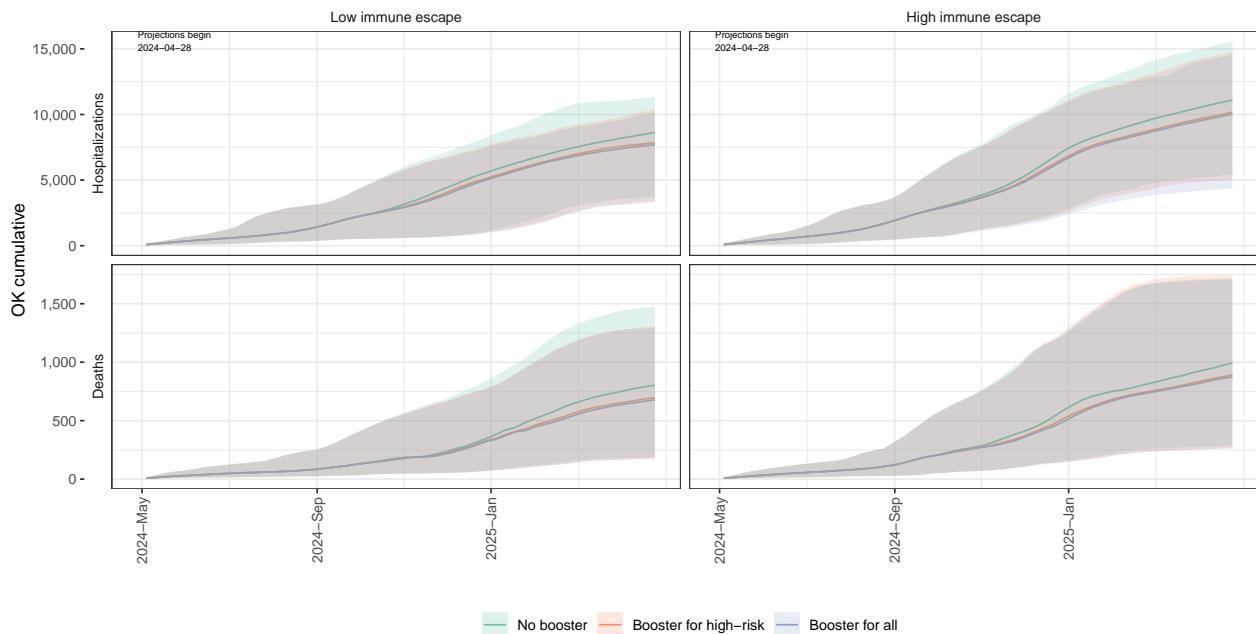
ND ensemble projections & 95% projection intervals



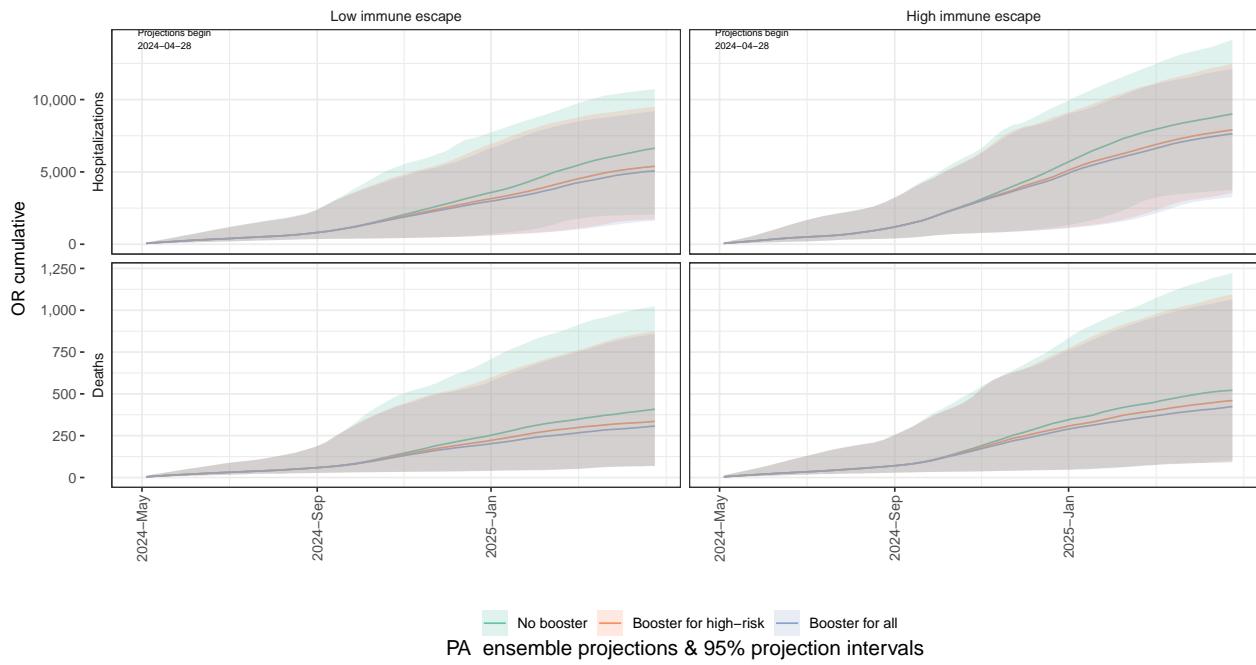
OH ensemble projections & 95% projection intervals



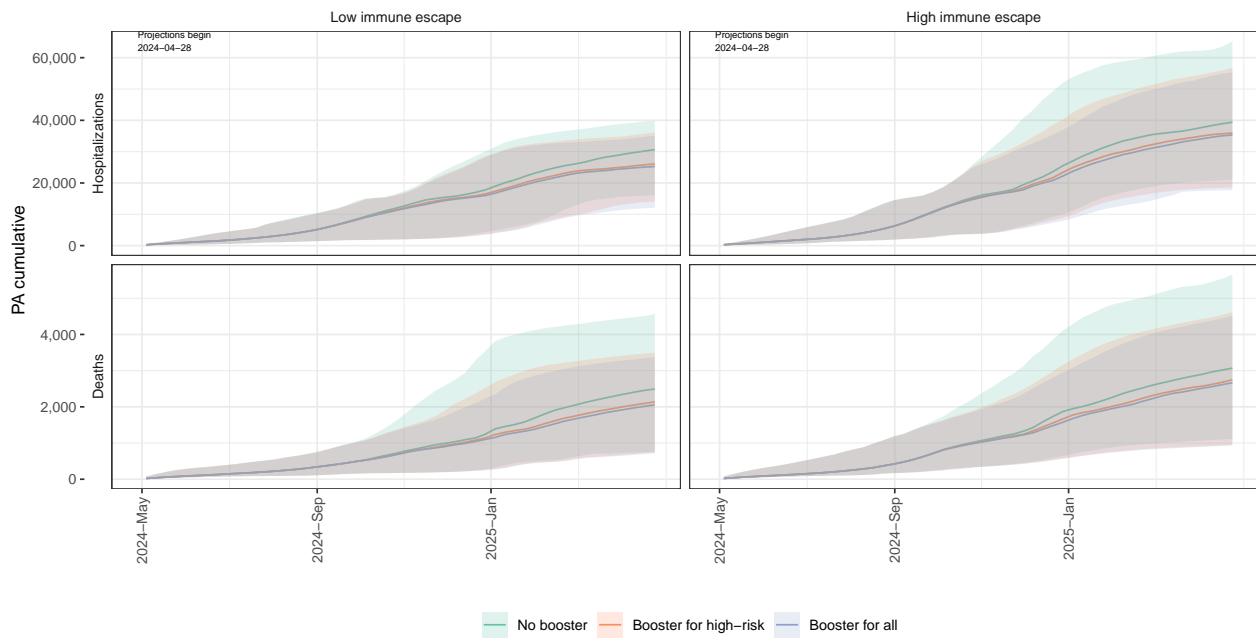
OK ensemble projections & 95% projection intervals



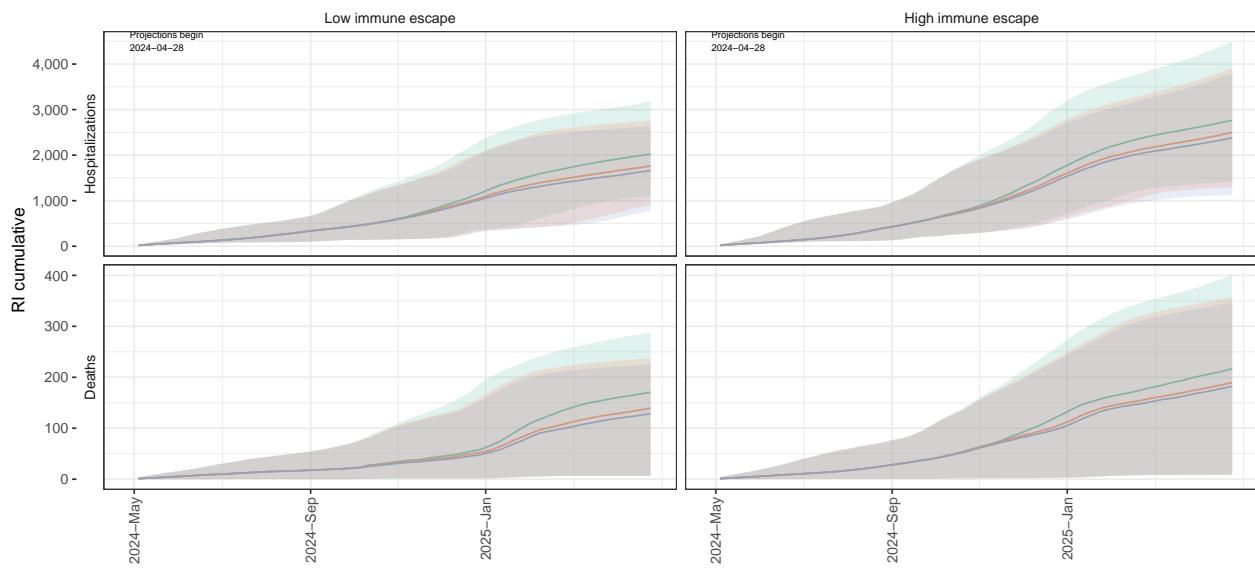
OR ensemble projections & 95% projection intervals



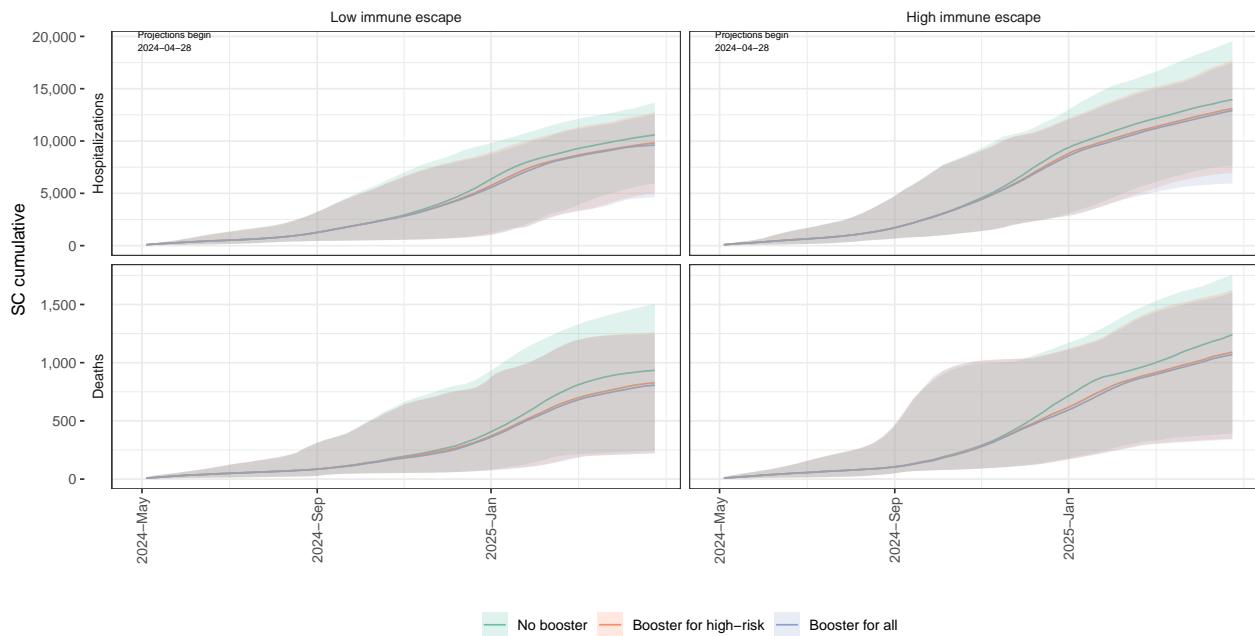
PA ensemble projections & 95% projection intervals



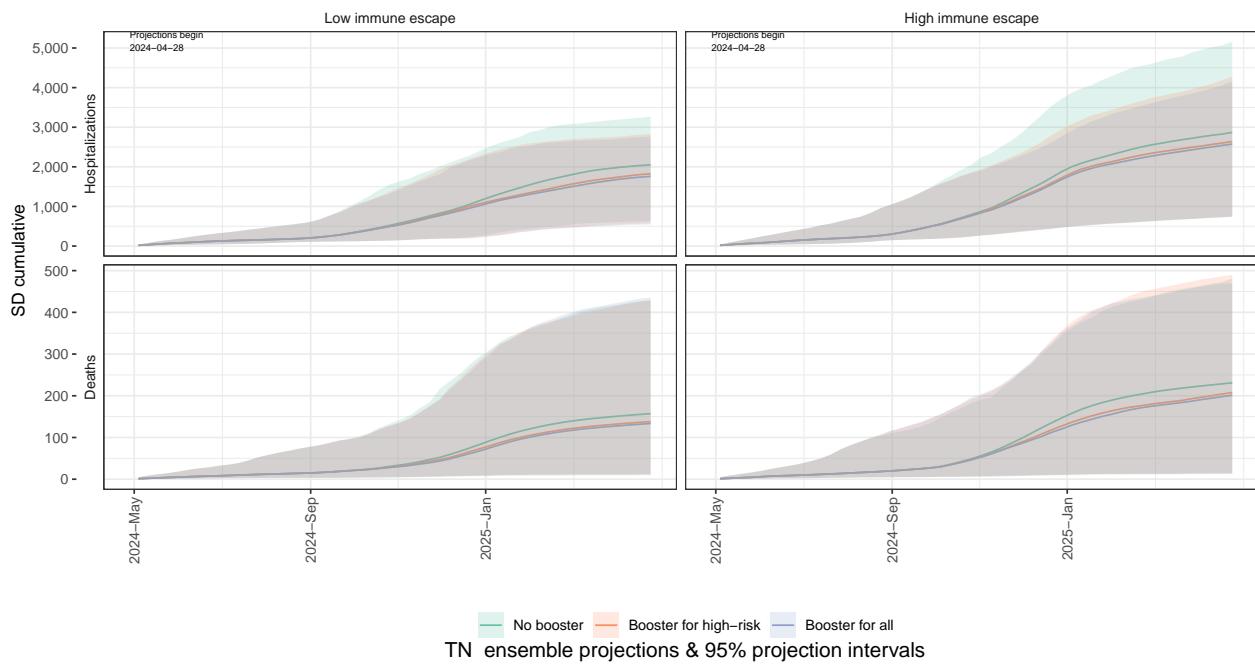
RI ensemble projections & 95% projection intervals



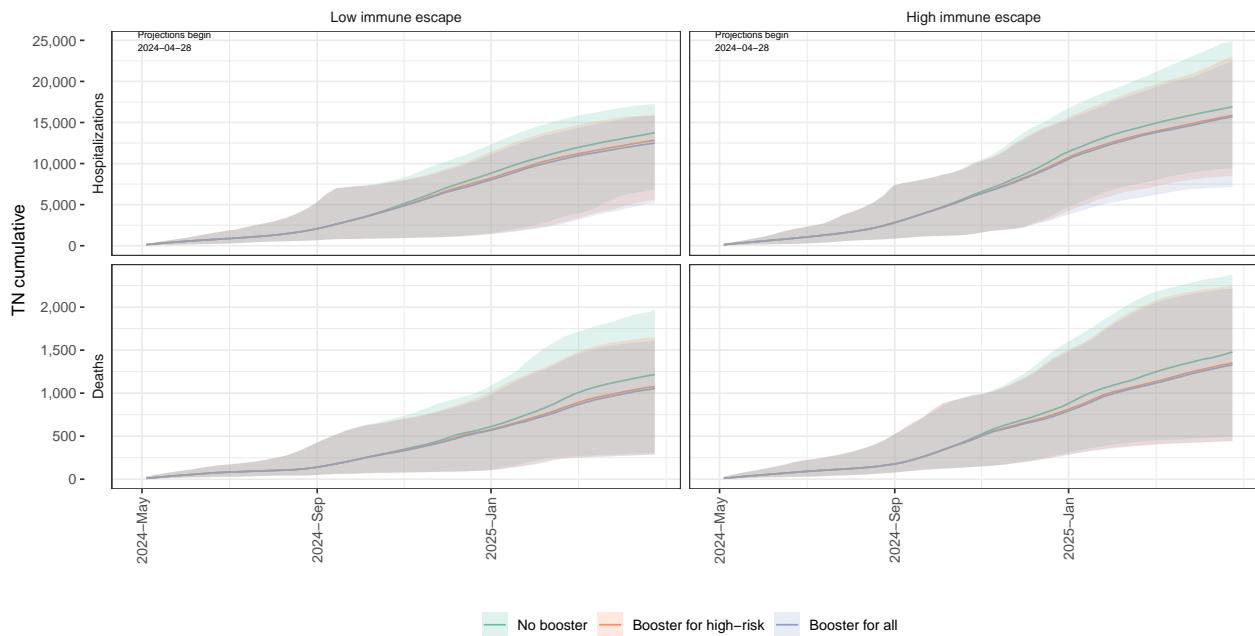
SC ensemble projections & 95% projection intervals



SD ensemble projections & 95% projection intervals

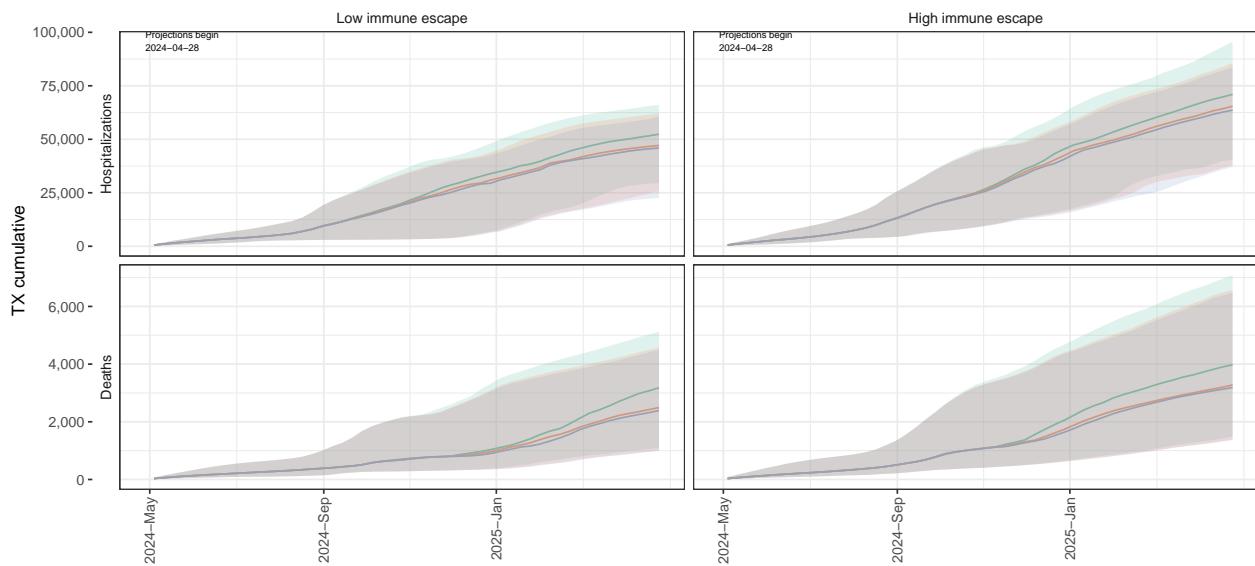


SD ensemble projections & 95% projection intervals

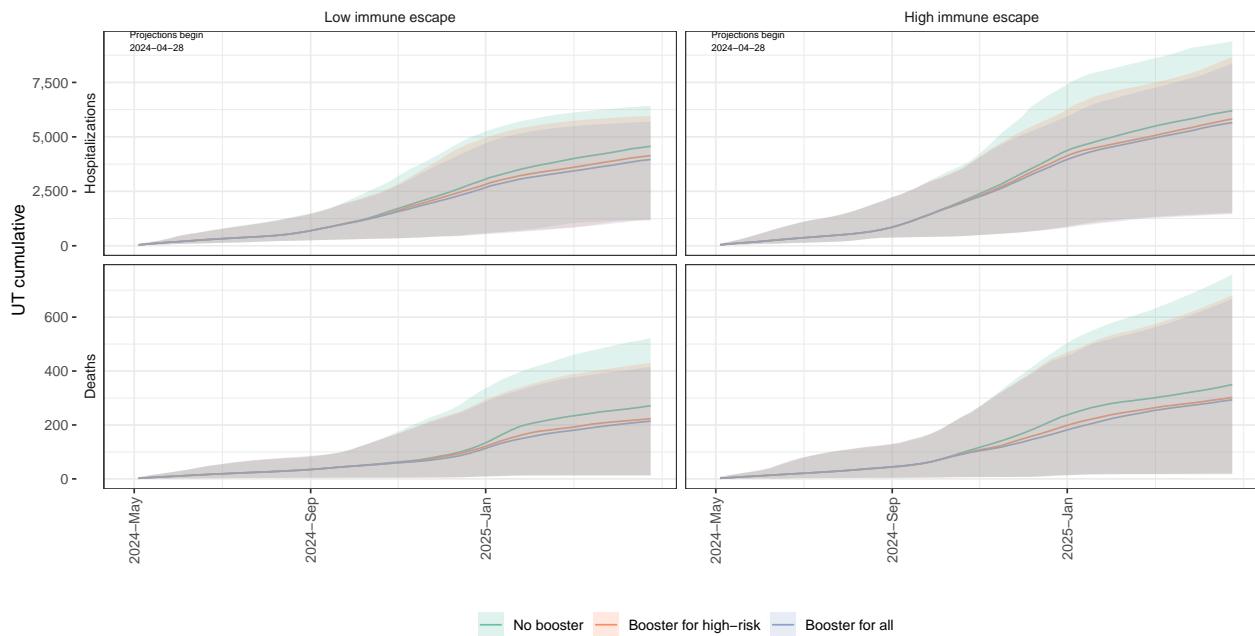


TN ensemble projections & 95% projection intervals

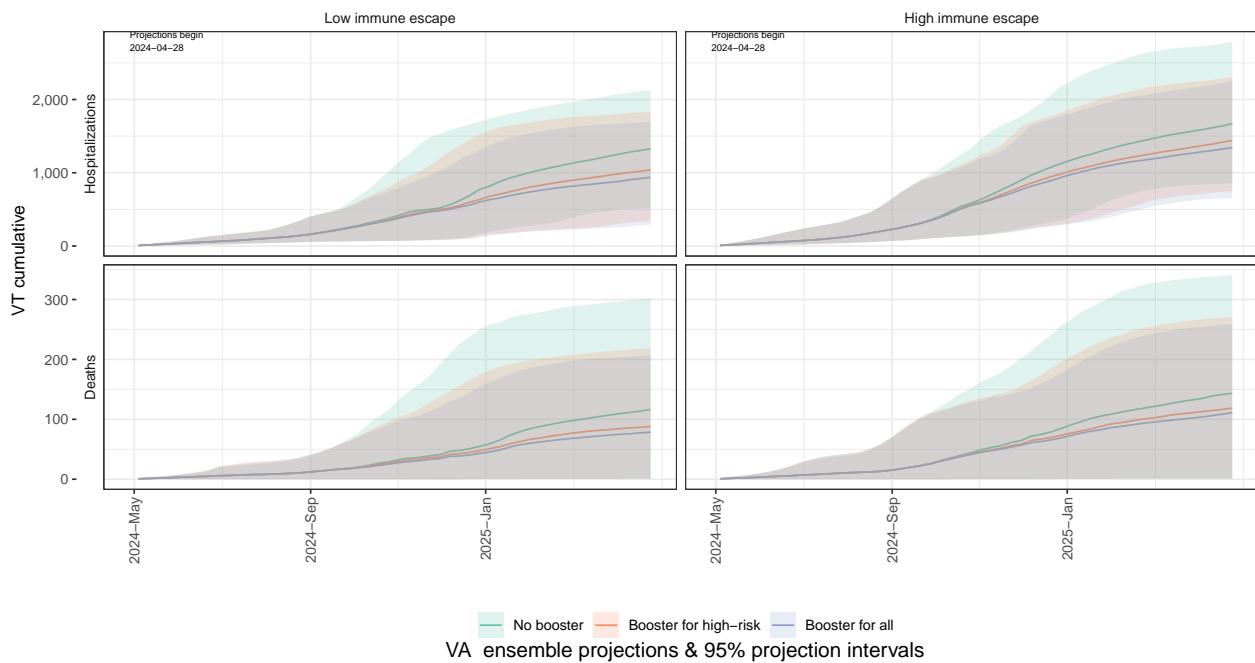
TX ensemble projections & 95% projection intervals



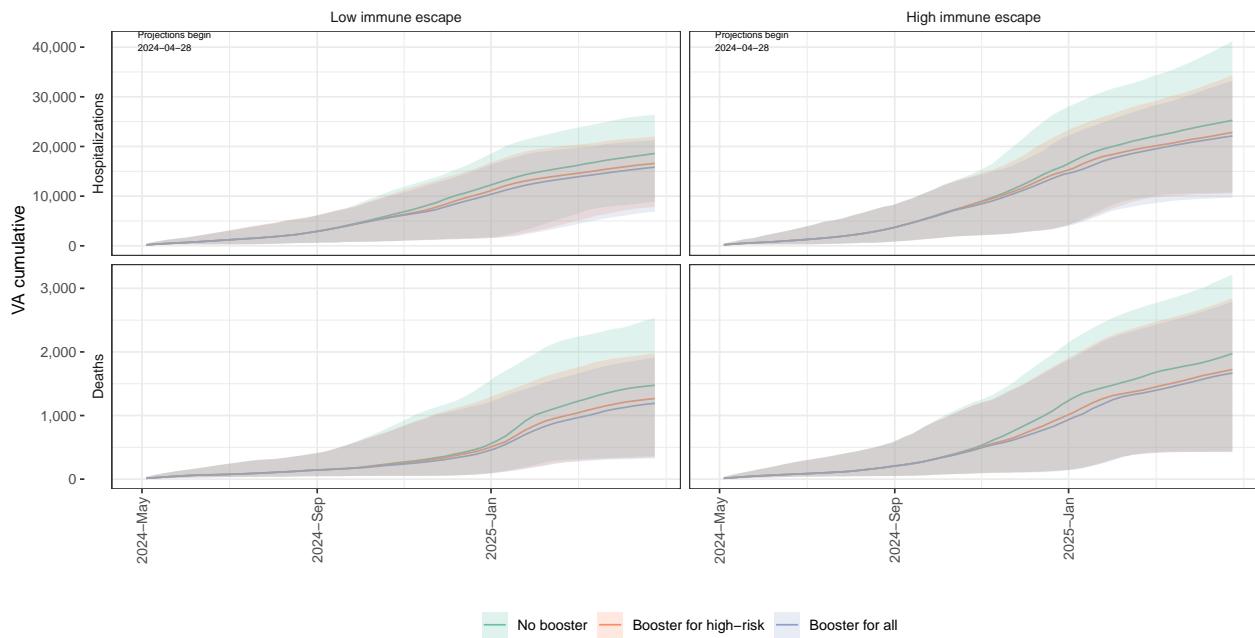
UT ensemble projections & 95% projection intervals



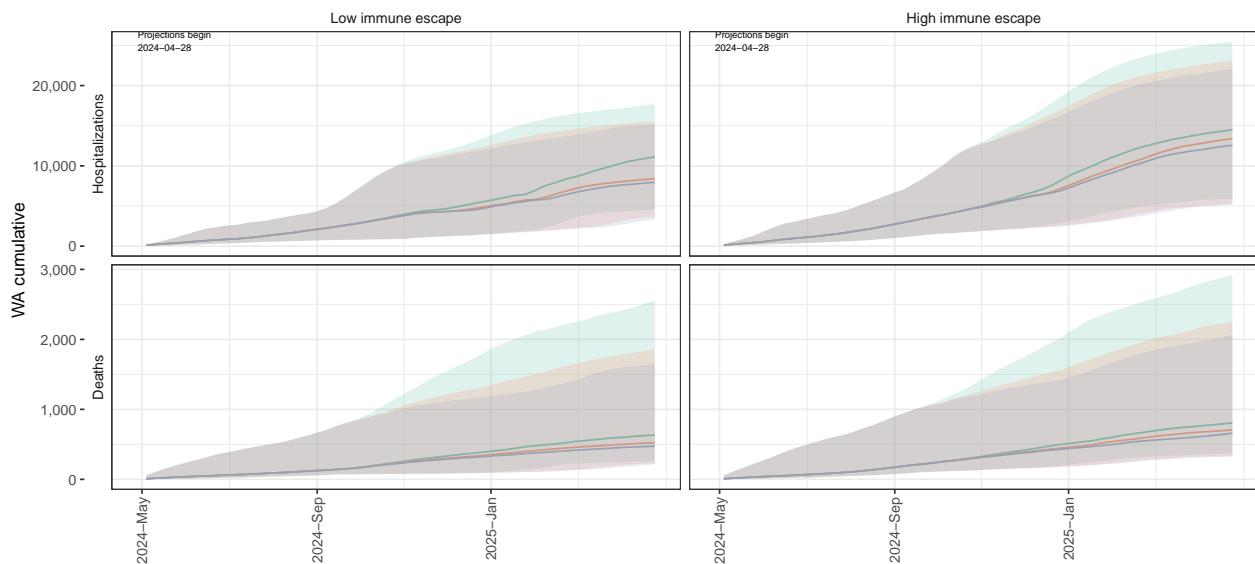
VT ensemble projections & 95% projection intervals



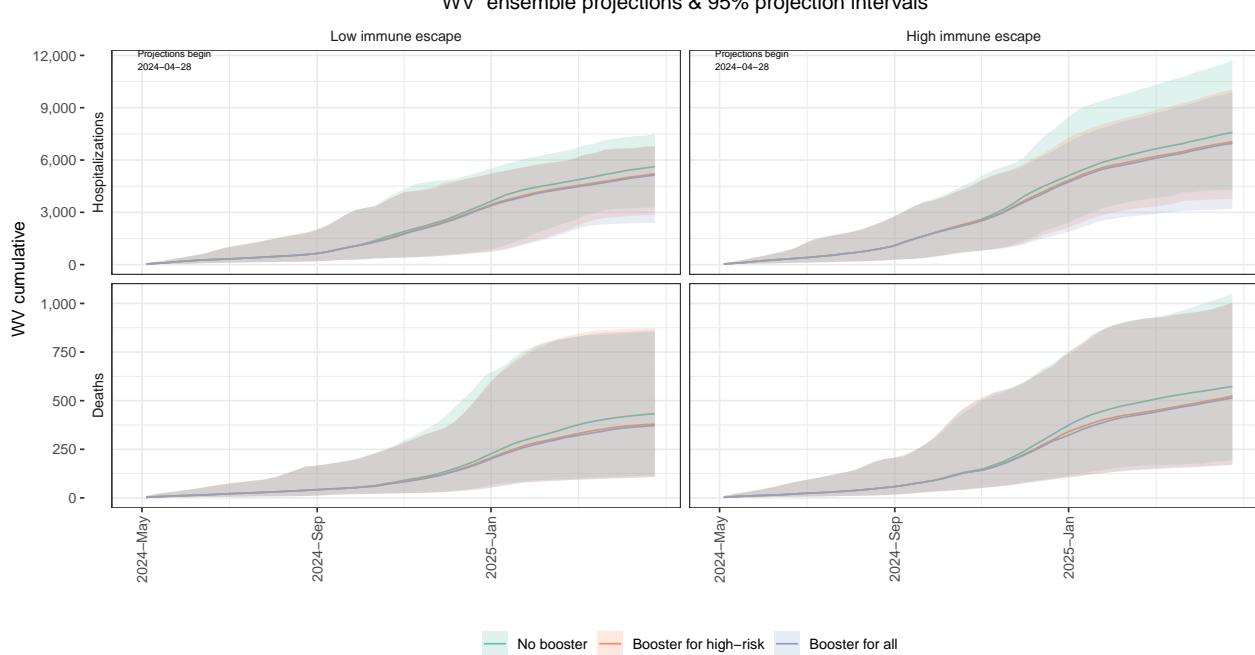
VA ensemble projections & 95% projection intervals



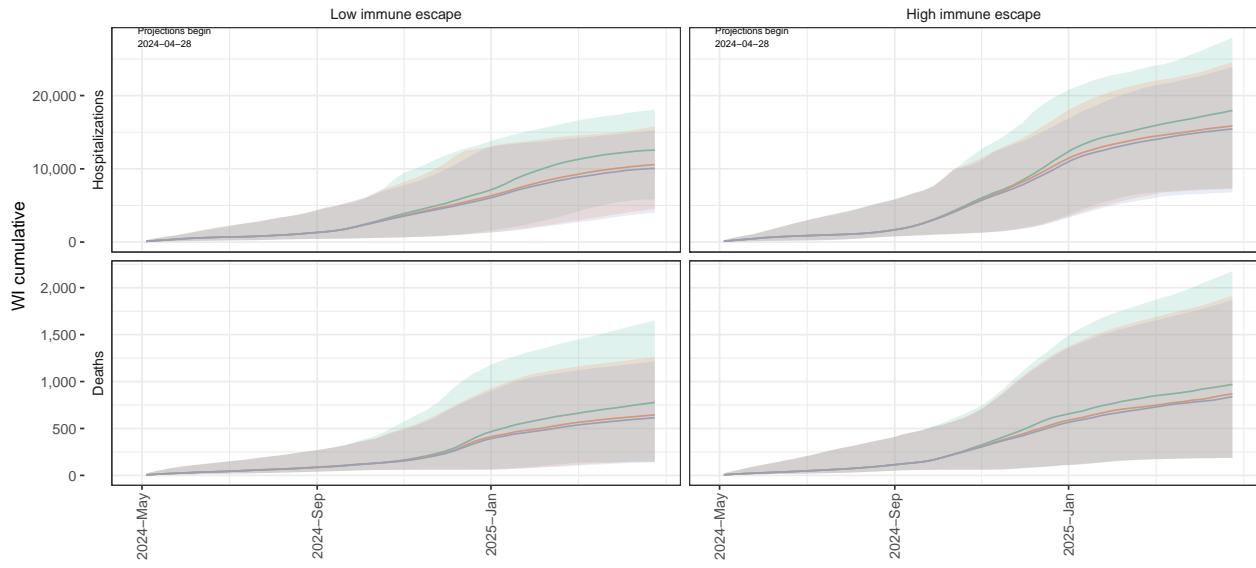
WA ensemble projections & 95% projection intervals



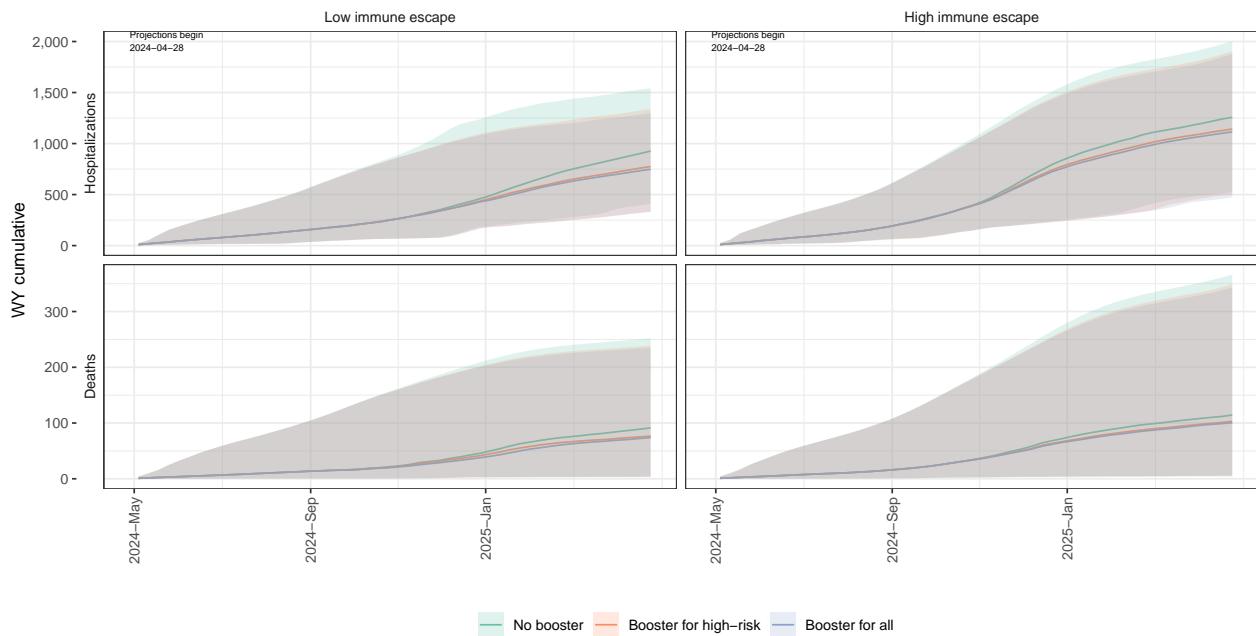
WV ensemble projections & 95% projection intervals

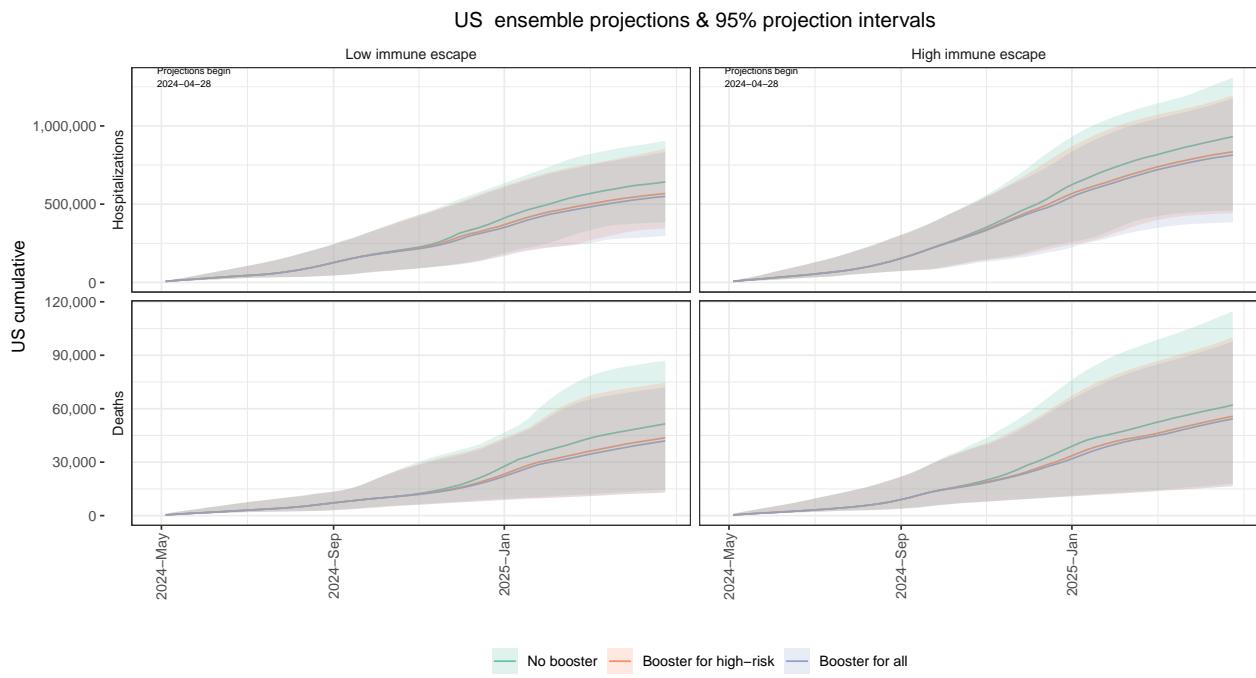


WI ensemble projections & 95% projection intervals



WY ensemble projections & 95% projection intervals

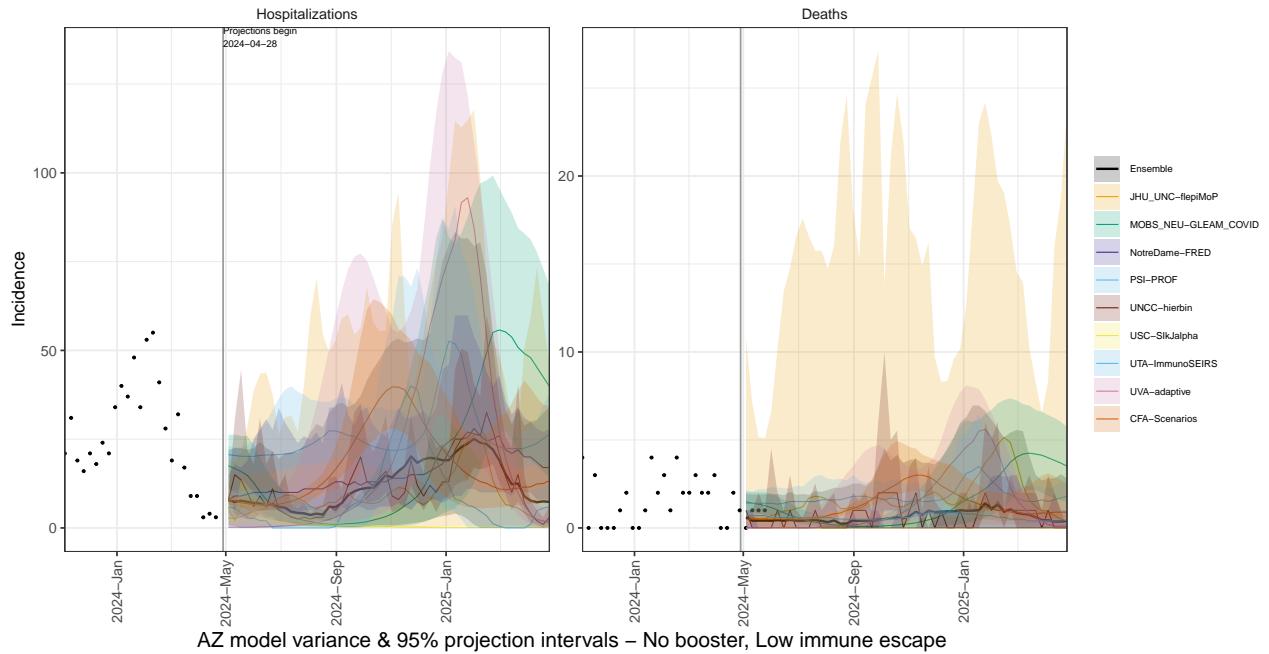




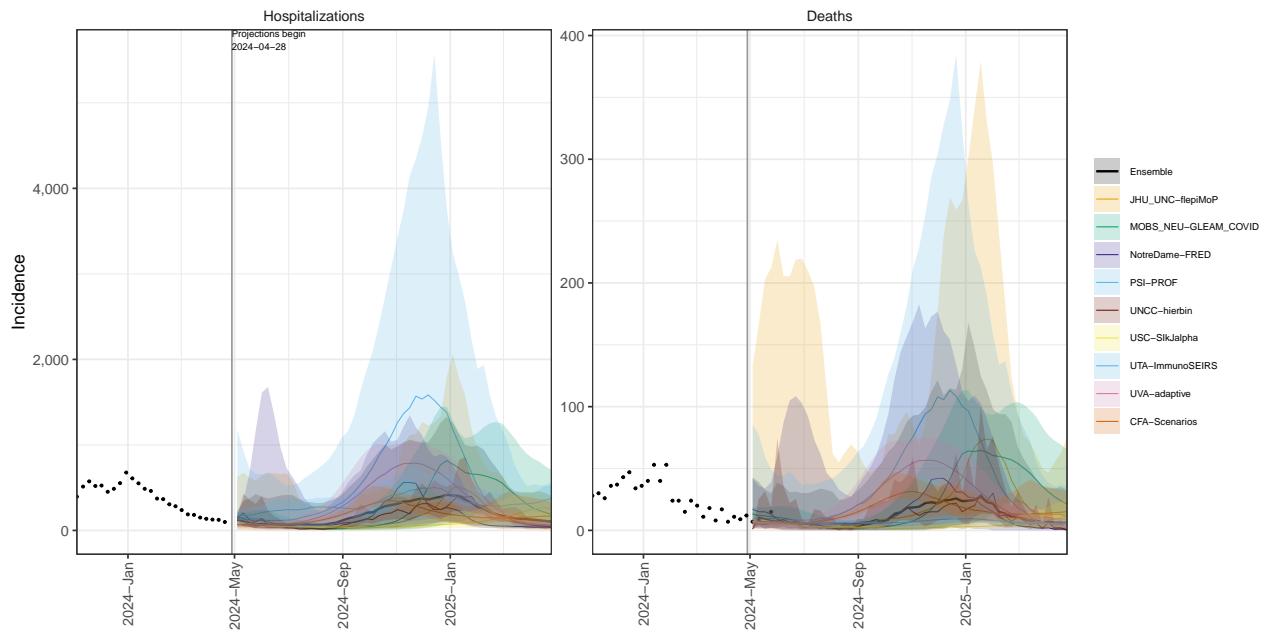
State-level model variation

Model variation for No booster, Low immune escape scenario.

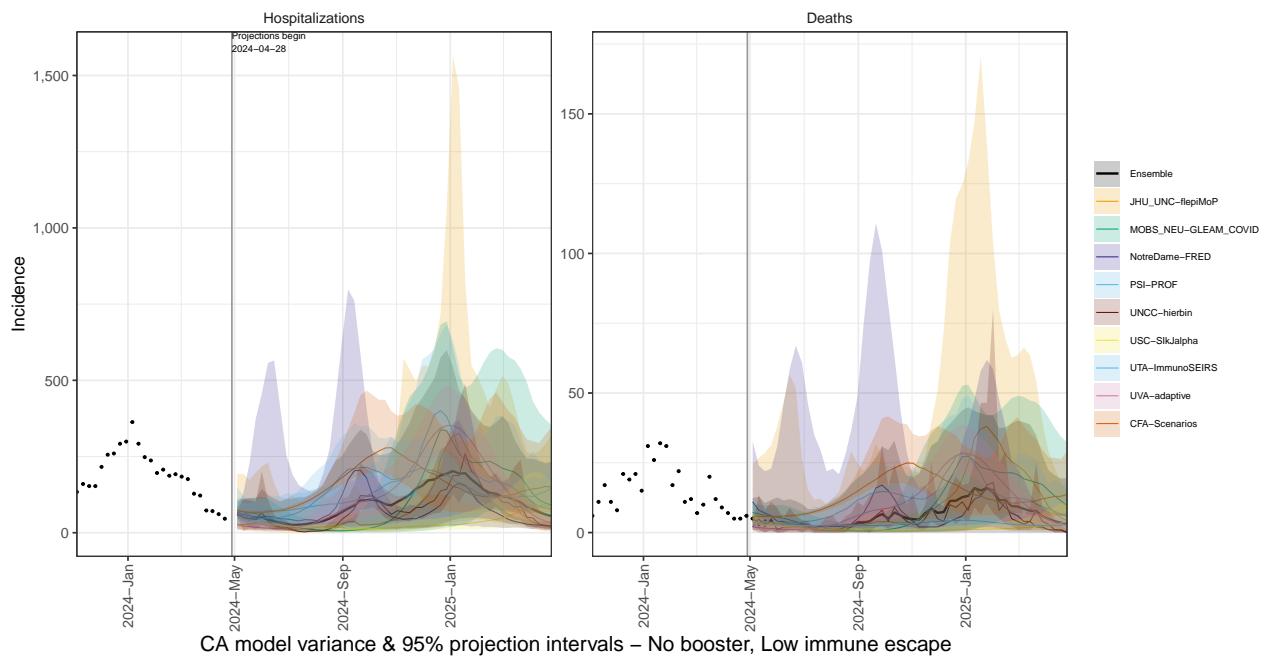
AK model variance & 95% projection intervals – No booster, Low immune escape



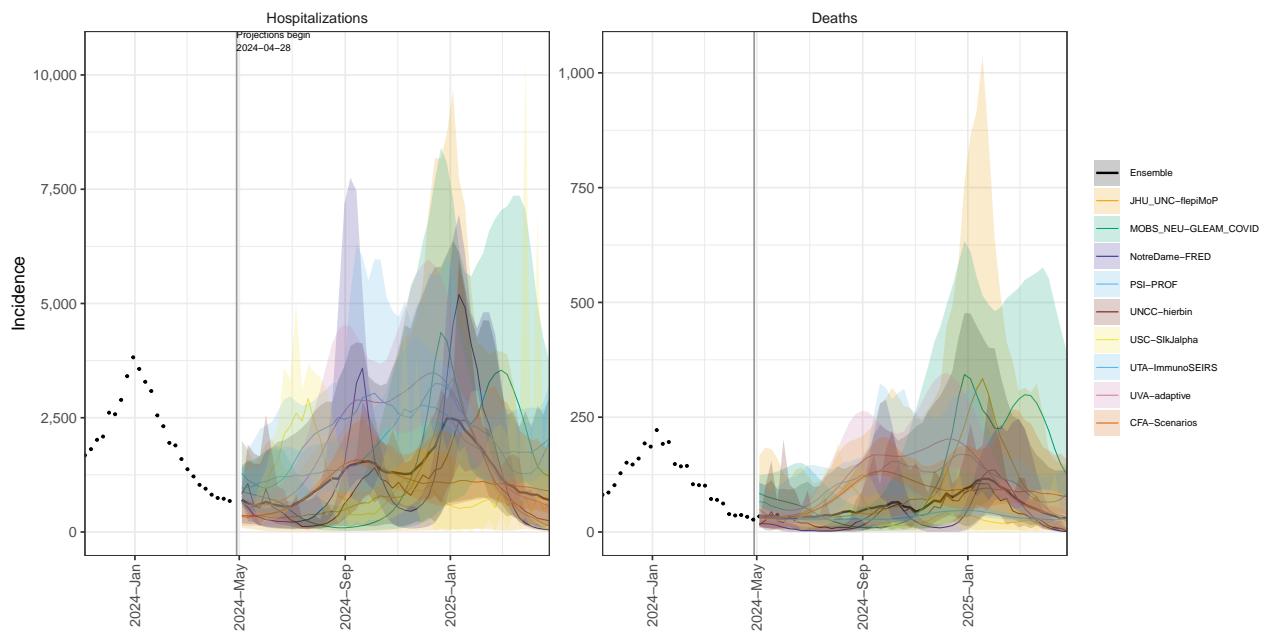
AZ model variance & 95% projection intervals – No booster, Low immune escape



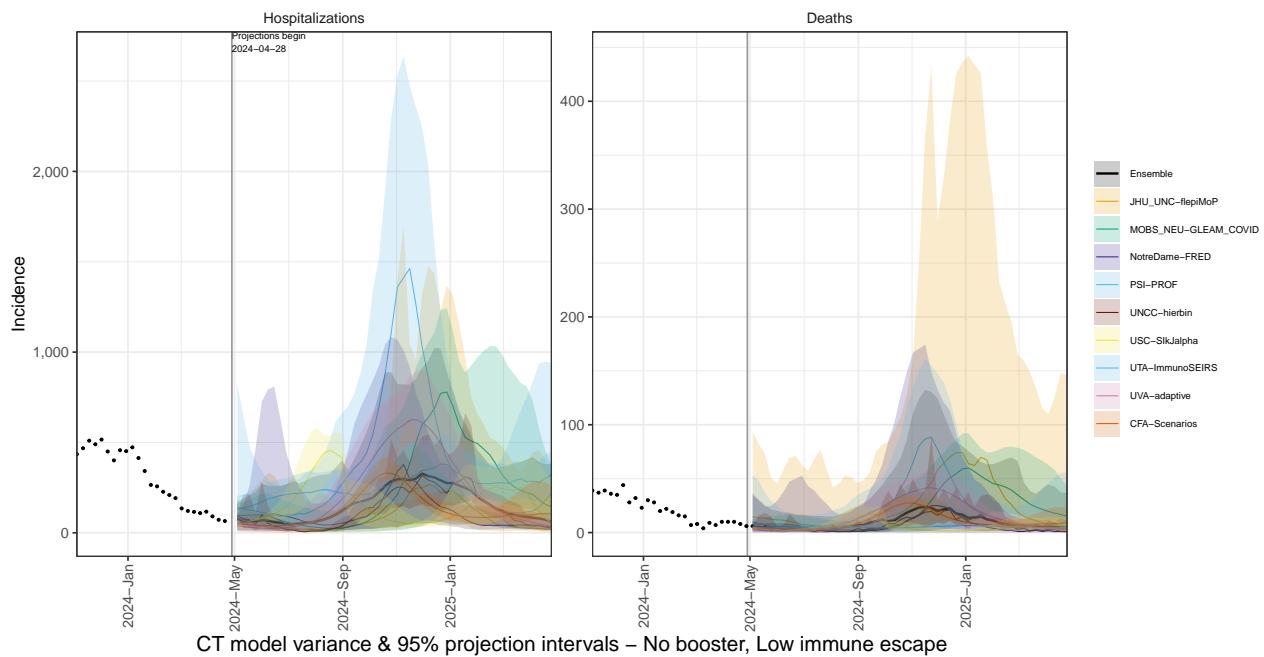
AR model variance & 95% projection intervals – No booster, Low immune escape



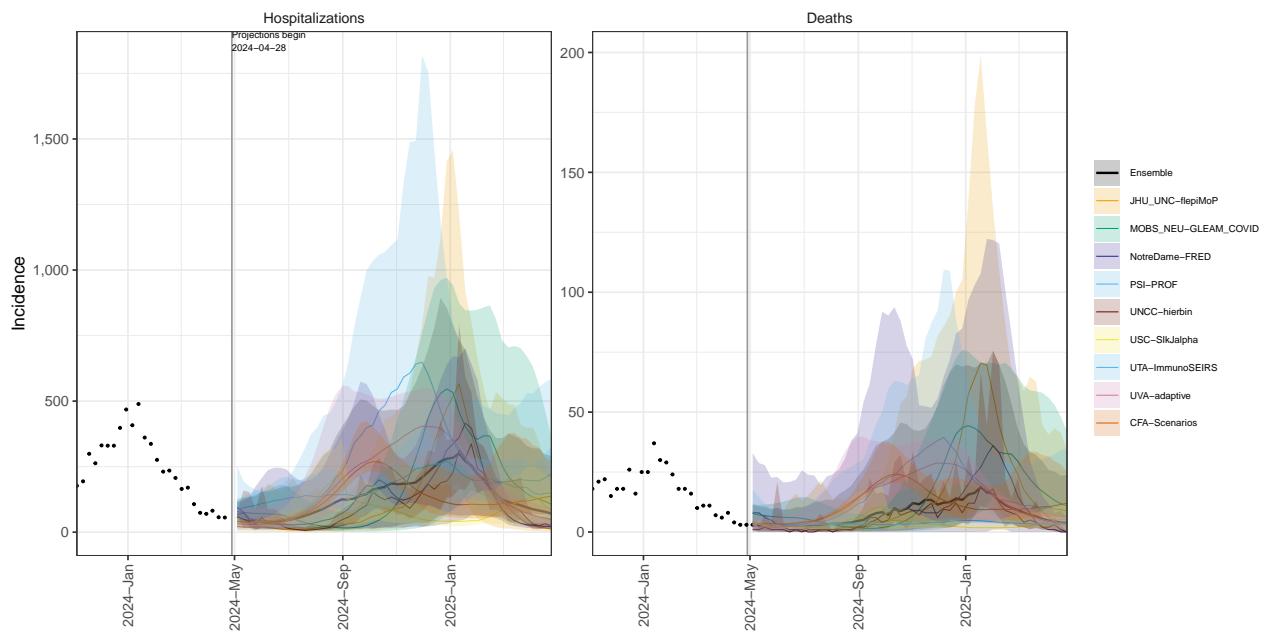
CA model variance & 95% projection intervals – No booster, Low immune escape



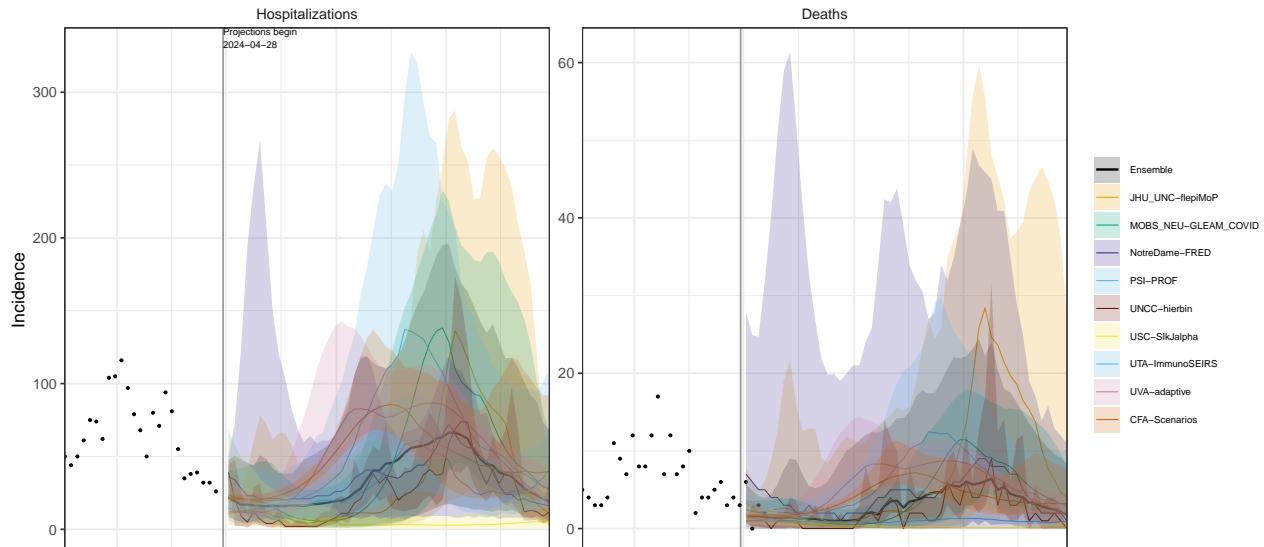
CO model variance & 95% projection intervals – No booster, Low immune escape



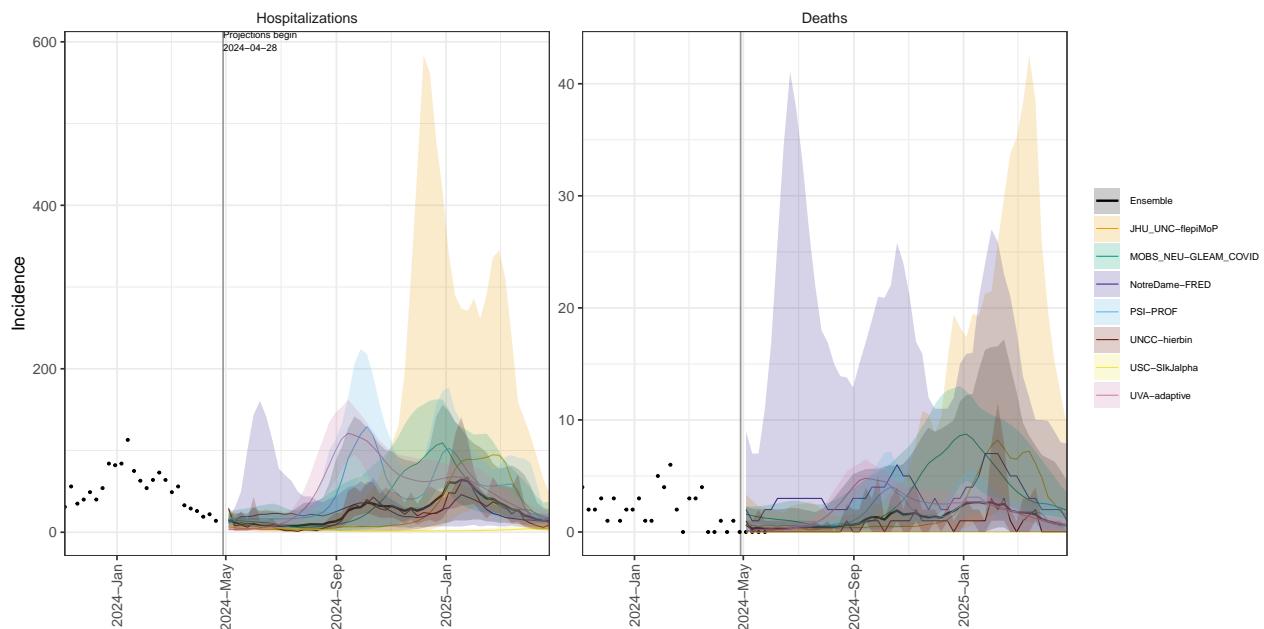
CT model variance & 95% projection intervals – No booster, Low immune escape



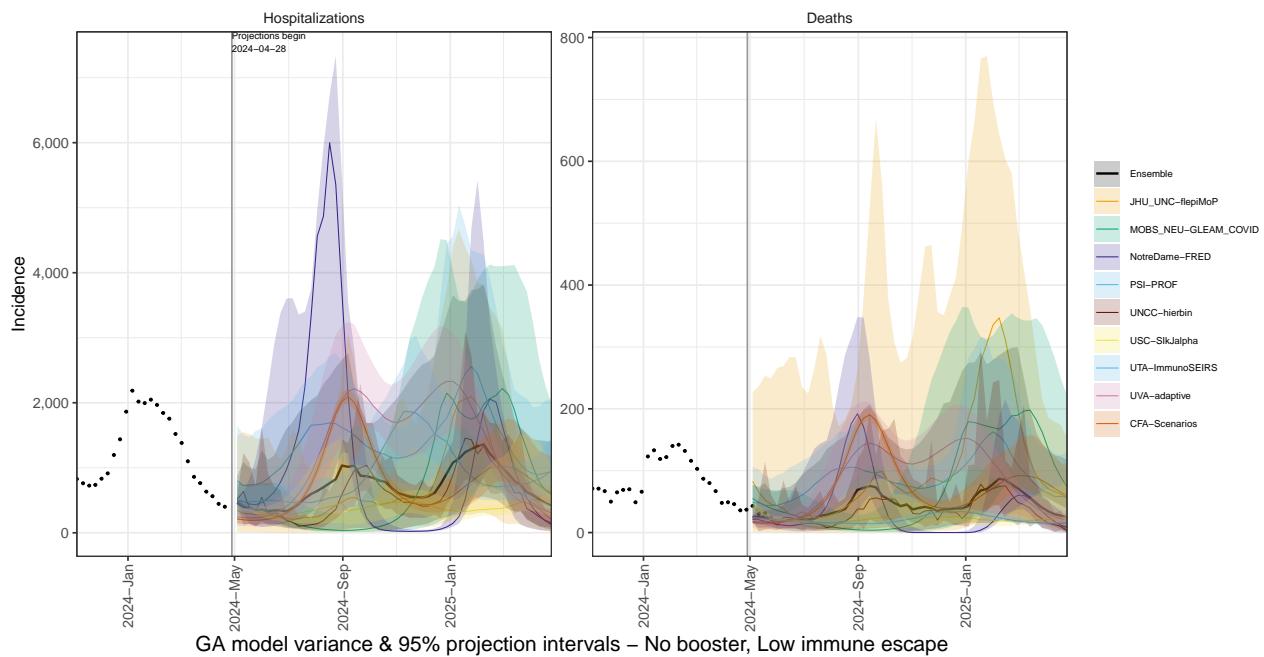
DE model variance & 95% projection intervals – No booster, Low immune escape



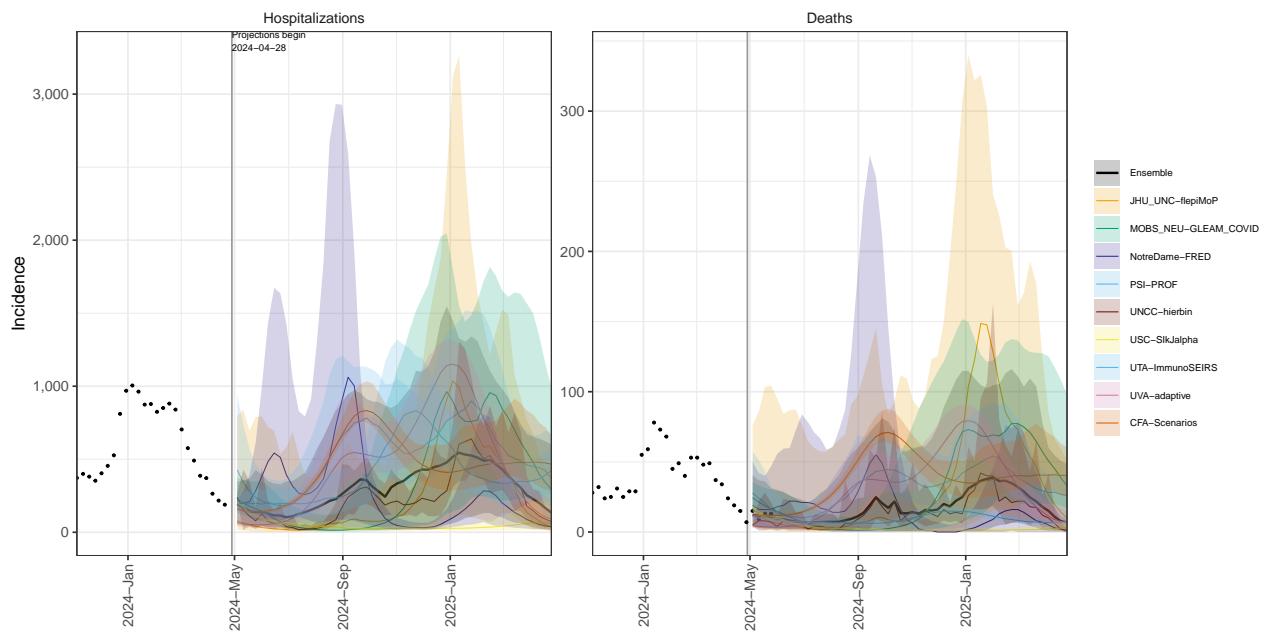
DC model variance & 95% projection intervals – No booster, Low immune escape



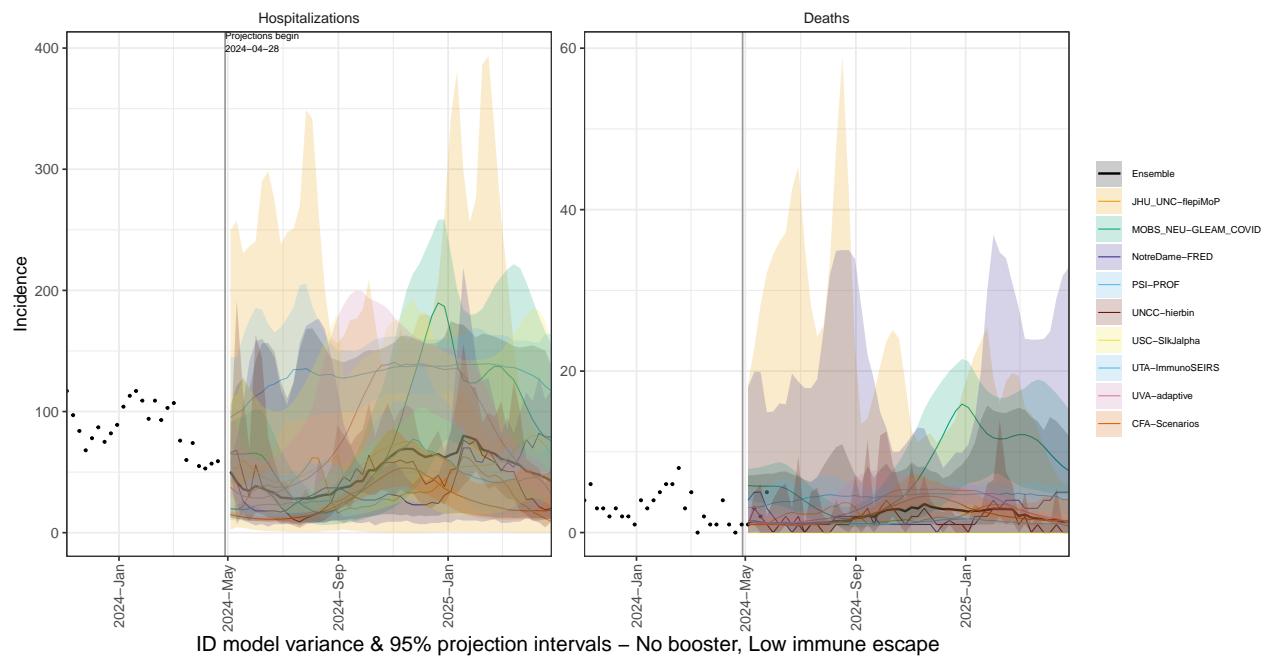
FL model variance & 95% projection intervals – No booster, Low immune escape



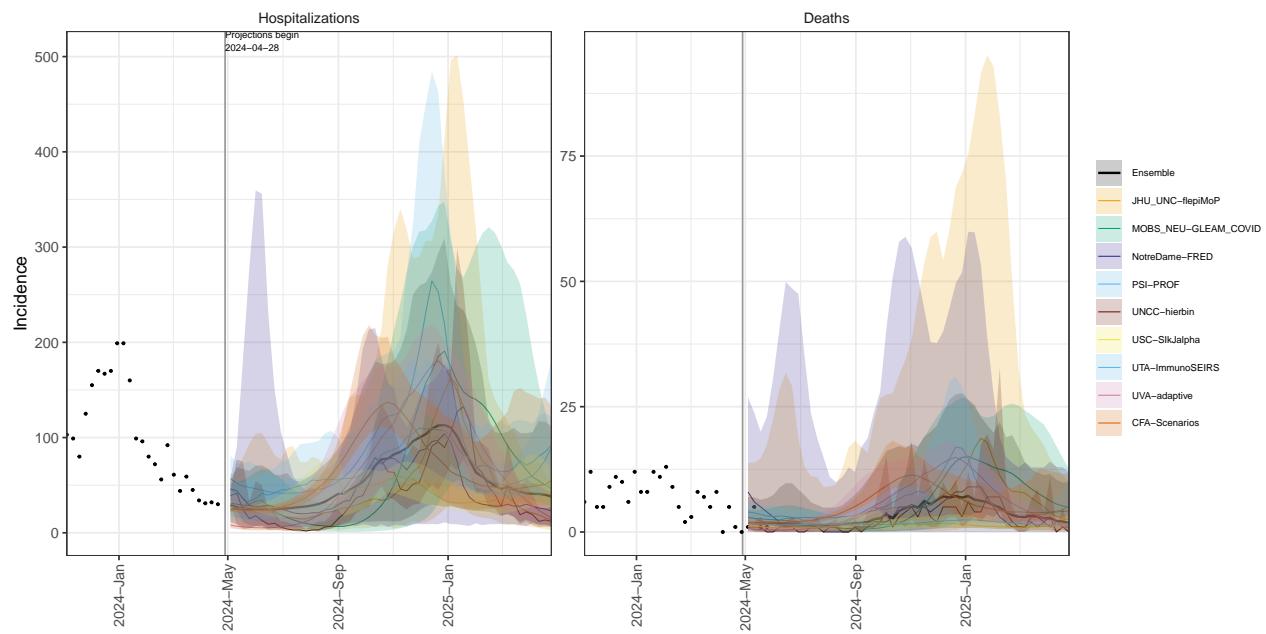
GA model variance & 95% projection intervals – No booster, Low immune escape



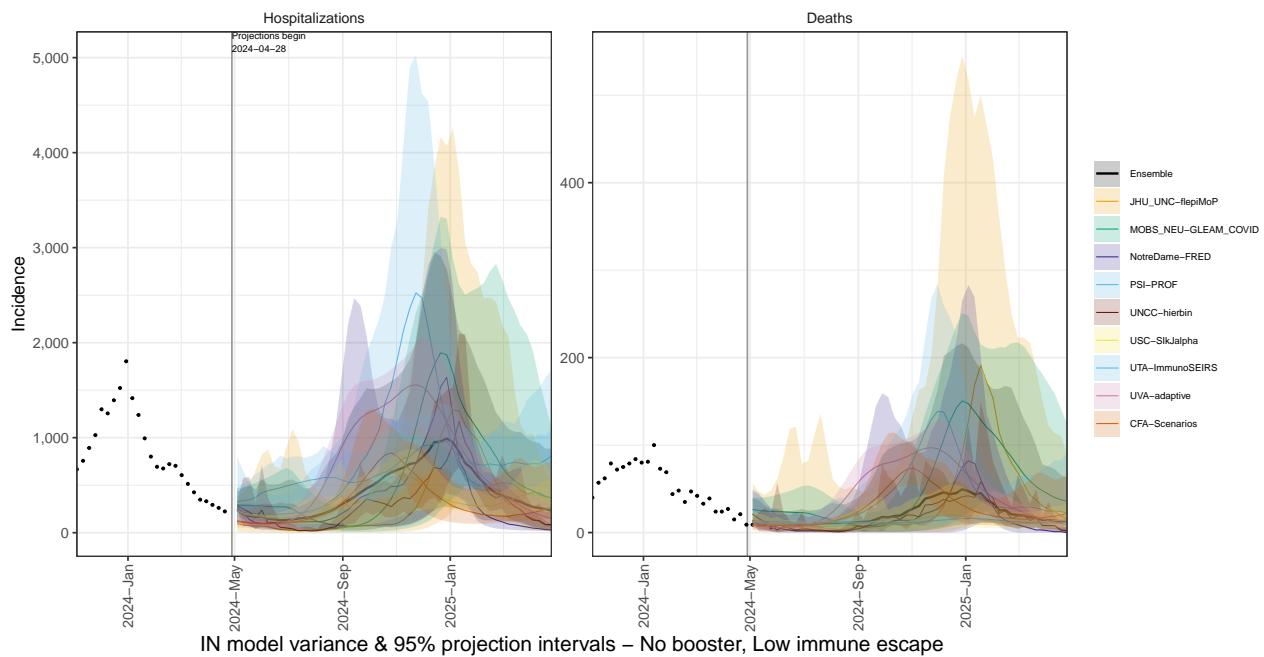
HI model variance & 95% projection intervals – No booster, Low immune escape



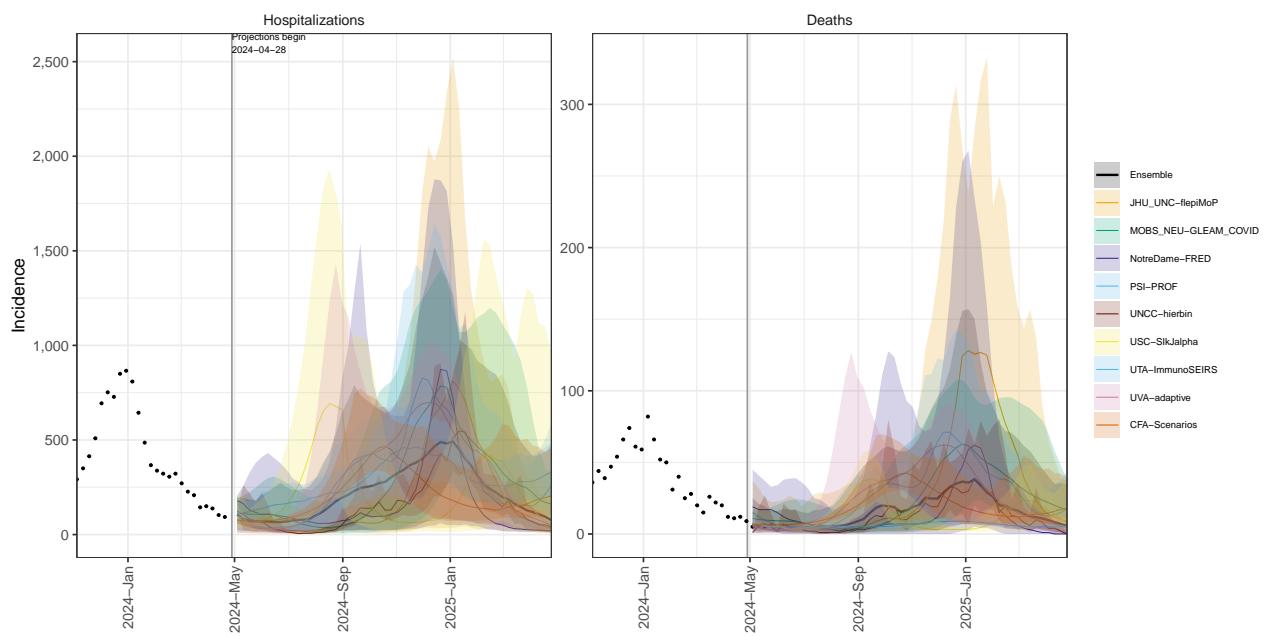
ID model variance & 95% projection intervals – No booster, Low immune escape



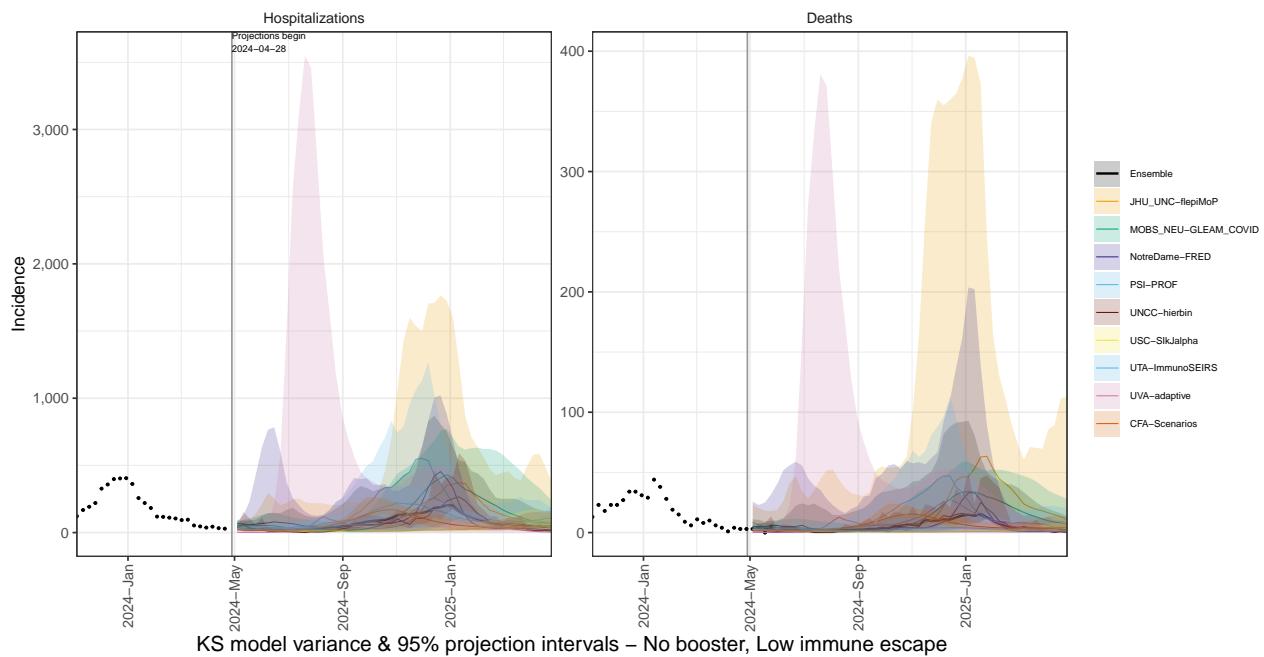
IL model variance & 95% projection intervals – No booster, Low immune escape



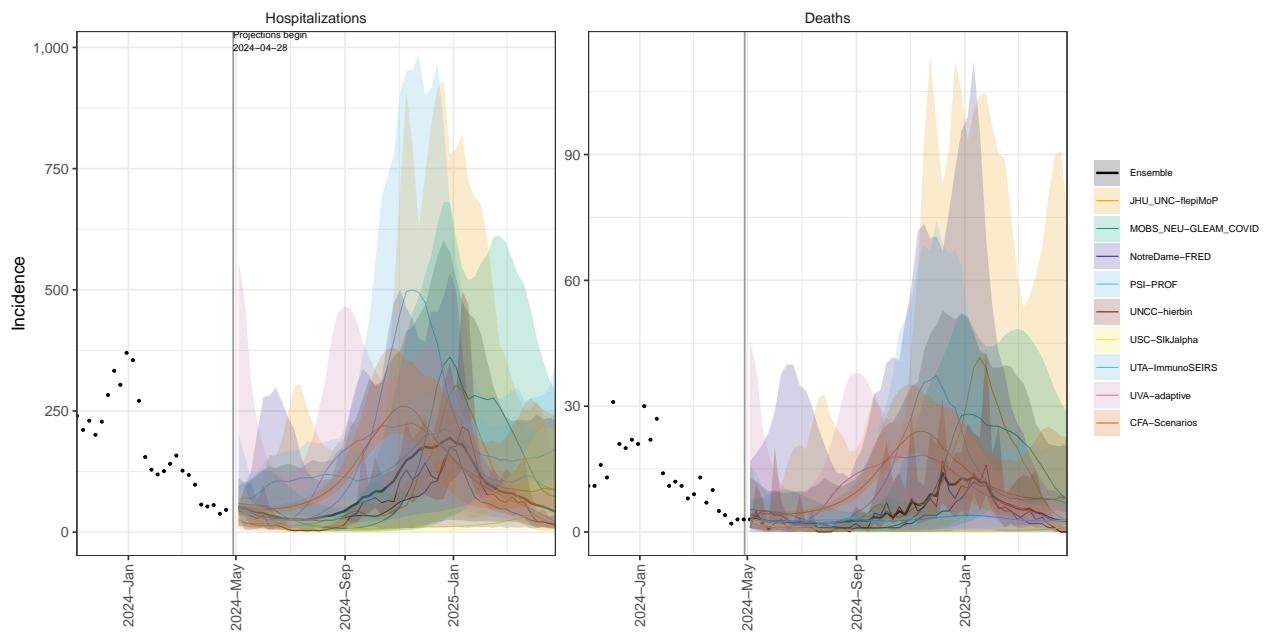
IN model variance & 95% projection intervals – No booster, Low immune escape



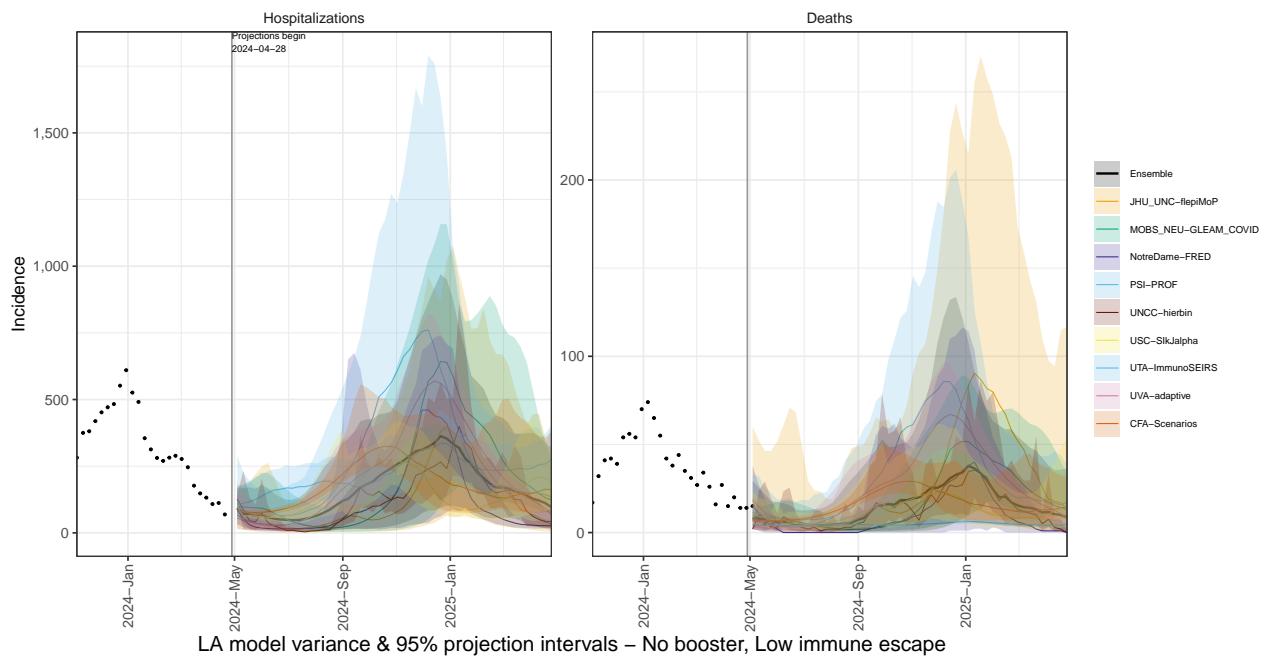
IA model variance & 95% projection intervals – No booster, Low immune escape



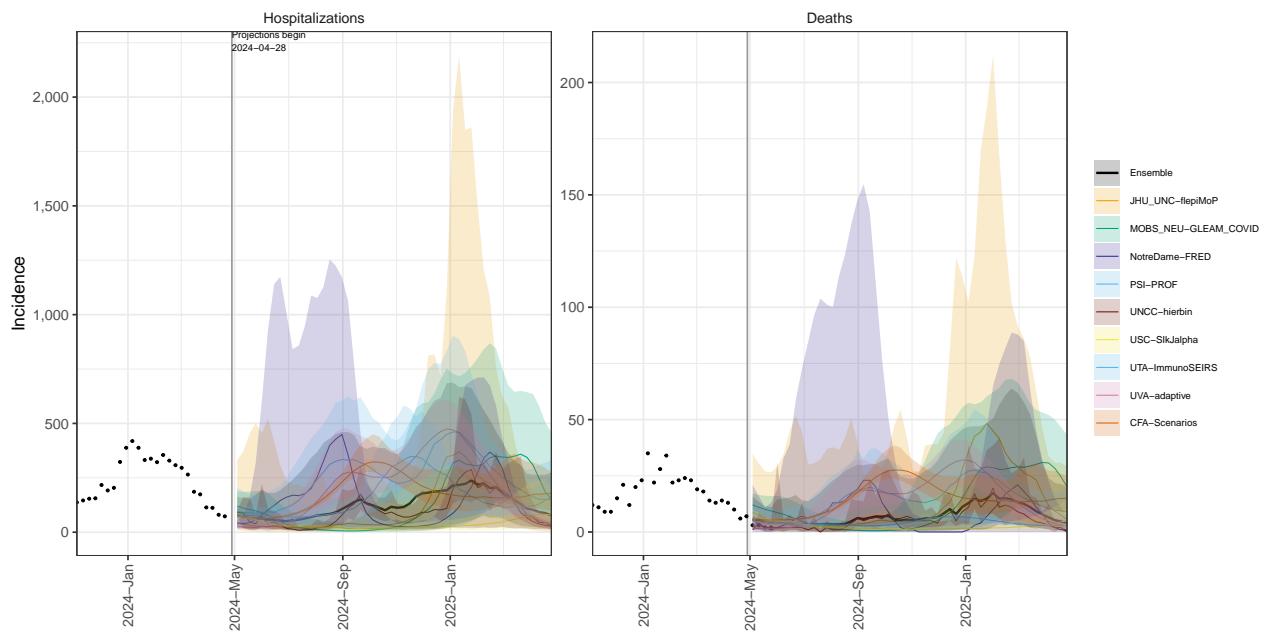
KS model variance & 95% projection intervals – No booster, Low immune escape



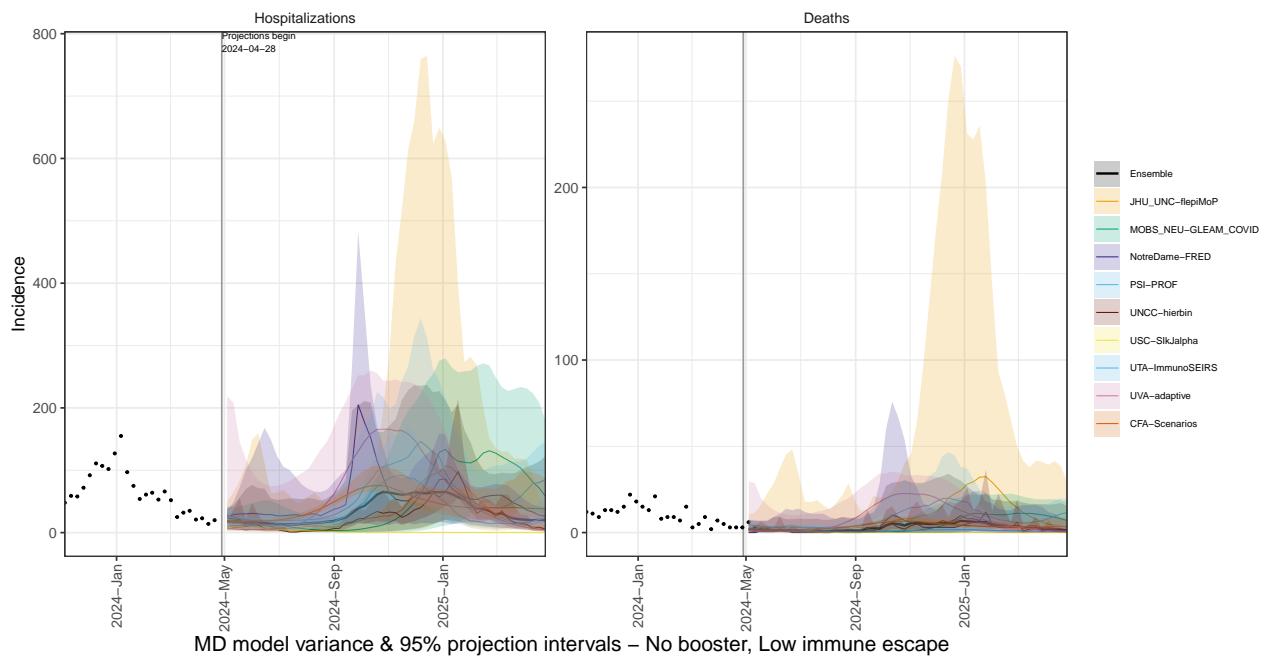
KY model variance & 95% projection intervals – No booster, Low immune escape



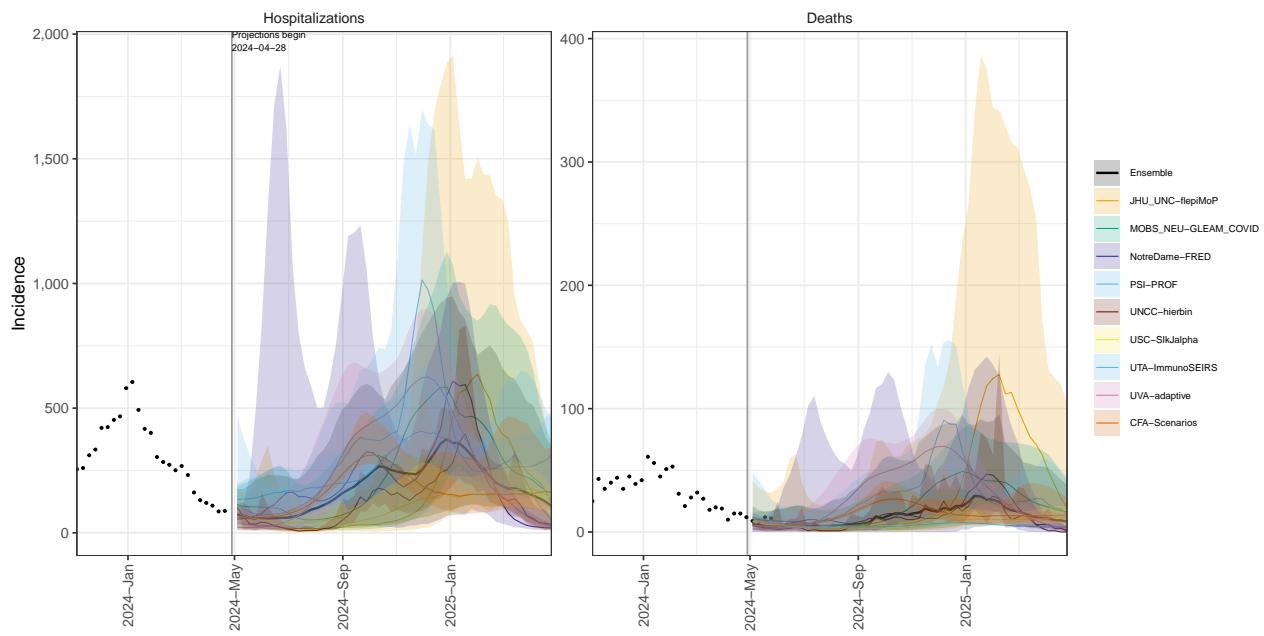
LA model variance & 95% projection intervals – No booster, Low immune escape



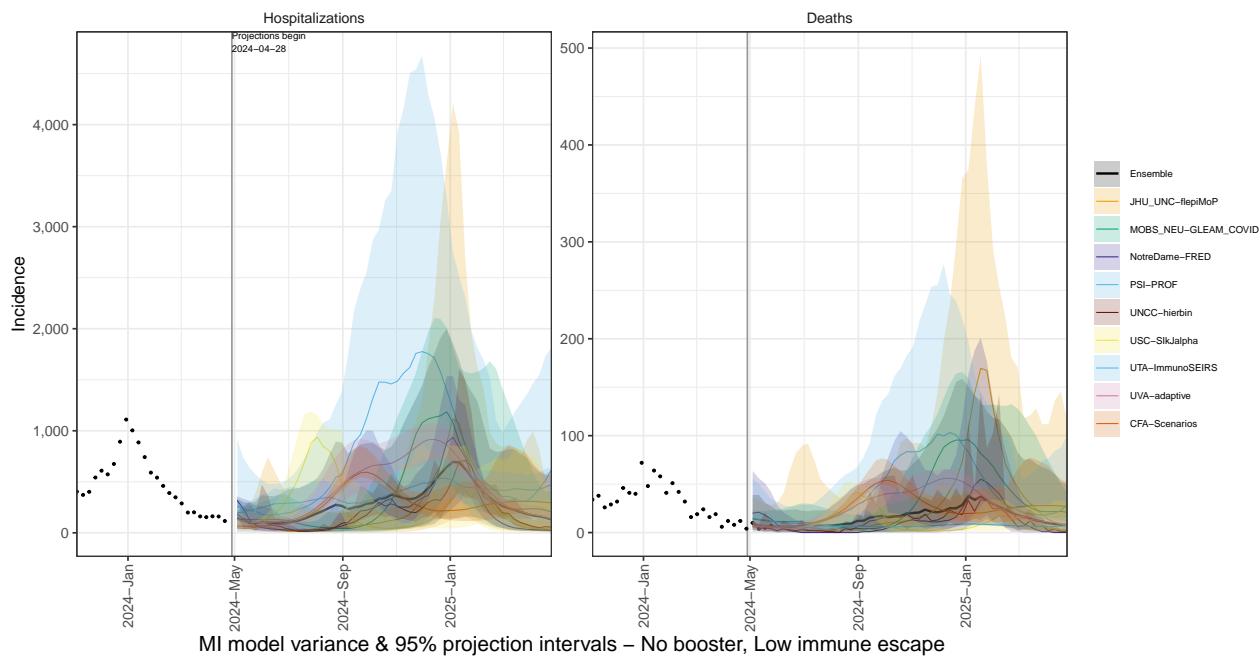
ME model variance & 95% projection intervals – No booster, Low immune escape



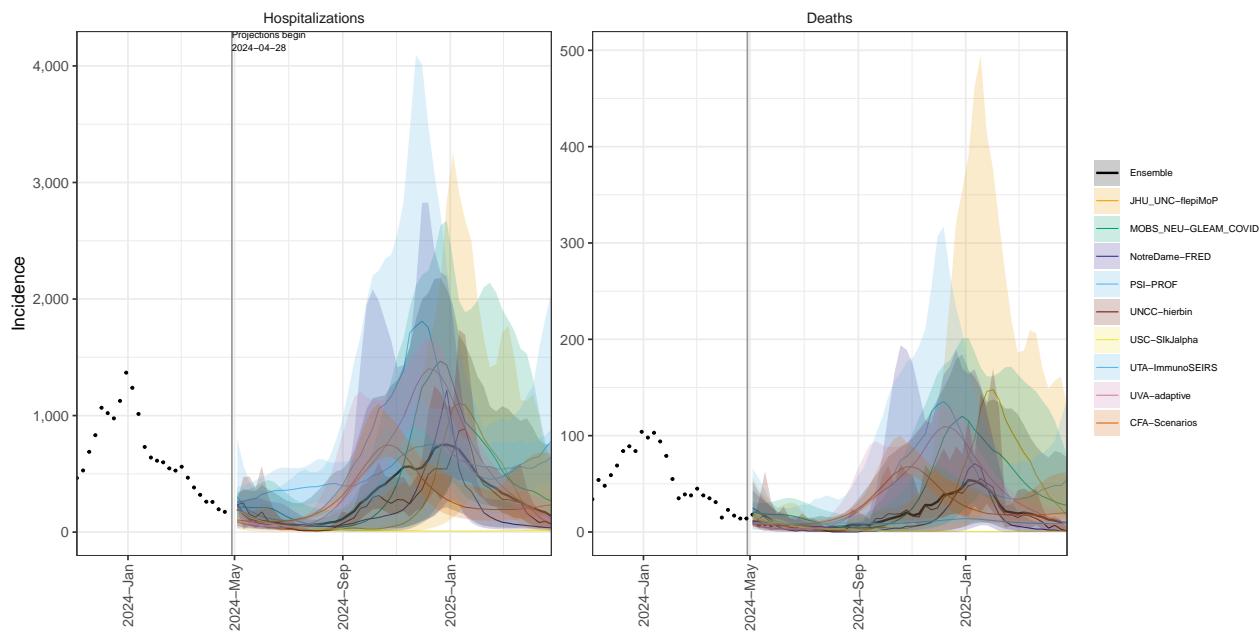
MD model variance & 95% projection intervals – No booster, Low immune escape



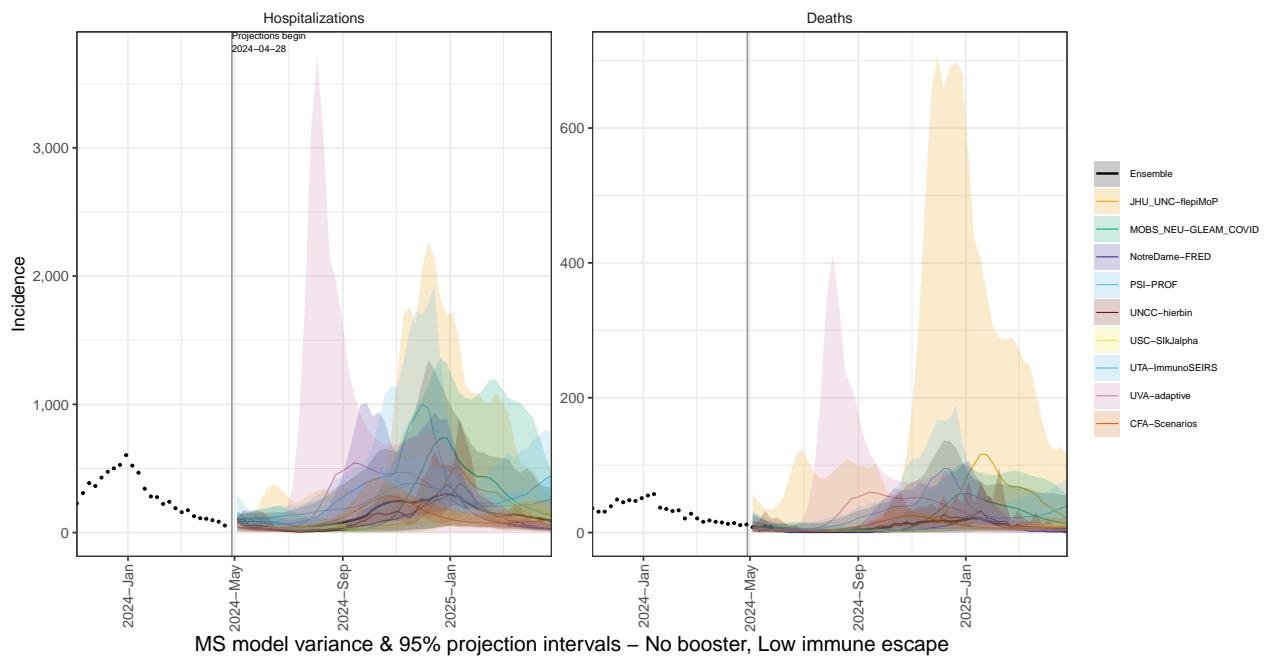
MA model variance & 95% projection intervals – No booster, Low immune escape



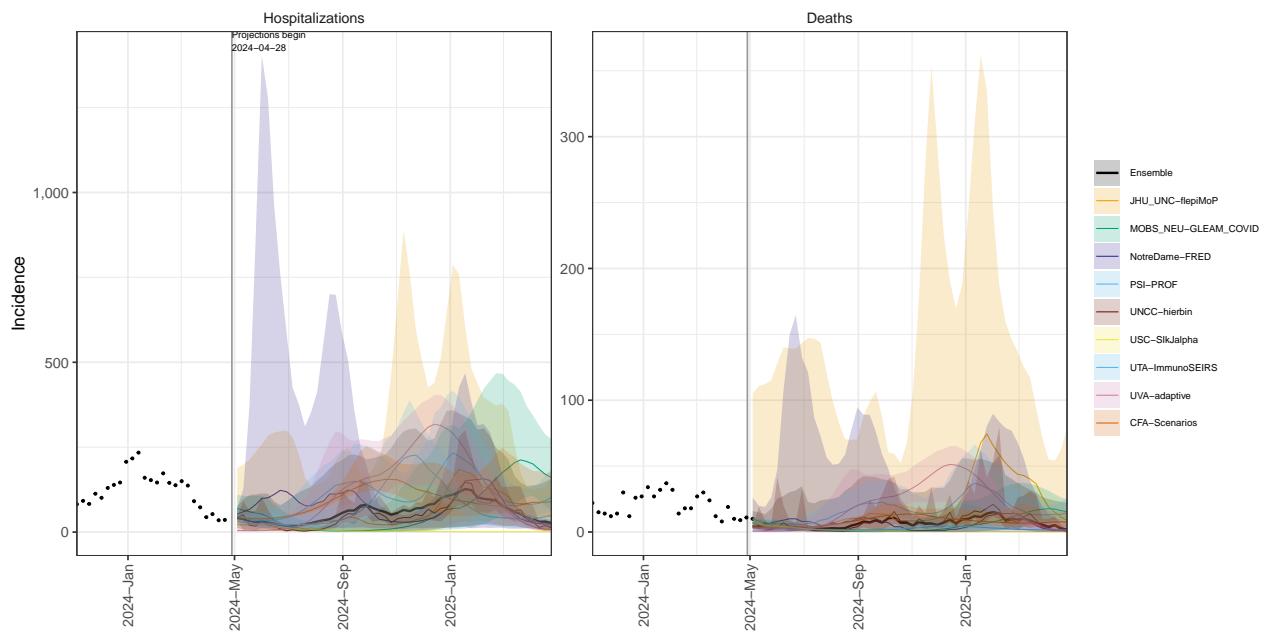
MI model variance & 95% projection intervals – No booster, Low immune escape



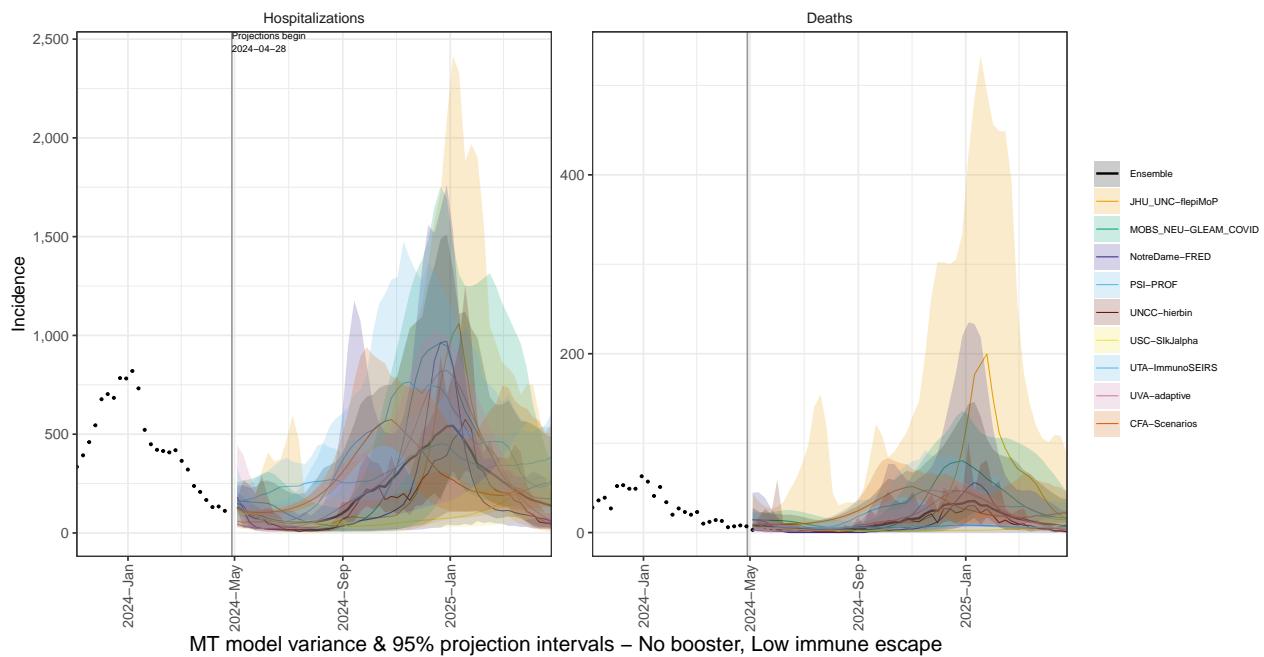
MN model variance & 95% projection intervals – No booster, Low immune escape



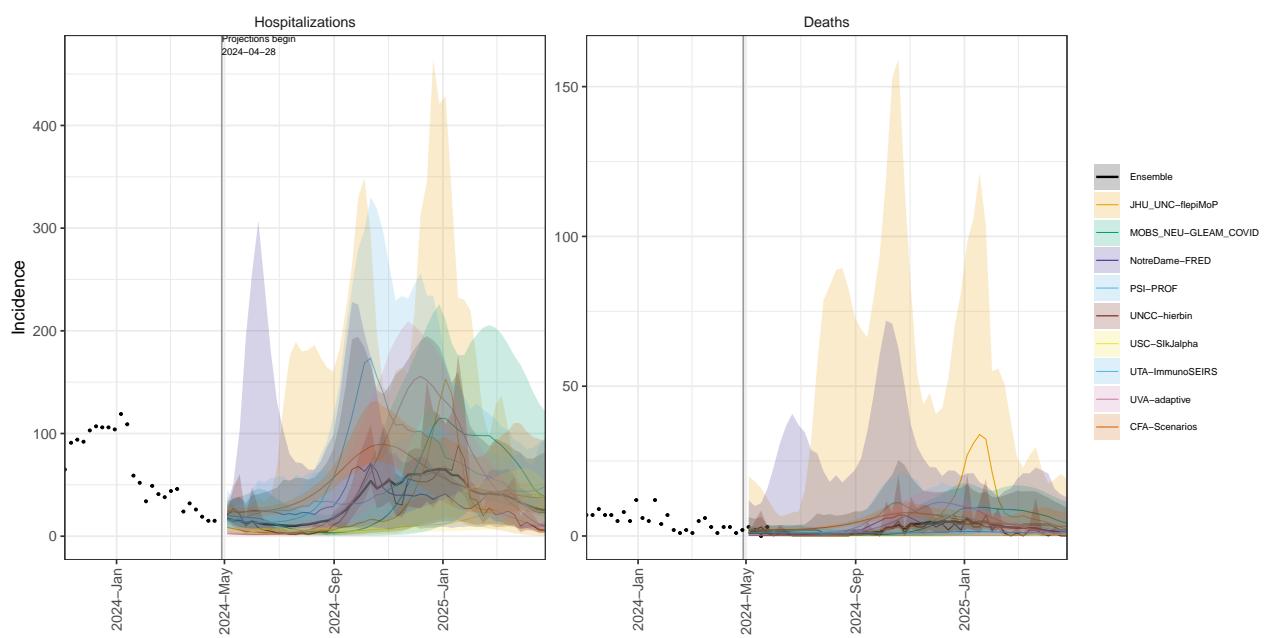
MS model variance & 95% projection intervals – No booster, Low immune escape



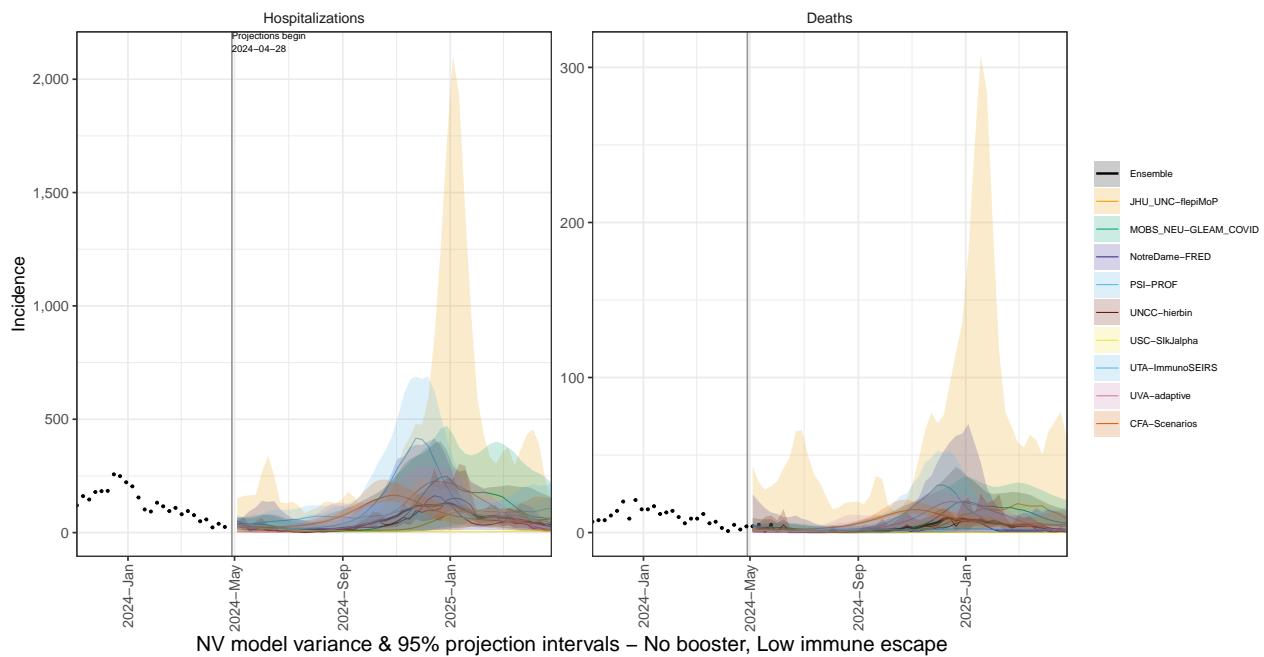
MO model variance & 95% projection intervals – No booster, Low immune escape



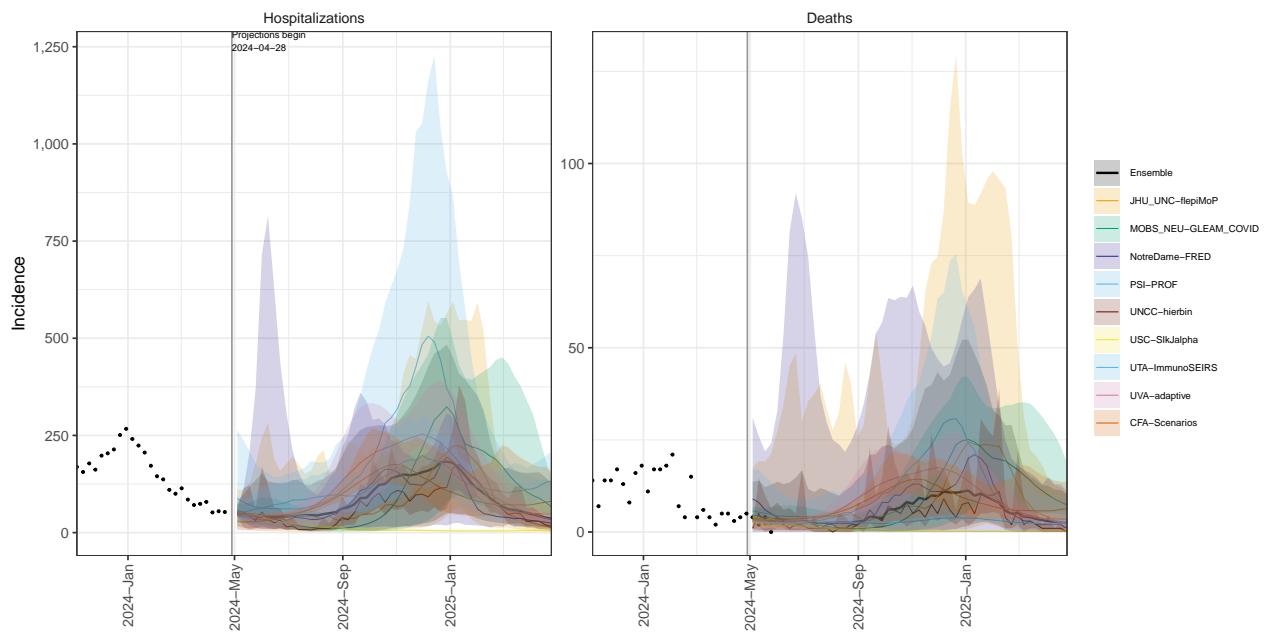
MT model variance & 95% projection intervals – No booster, Low immune escape



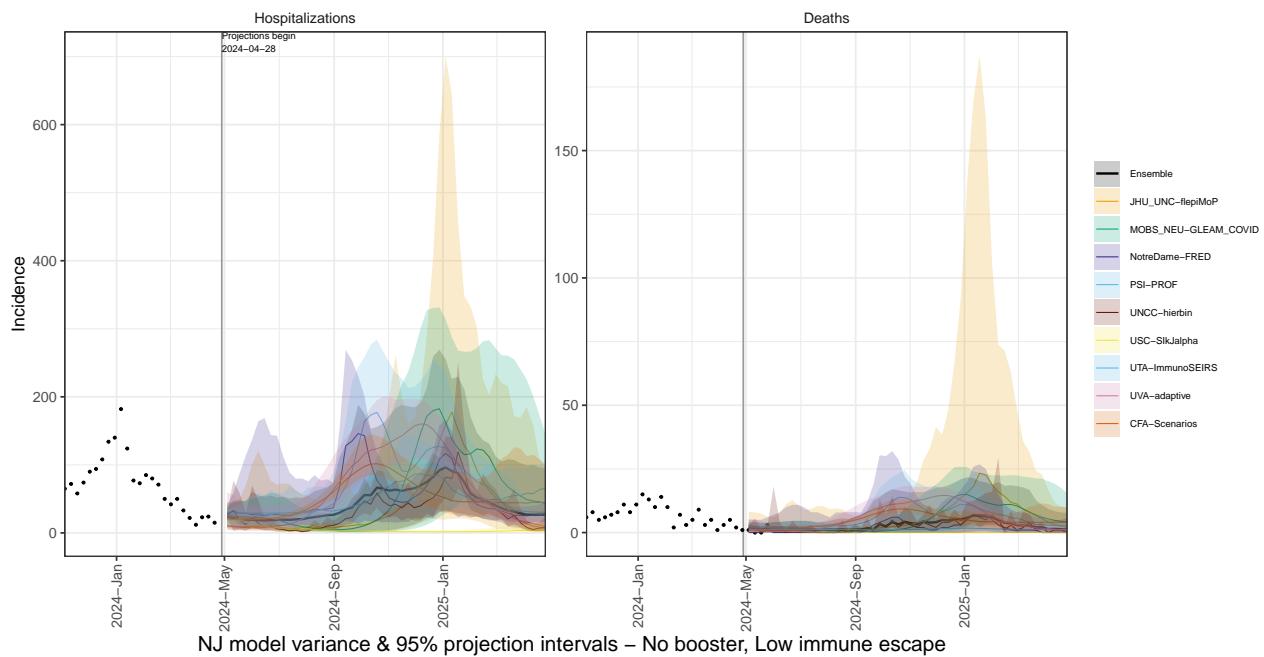
NE model variance & 95% projection intervals – No booster, Low immune escape



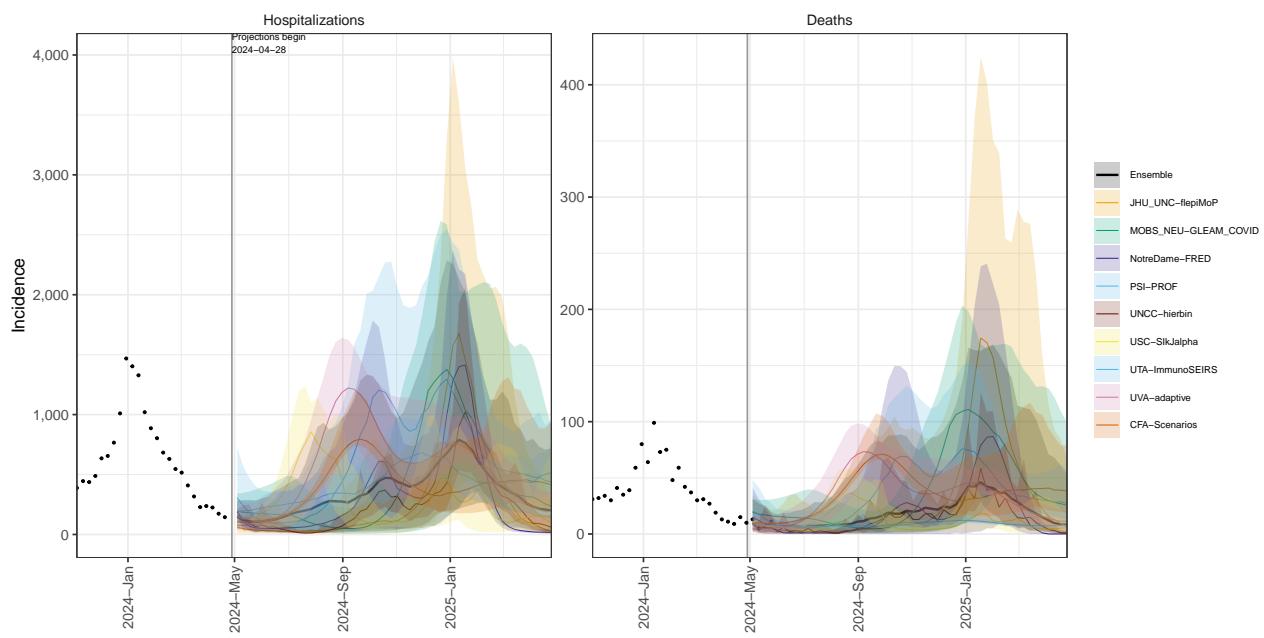
NV model variance & 95% projection intervals – No booster, Low immune escape



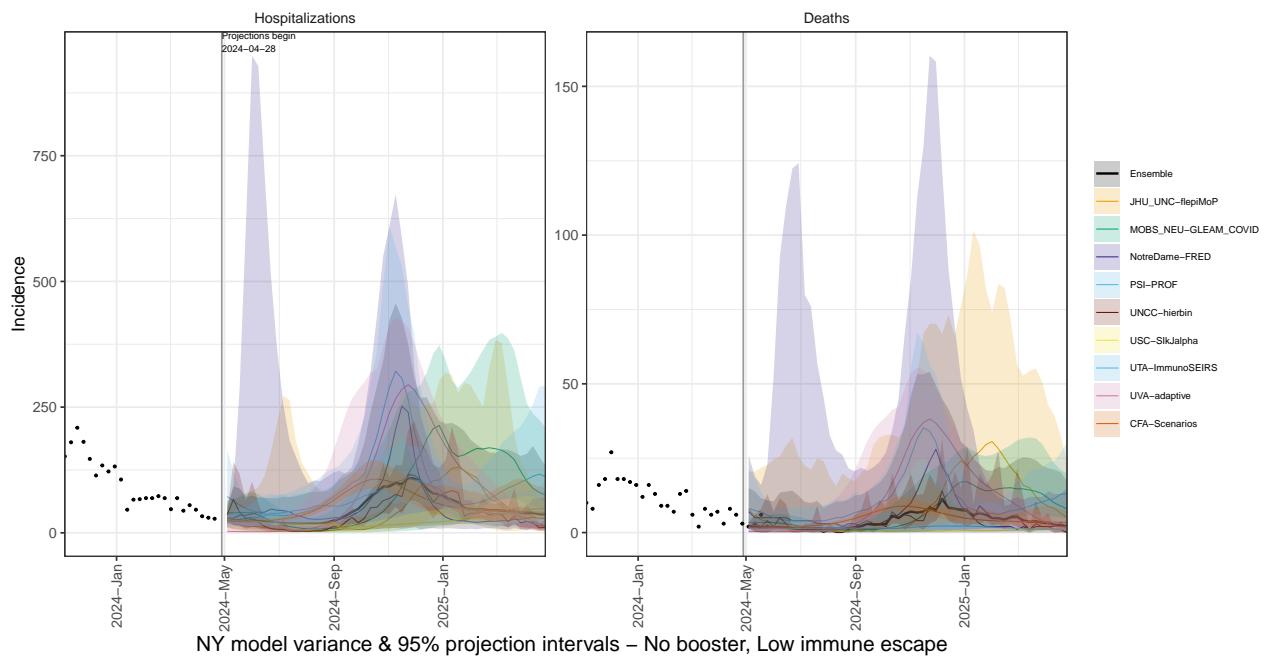
NH model variance & 95% projection intervals – No booster, Low immune escape



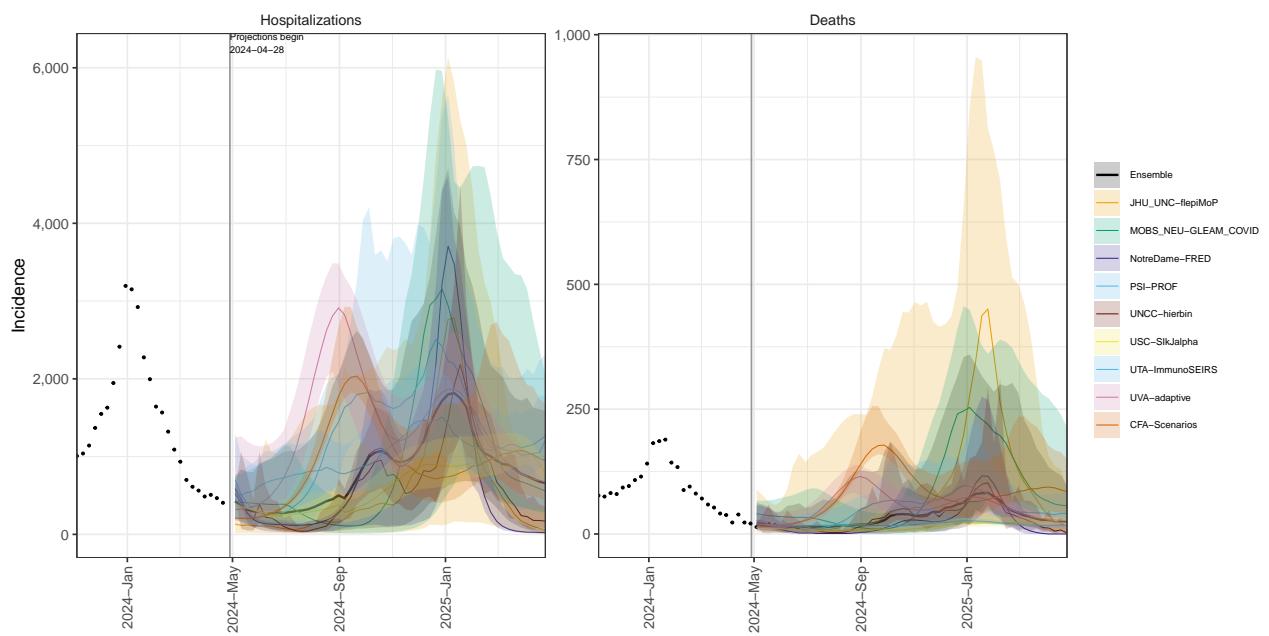
NJ model variance & 95% projection intervals – No booster, Low immune escape



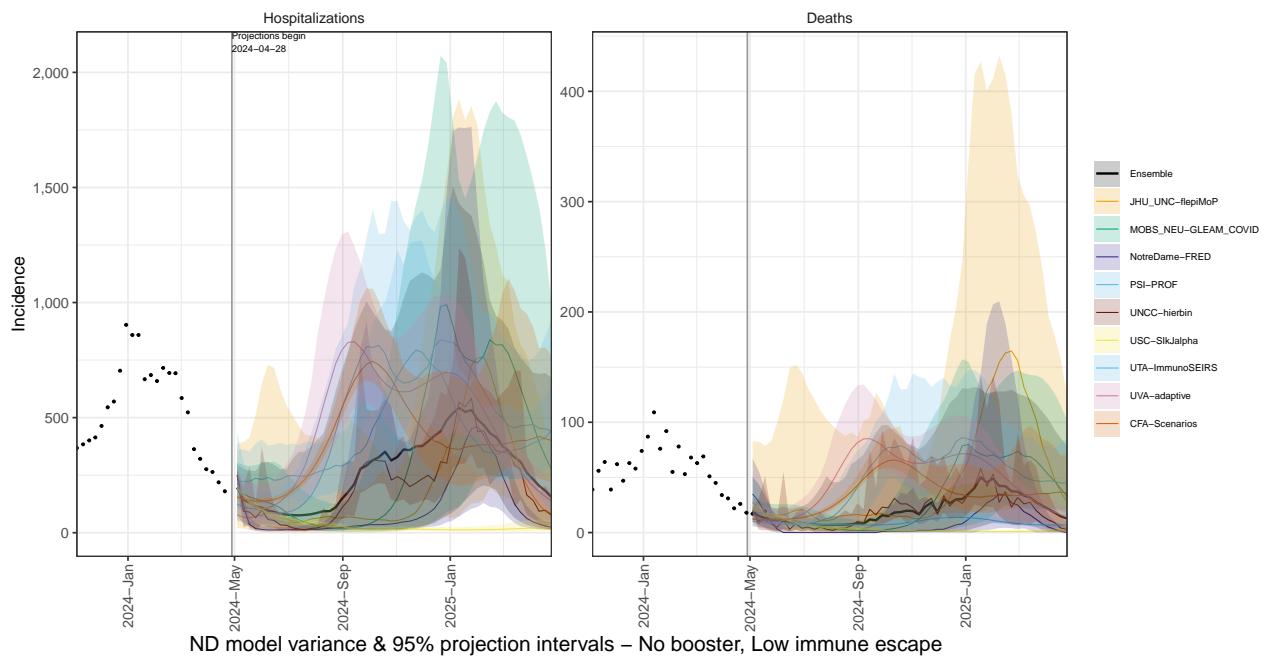
NM model variance & 95% projection intervals – No booster, Low immune escape



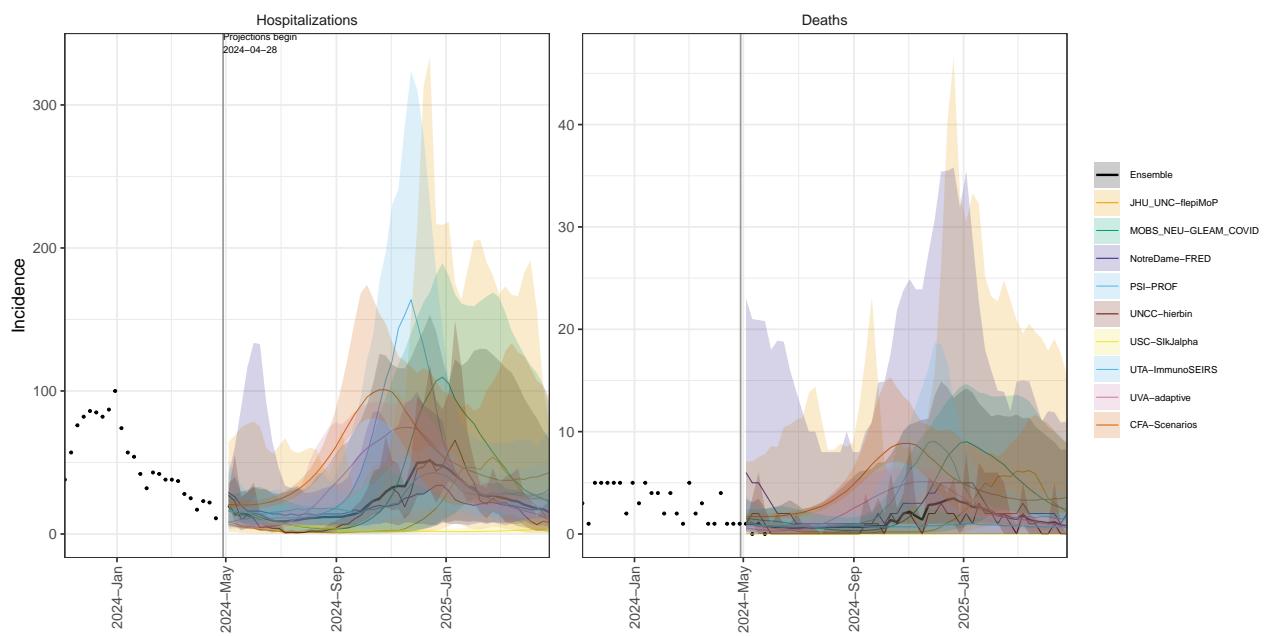
NY model variance & 95% projection intervals – No booster, Low immune escape



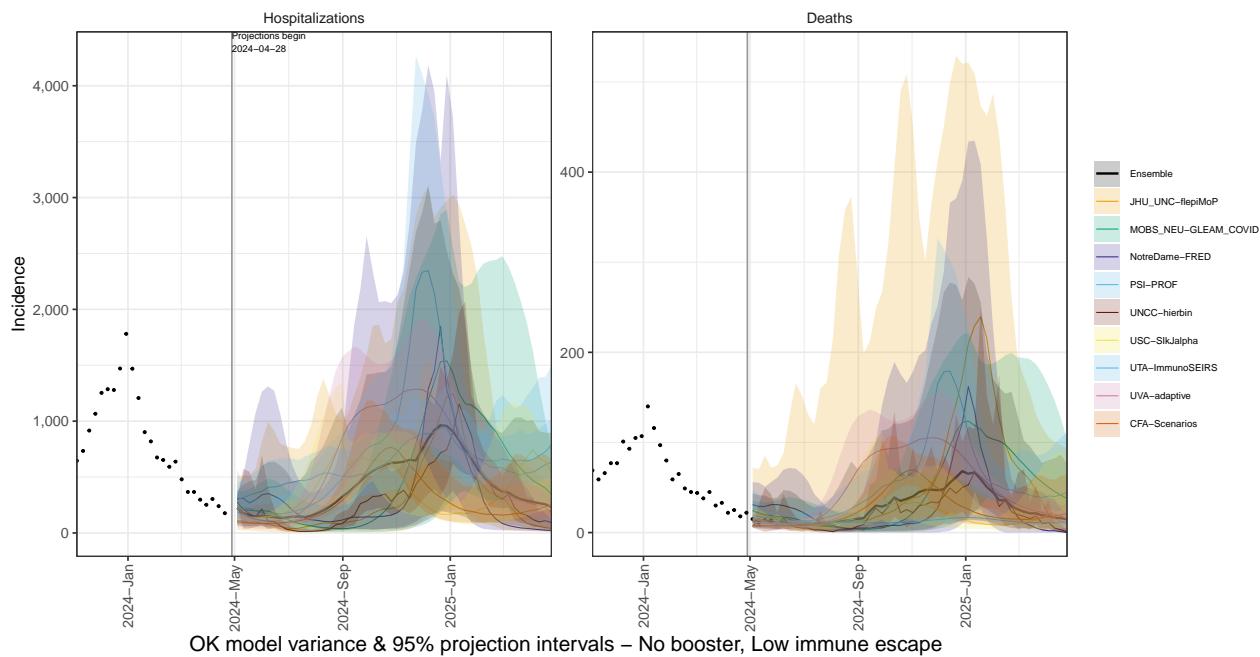
NC model variance & 95% projection intervals – No booster, Low immune escape



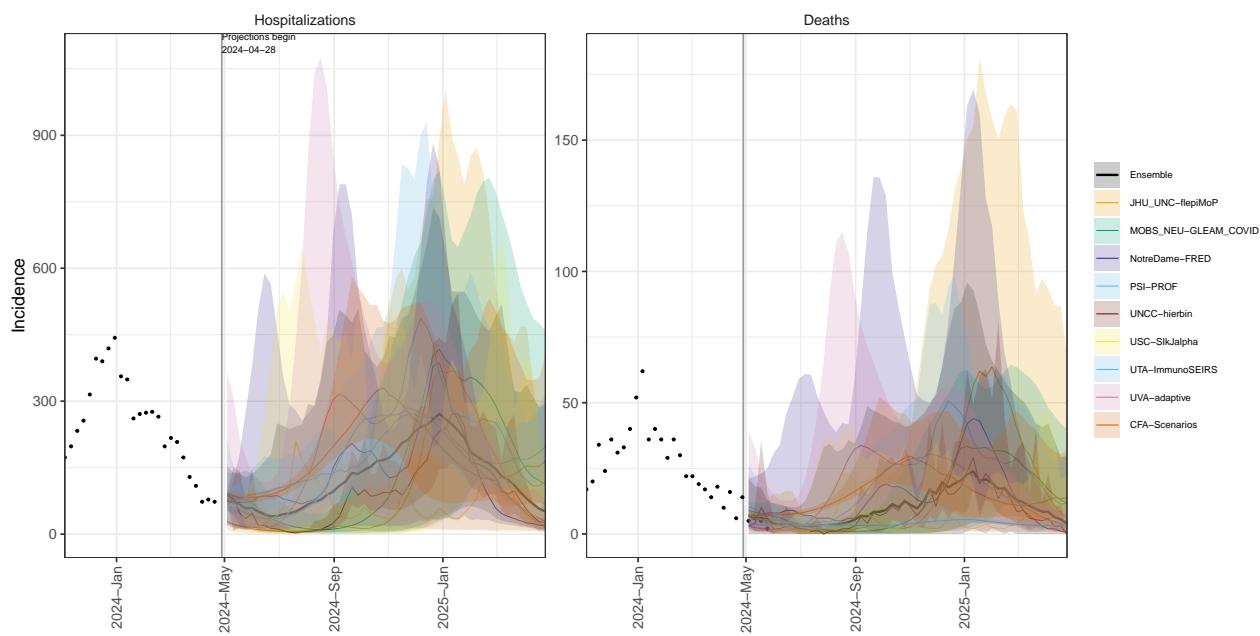
ND model variance & 95% projection intervals – No booster, Low immune escape



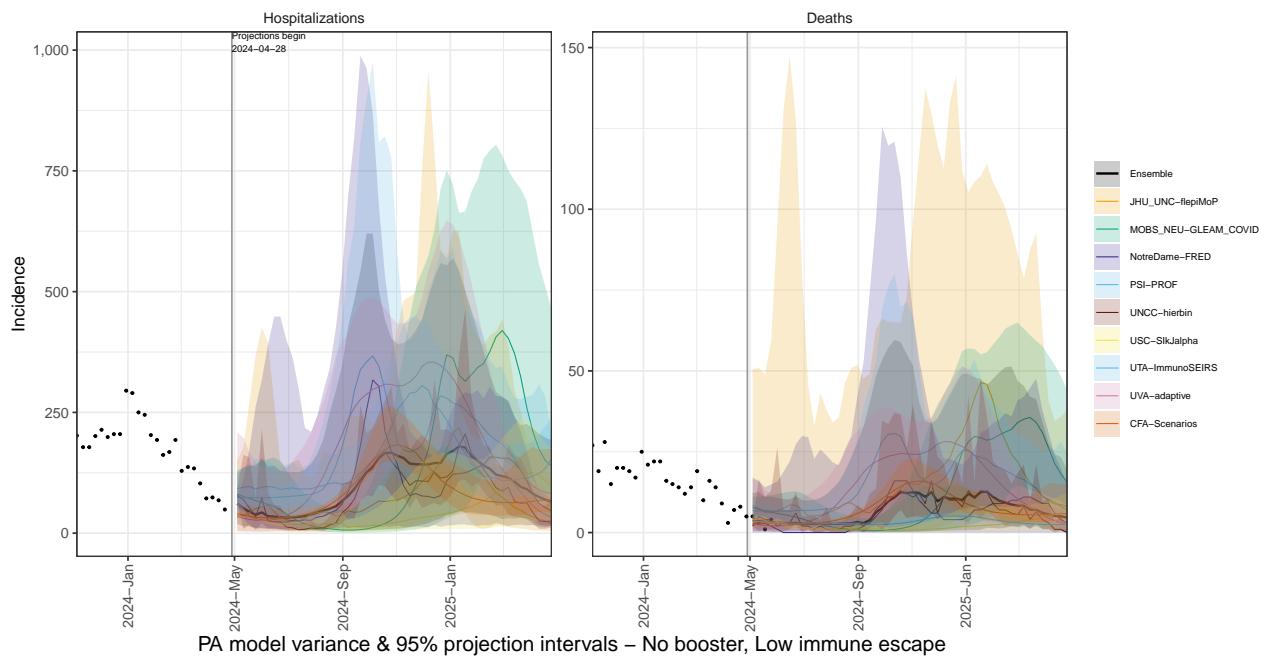
OH model variance & 95% projection intervals – No booster, Low immune escape



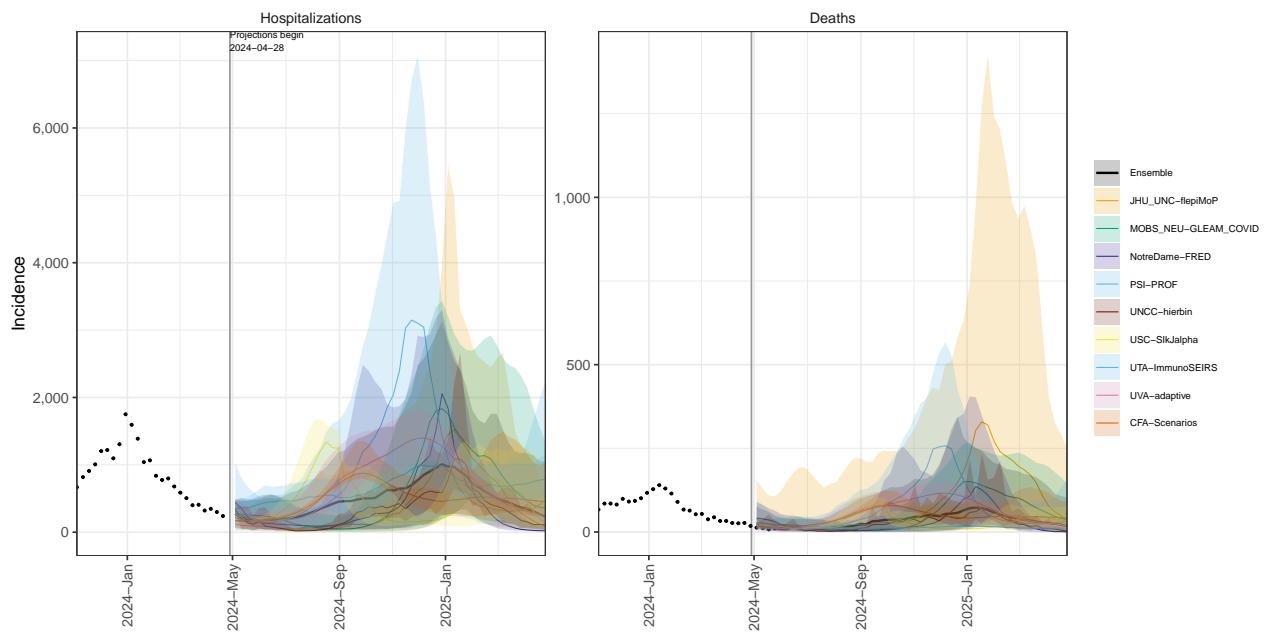
OK model variance & 95% projection intervals – No booster, Low immune escape



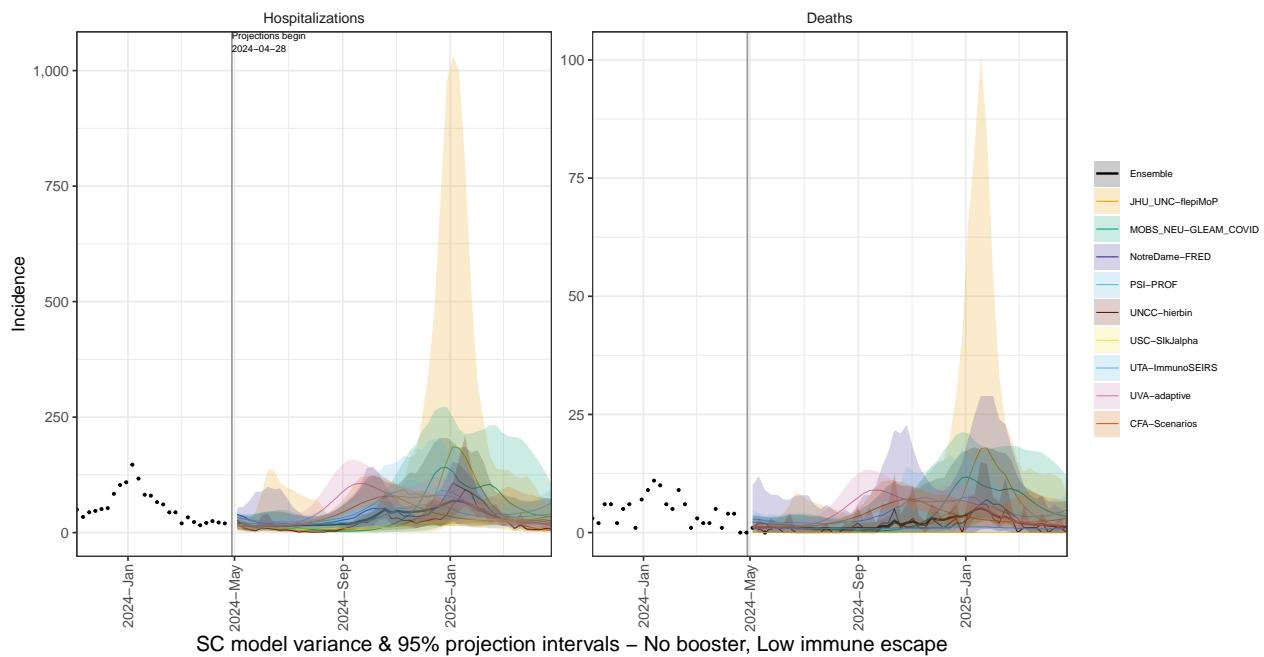
OR model variance & 95% projection intervals – No booster, Low immune escape



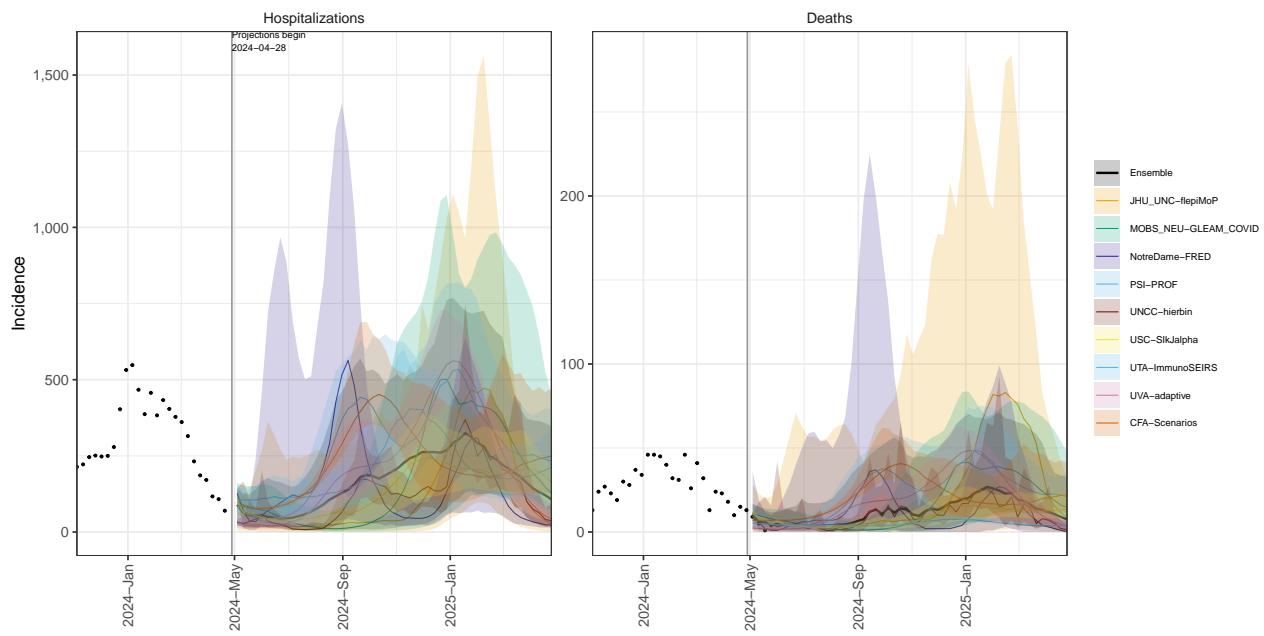
PA model variance & 95% projection intervals – No booster, Low immune escape



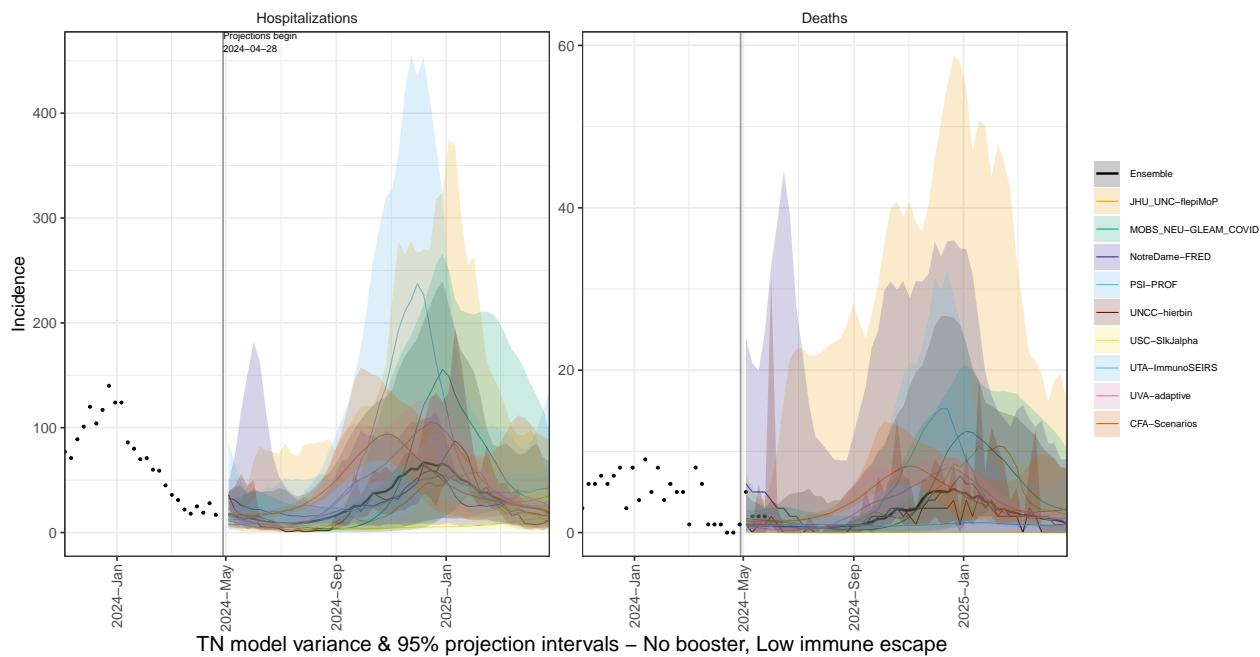
RI model variance & 95% projection intervals – No booster, Low immune escape



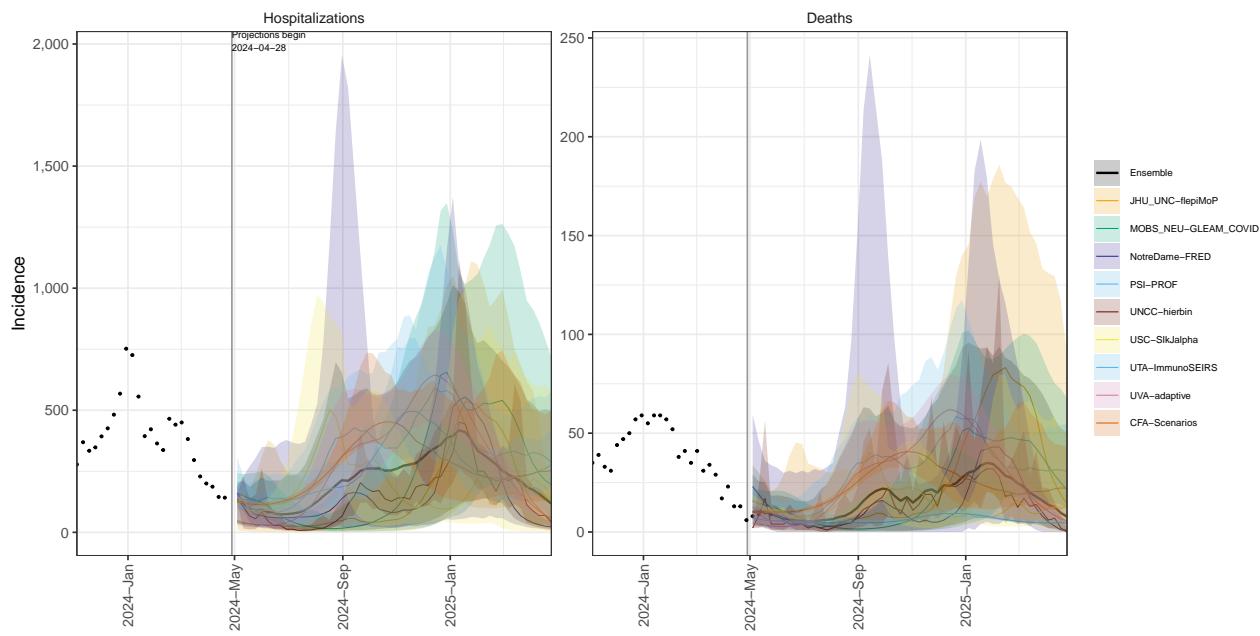
SC model variance & 95% projection intervals – No booster, Low immune escape



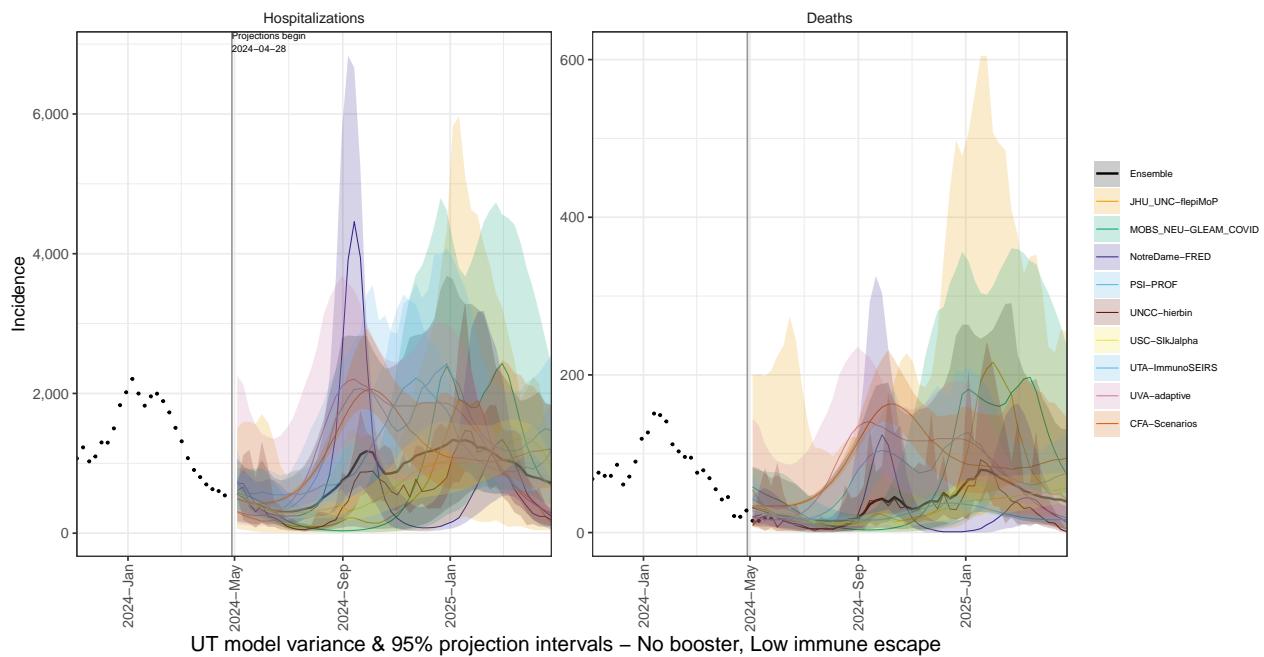
SD model variance & 95% projection intervals – No booster, Low immune escape



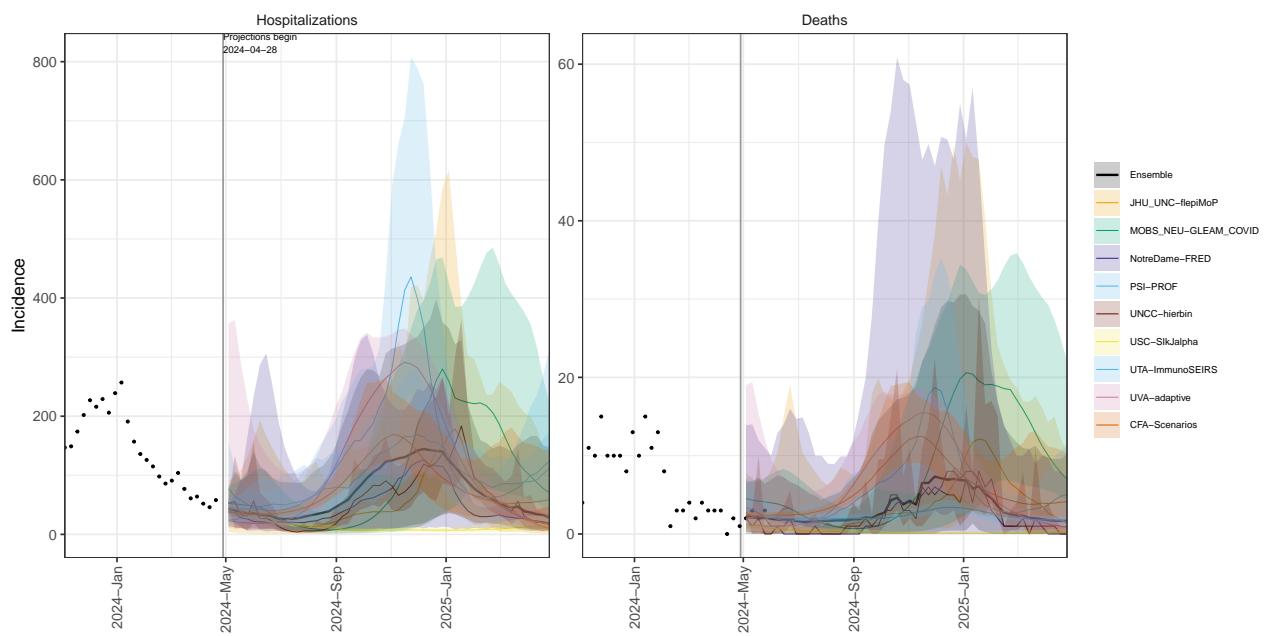
TN model variance & 95% projection intervals – No booster, Low immune escape



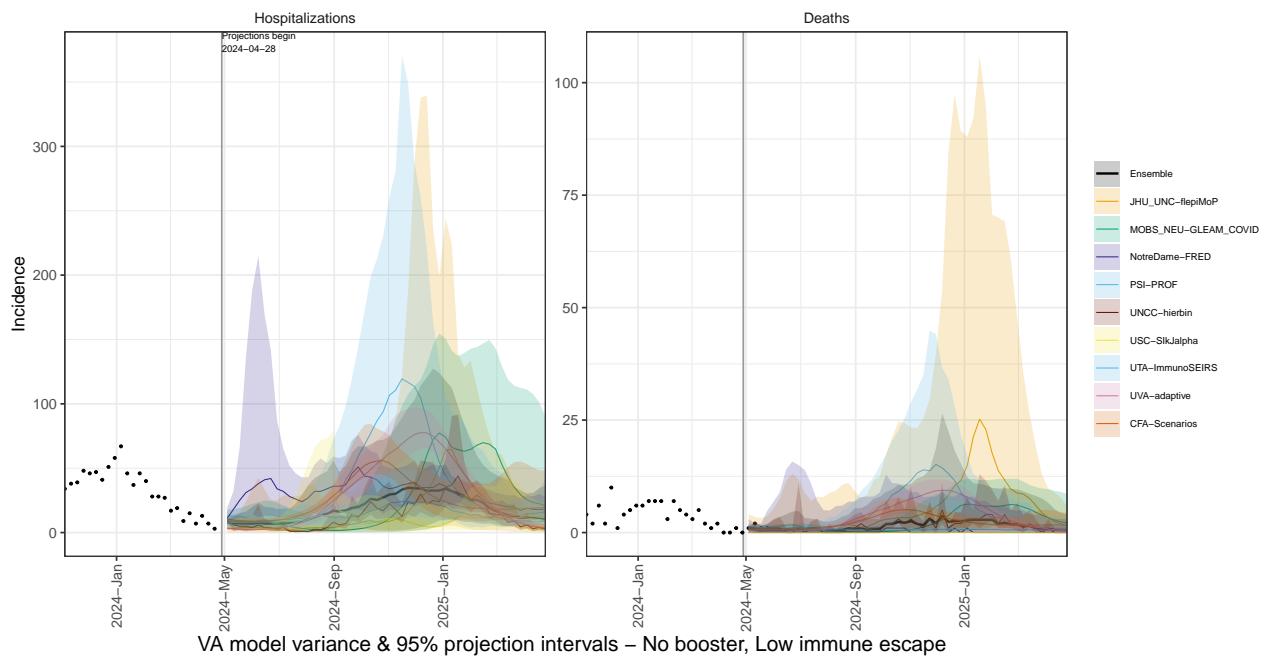
TX model variance & 95% projection intervals – No booster, Low immune escape



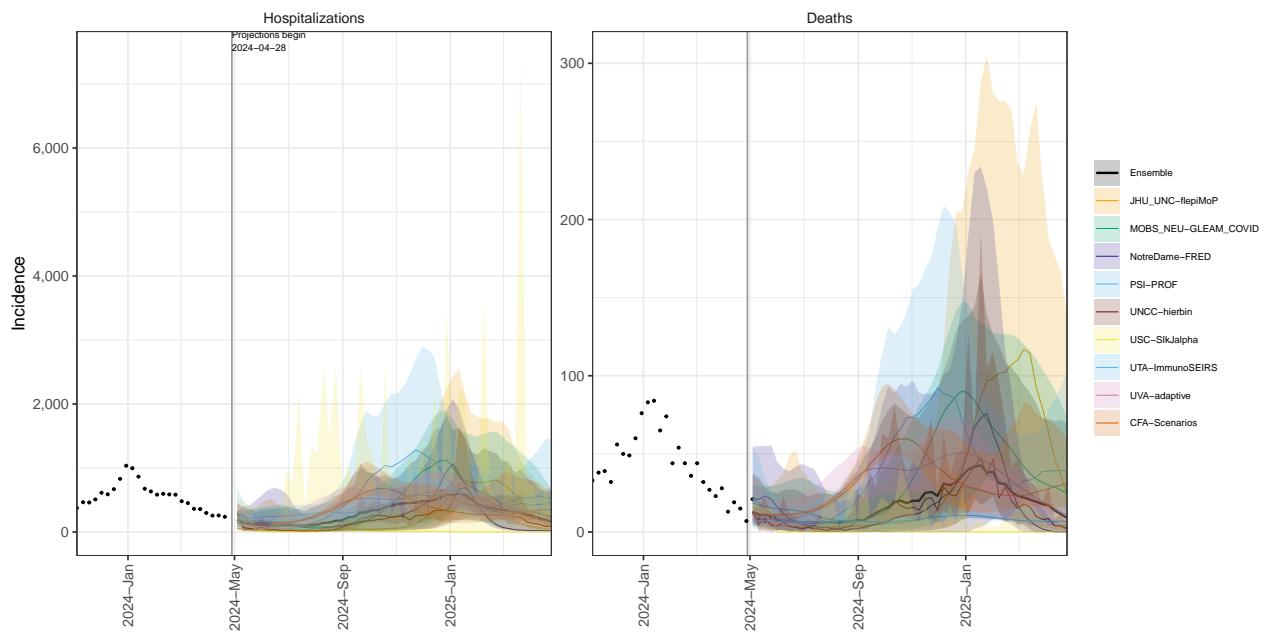
UT model variance & 95% projection intervals – No booster, Low immune escape



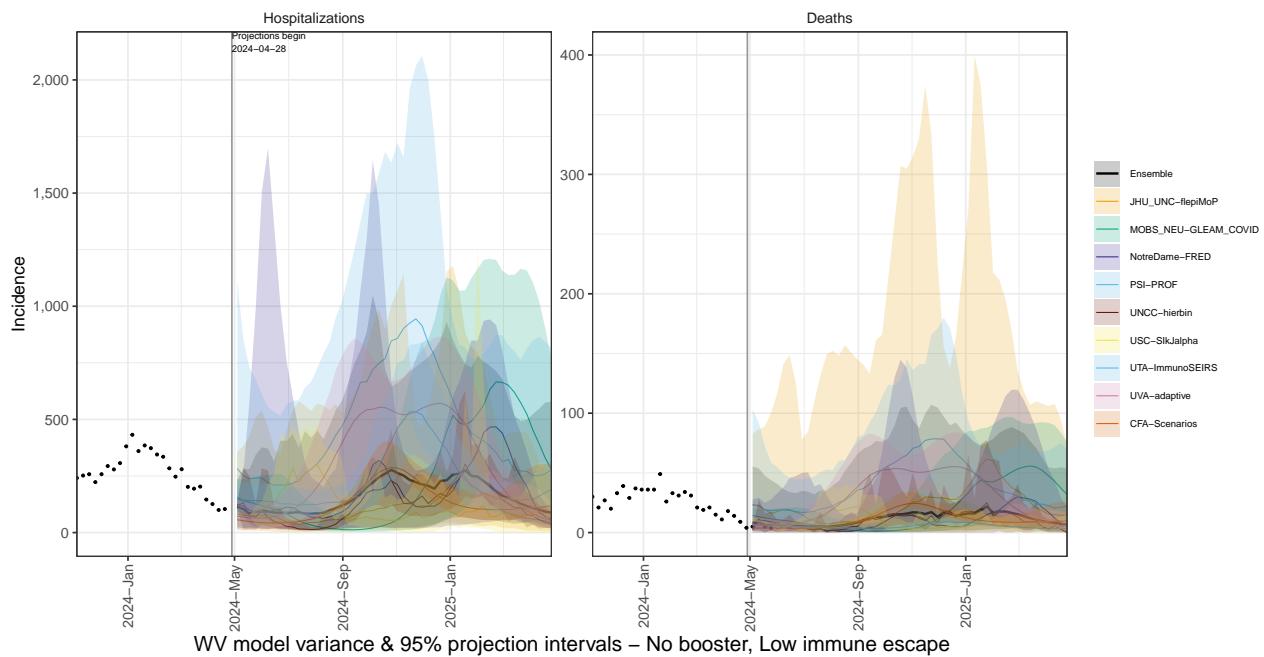
VT model variance & 95% projection intervals – No booster, Low immune escape



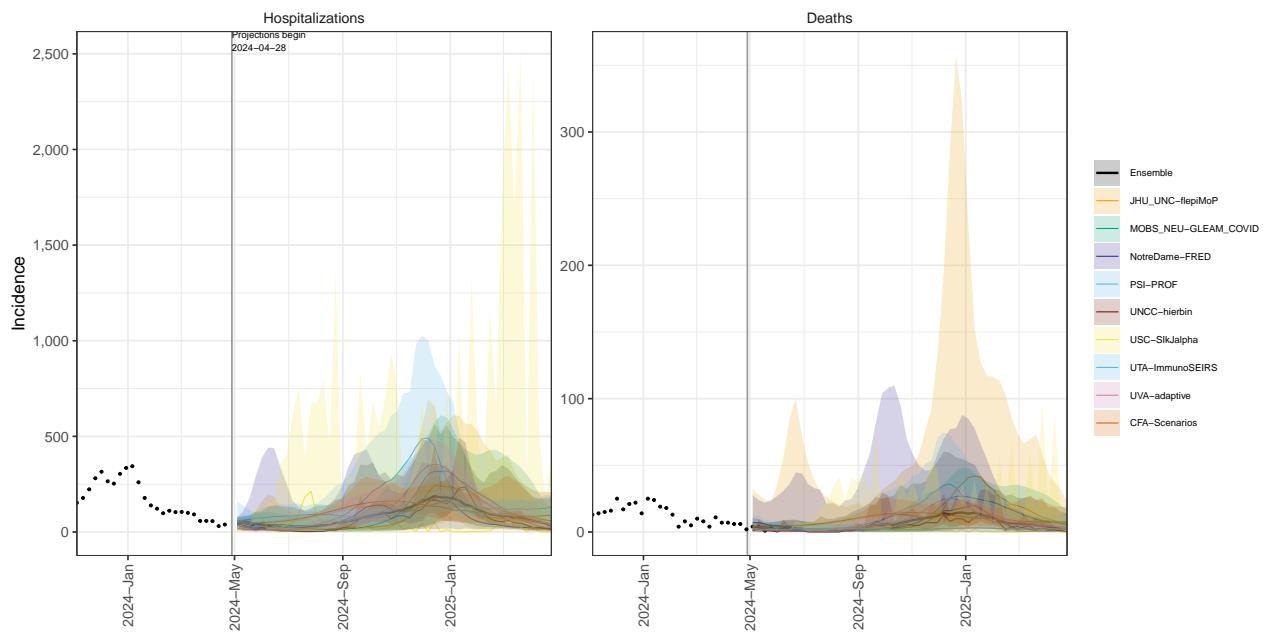
VA model variance & 95% projection intervals – No booster, Low immune escape



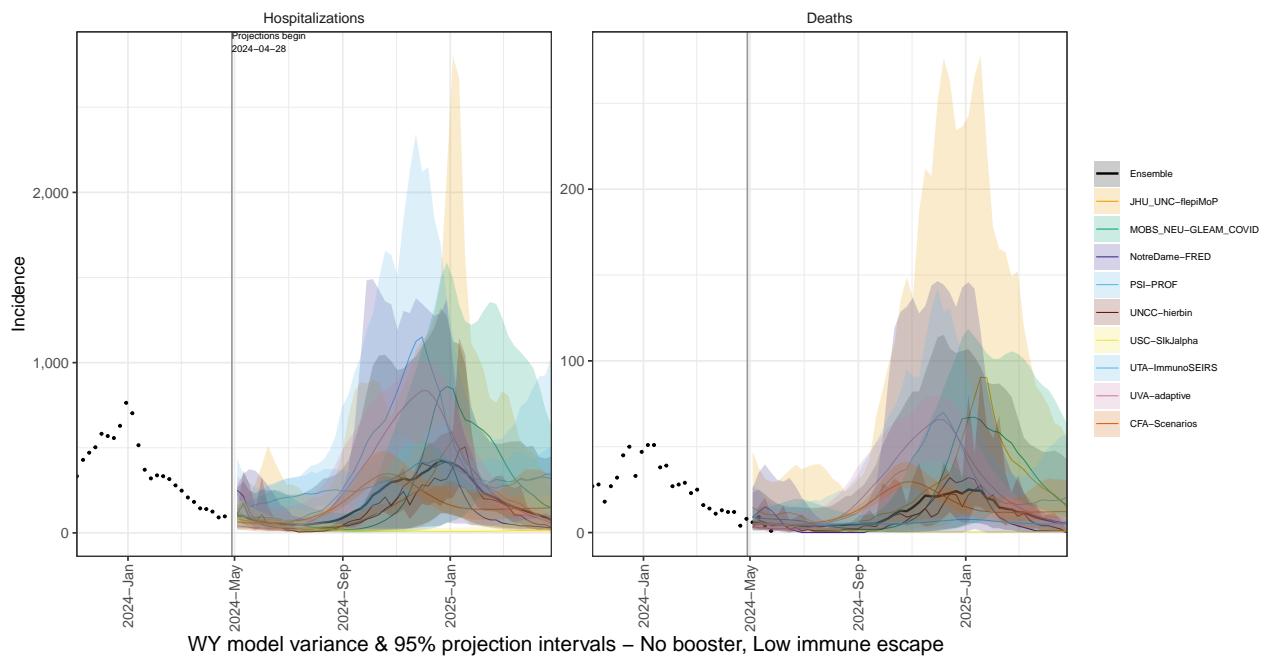
WA model variance & 95% projection intervals – No booster, Low immune escape



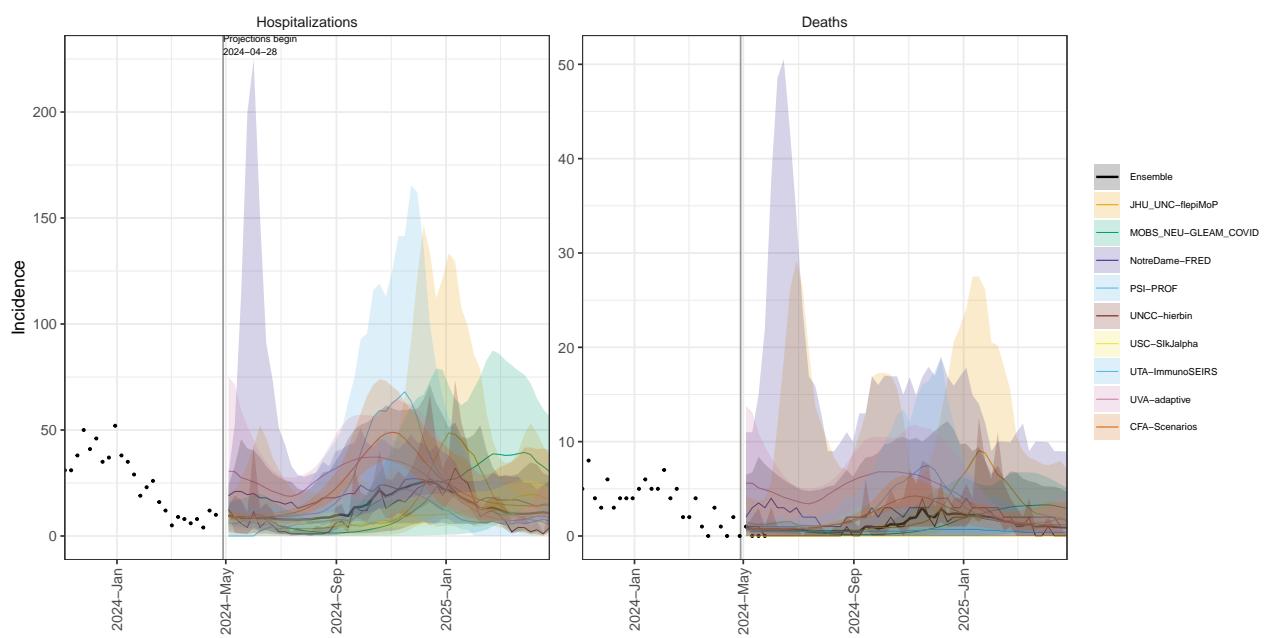
WV model variance & 95% projection intervals – No booster, Low immune escape



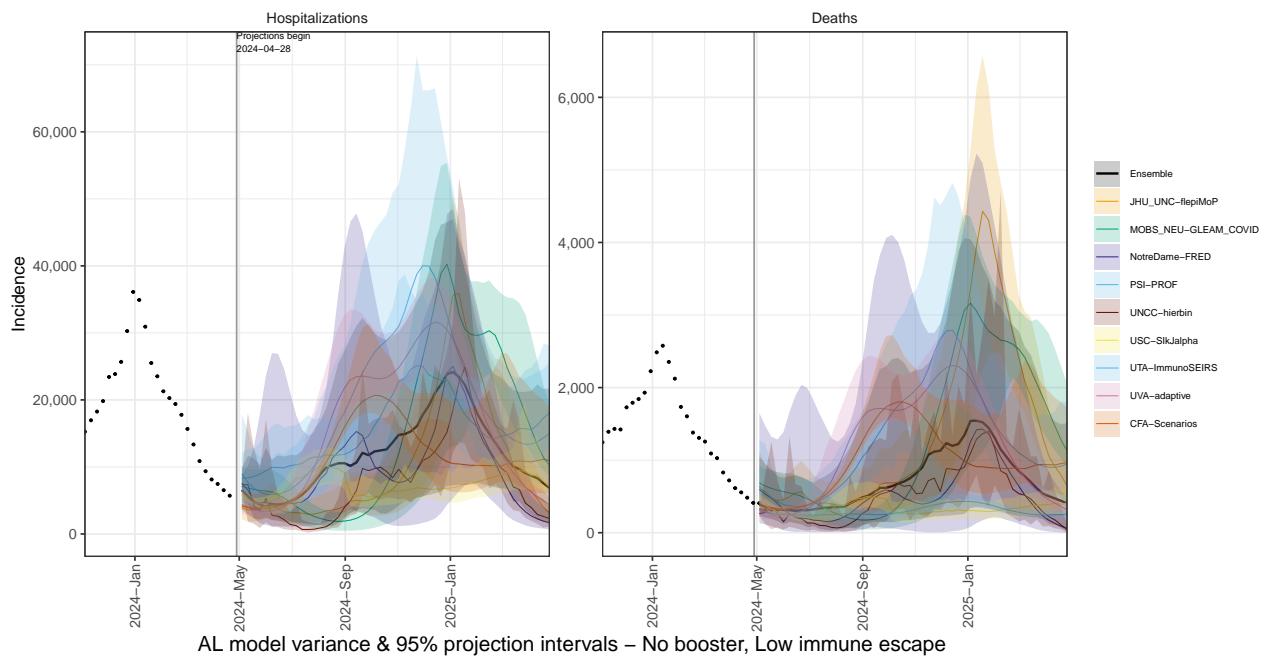
WI model variance & 95% projection intervals – No booster, Low immune escape



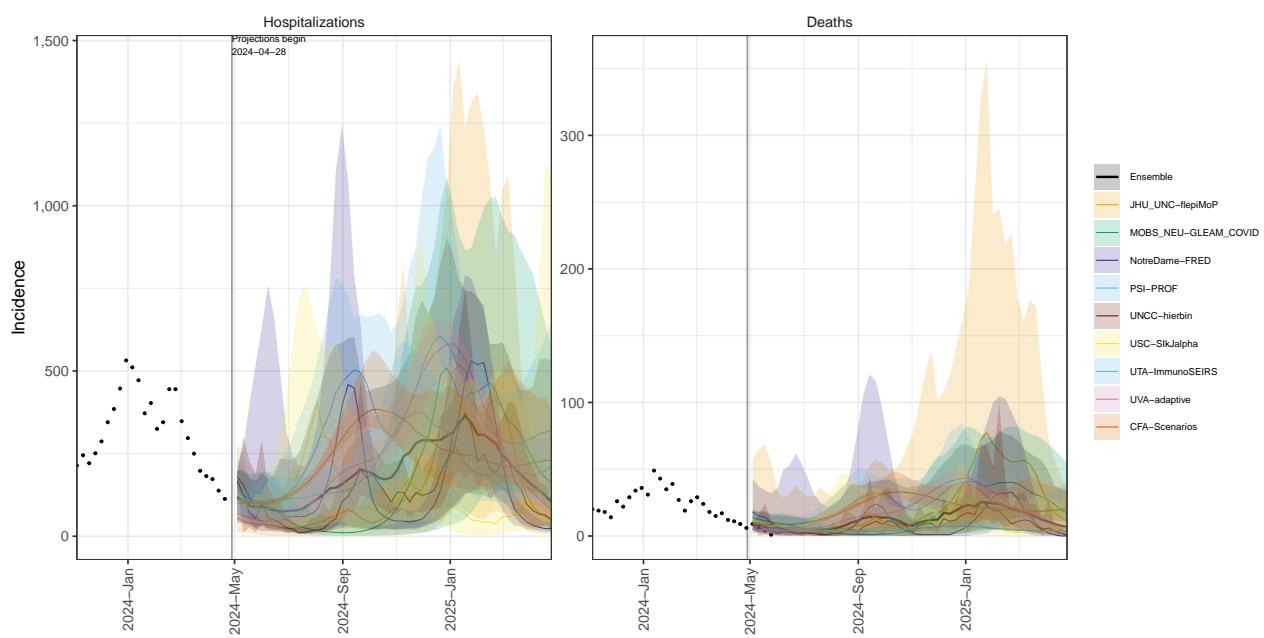
WY model variance & 95% projection intervals – No booster, Low immune escape



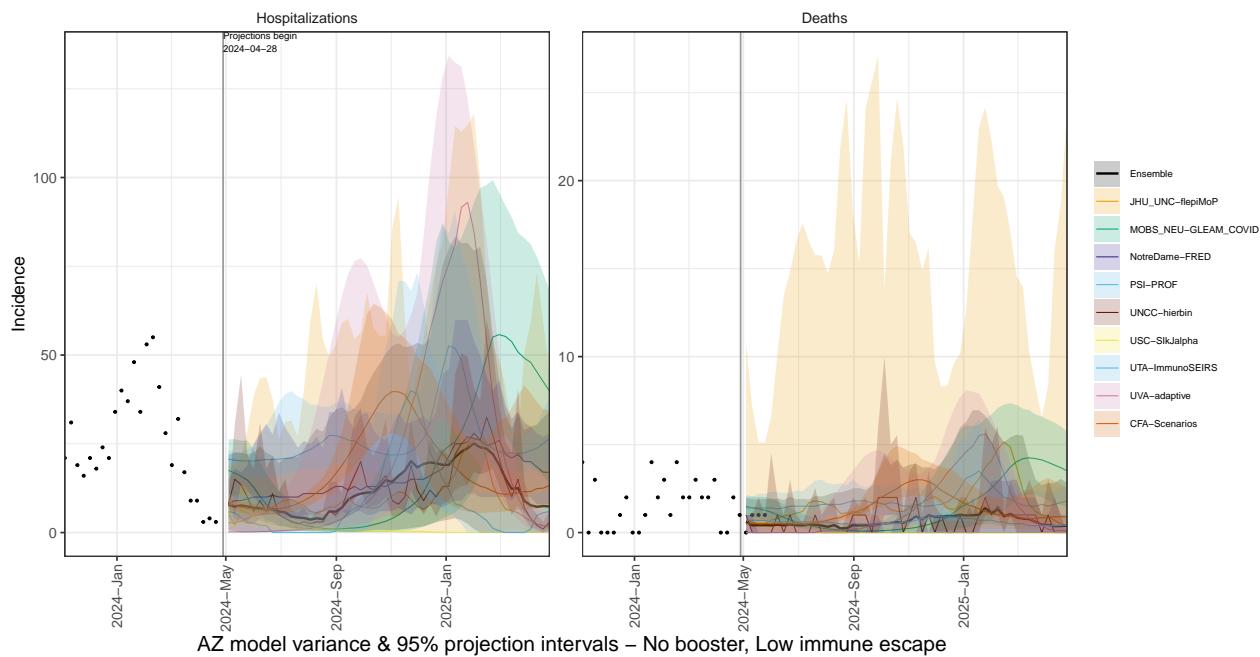
US model variance & 95% projection intervals – No booster, Low immune escape



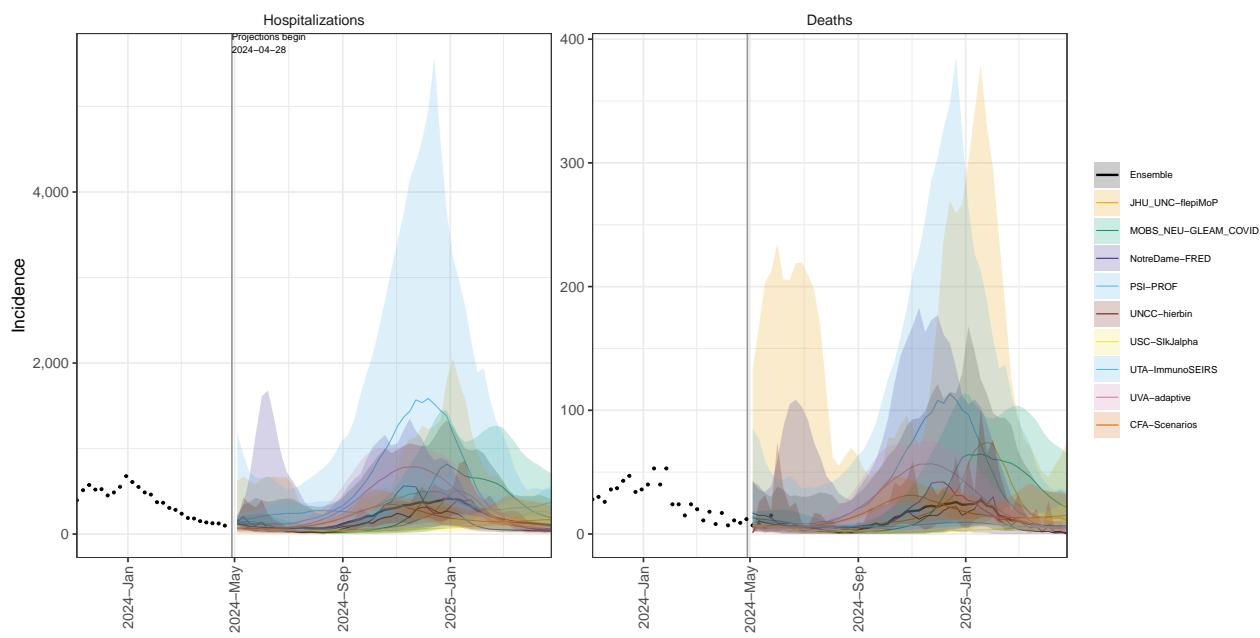
AL model variance & 95% projection intervals – No booster, Low immune escape



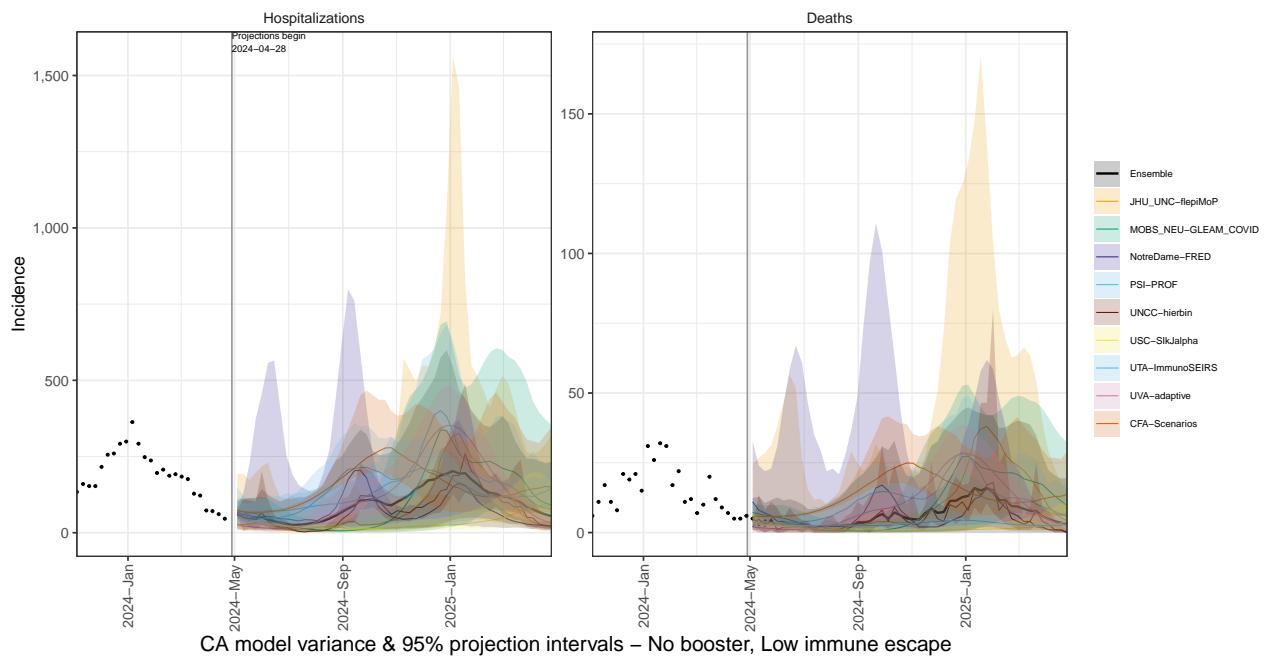
AK model variance & 95% projection intervals – No booster, Low immune escape



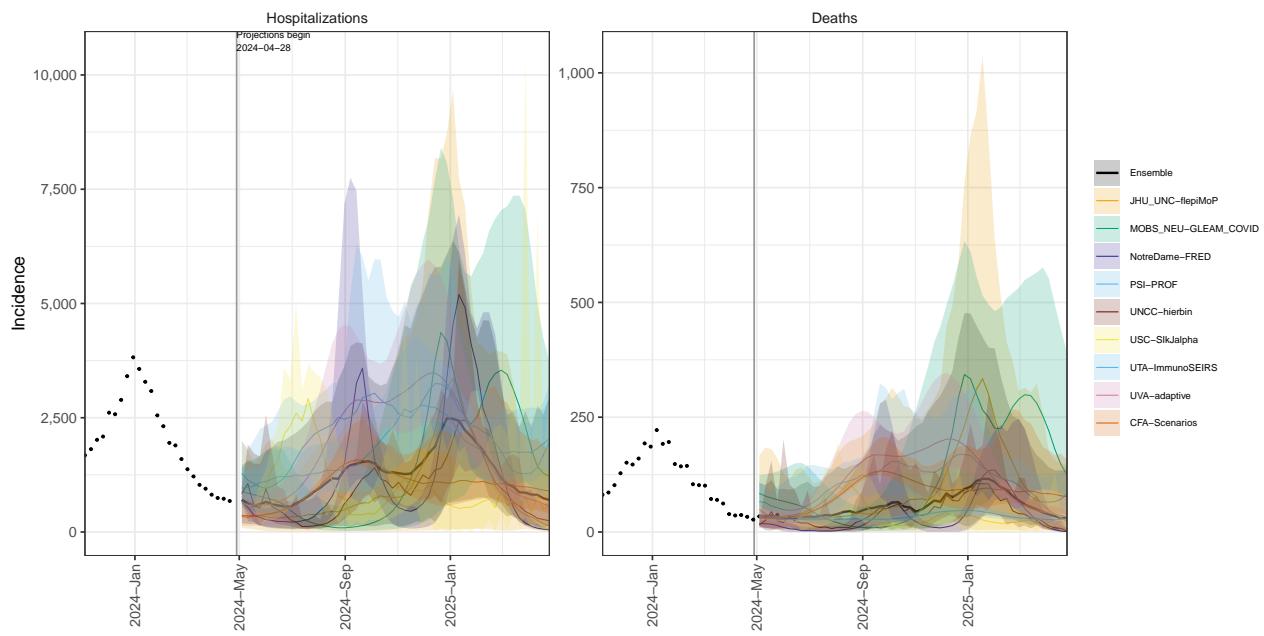
AZ model variance & 95% projection intervals – No booster, Low immune escape



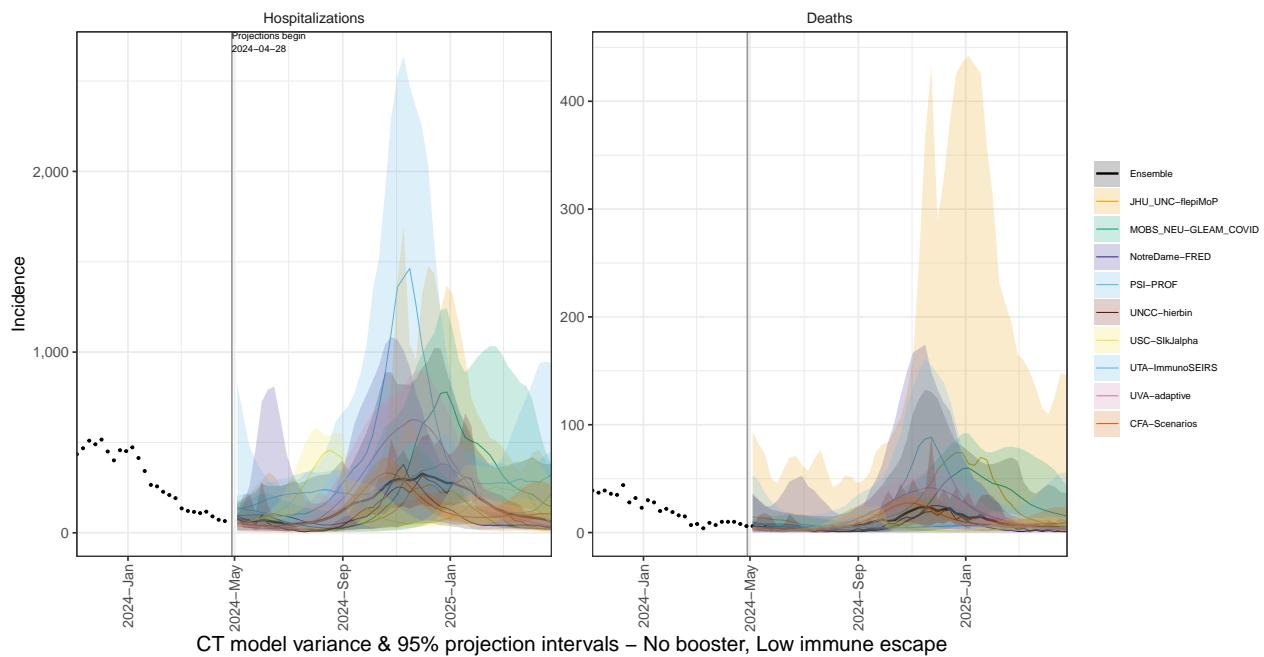
AR model variance & 95% projection intervals – No booster, Low immune escape



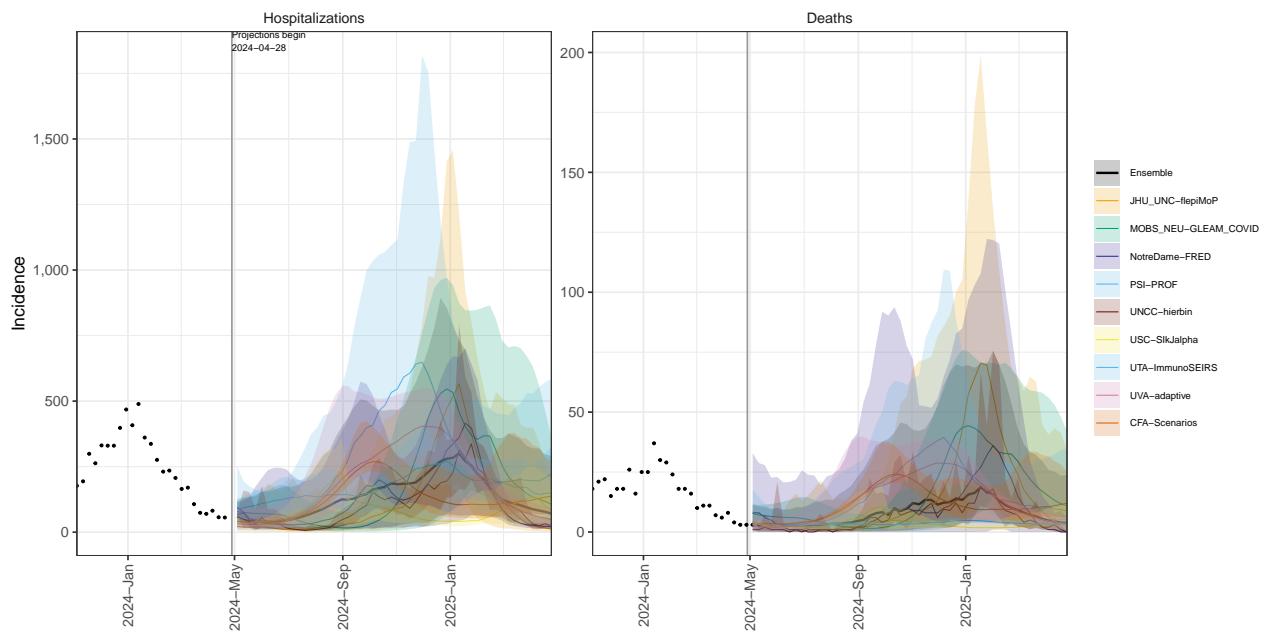
CA model variance & 95% projection intervals – No booster, Low immune escape



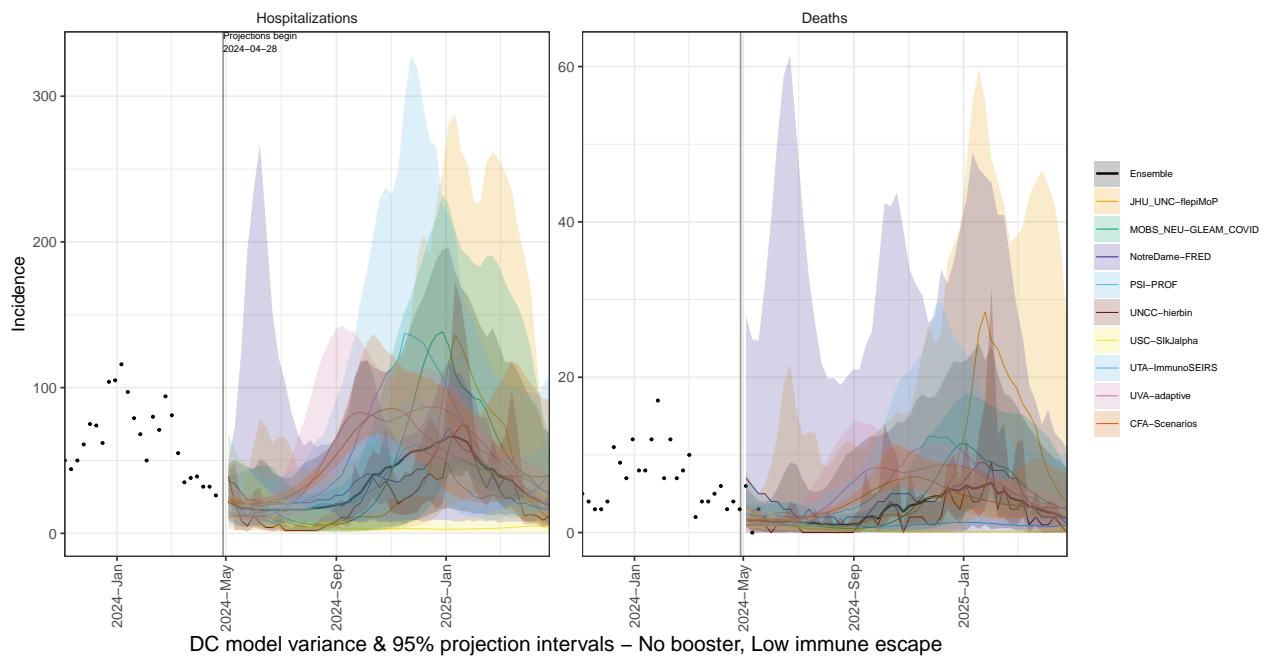
CO model variance & 95% projection intervals – No booster, Low immune escape



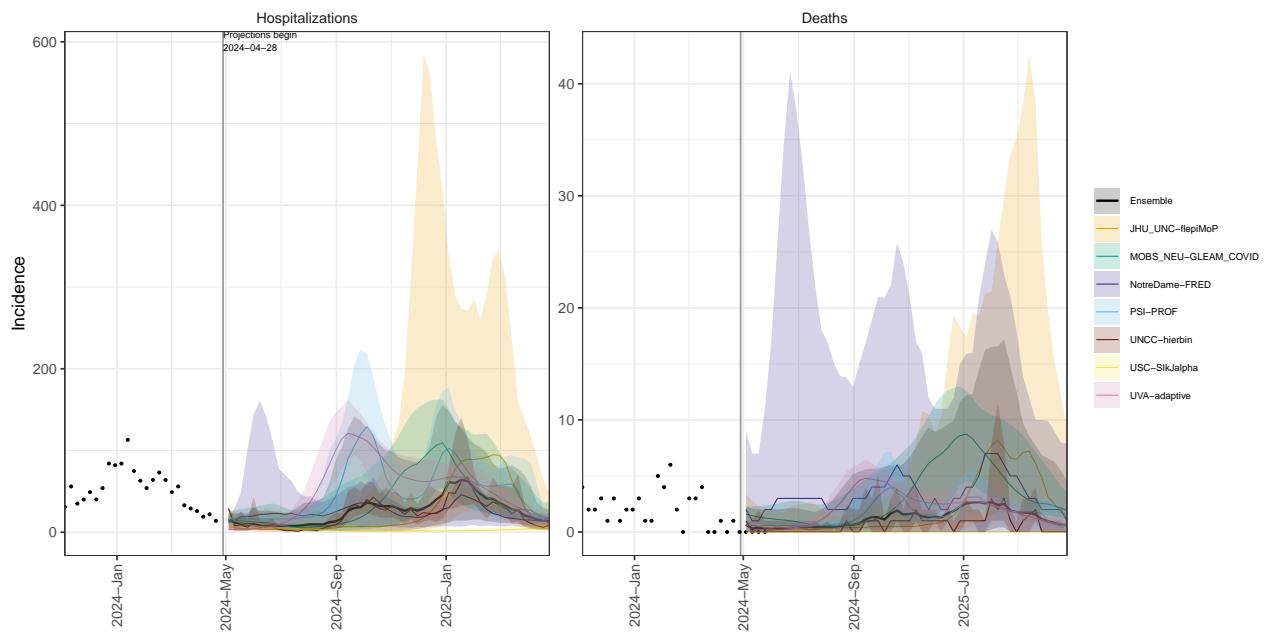
CT model variance & 95% projection intervals – No booster, Low immune escape



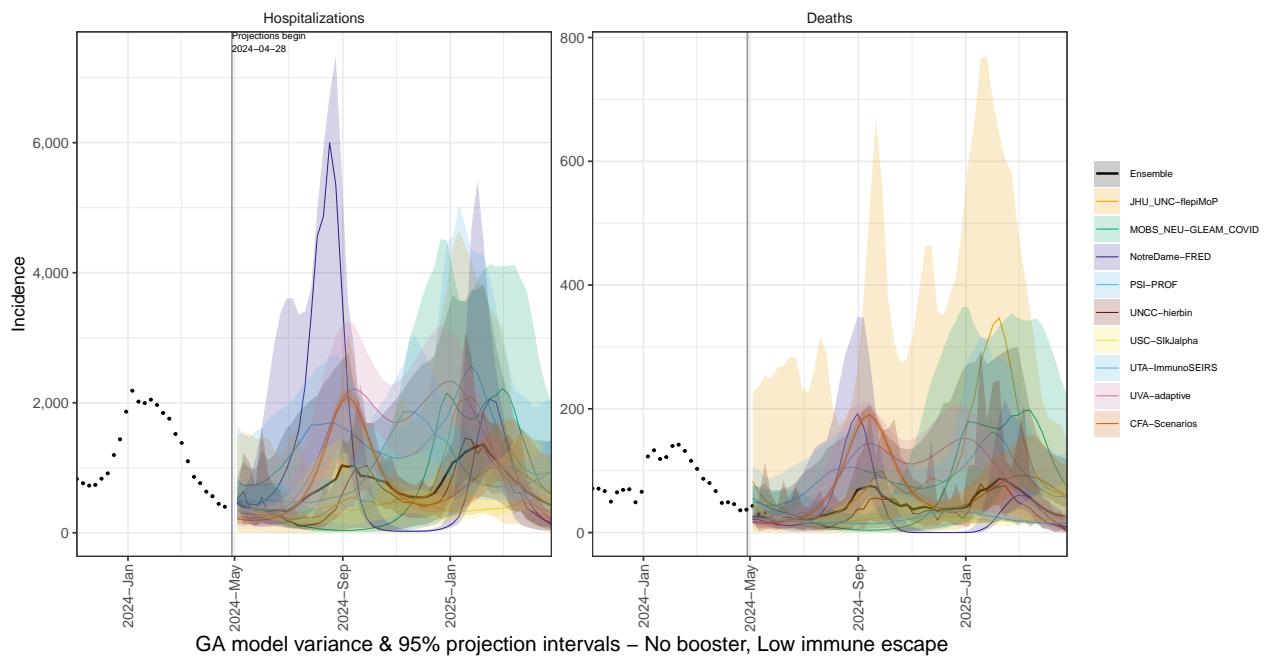
DE model variance & 95% projection intervals – No booster, Low immune escape



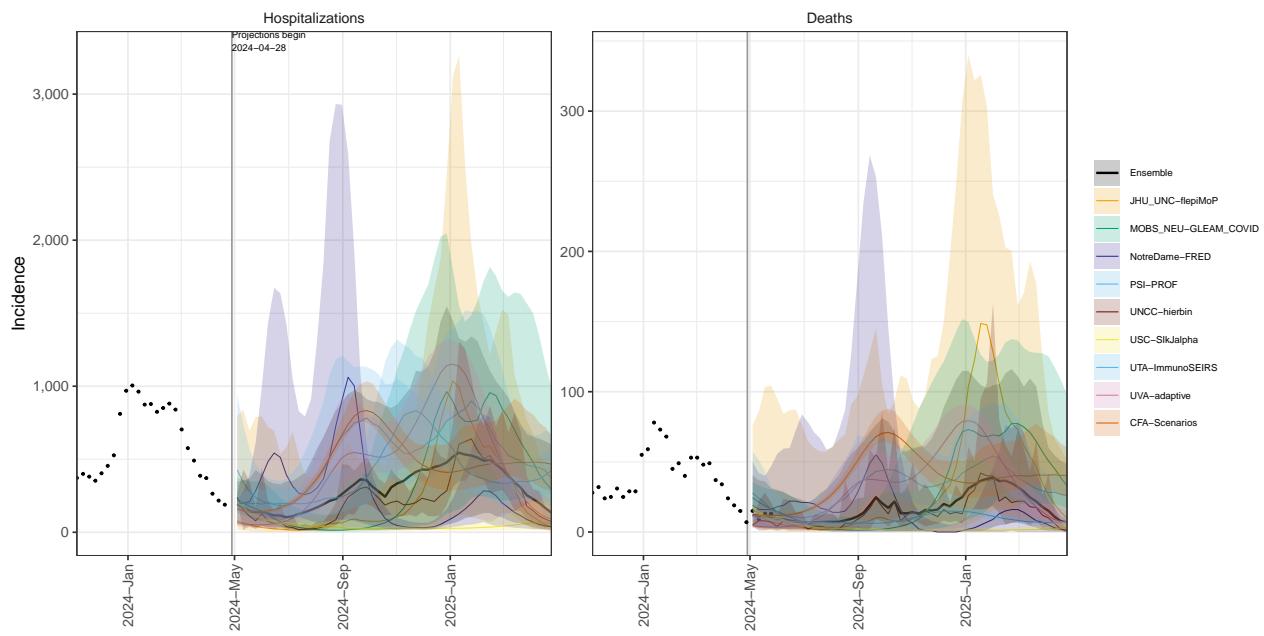
DC model variance & 95% projection intervals – No booster, Low immune escape



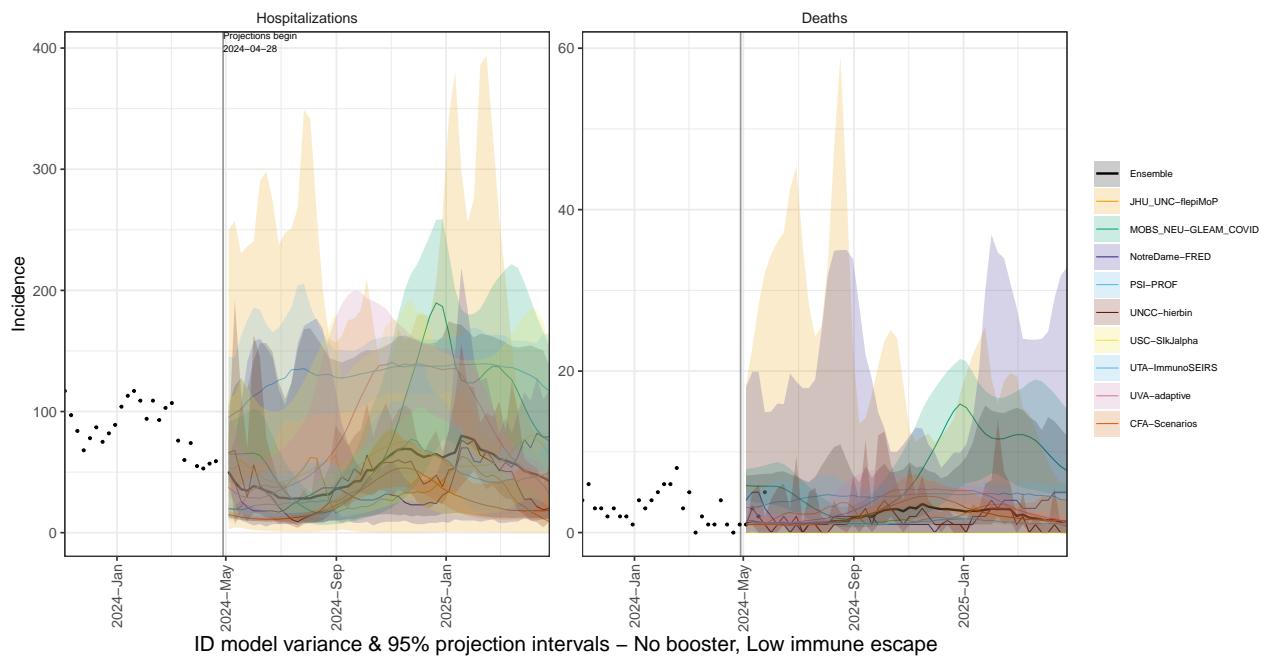
FL model variance & 95% projection intervals – No booster, Low immune escape



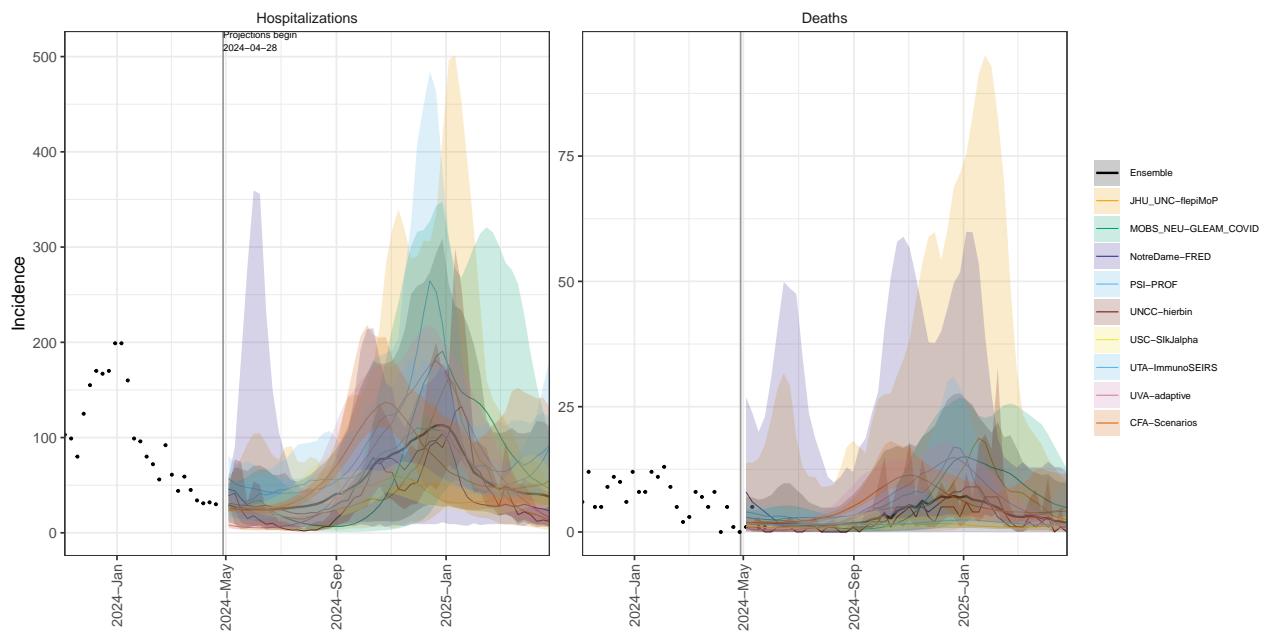
GA model variance & 95% projection intervals – No booster, Low immune escape



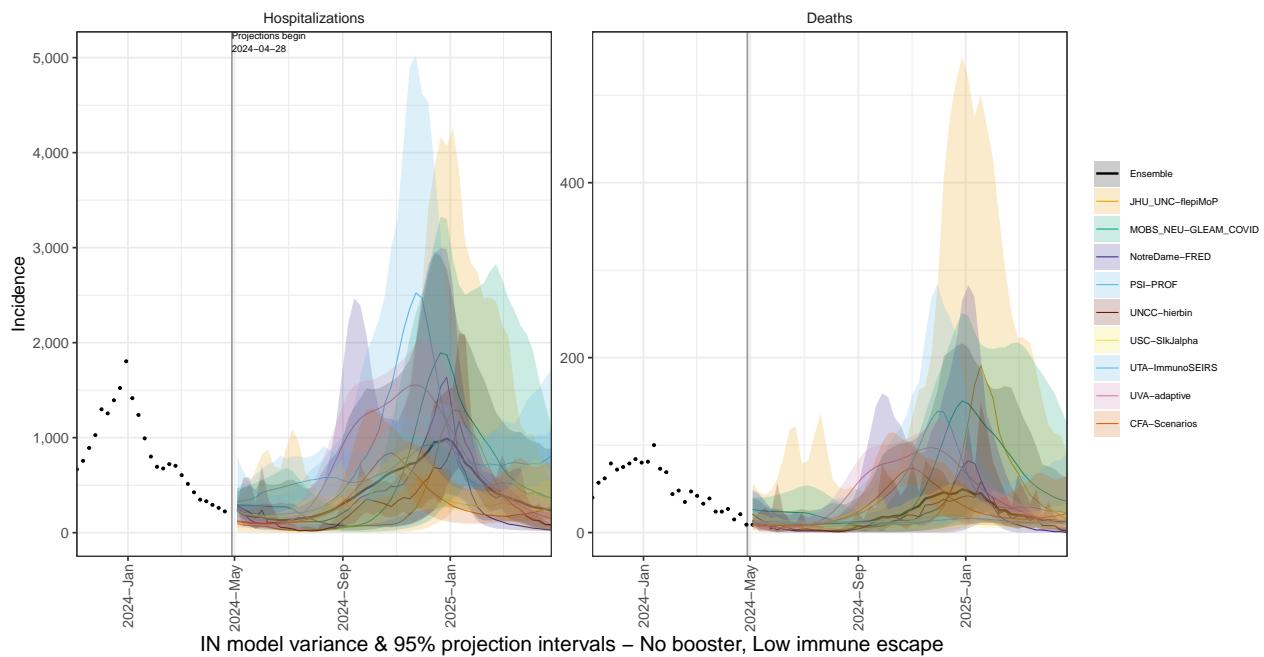
HI model variance & 95% projection intervals – No booster, Low immune escape



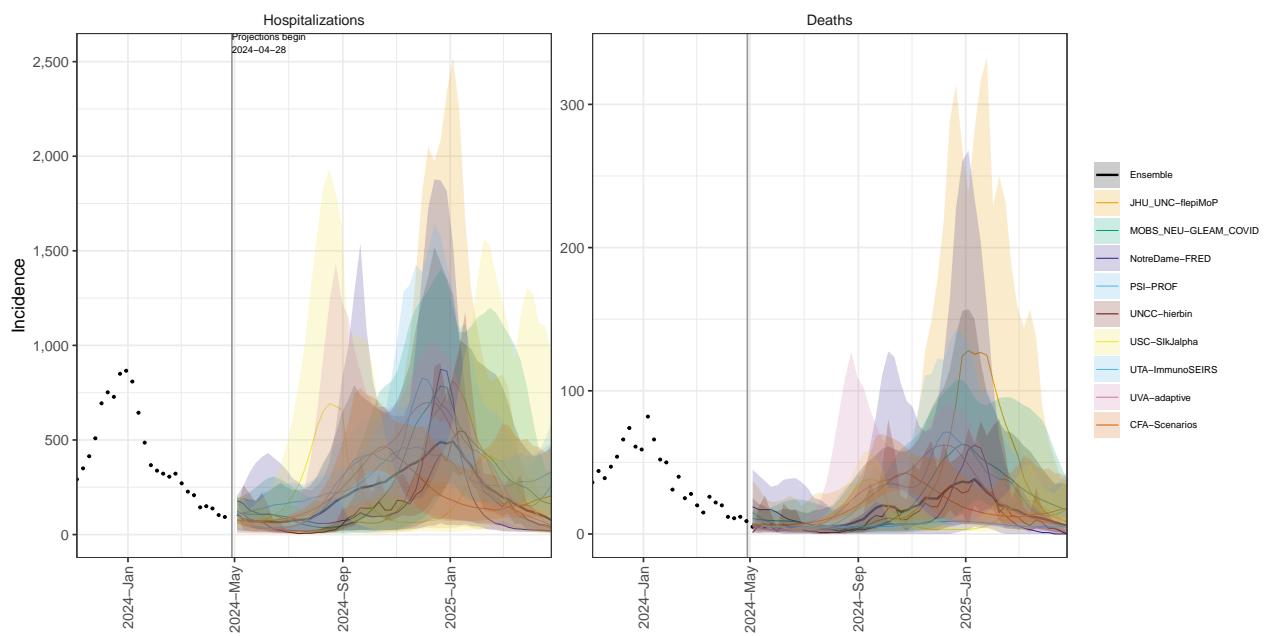
ID model variance & 95% projection intervals – No booster, Low immune escape



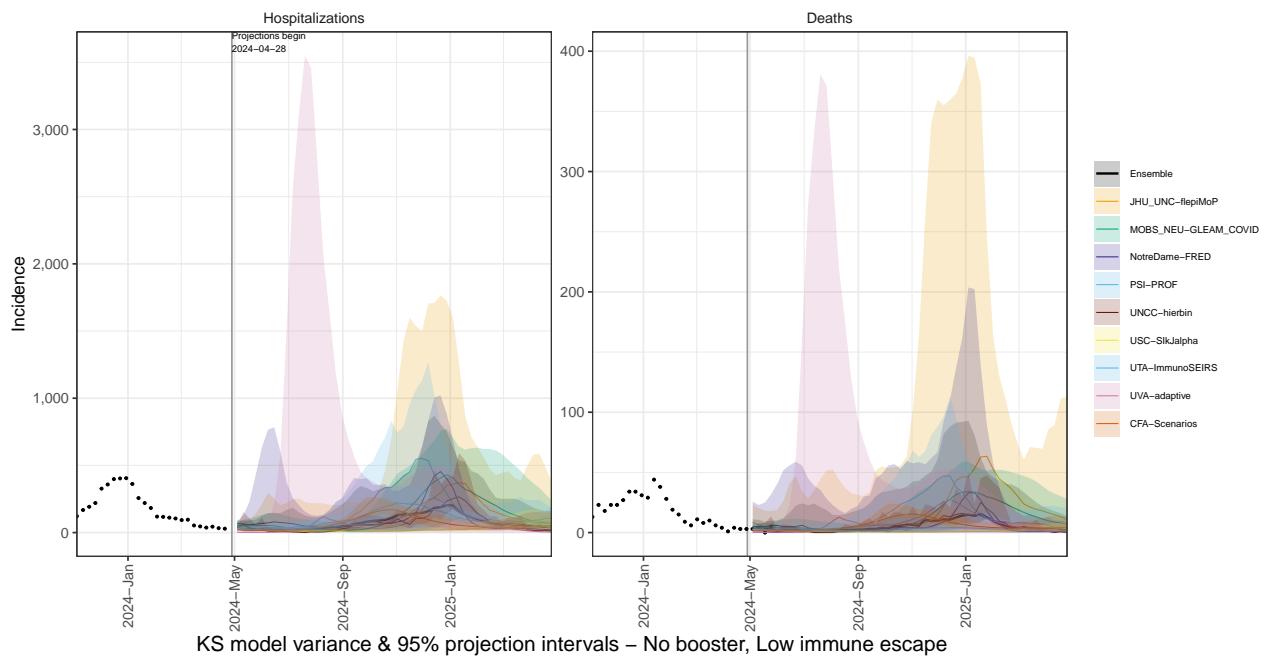
IL model variance & 95% projection intervals – No booster, Low immune escape



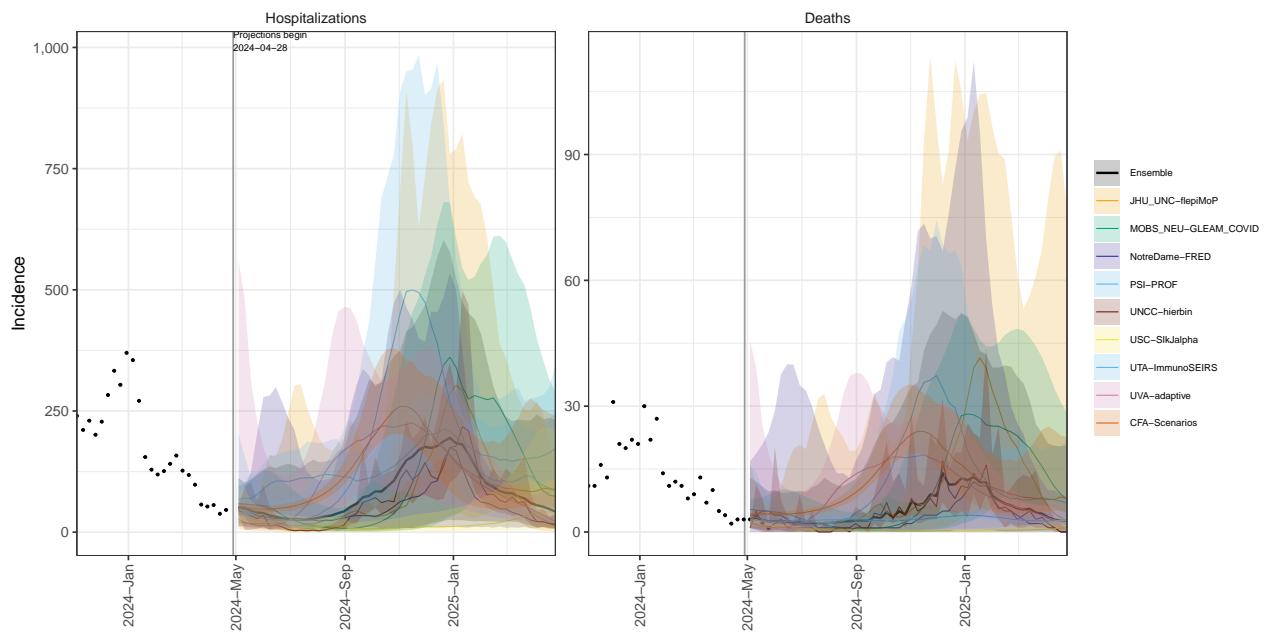
IN model variance & 95% projection intervals – No booster, Low immune escape



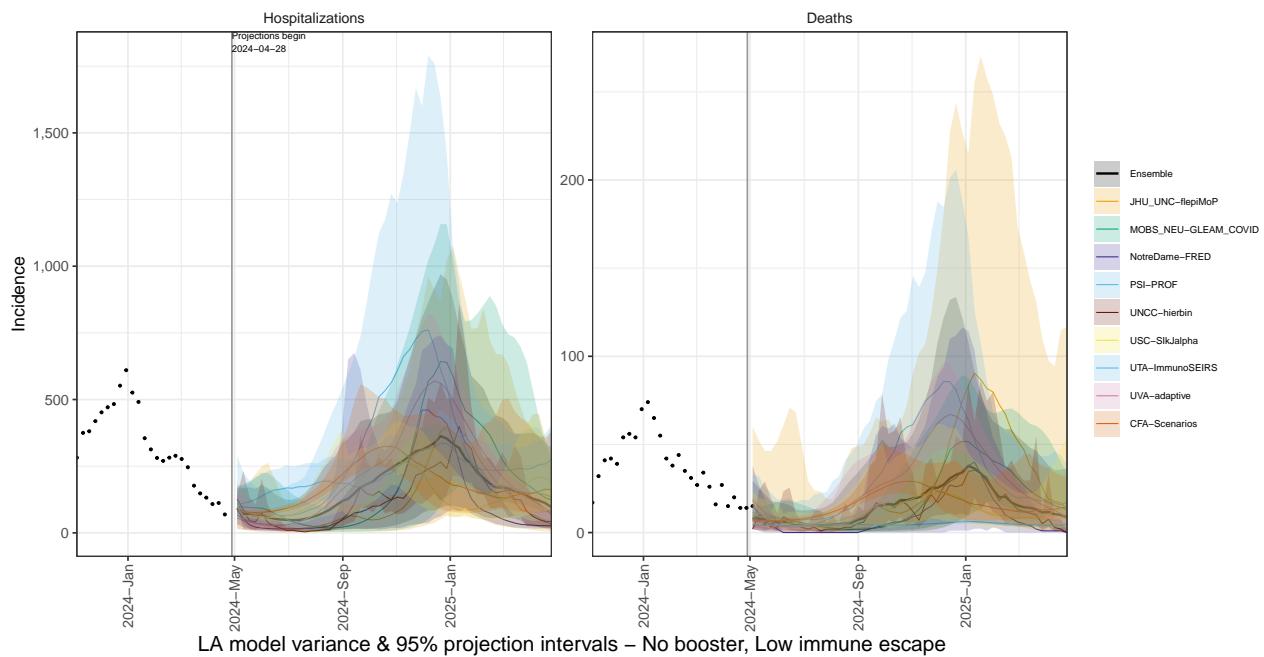
IA model variance & 95% projection intervals – No booster, Low immune escape



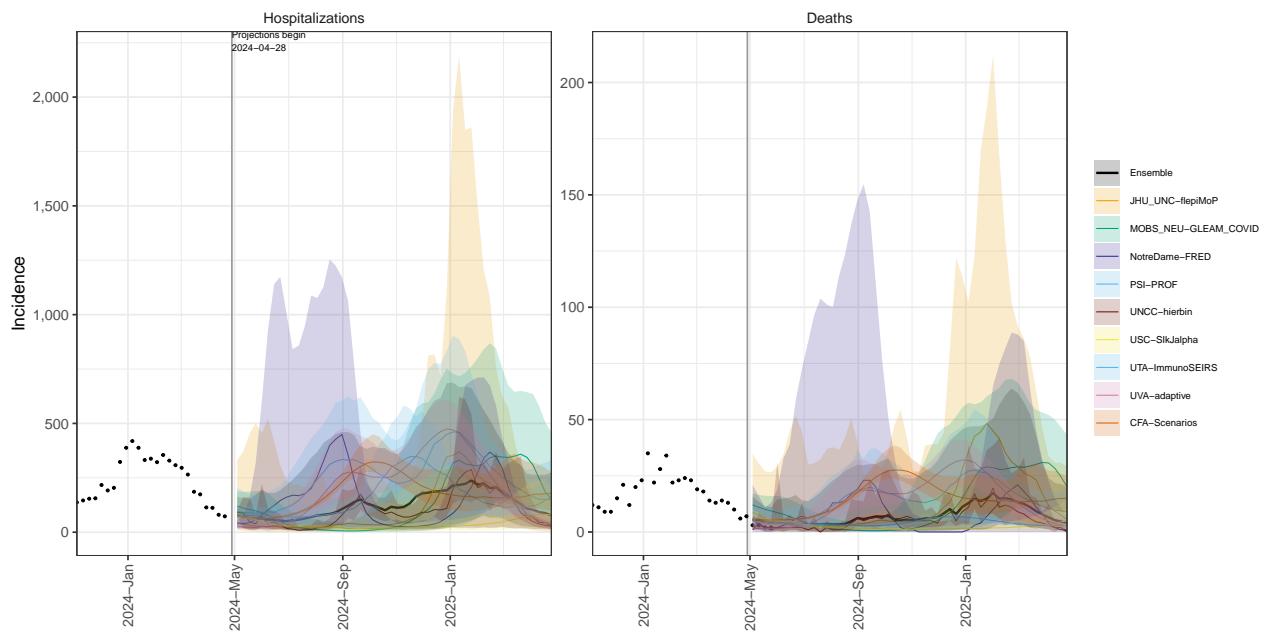
KS model variance & 95% projection intervals – No booster, Low immune escape



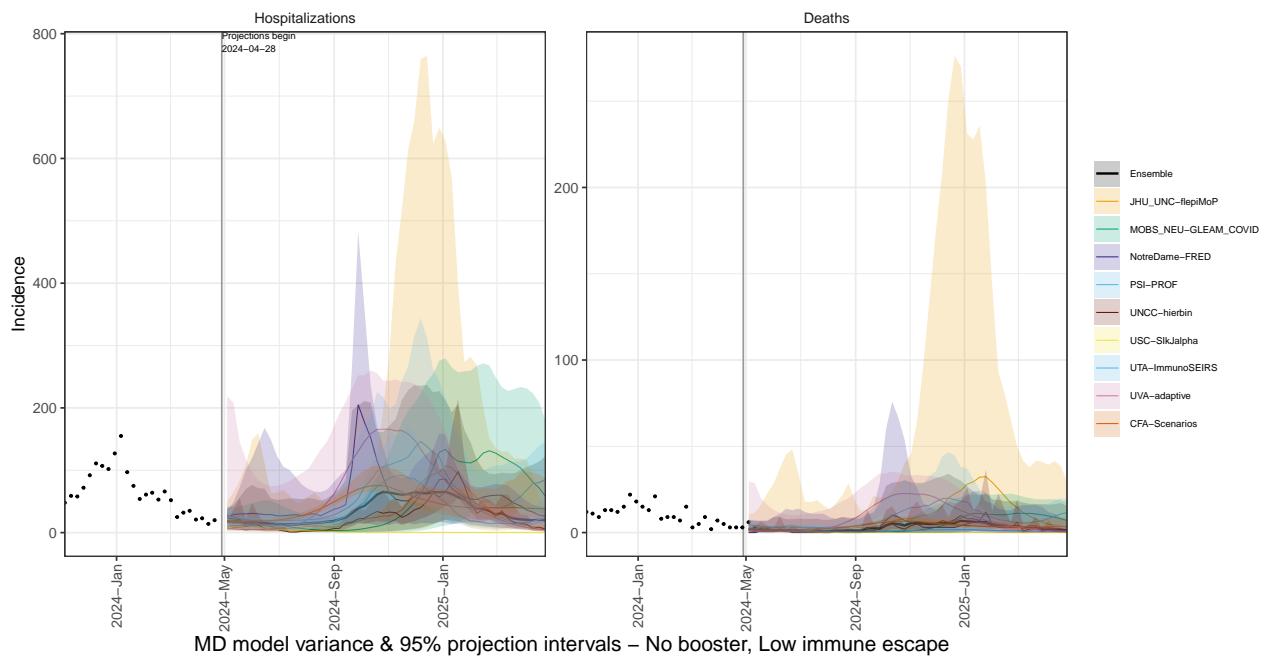
KY model variance & 95% projection intervals – No booster, Low immune escape



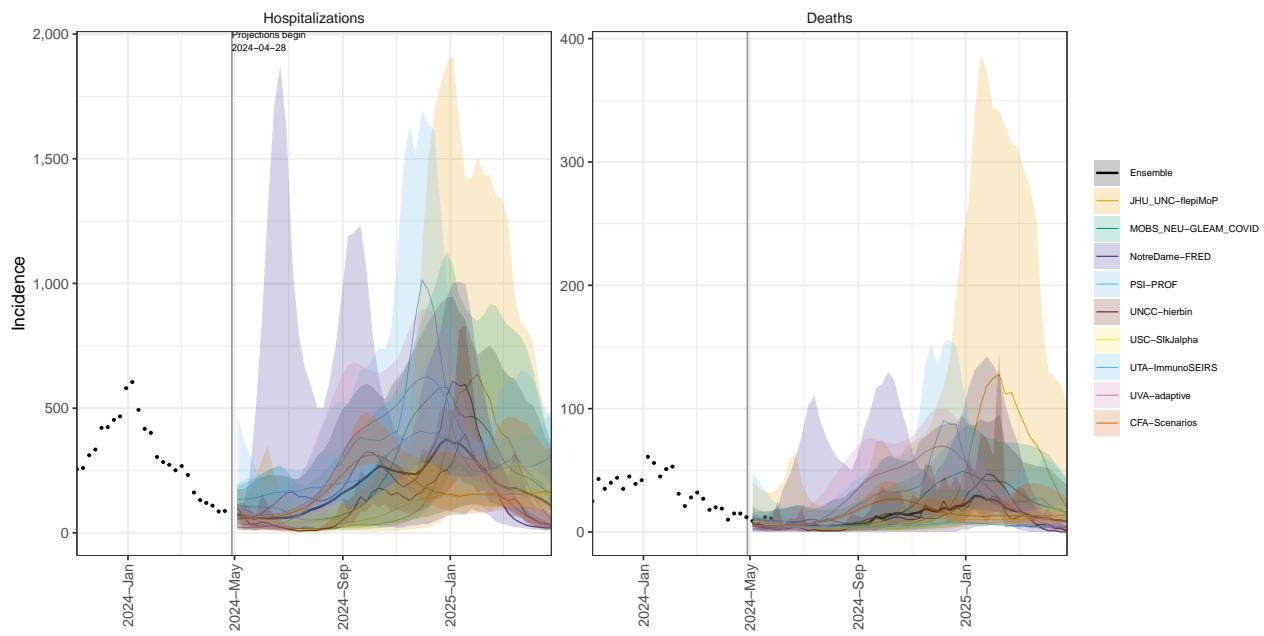
LA model variance & 95% projection intervals – No booster, Low immune escape



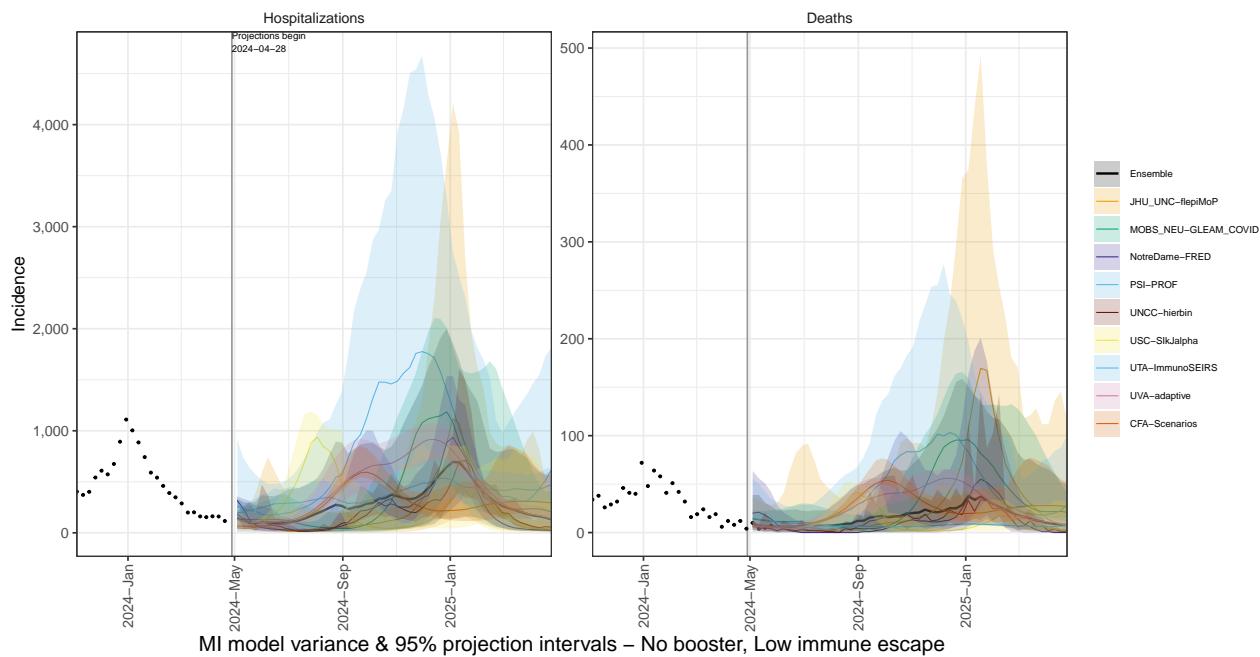
ME model variance & 95% projection intervals – No booster, Low immune escape



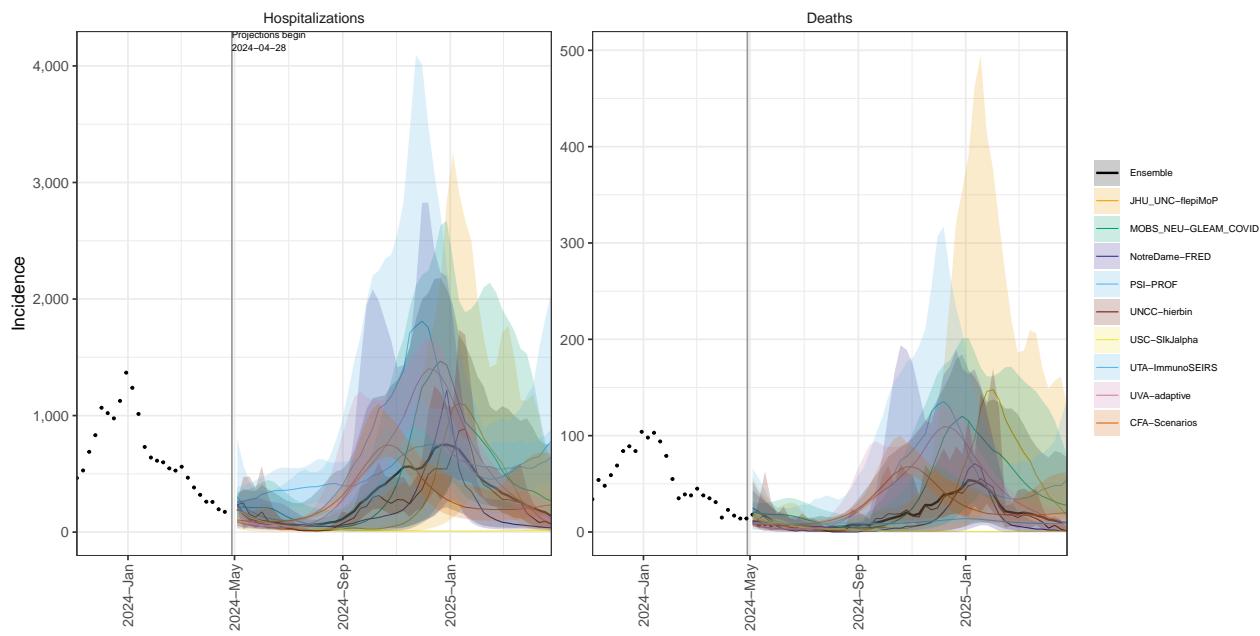
MD model variance & 95% projection intervals – No booster, Low immune escape



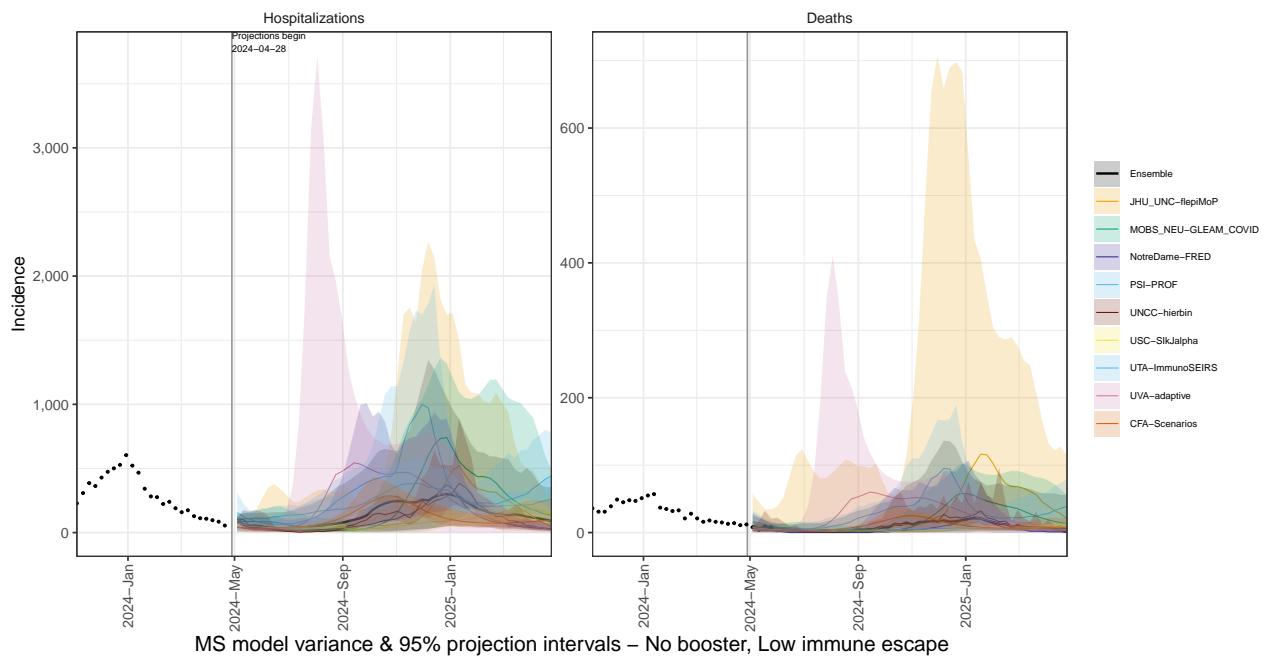
MA model variance & 95% projection intervals – No booster, Low immune escape



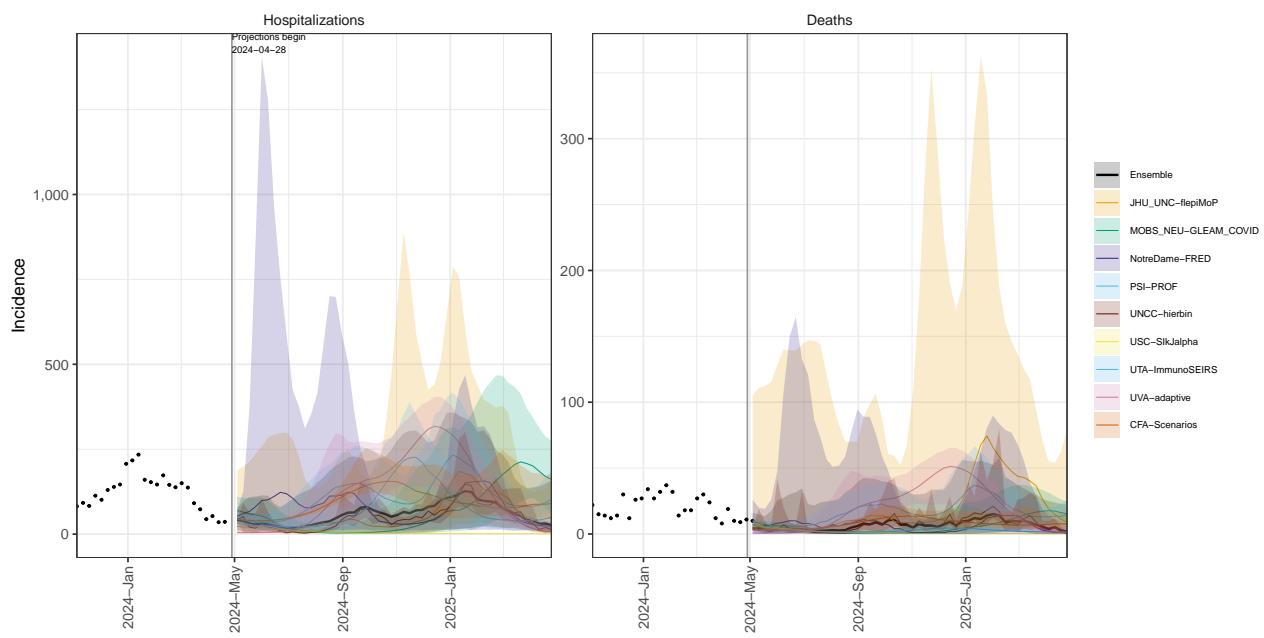
MI model variance & 95% projection intervals – No booster, Low immune escape



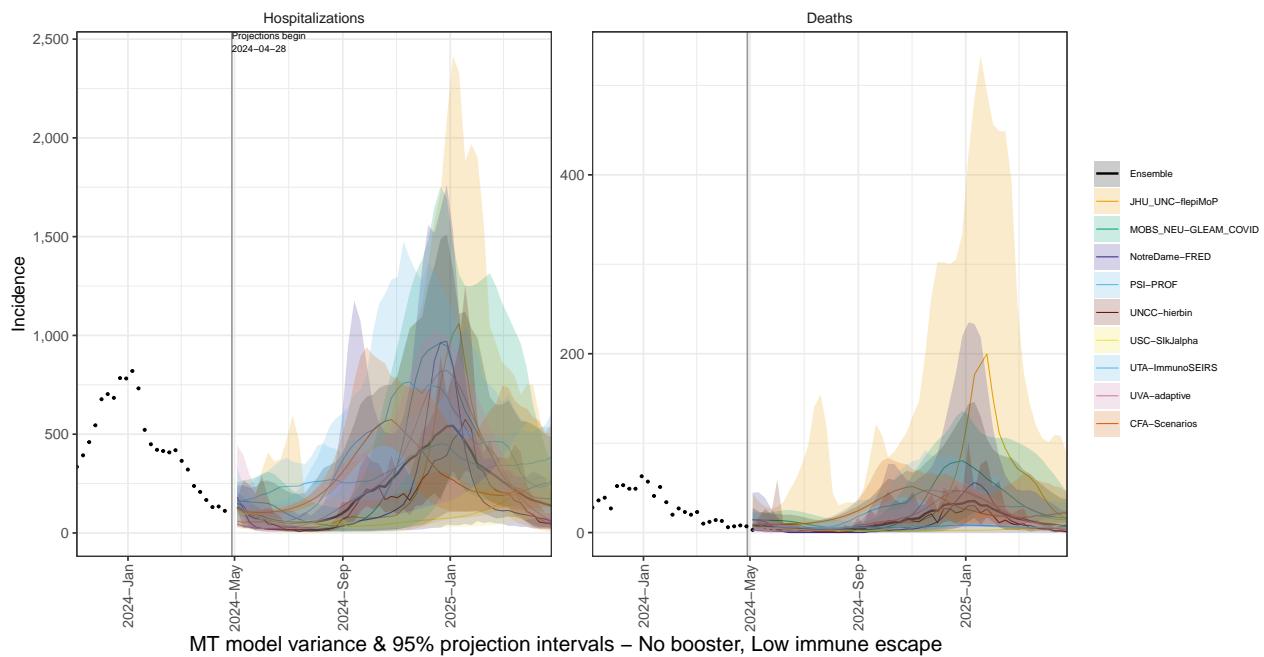
MN model variance & 95% projection intervals – No booster, Low immune escape



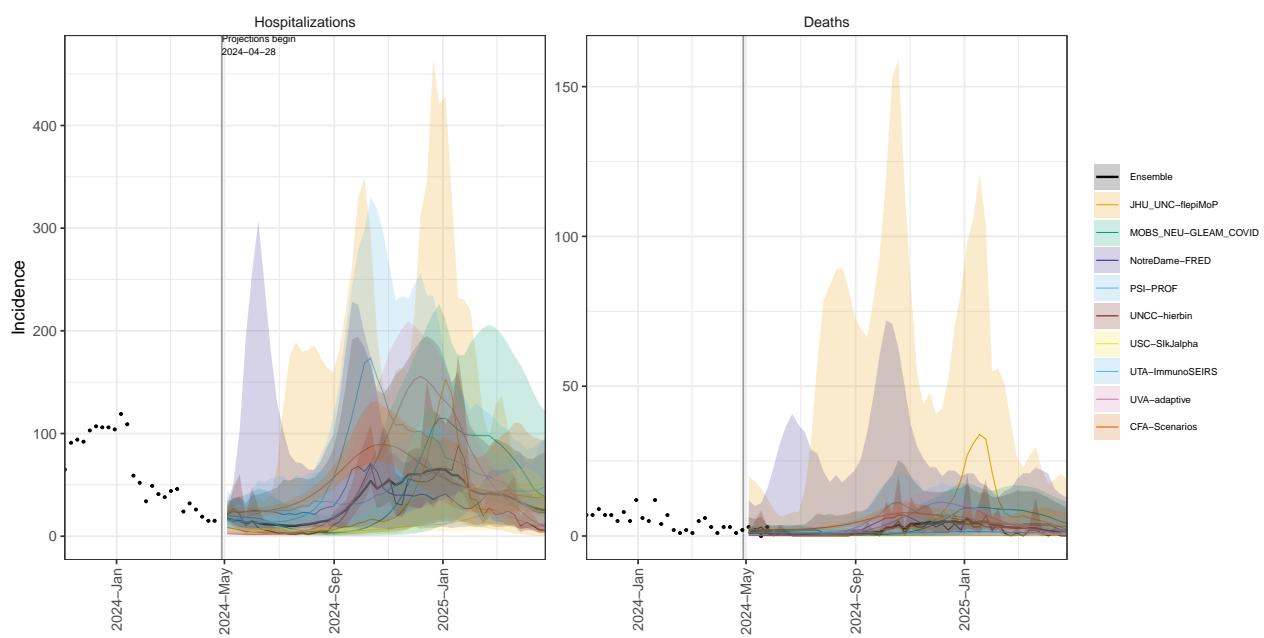
MS model variance & 95% projection intervals – No booster, Low immune escape



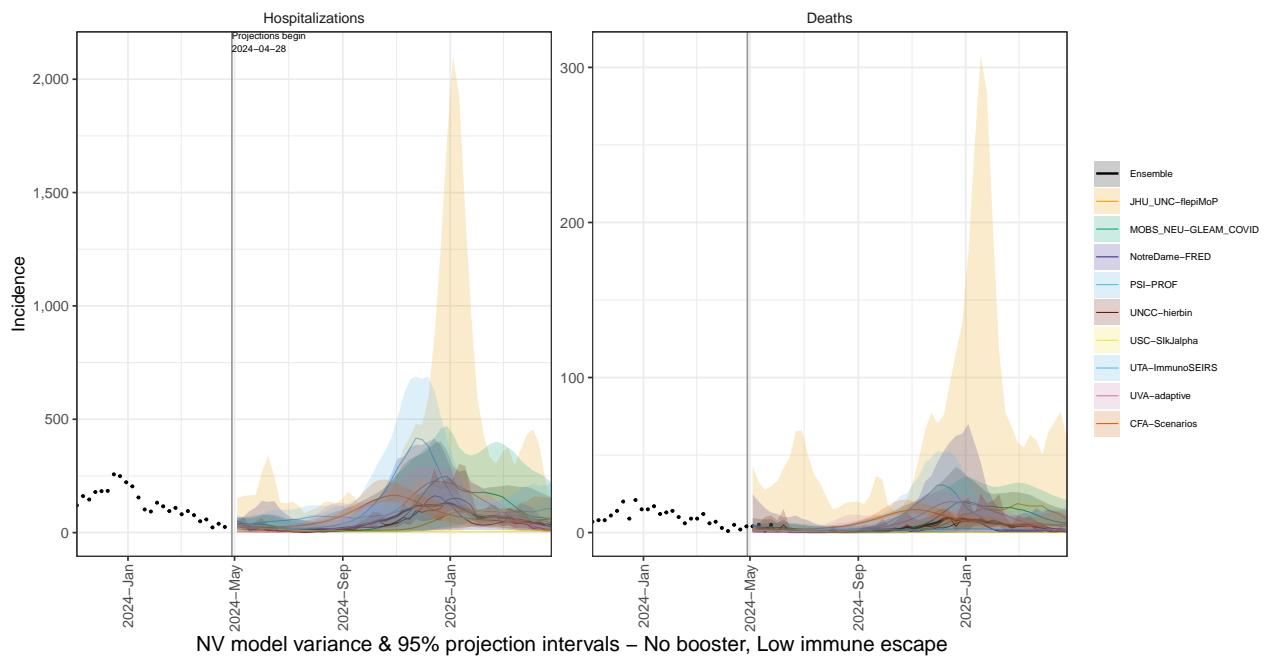
MO model variance & 95% projection intervals – No booster, Low immune escape



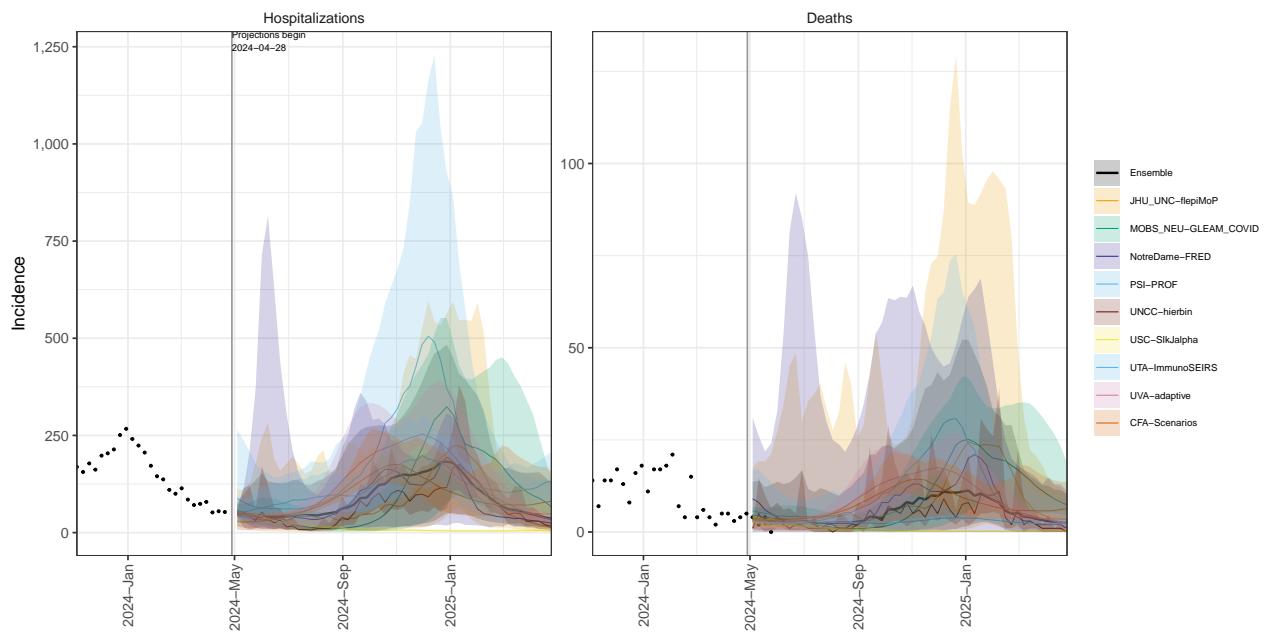
MT model variance & 95% projection intervals – No booster, Low immune escape



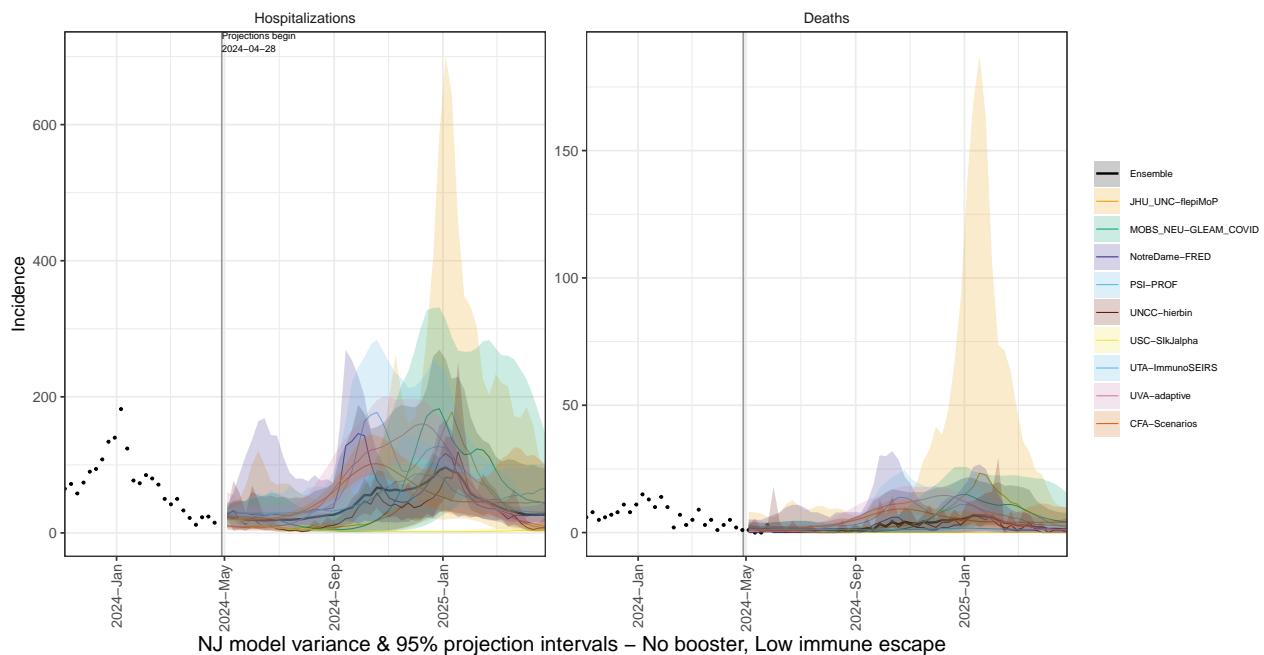
NE model variance & 95% projection intervals – No booster, Low immune escape



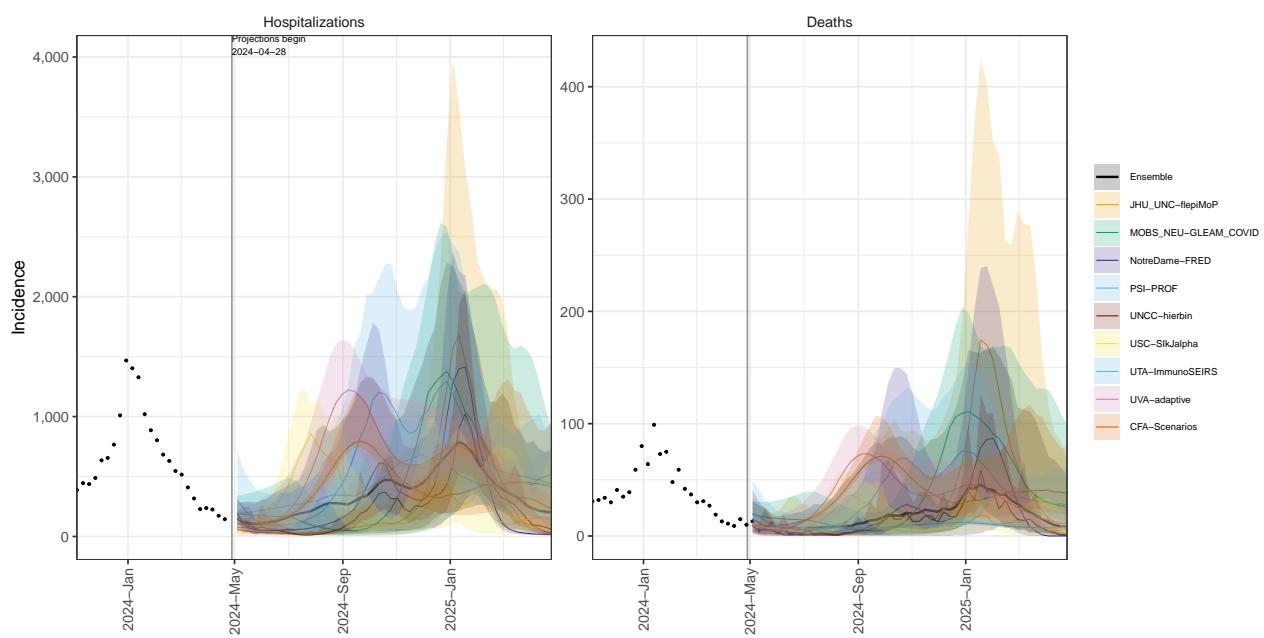
NV model variance & 95% projection intervals – No booster, Low immune escape



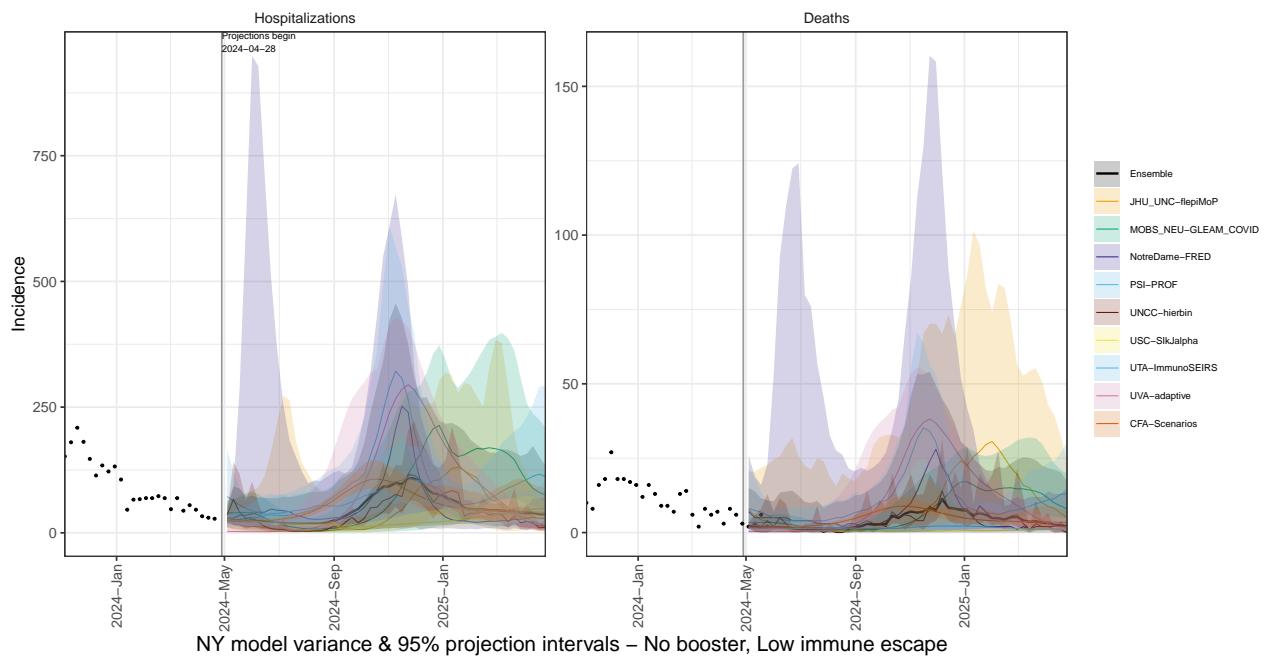
NH model variance & 95% projection intervals – No booster, Low immune escape



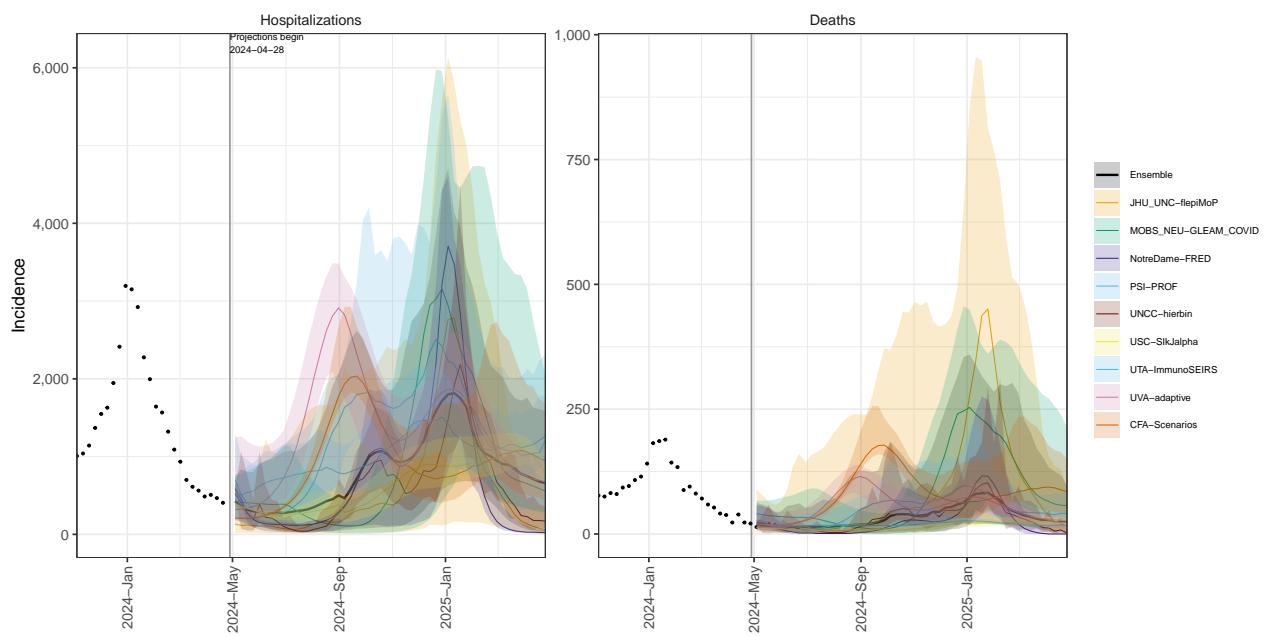
NJ model variance & 95% projection intervals – No booster, Low immune escape



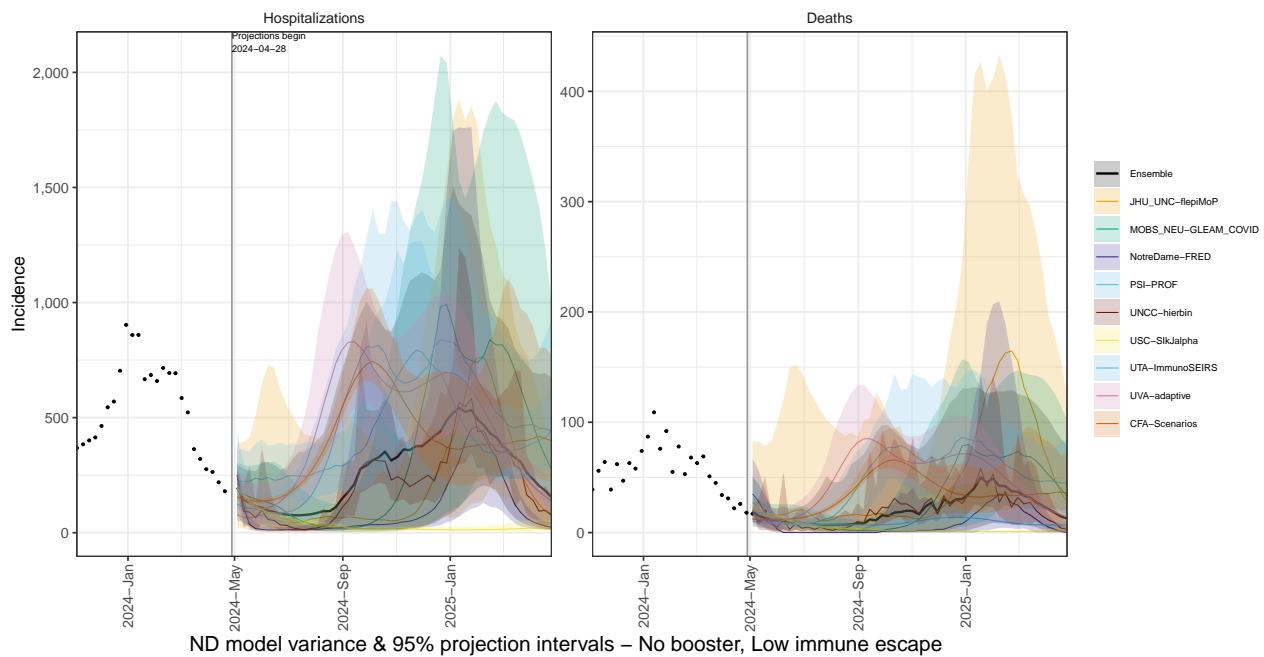
NM model variance & 95% projection intervals – No booster, Low immune escape



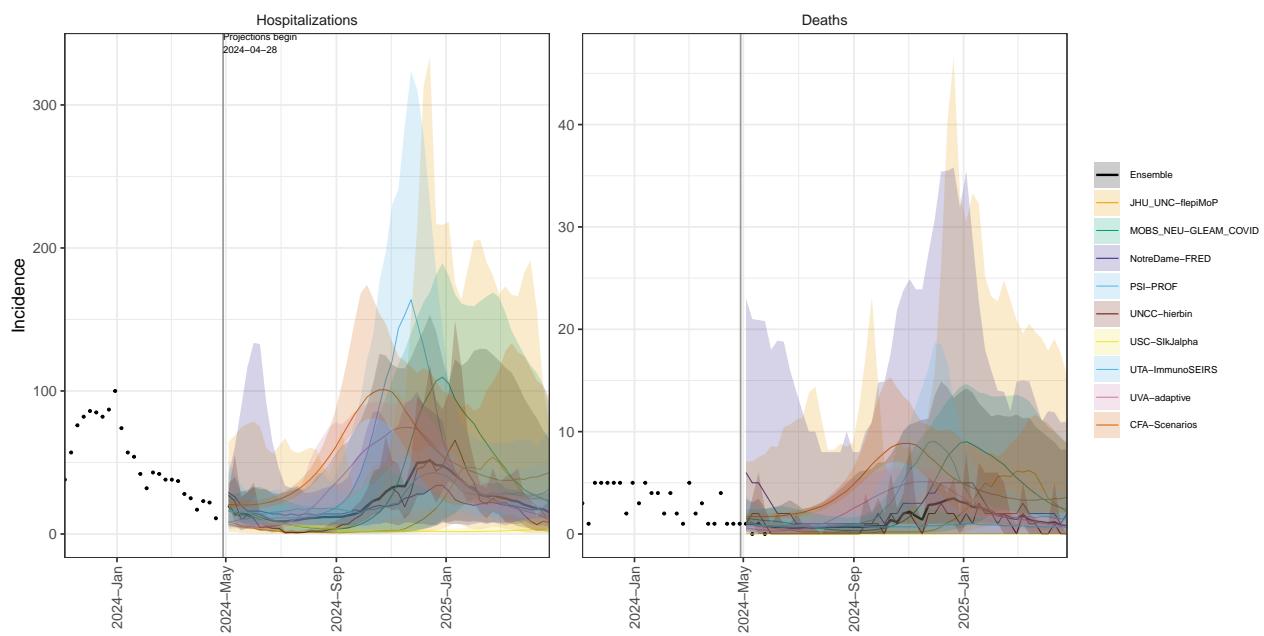
NY model variance & 95% projection intervals – No booster, Low immune escape



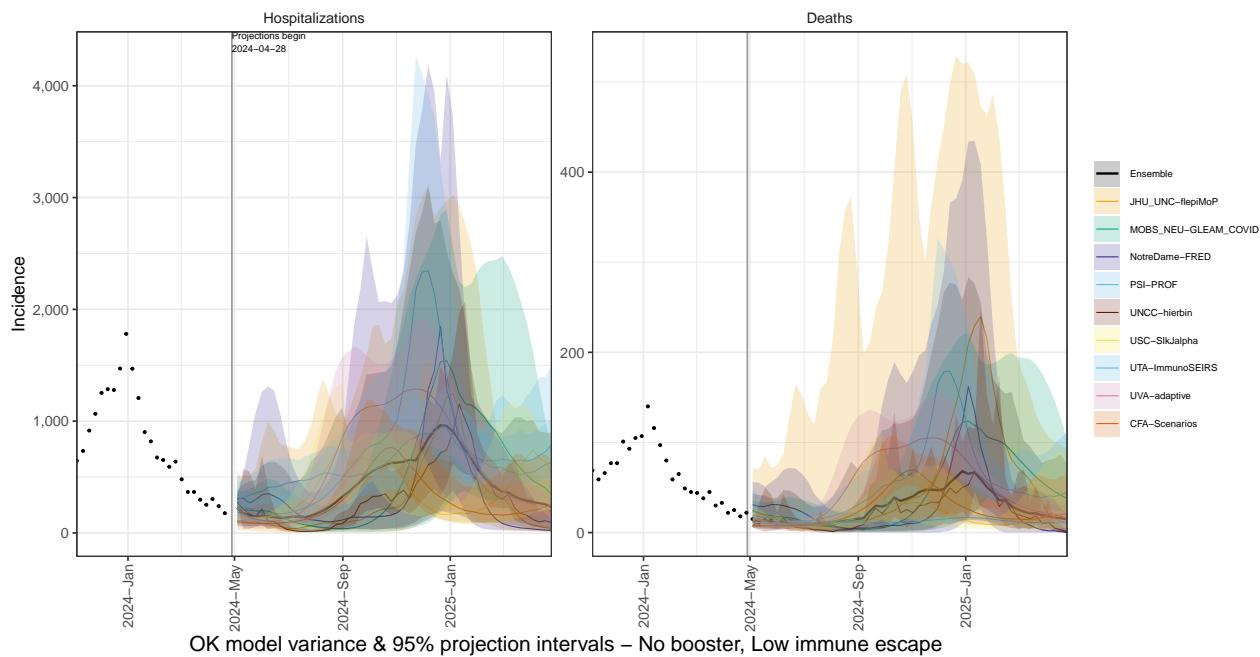
NC model variance & 95% projection intervals – No booster, Low immune escape



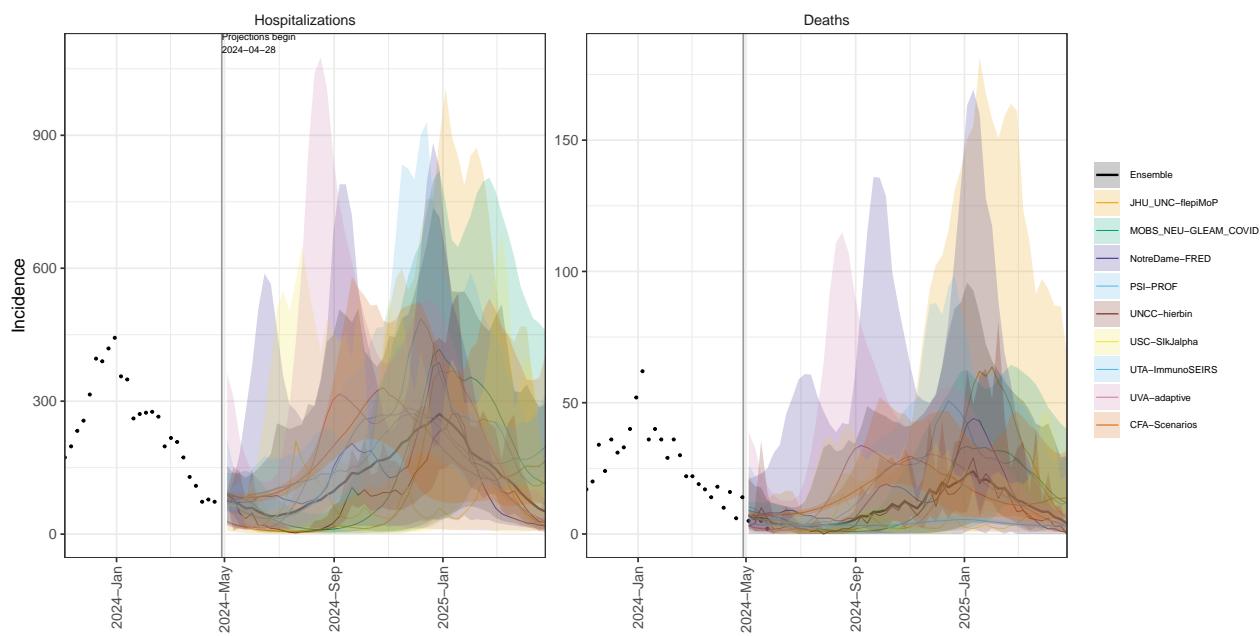
ND model variance & 95% projection intervals – No booster, Low immune escape



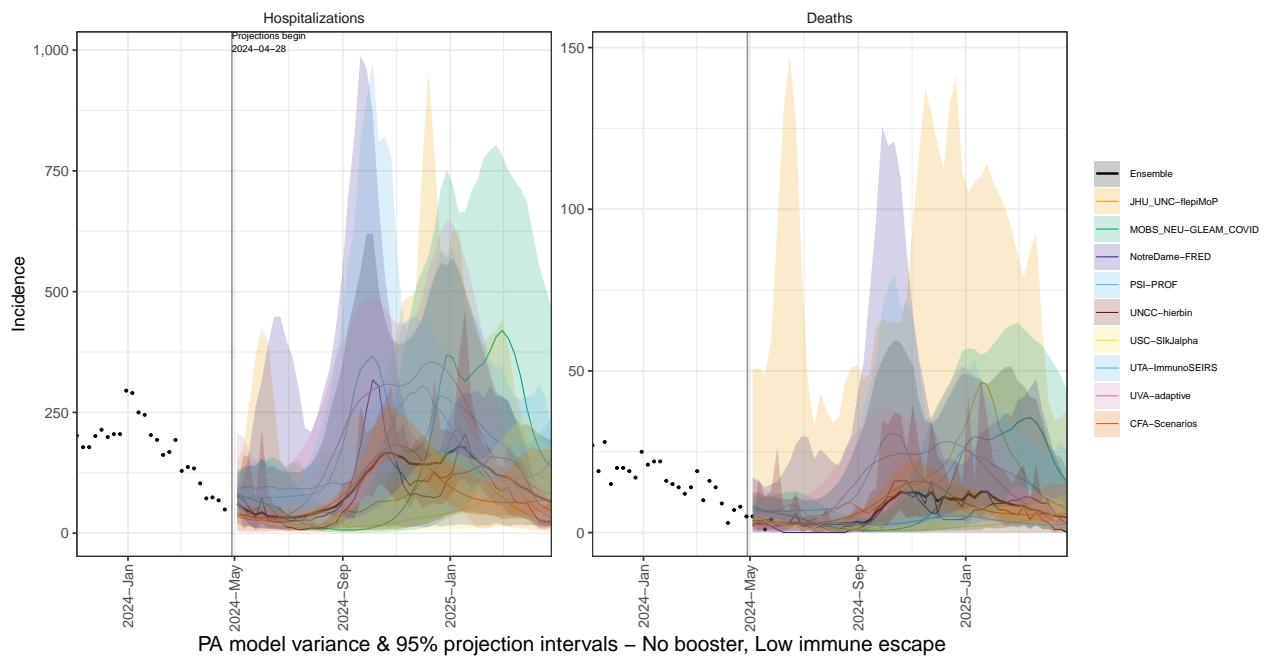
OH model variance & 95% projection intervals – No booster, Low immune escape



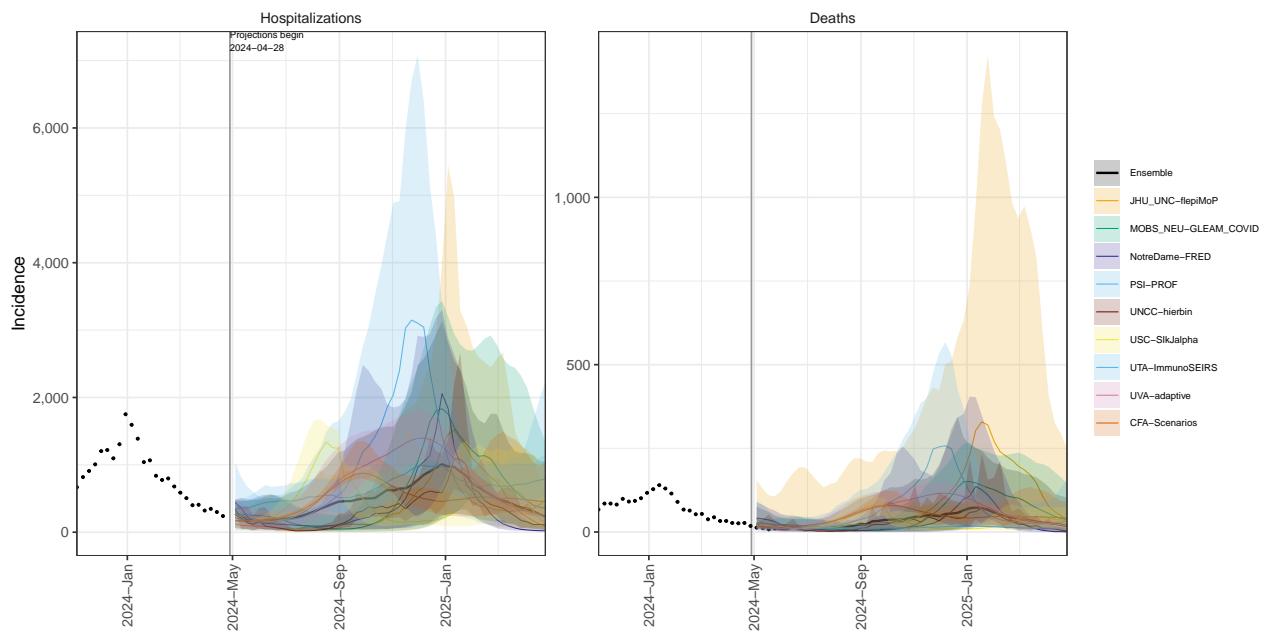
OK model variance & 95% projection intervals – No booster, Low immune escape



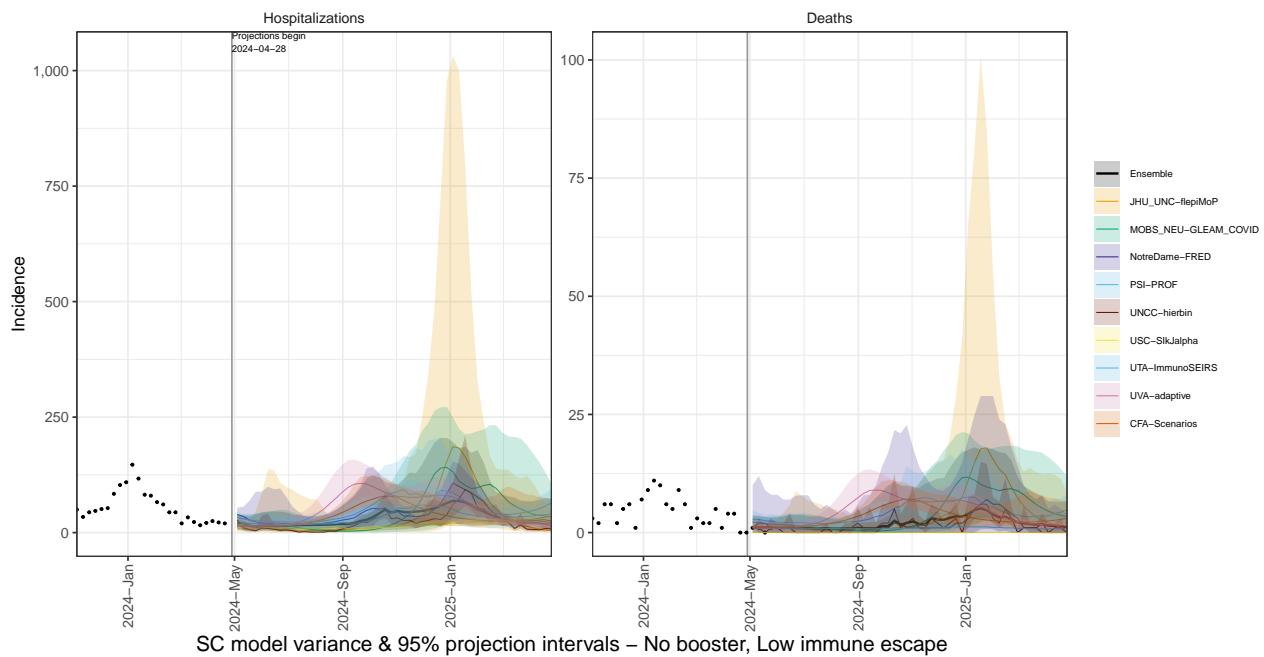
OR model variance & 95% projection intervals – No booster, Low immune escape



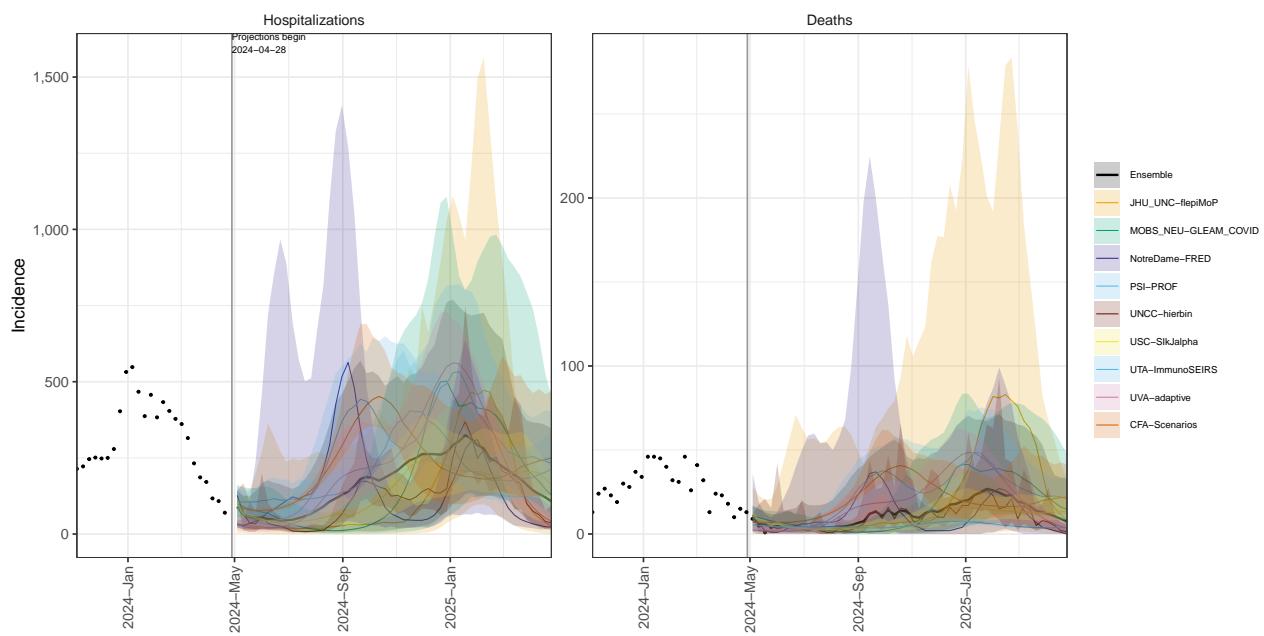
PA model variance & 95% projection intervals – No booster, Low immune escape



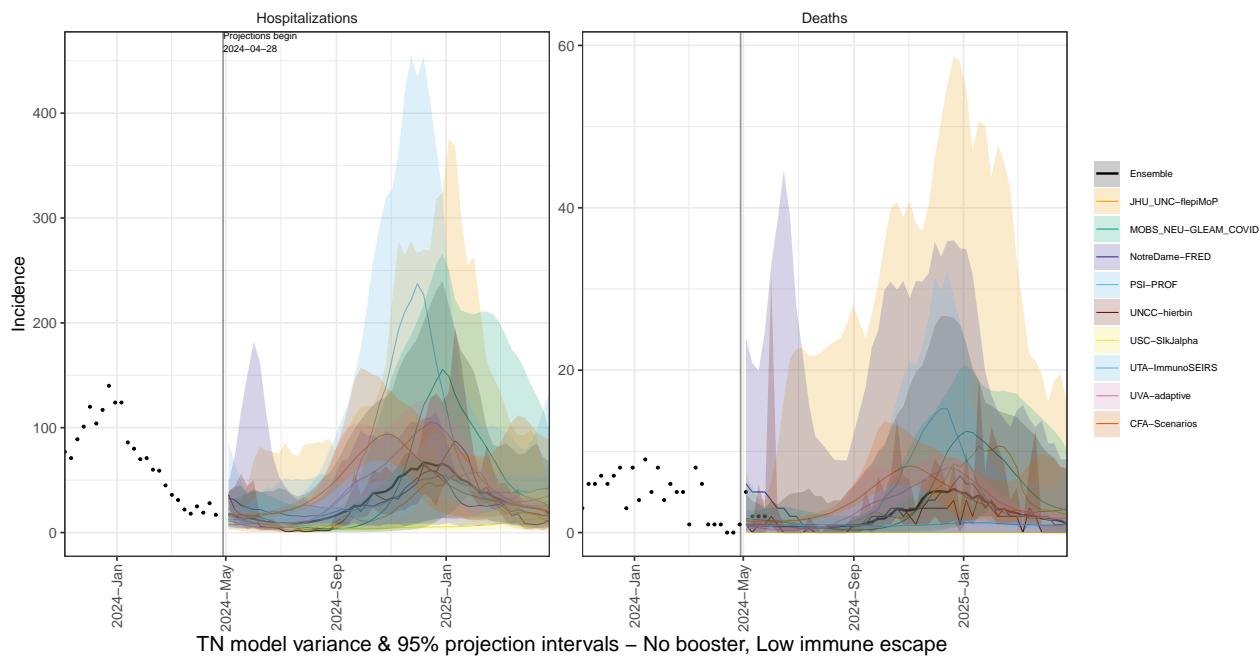
RI model variance & 95% projection intervals – No booster, Low immune escape



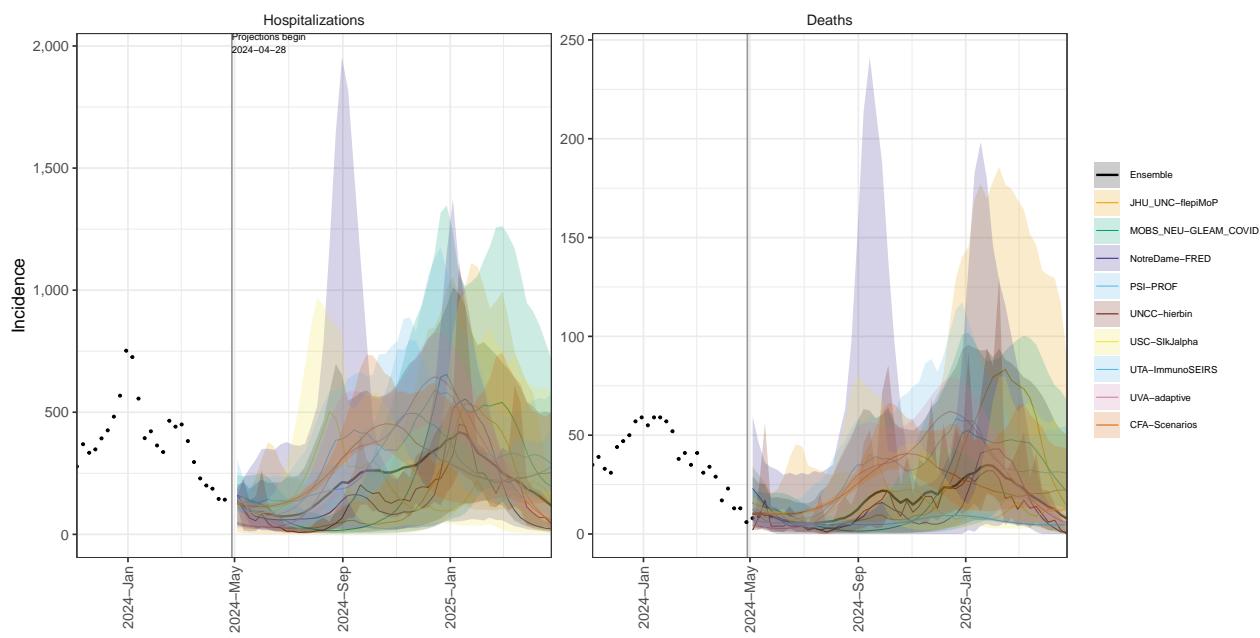
SC model variance & 95% projection intervals – No booster, Low immune escape



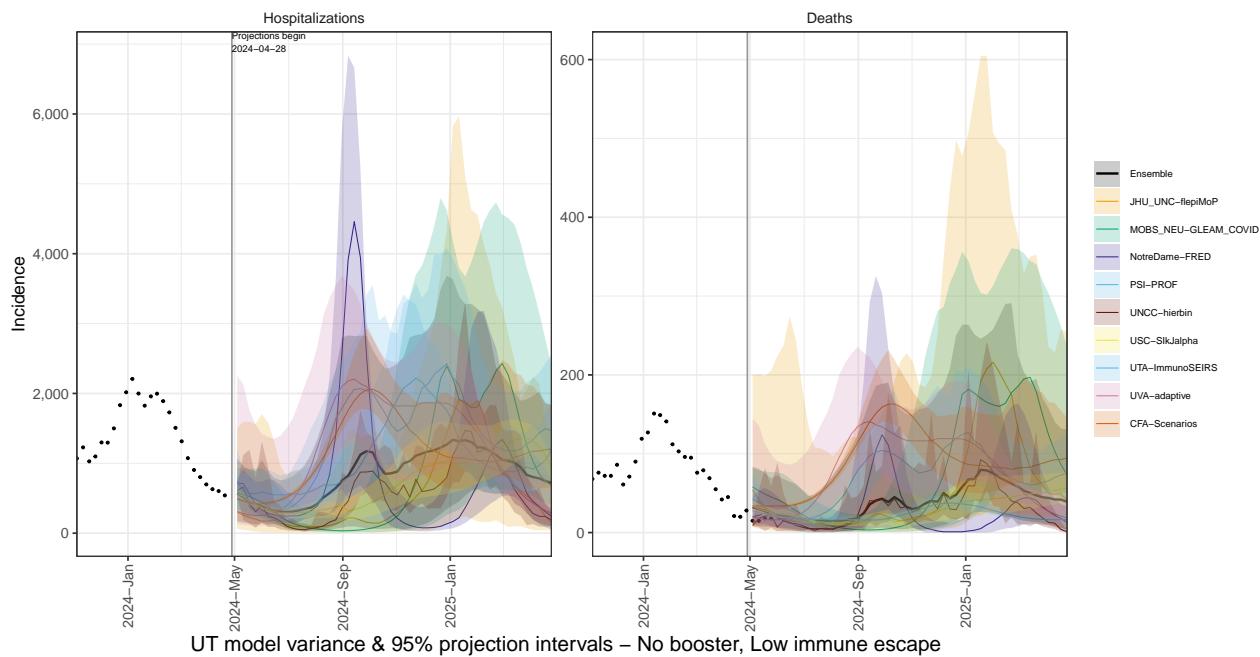
SD model variance & 95% projection intervals – No booster, Low immune escape



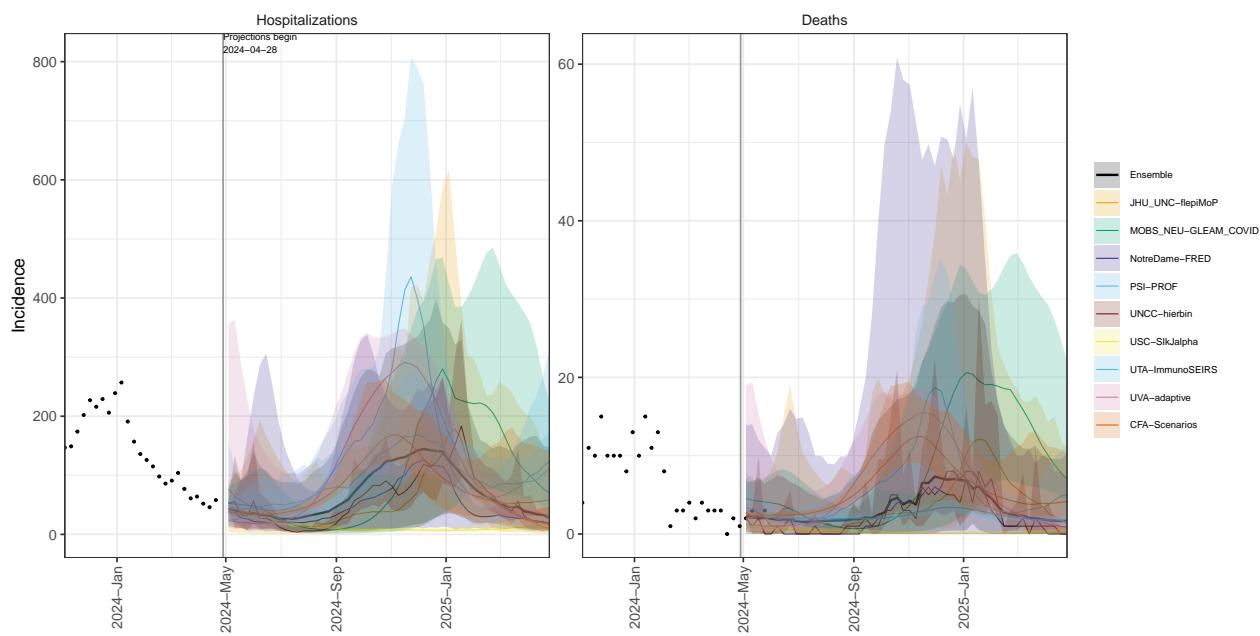
TN model variance & 95% projection intervals – No booster, Low immune escape



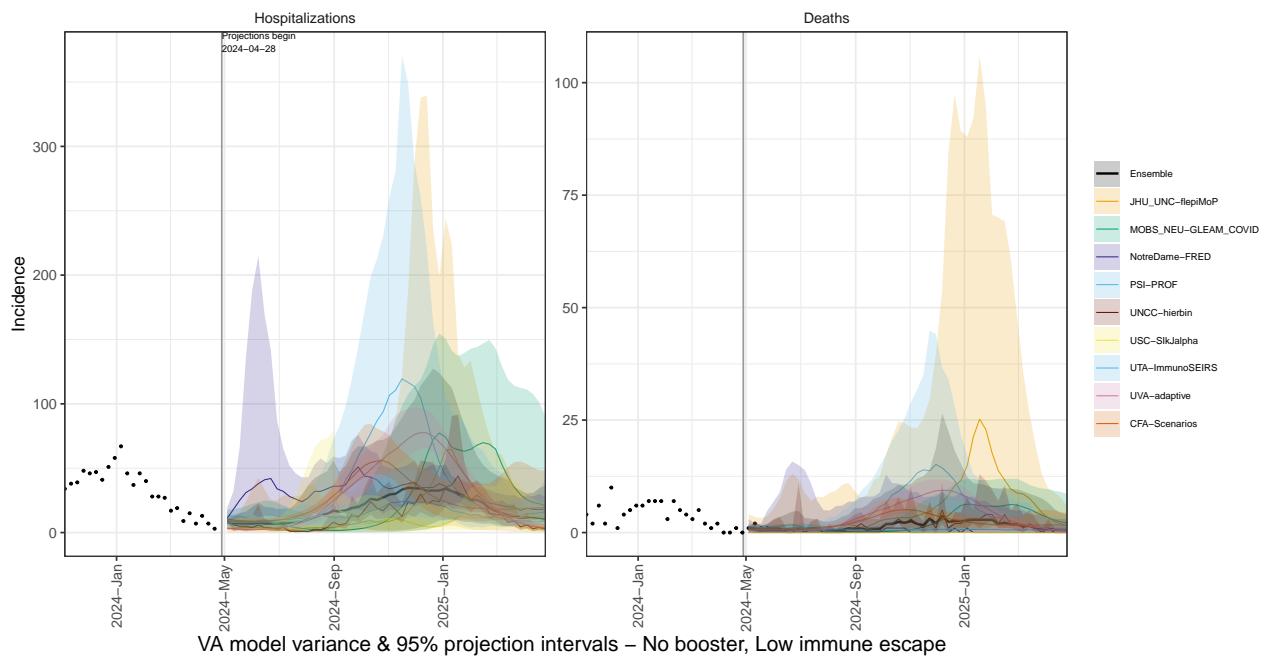
TX model variance & 95% projection intervals – No booster, Low immune escape



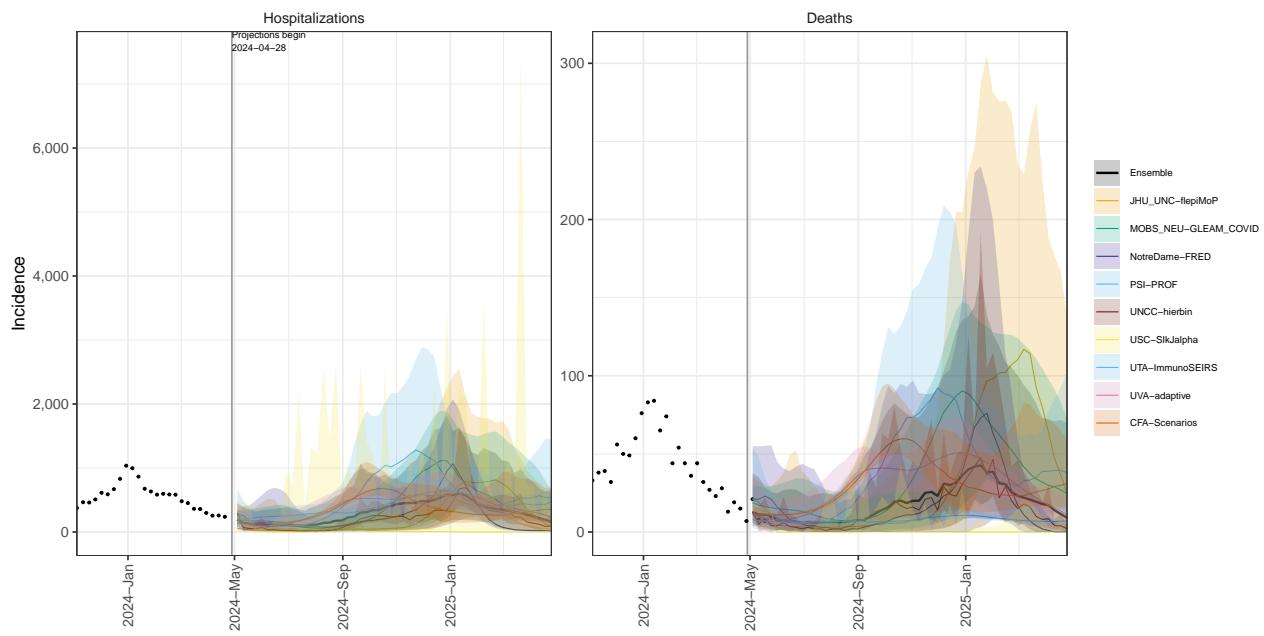
UT model variance & 95% projection intervals – No booster, Low immune escape



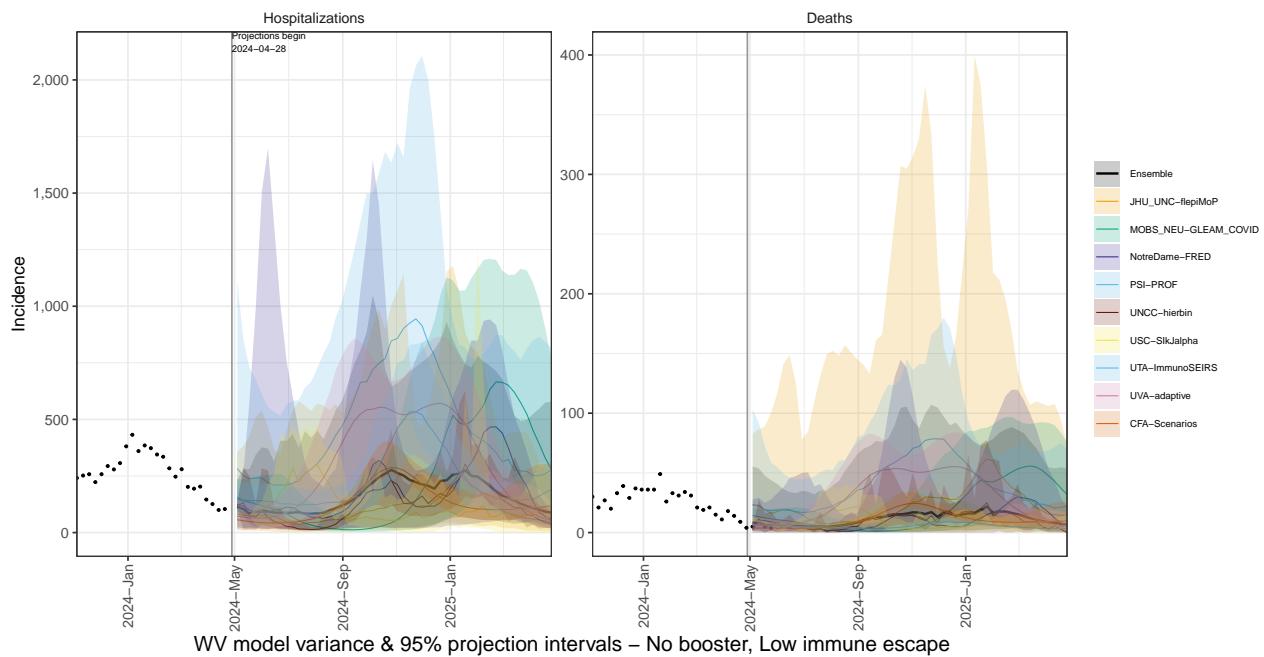
VT model variance & 95% projection intervals – No booster, Low immune escape



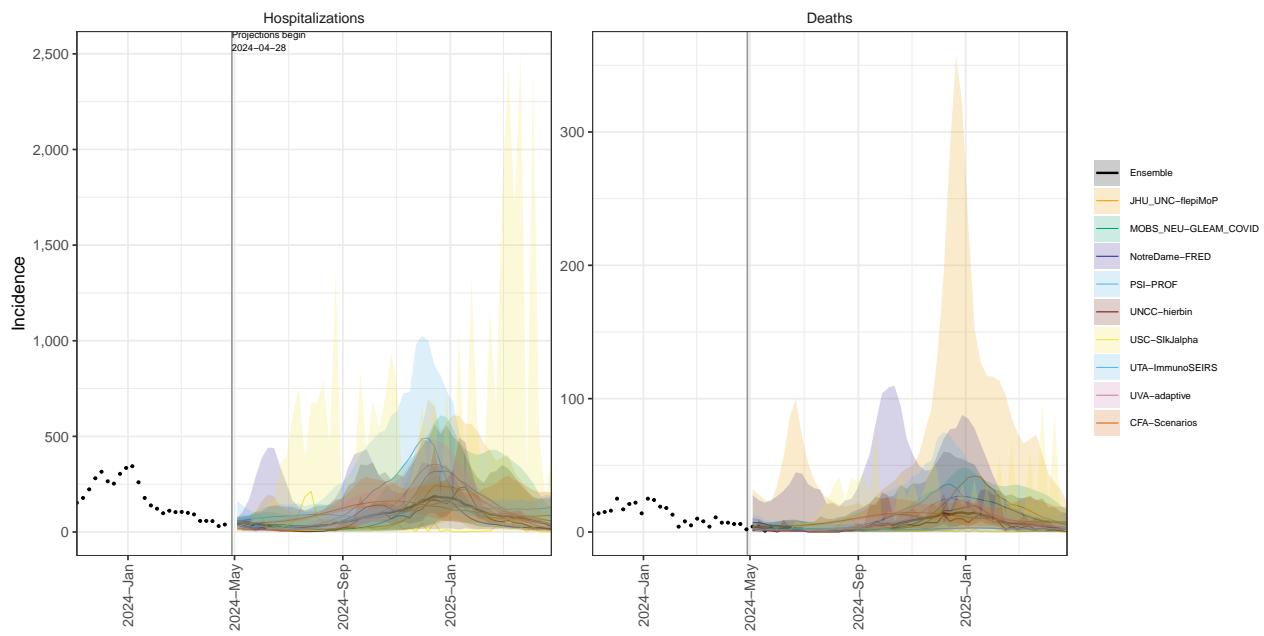
VA model variance & 95% projection intervals – No booster, Low immune escape



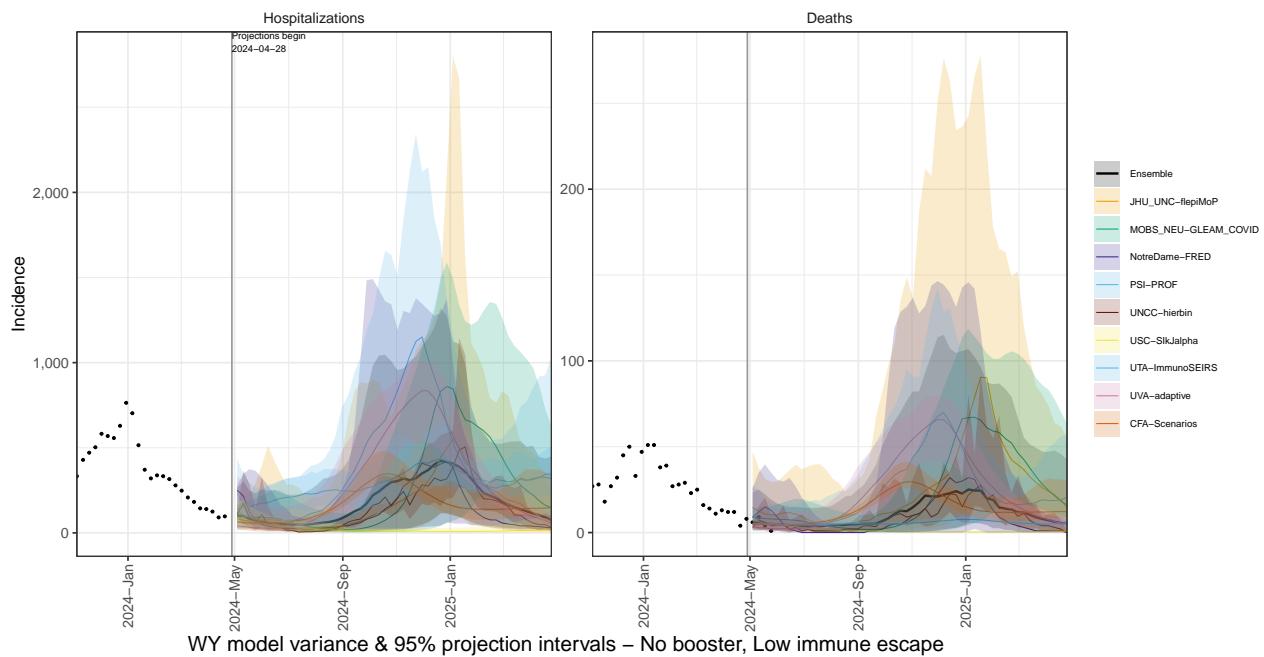
WA model variance & 95% projection intervals – No booster, Low immune escape



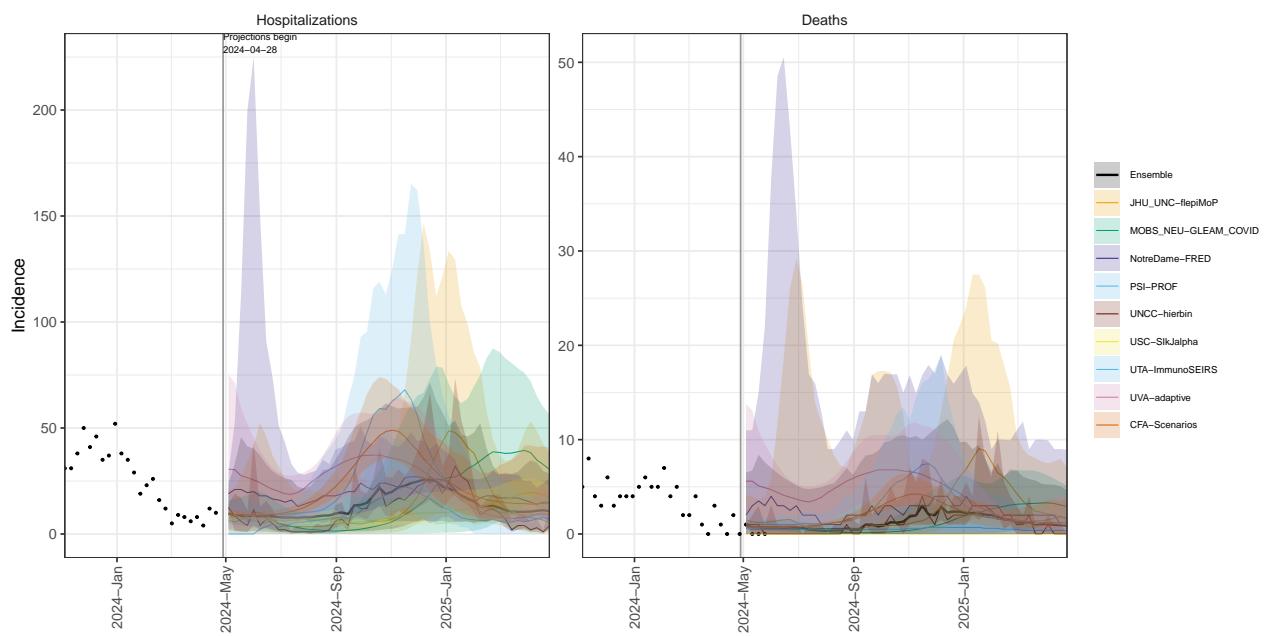
WV model variance & 95% projection intervals – No booster, Low immune escape



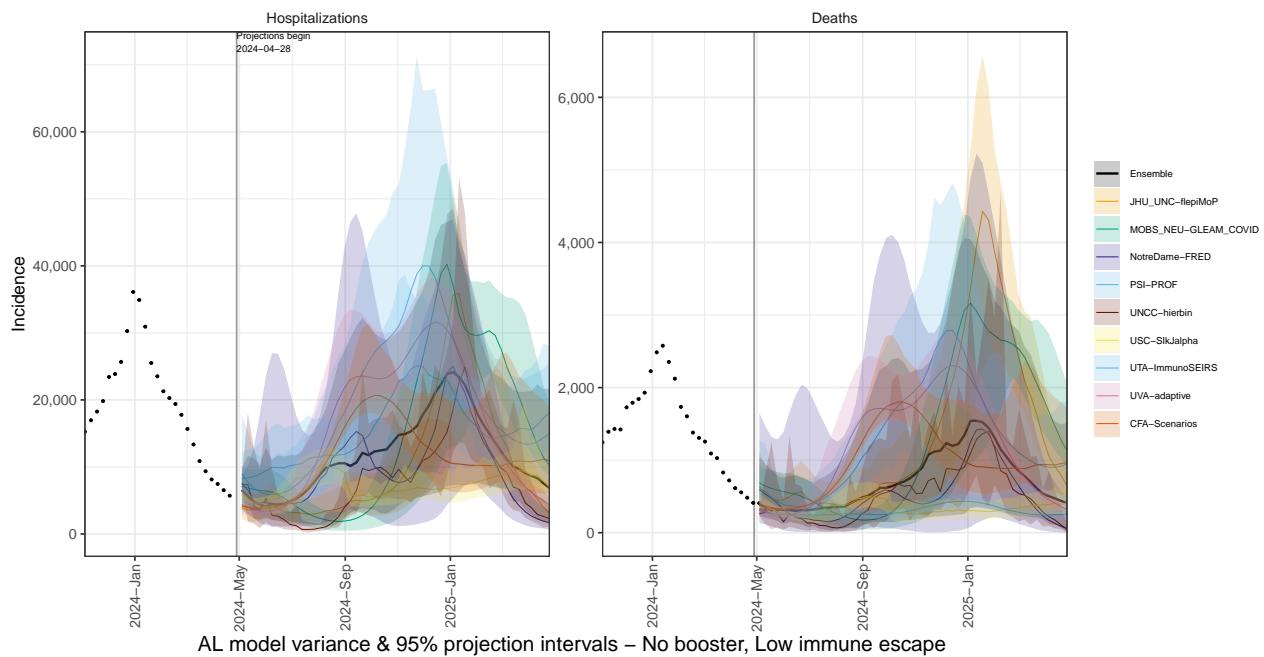
WI model variance & 95% projection intervals – No booster, Low immune escape



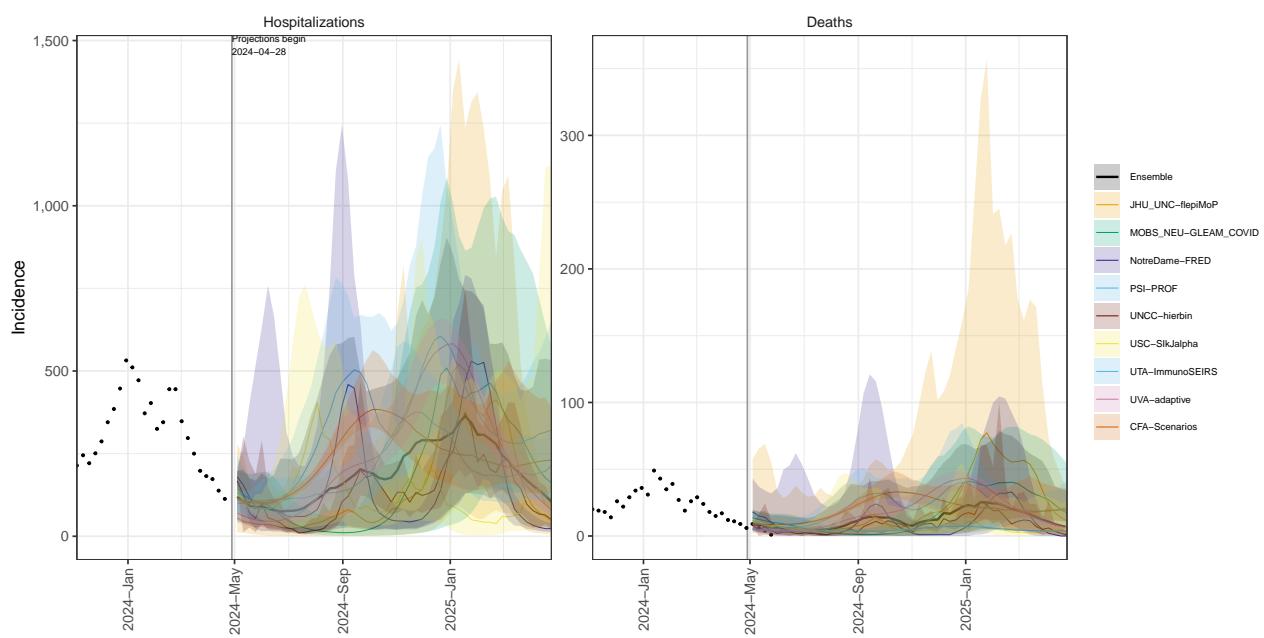
WY model variance & 95% projection intervals – No booster, Low immune escape



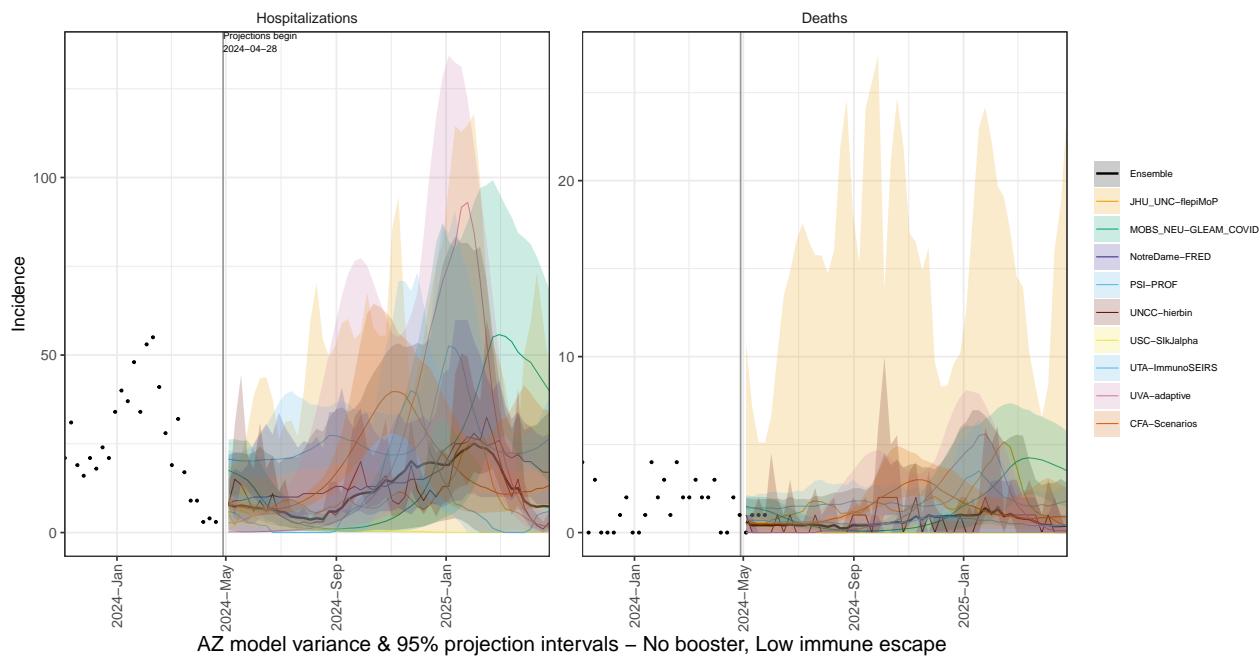
US model variance & 95% projection intervals – No booster, Low immune escape



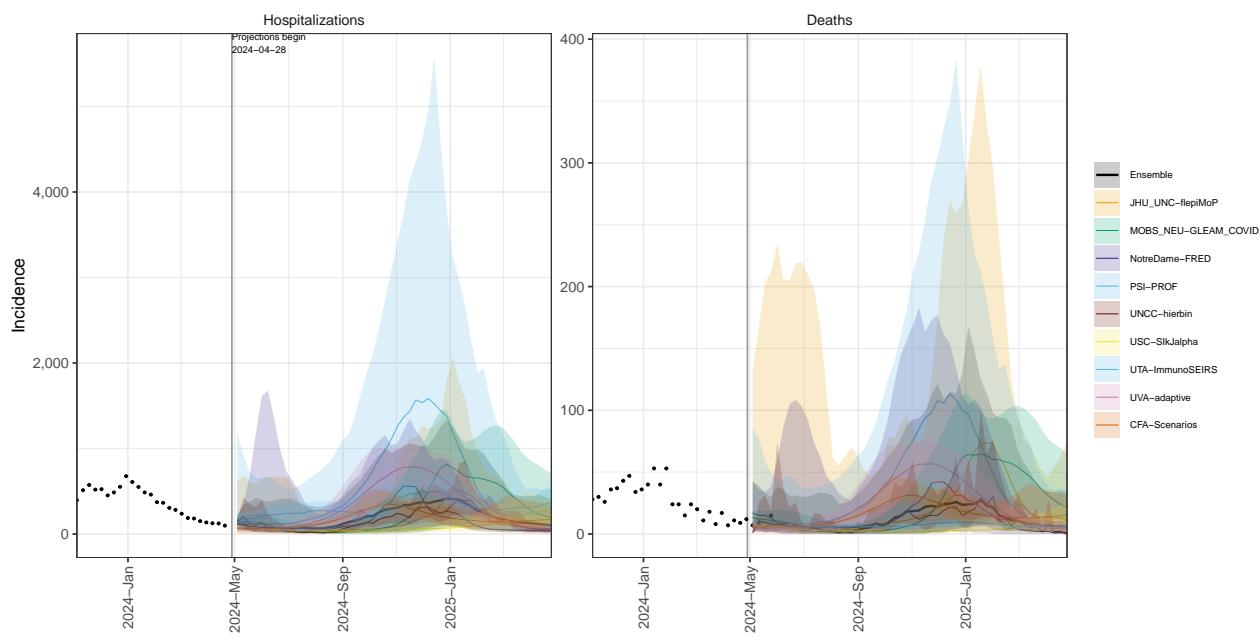
AL model variance & 95% projection intervals – No booster, Low immune escape



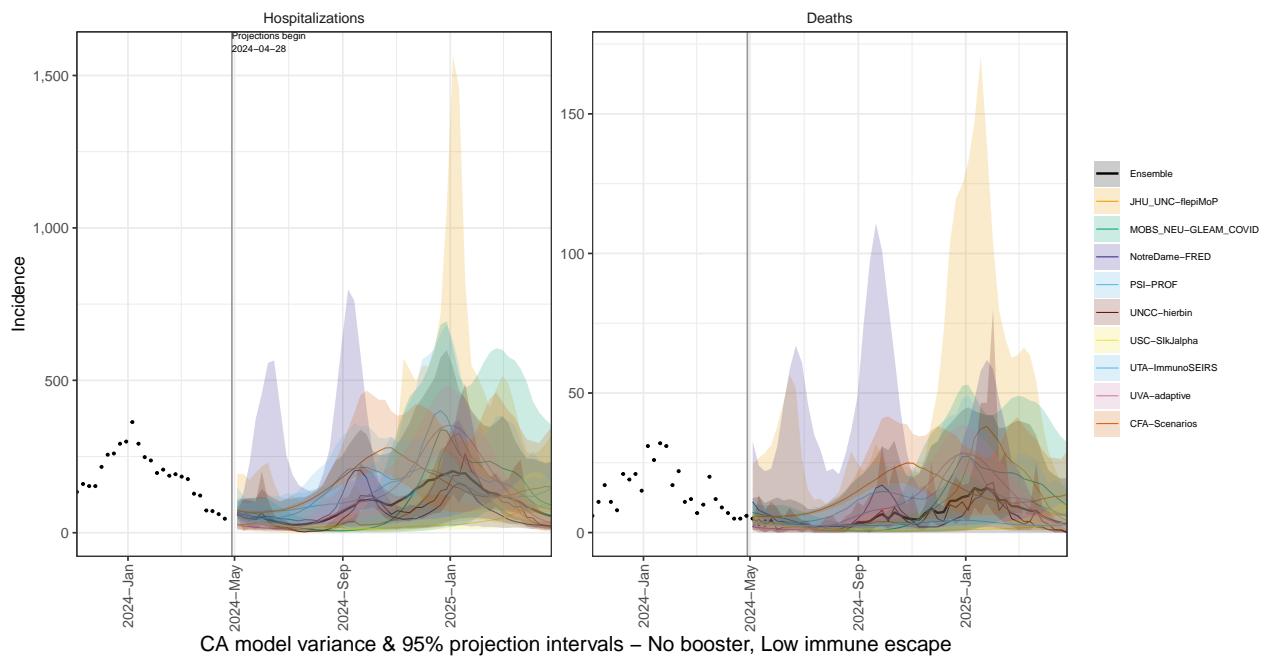
AK model variance & 95% projection intervals – No booster, Low immune escape



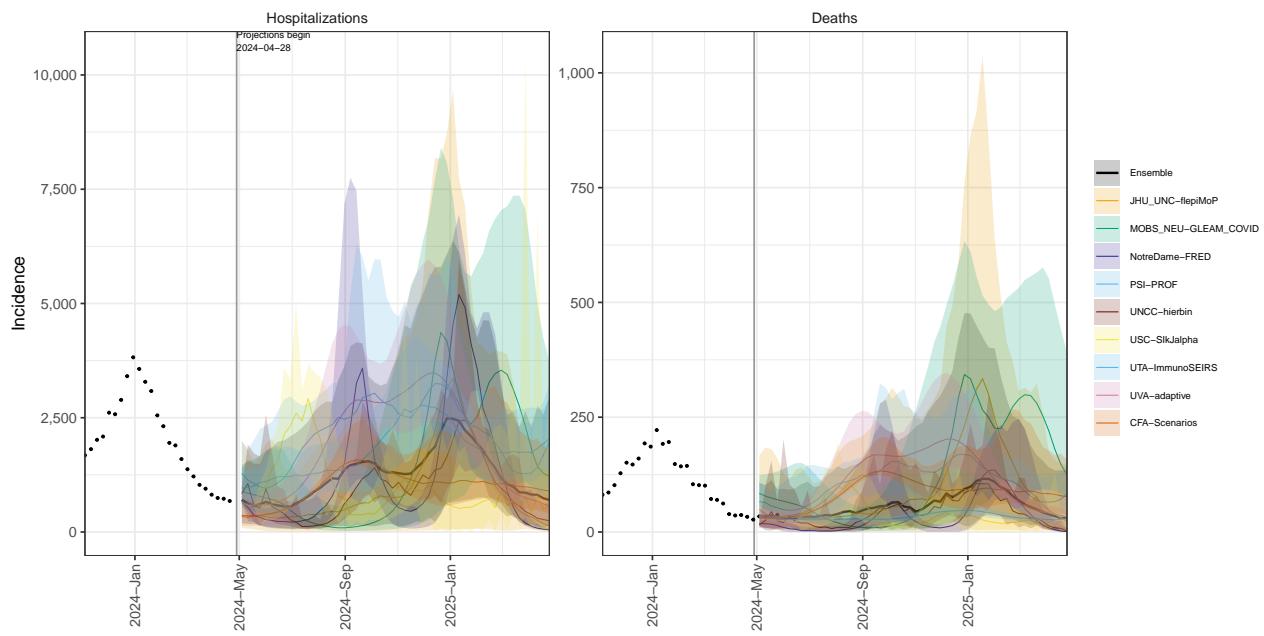
AZ model variance & 95% projection intervals – No booster, Low immune escape



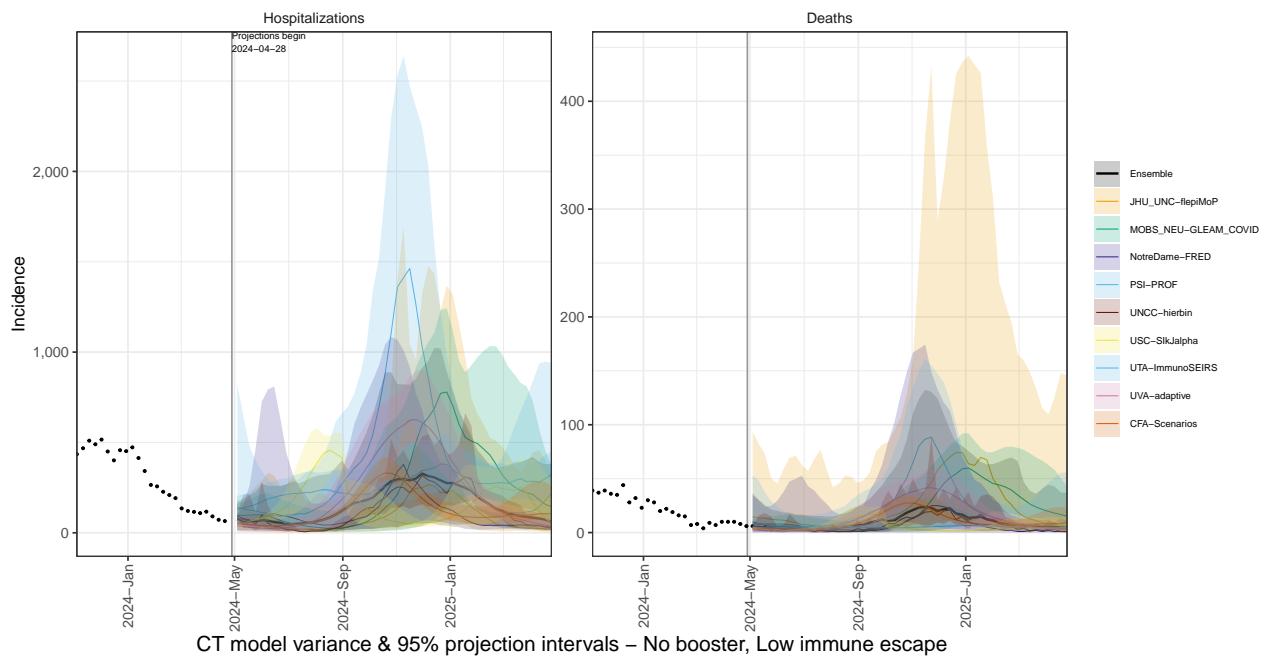
AR model variance & 95% projection intervals – No booster, Low immune escape



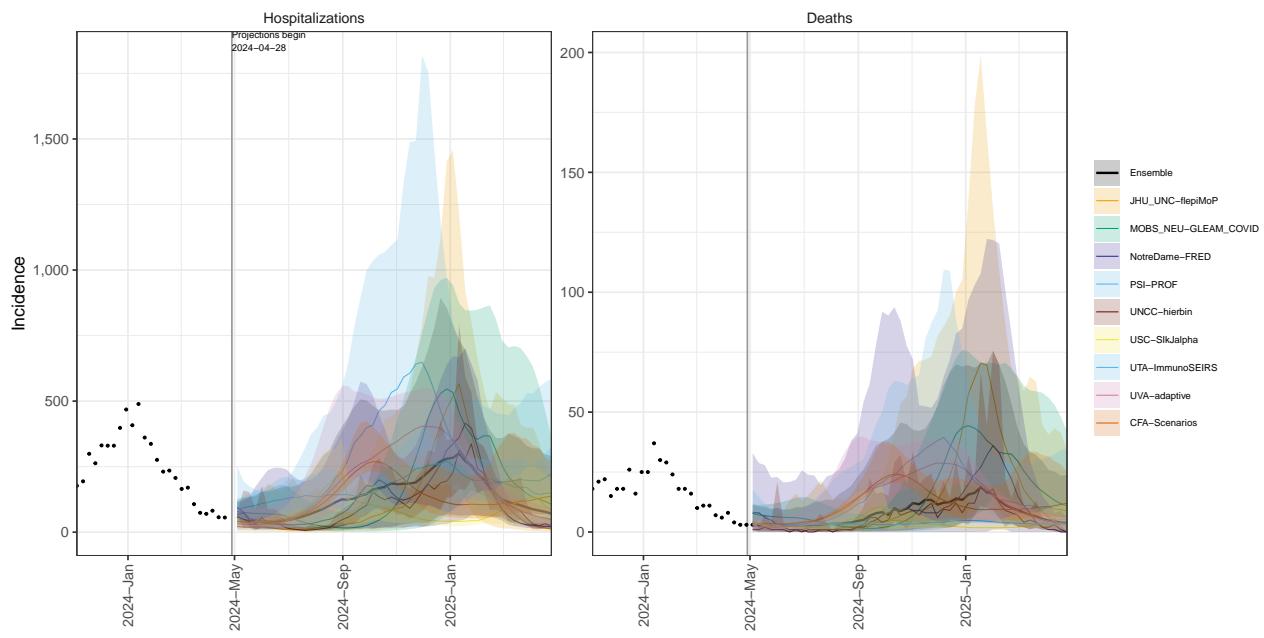
CA model variance & 95% projection intervals – No booster, Low immune escape



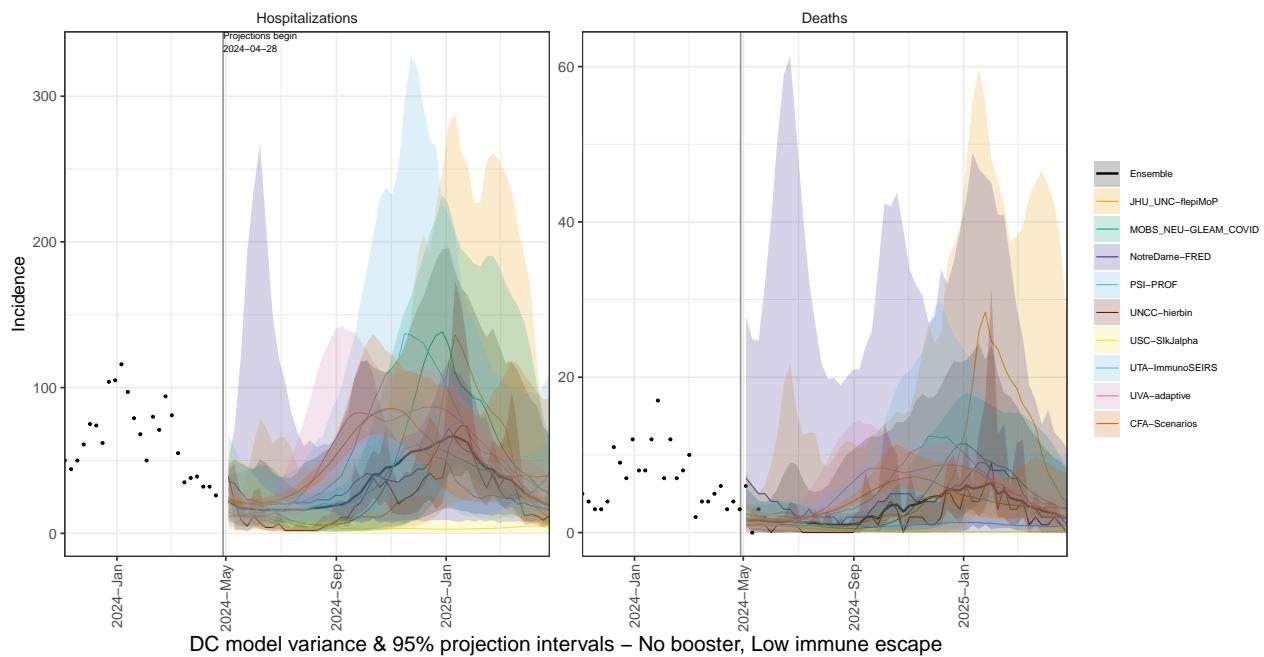
CO model variance & 95% projection intervals – No booster, Low immune escape



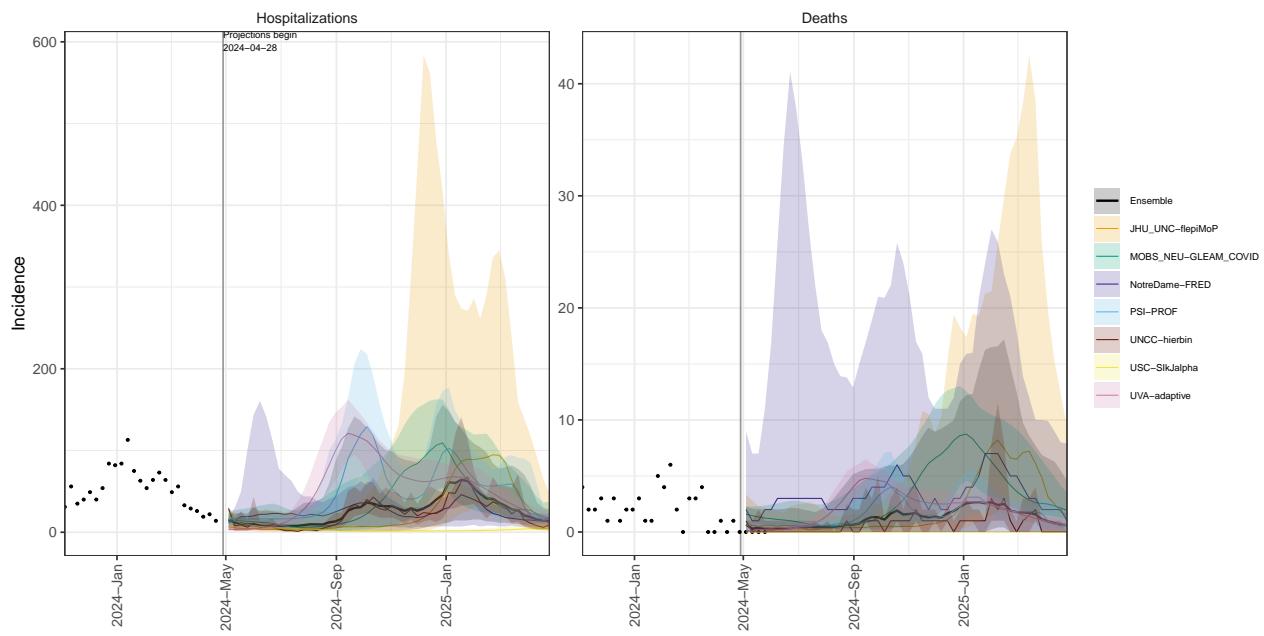
CT model variance & 95% projection intervals – No booster, Low immune escape



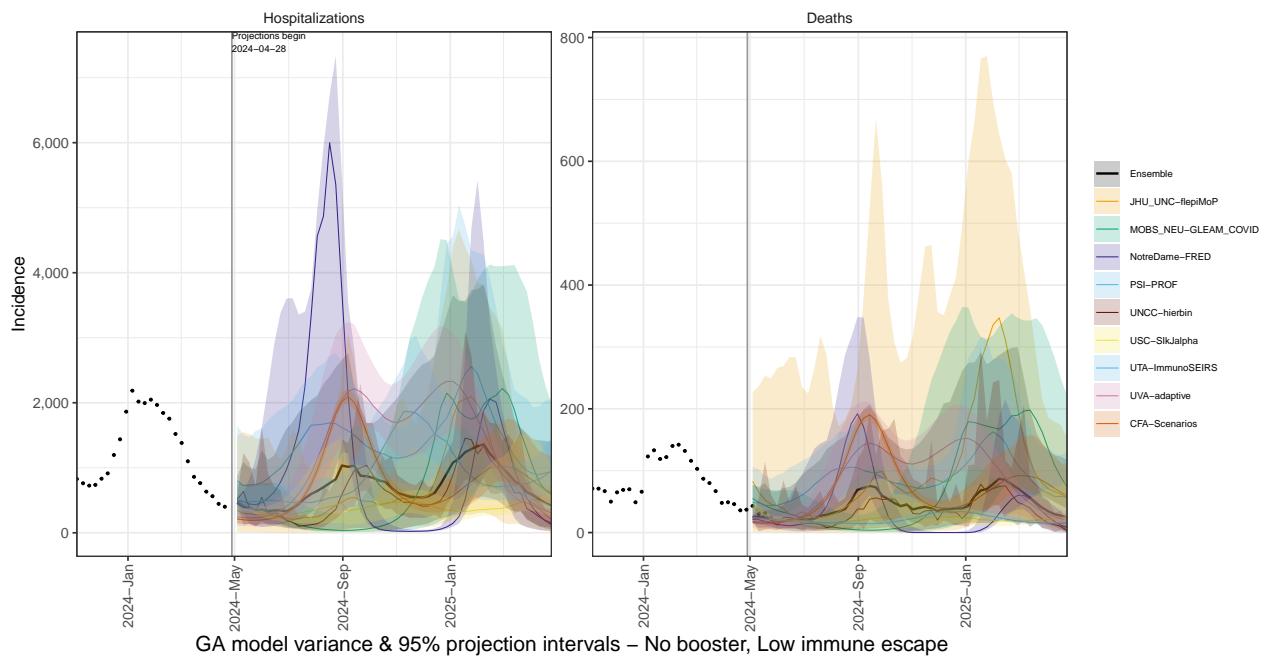
DE model variance & 95% projection intervals – No booster, Low immune escape



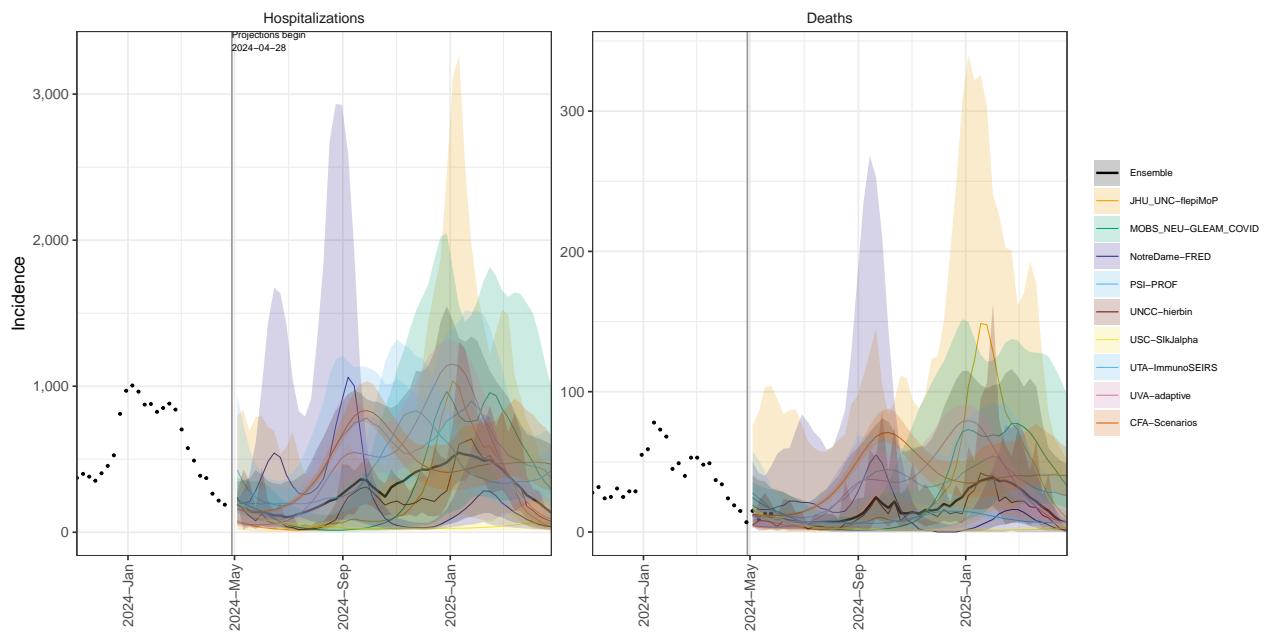
DC model variance & 95% projection intervals – No booster, Low immune escape



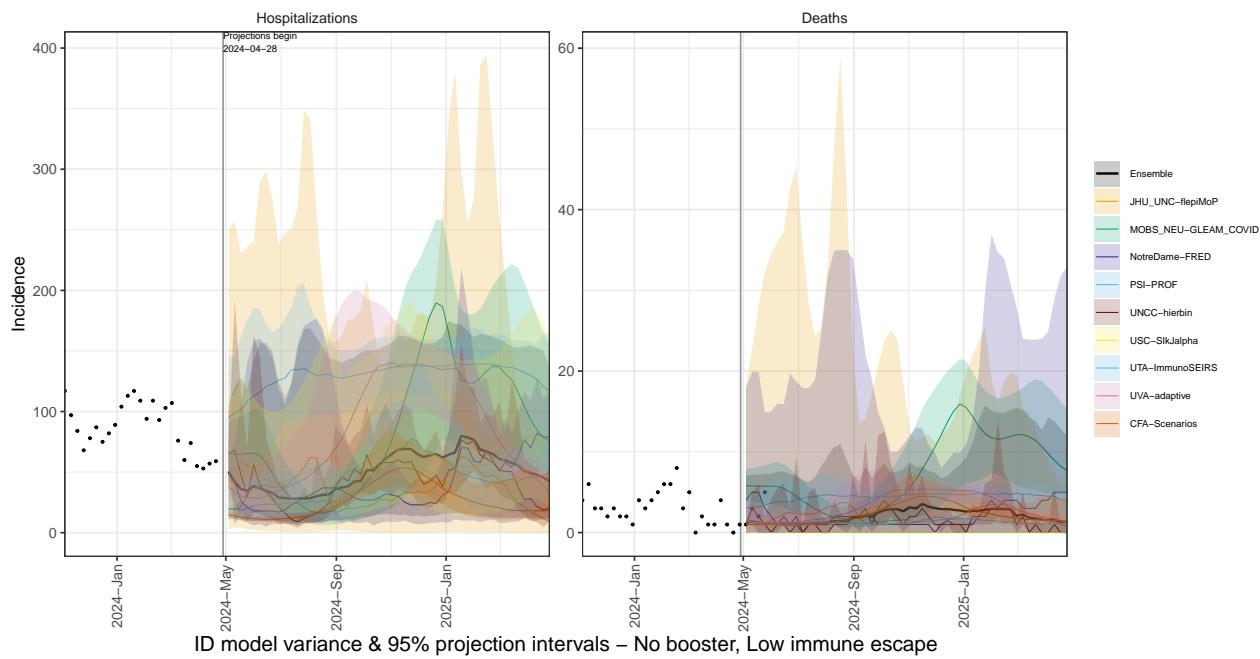
FL model variance & 95% projection intervals – No booster, Low immune escape



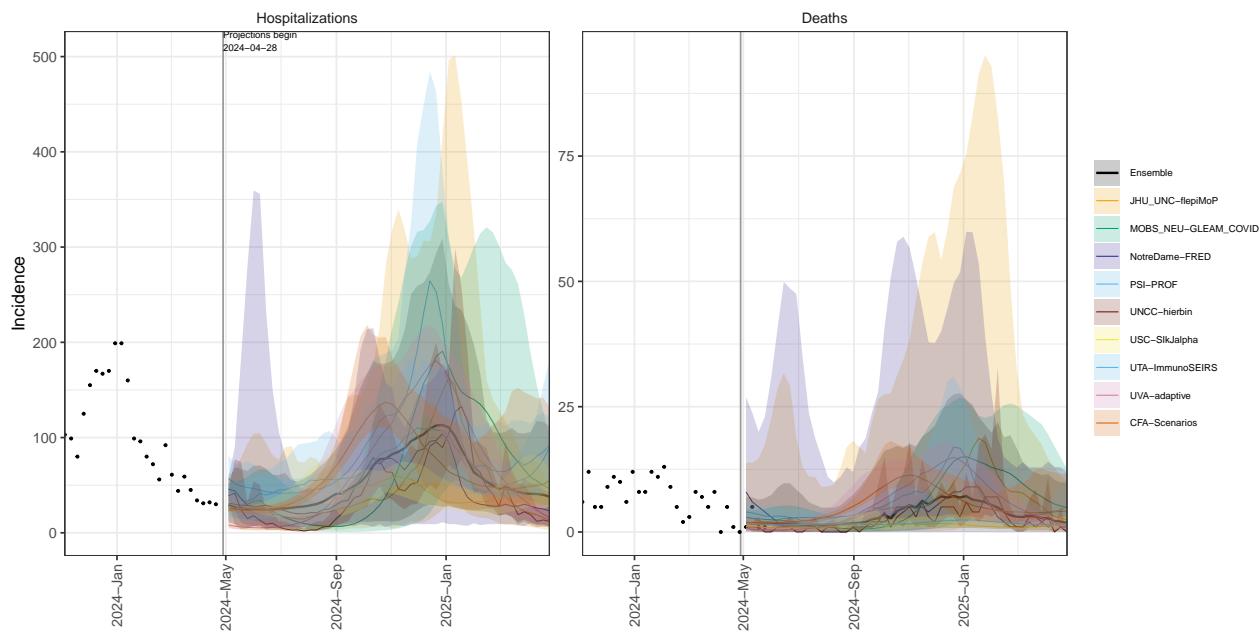
GA model variance & 95% projection intervals – No booster, Low immune escape



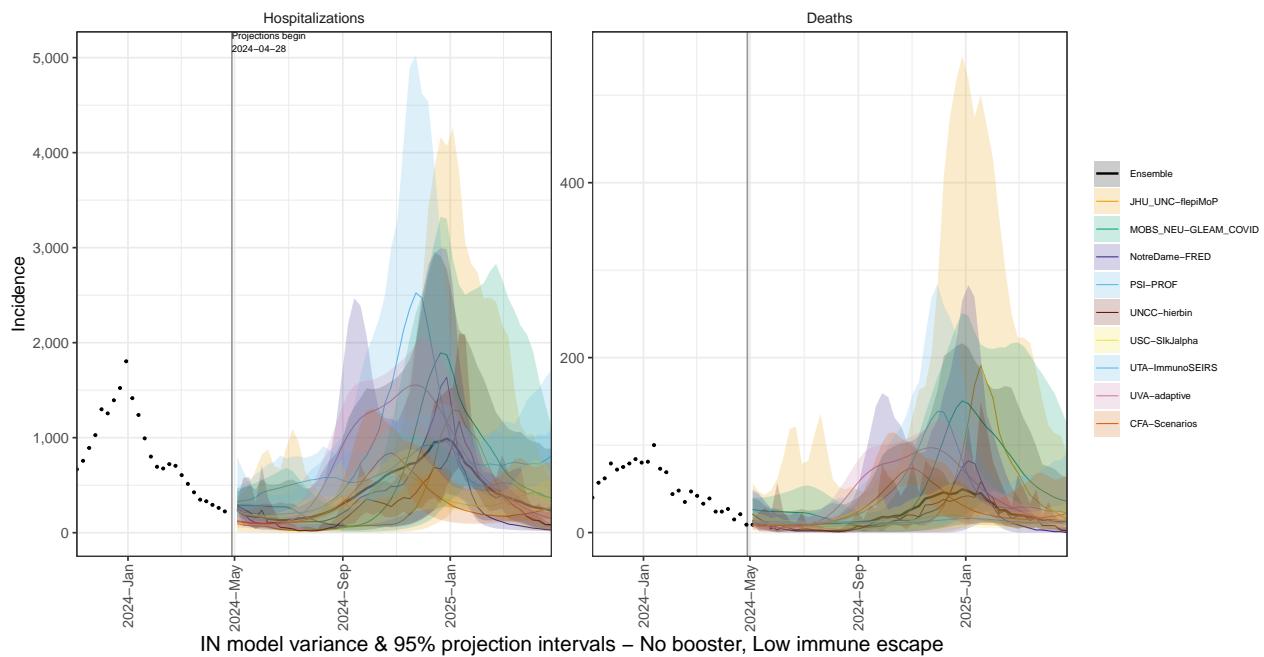
HI model variance & 95% projection intervals – No booster, Low immune escape



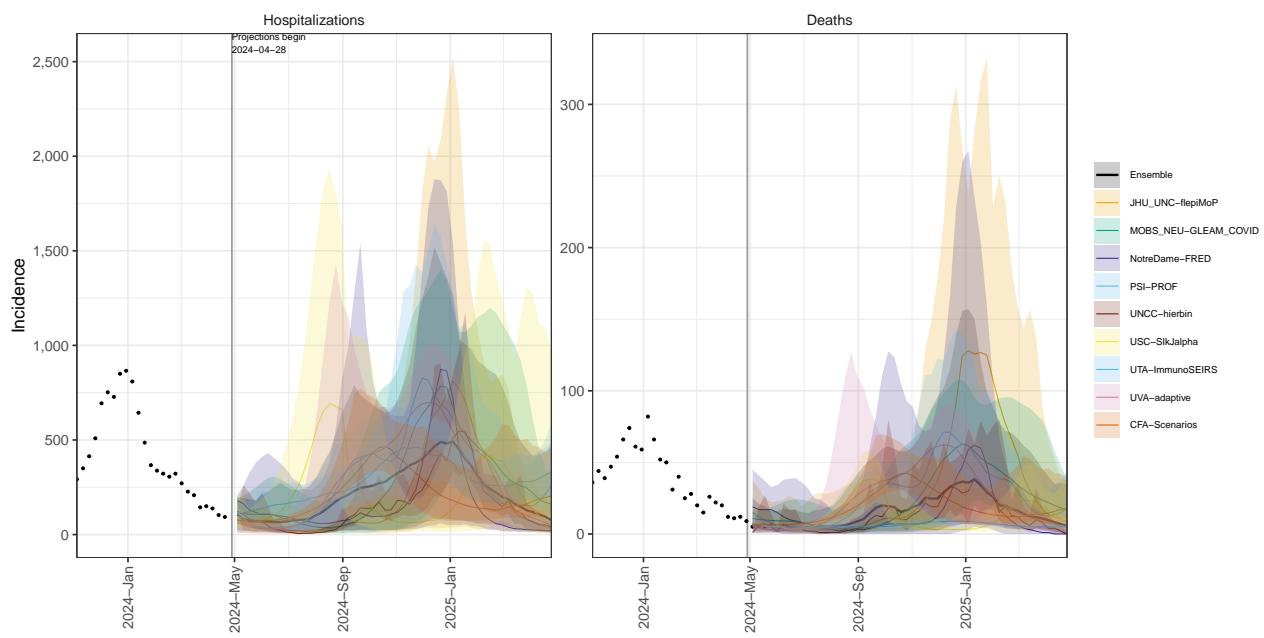
ID model variance & 95% projection intervals – No booster, Low immune escape



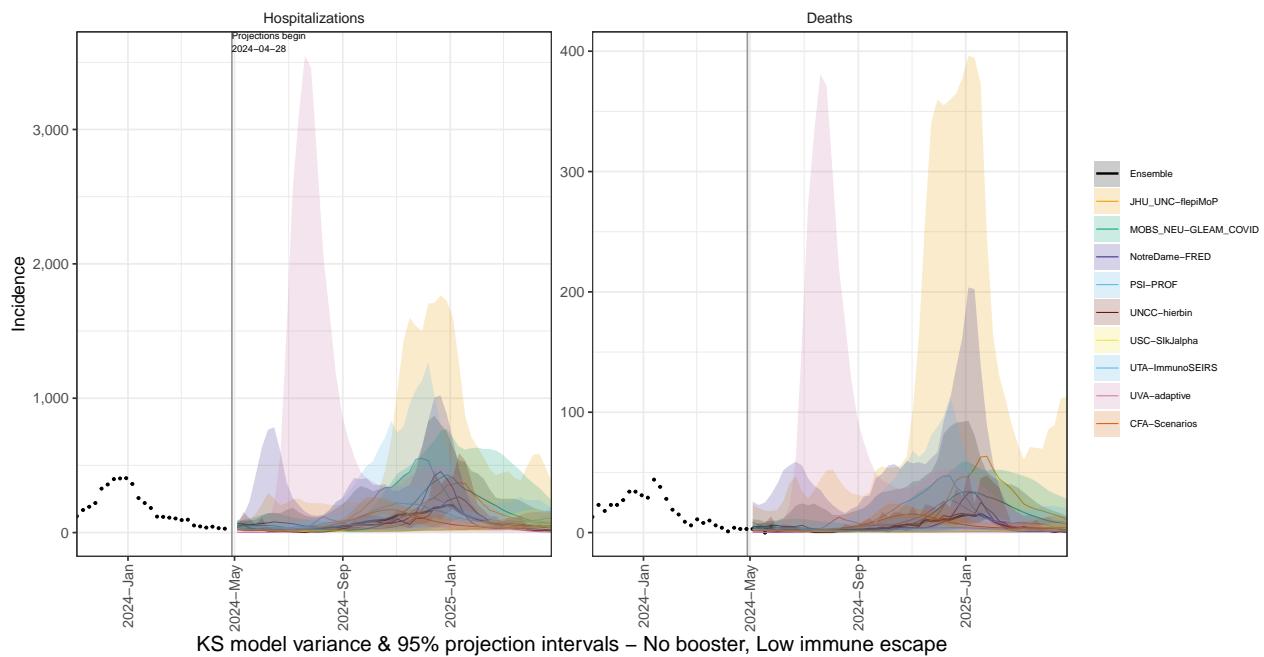
IL model variance & 95% projection intervals – No booster, Low immune escape



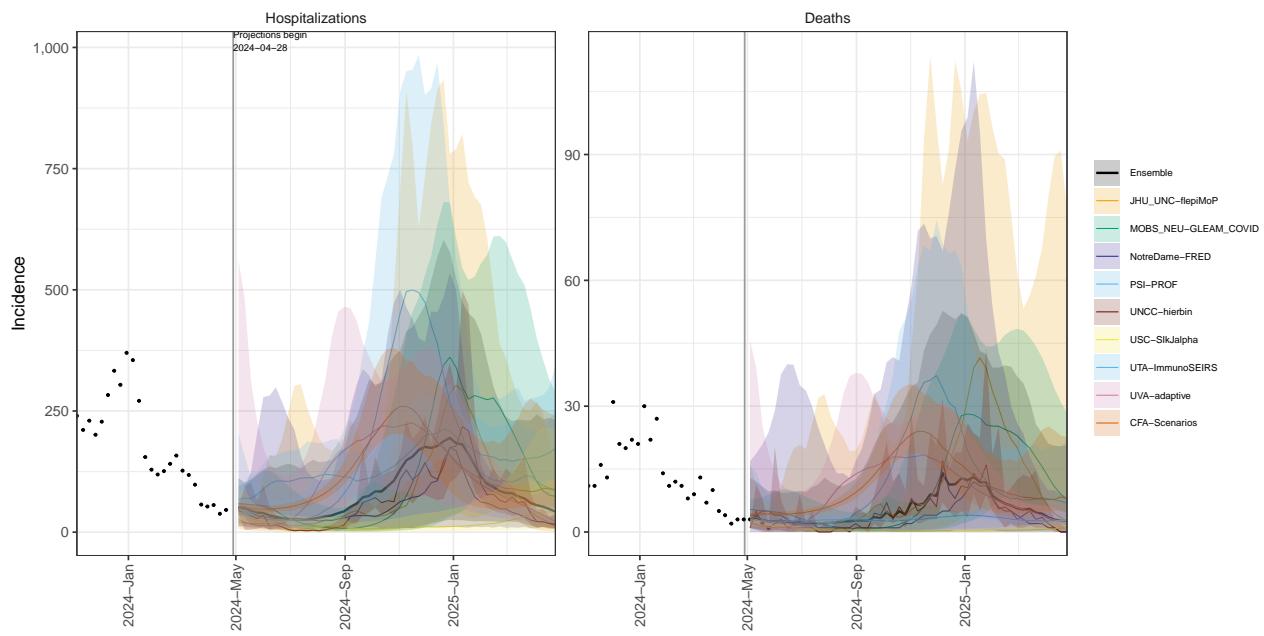
IN model variance & 95% projection intervals – No booster, Low immune escape



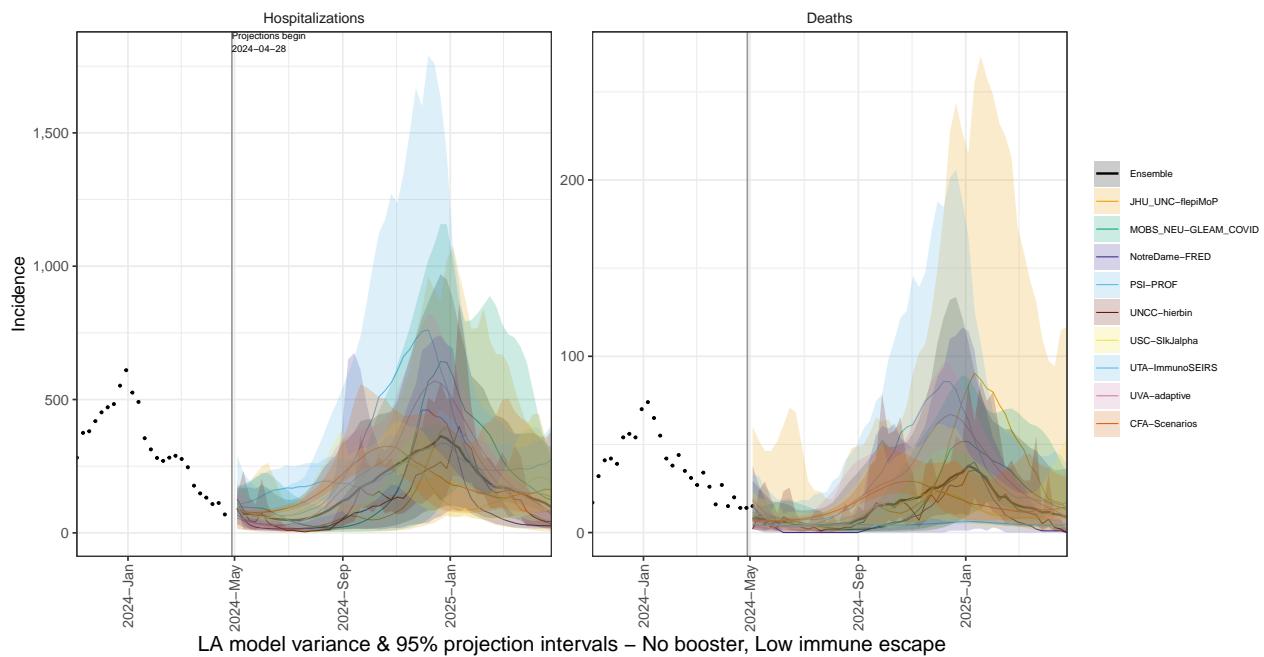
IA model variance & 95% projection intervals – No booster, Low immune escape



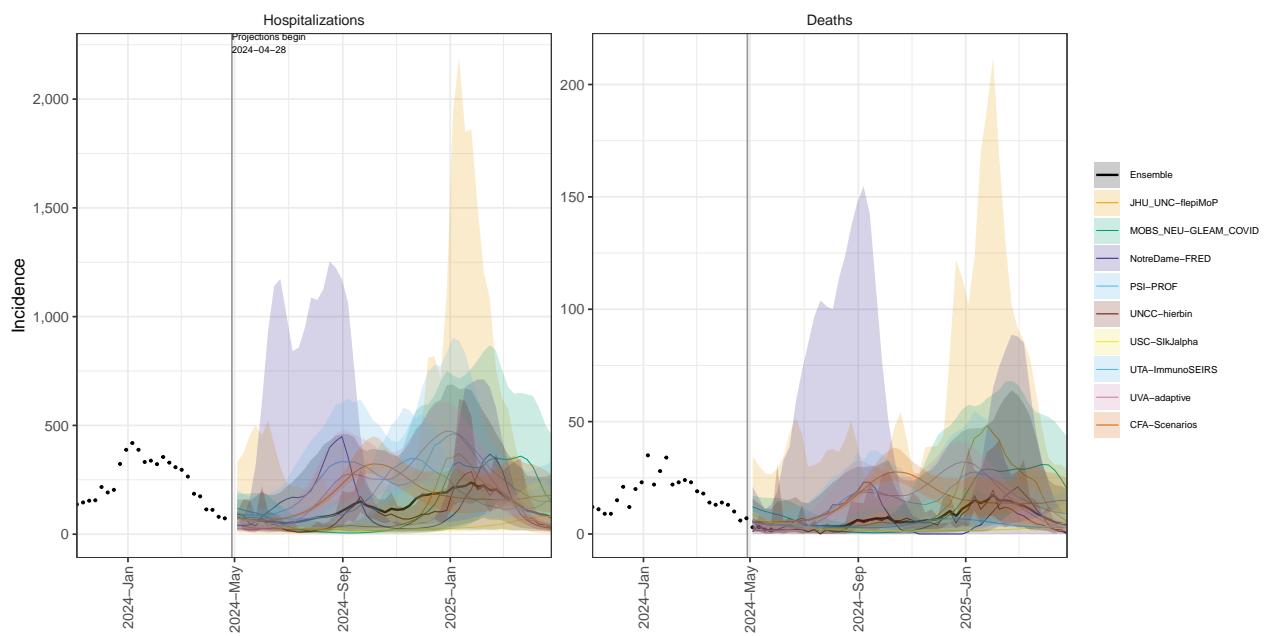
KS model variance & 95% projection intervals – No booster, Low immune escape



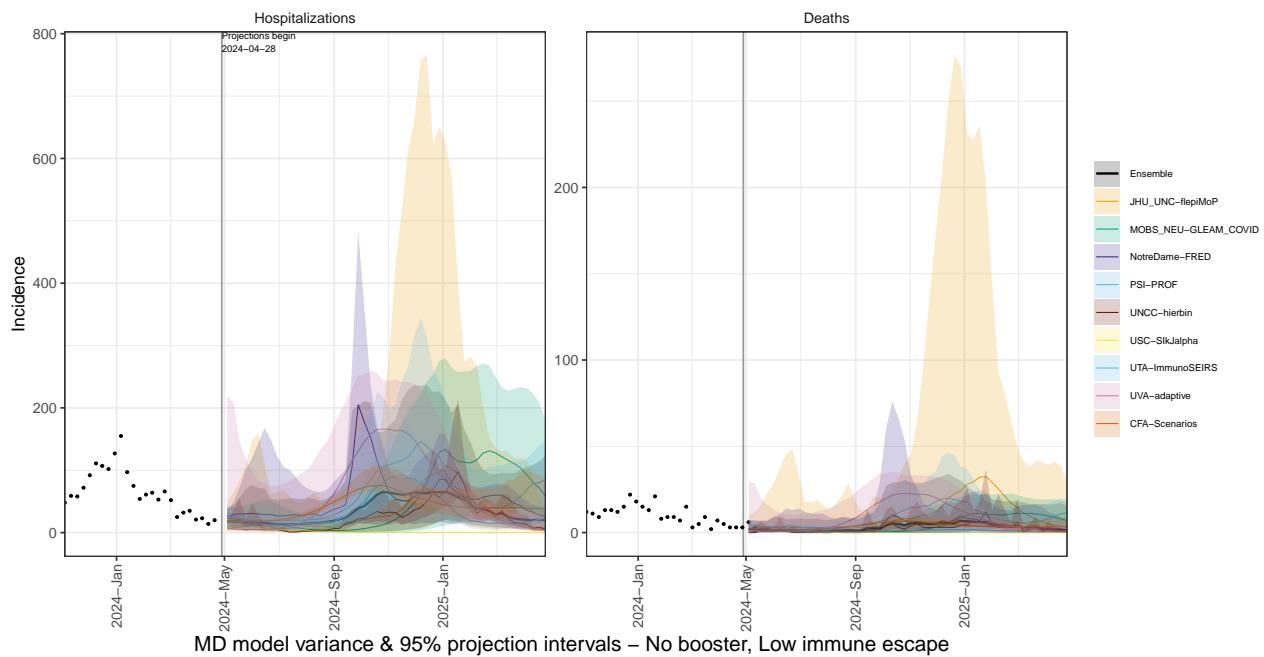
KY model variance & 95% projection intervals – No booster, Low immune escape



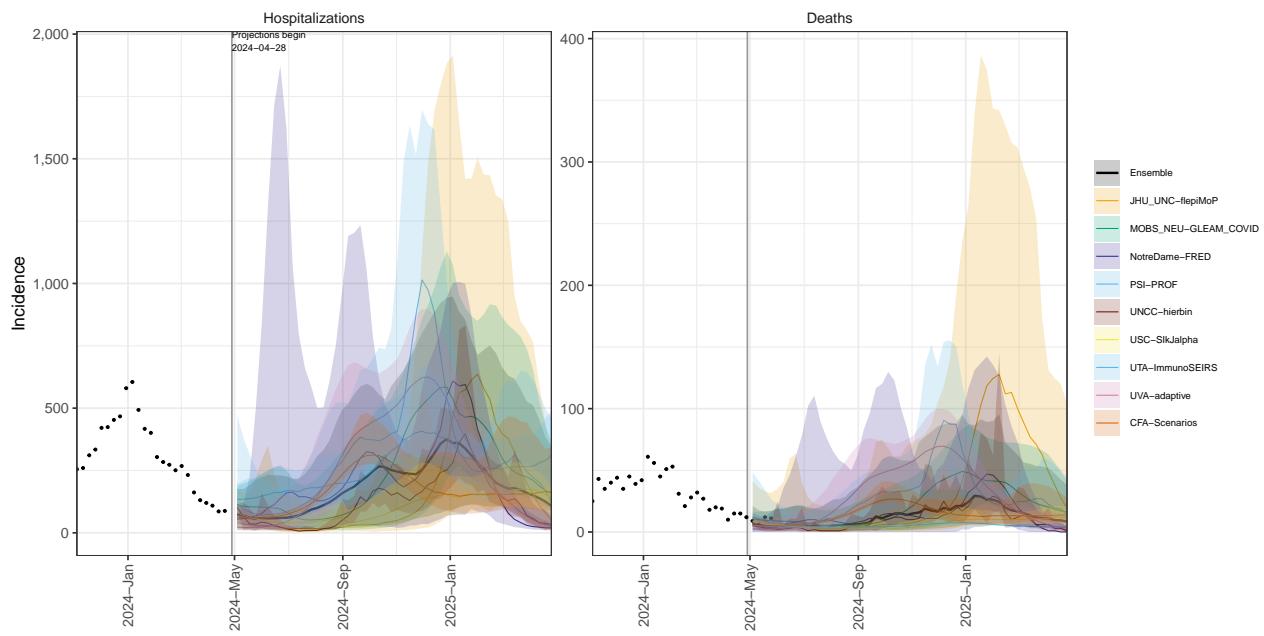
LA model variance & 95% projection intervals – No booster, Low immune escape



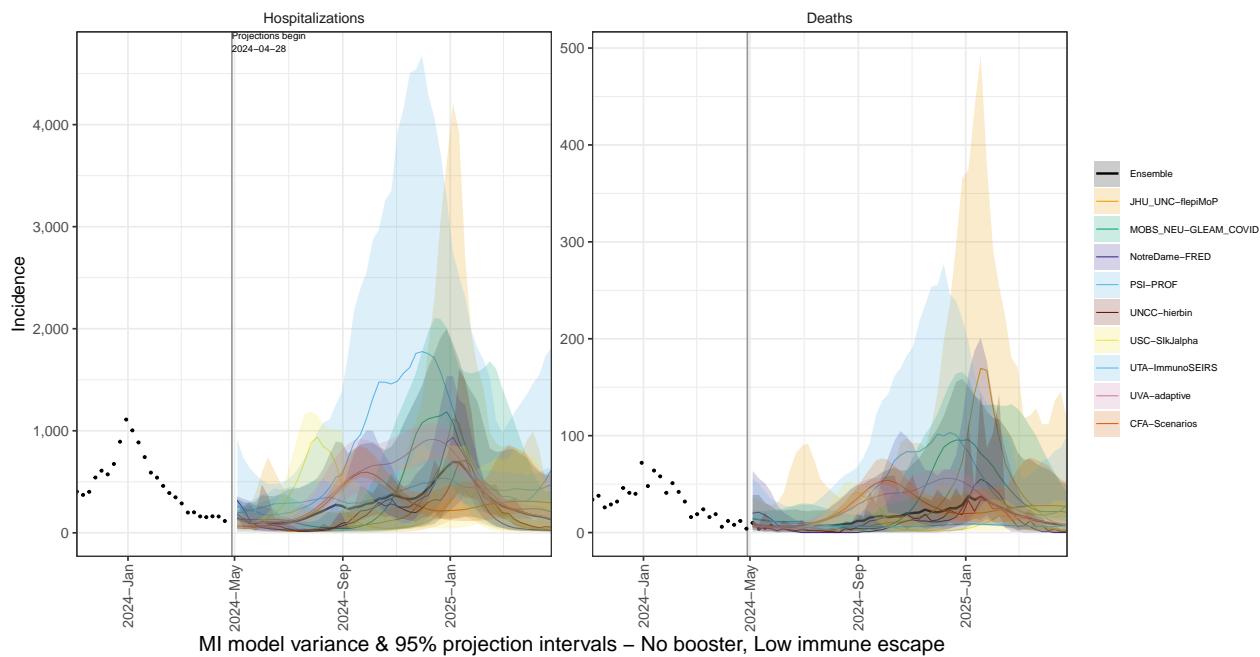
ME model variance & 95% projection intervals – No booster, Low immune escape



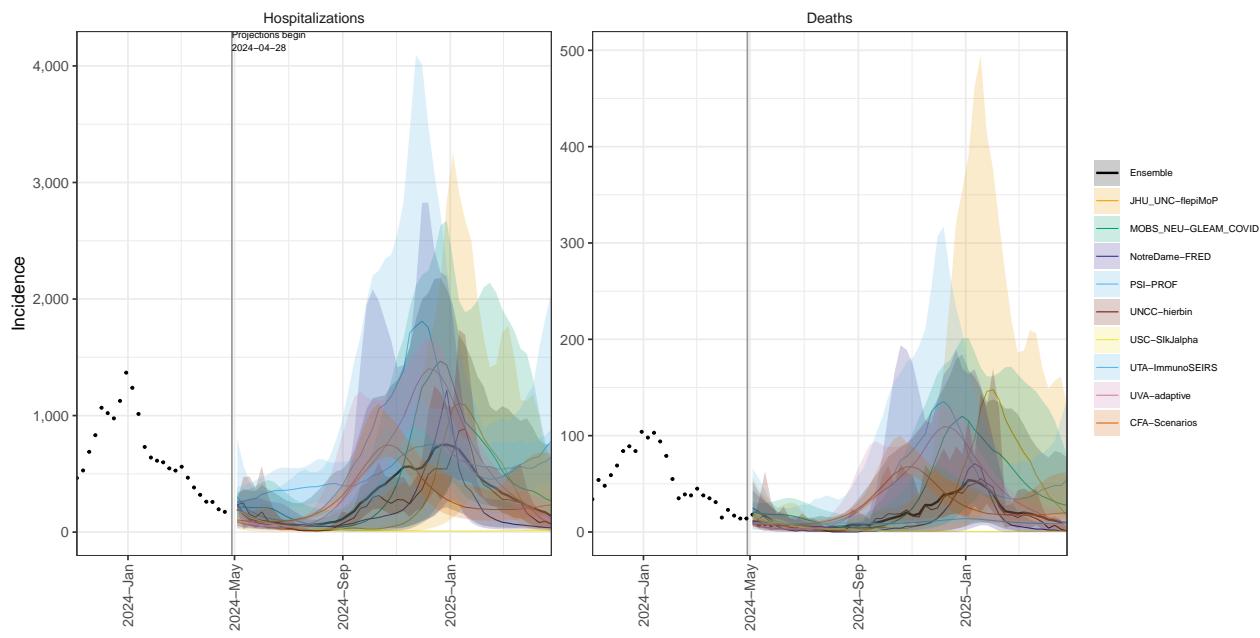
MD model variance & 95% projection intervals – No booster, Low immune escape



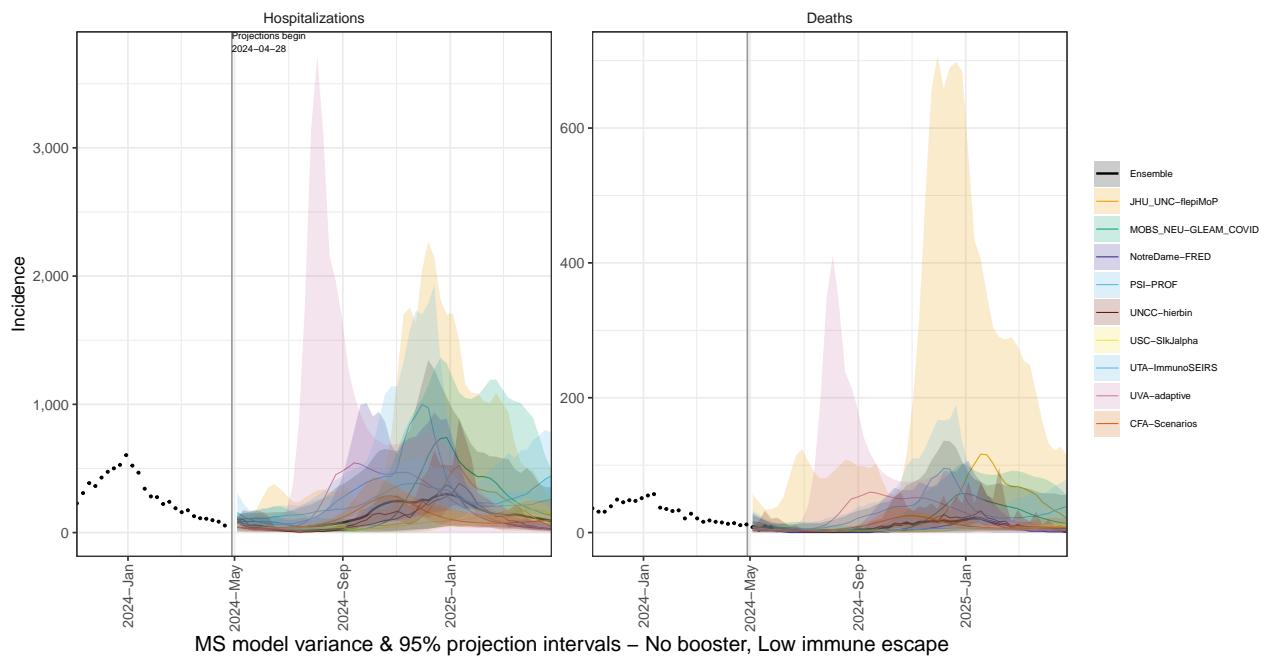
MA model variance & 95% projection intervals – No booster, Low immune escape



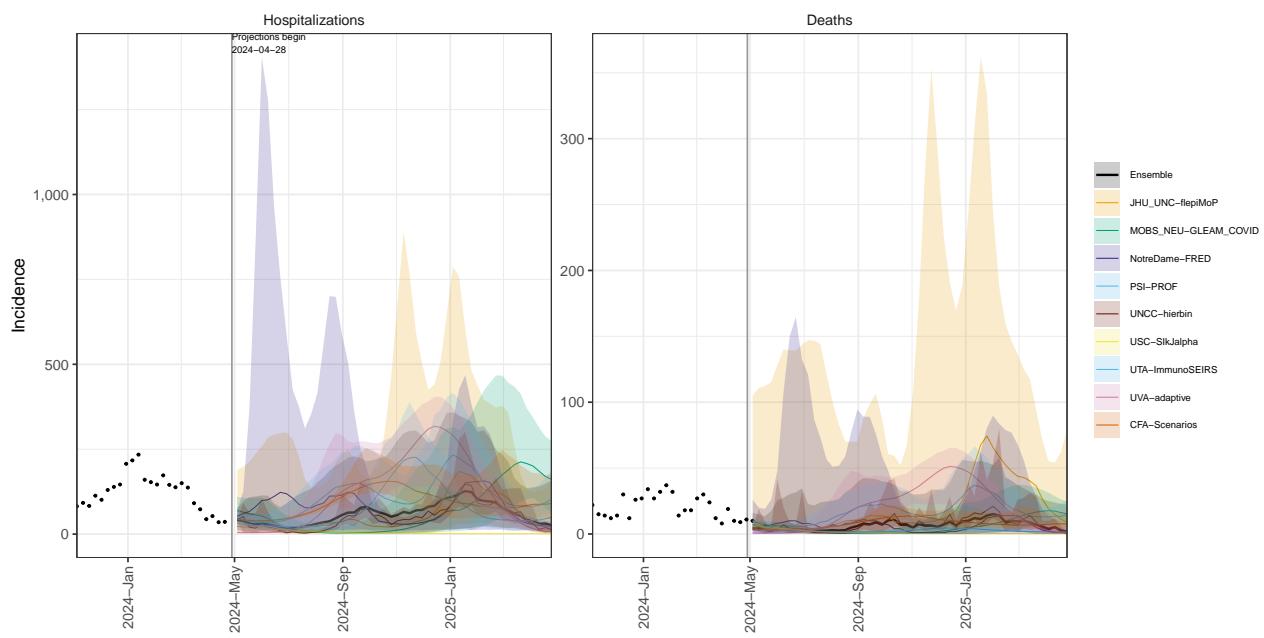
MI model variance & 95% projection intervals – No booster, Low immune escape



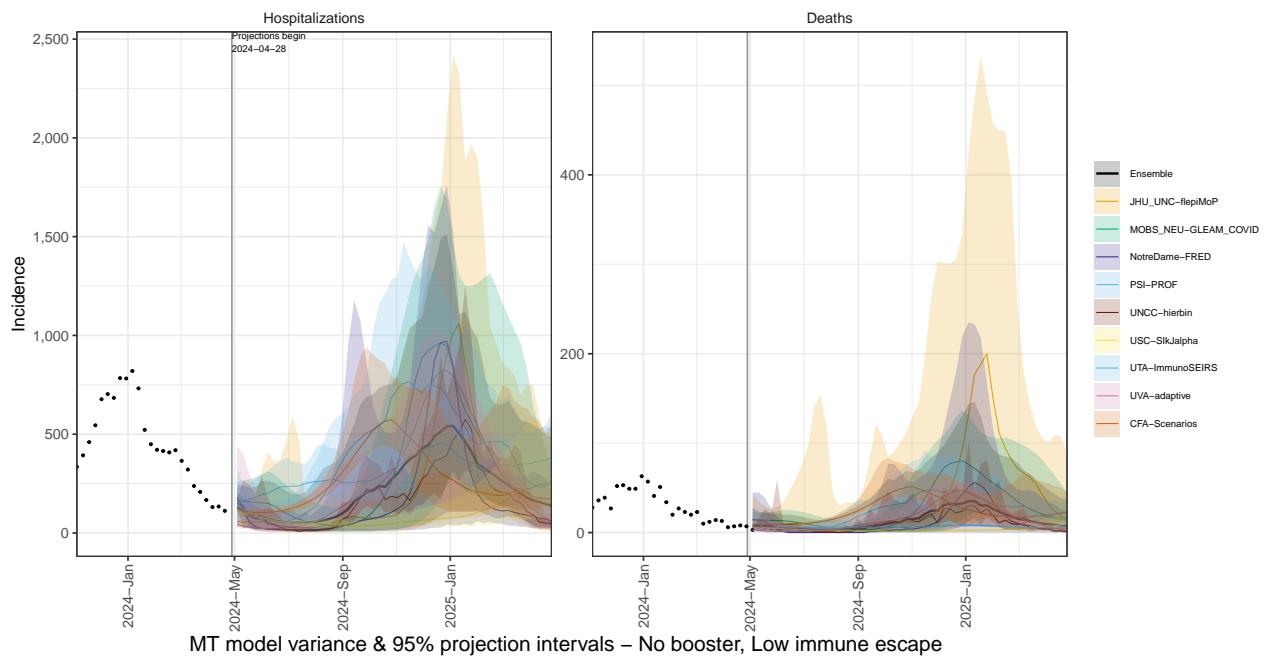
MN model variance & 95% projection intervals – No booster, Low immune escape



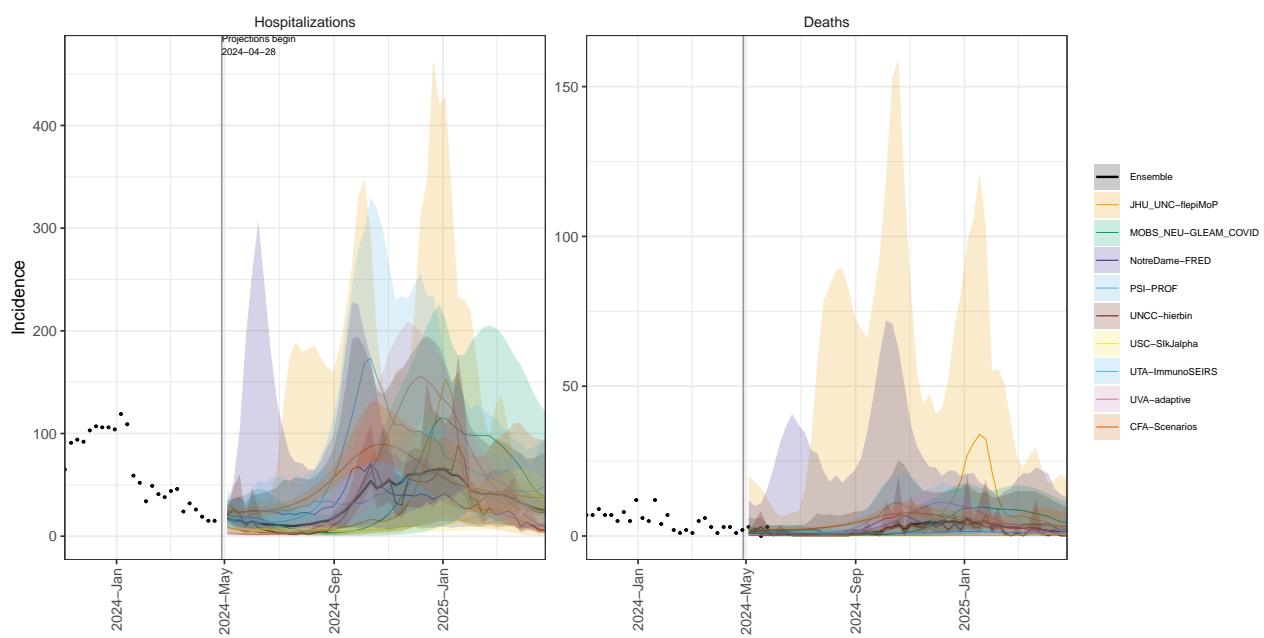
MS model variance & 95% projection intervals – No booster, Low immune escape



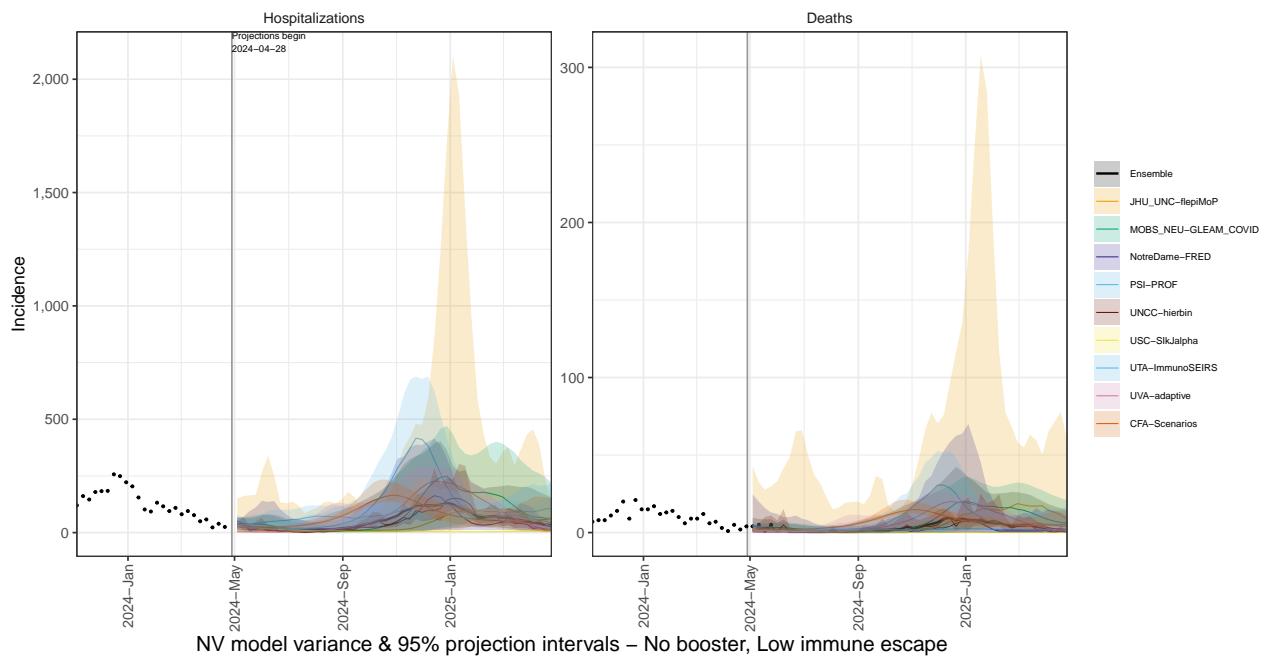
MO model variance & 95% projection intervals – No booster, Low immune escape



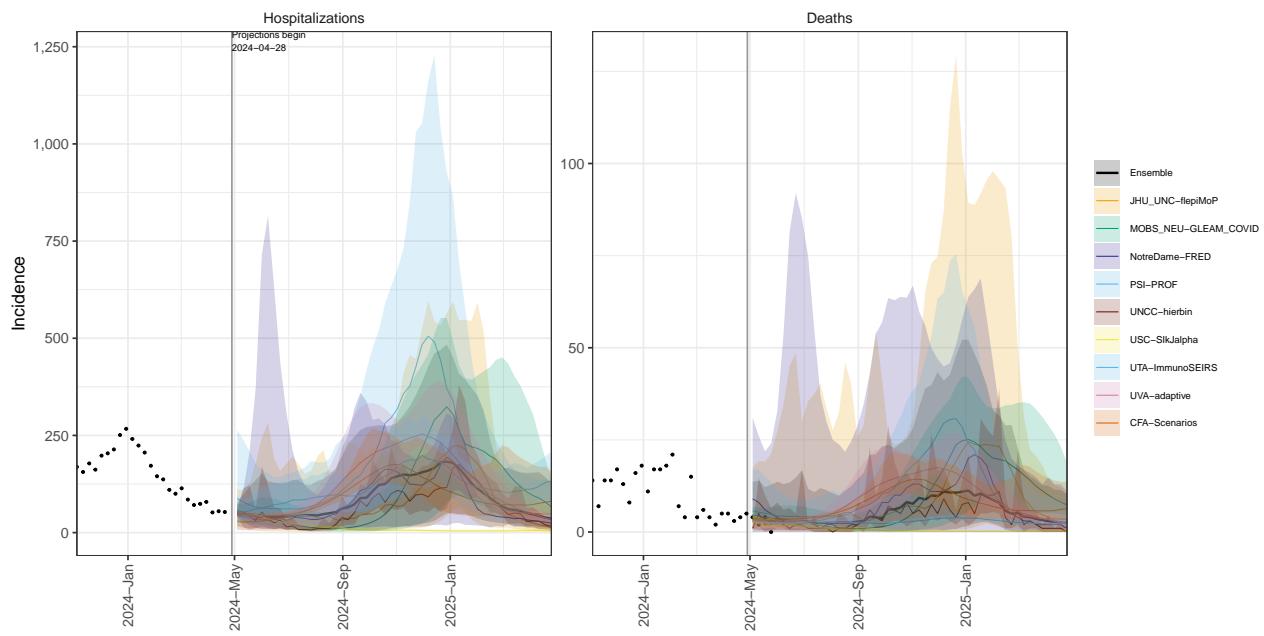
MT model variance & 95% projection intervals – No booster, Low immune escape



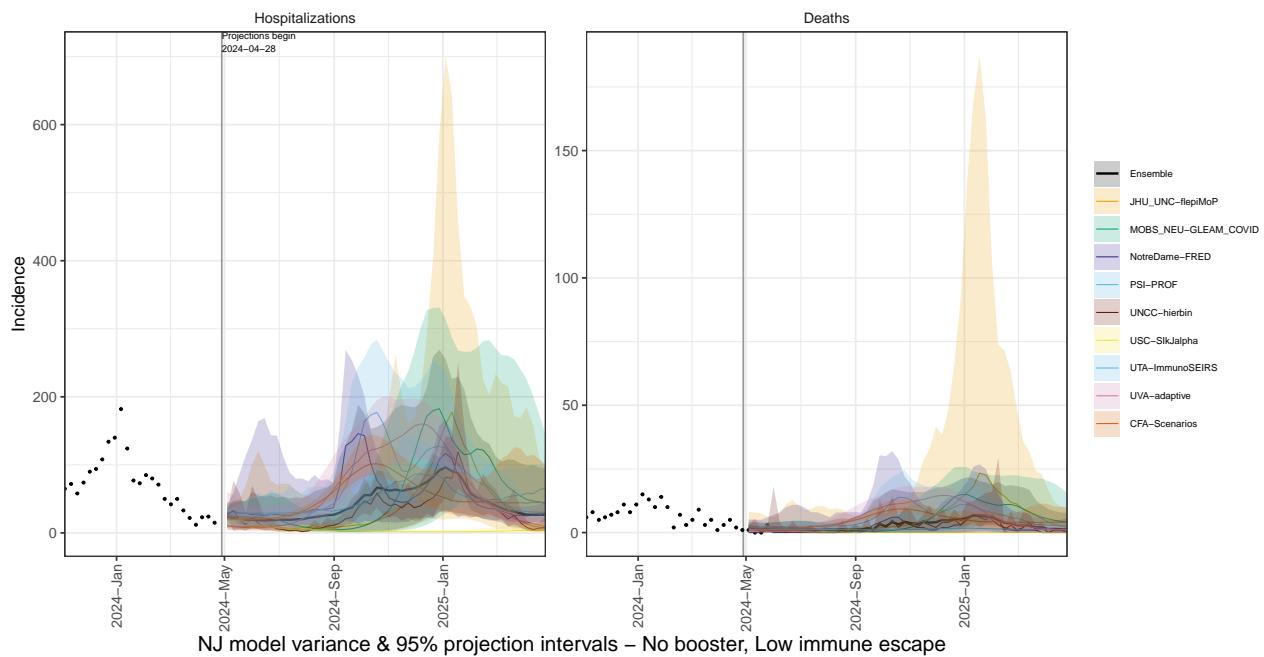
NE model variance & 95% projection intervals – No booster, Low immune escape



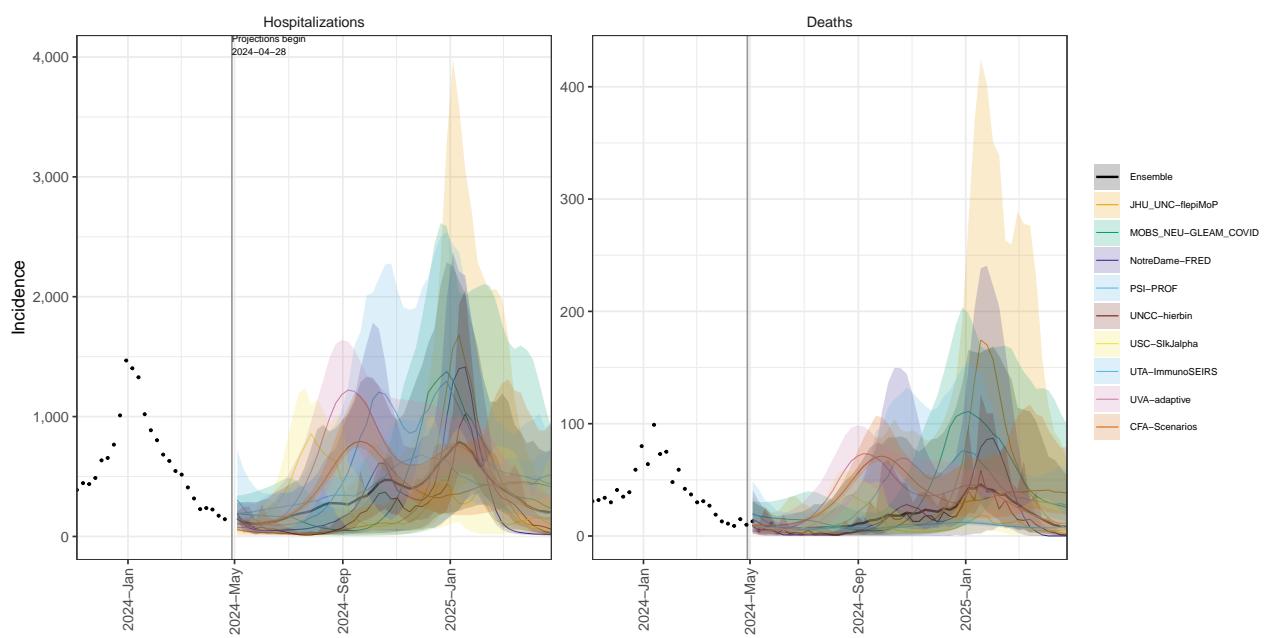
NV model variance & 95% projection intervals – No booster, Low immune escape



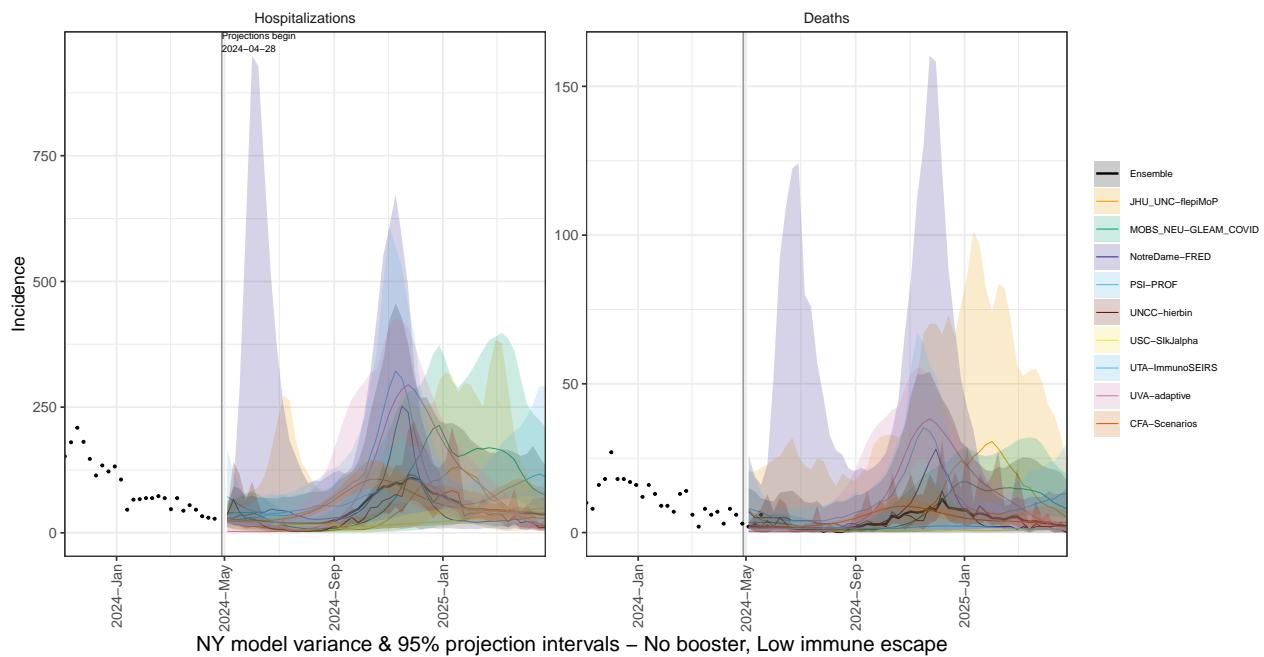
NH model variance & 95% projection intervals – No booster, Low immune escape



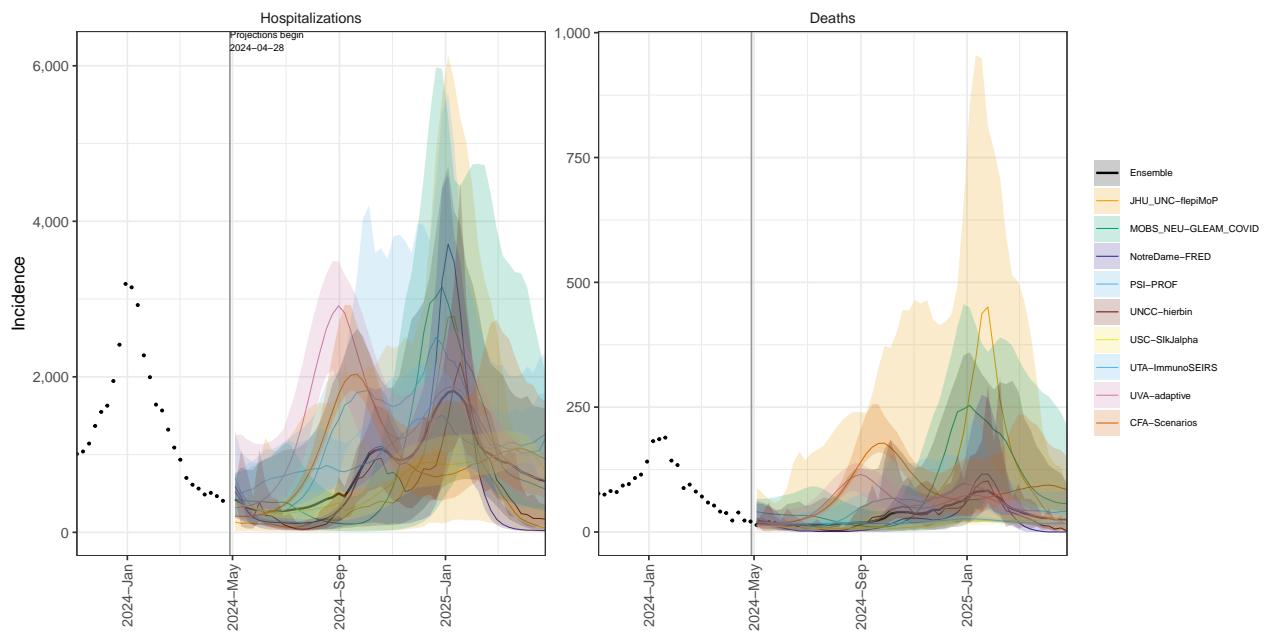
NJ model variance & 95% projection intervals – No booster, Low immune escape



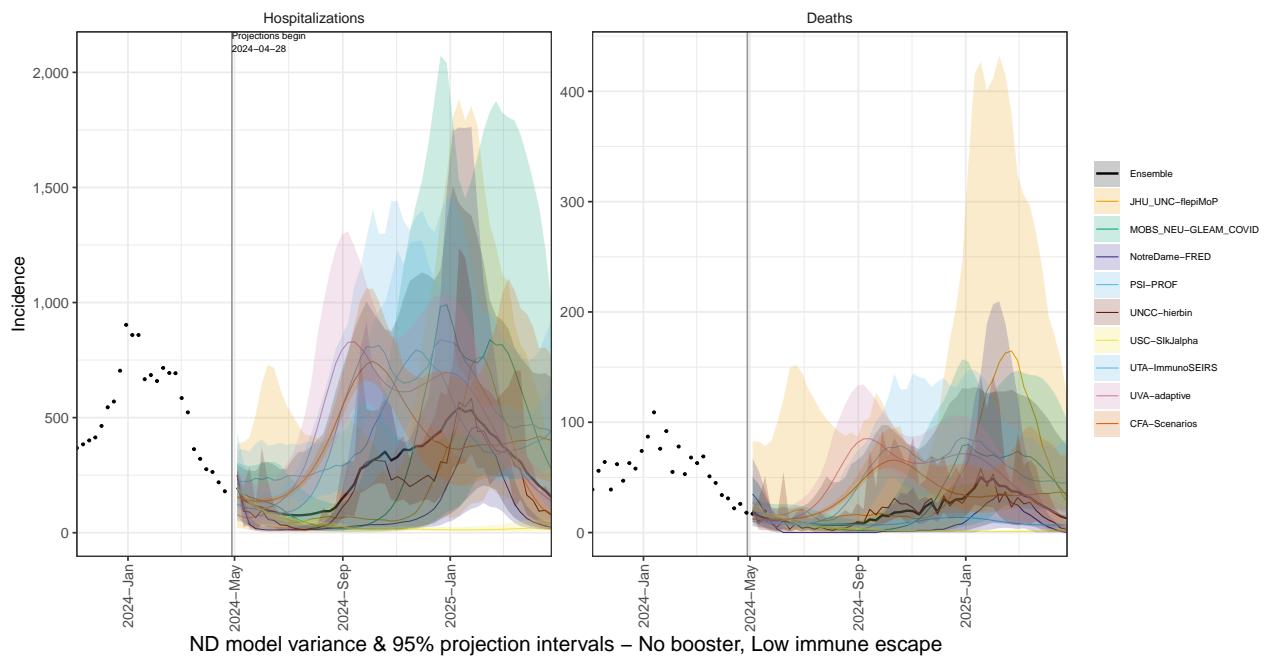
NM model variance & 95% projection intervals – No booster, Low immune escape



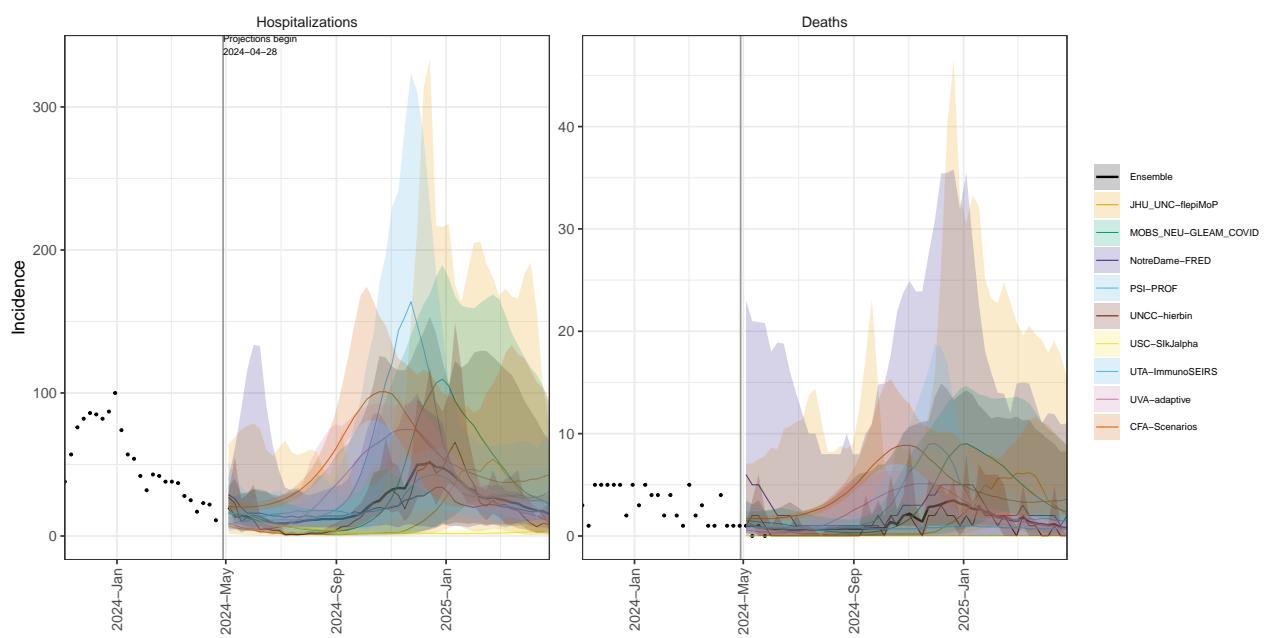
NY model variance & 95% projection intervals – No booster, Low immune escape



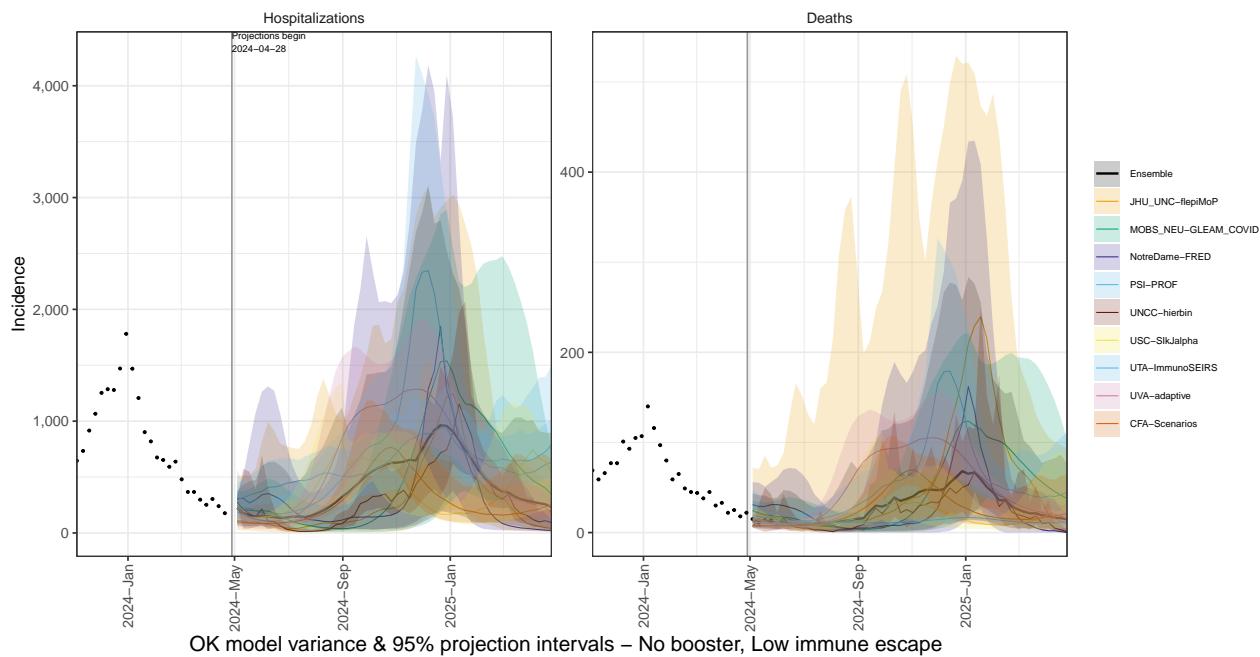
NC model variance & 95% projection intervals – No booster, Low immune escape



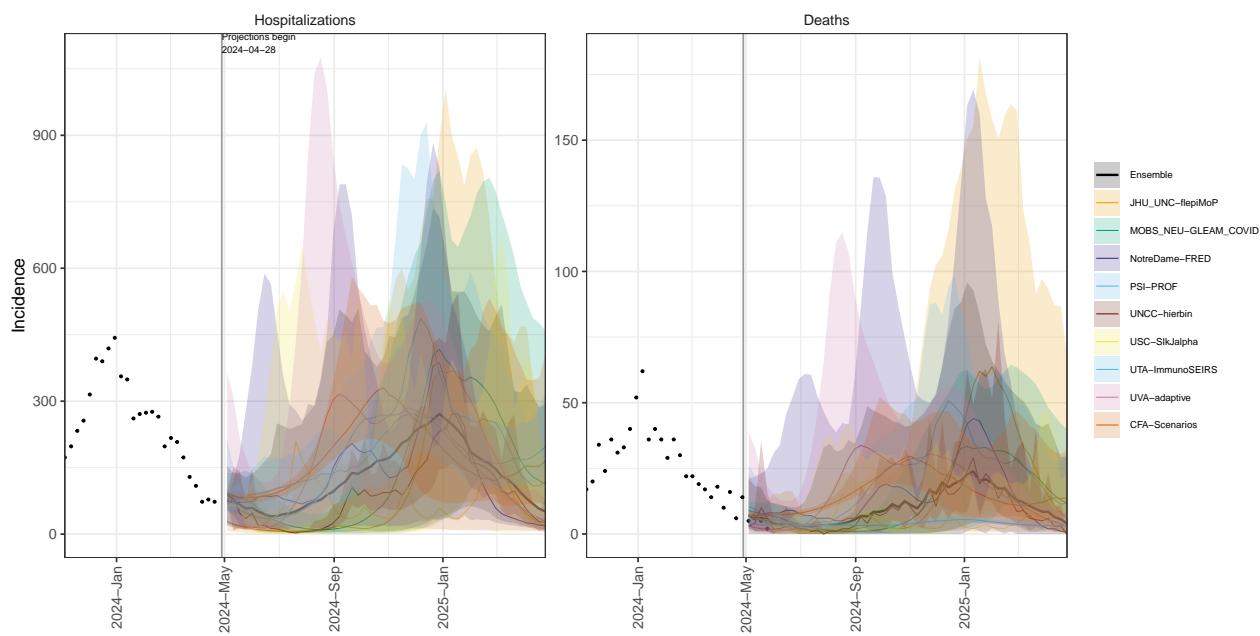
ND model variance & 95% projection intervals – No booster, Low immune escape



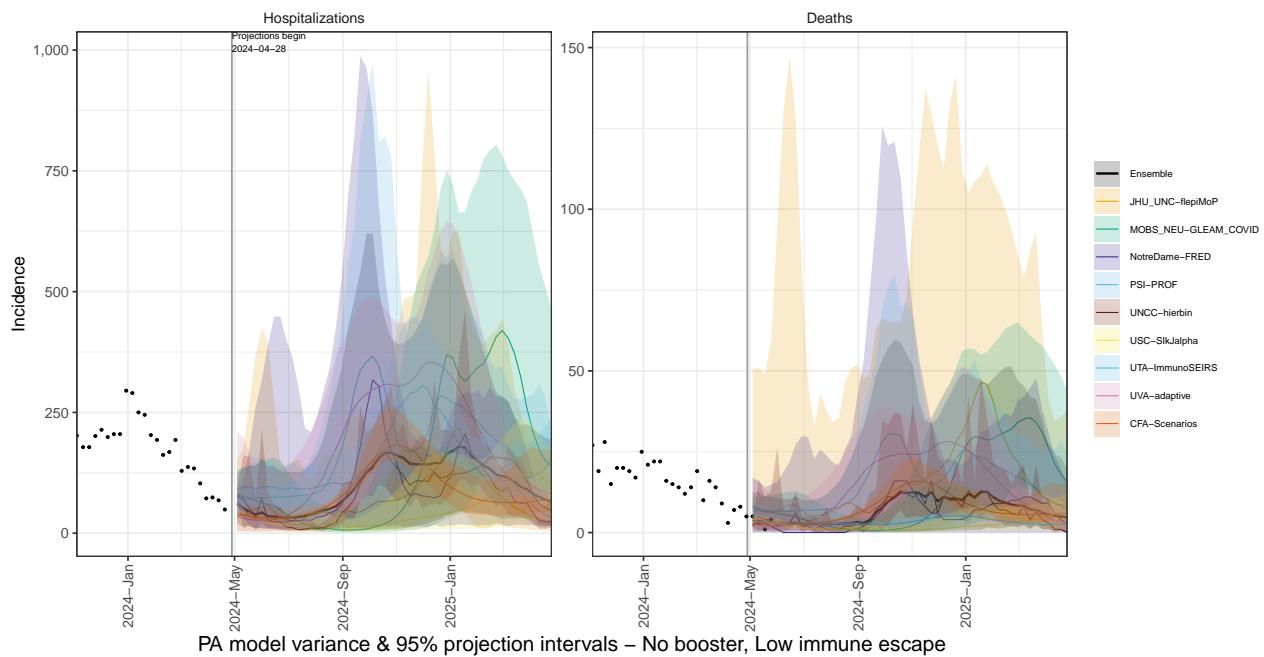
OH model variance & 95% projection intervals – No booster, Low immune escape



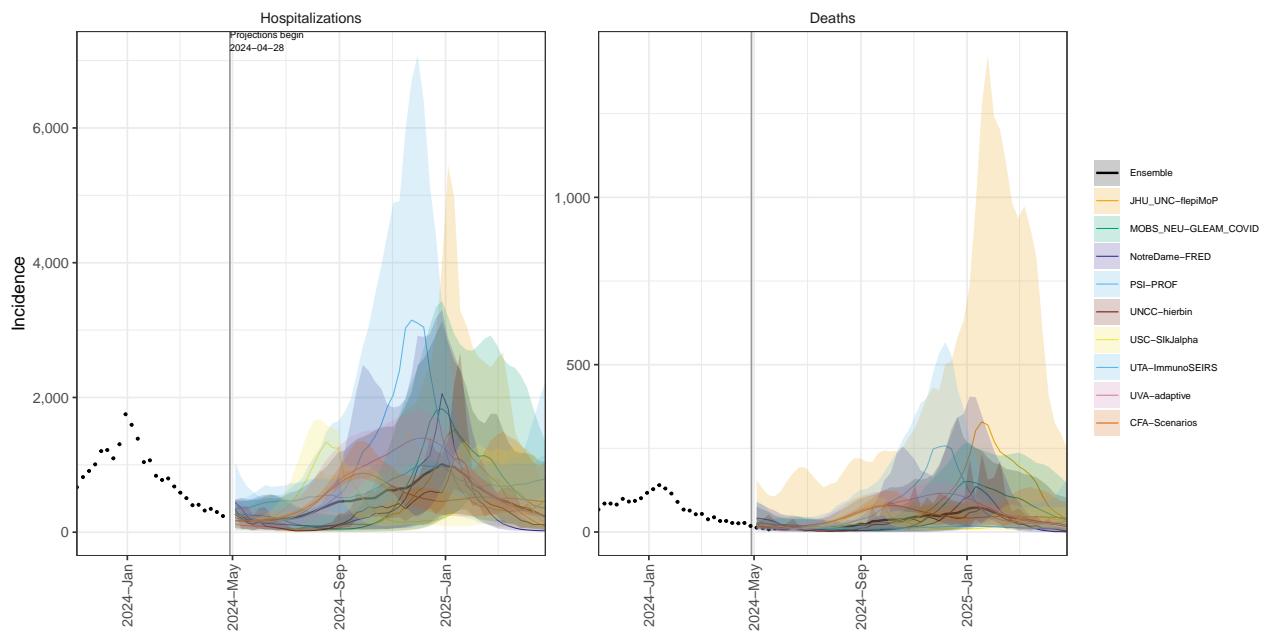
OK model variance & 95% projection intervals – No booster, Low immune escape



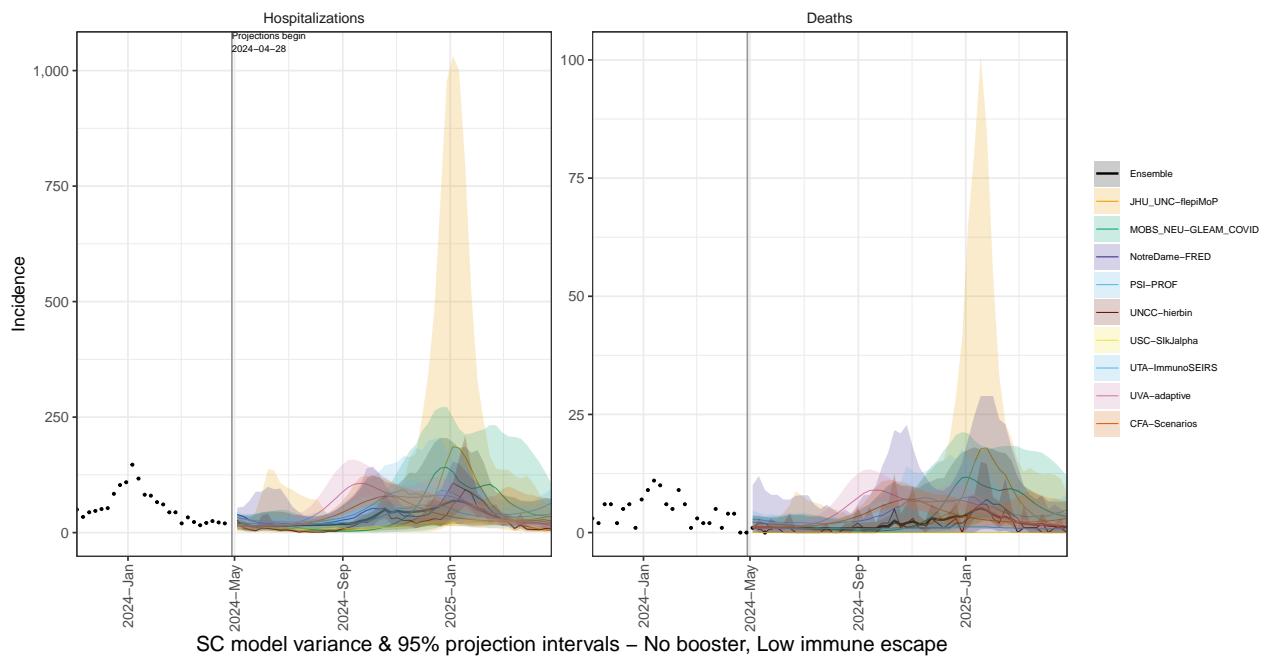
OR model variance & 95% projection intervals – No booster, Low immune escape



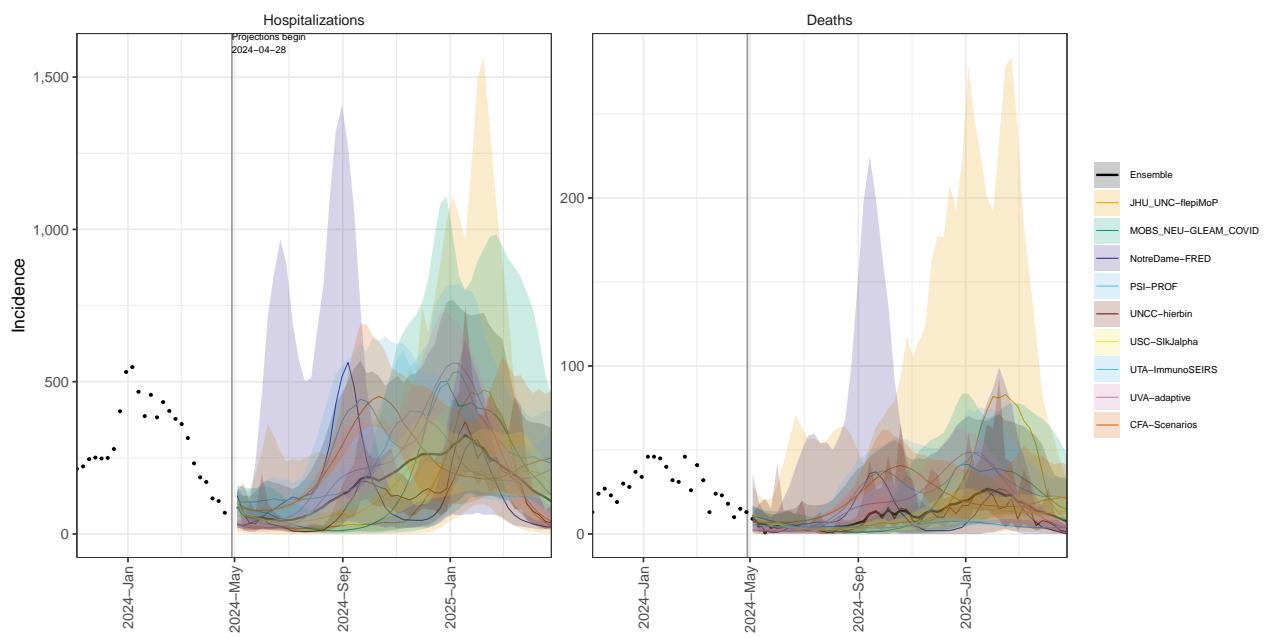
PA model variance & 95% projection intervals – No booster, Low immune escape



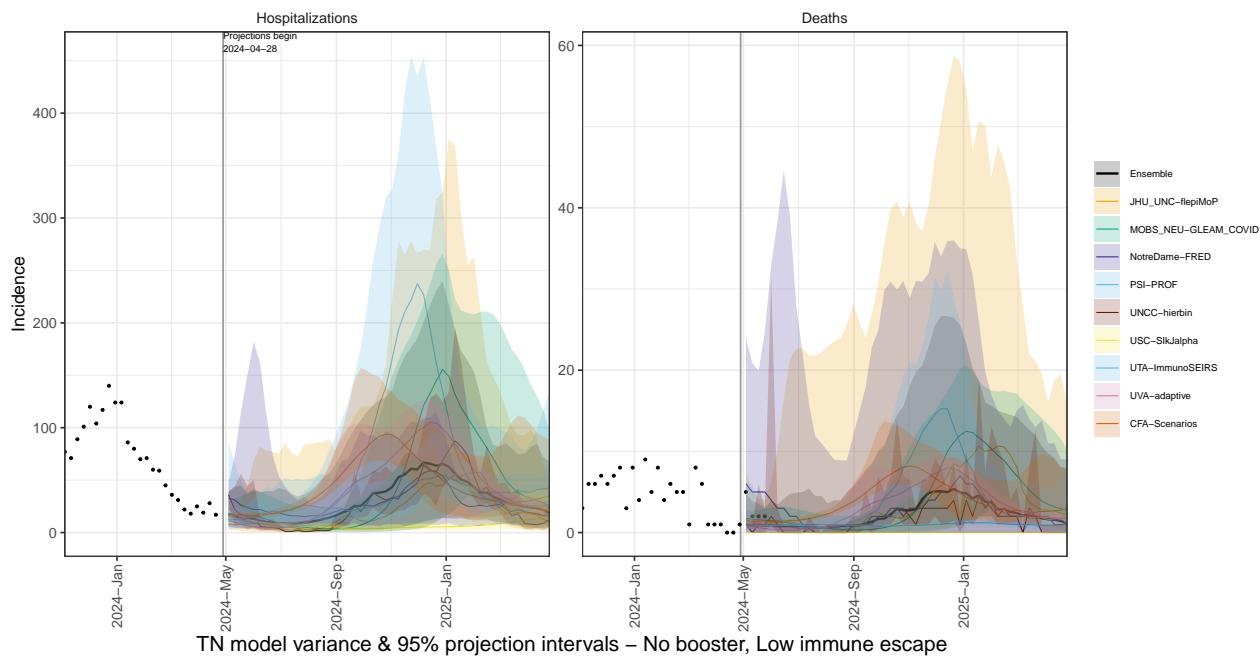
RI model variance & 95% projection intervals – No booster, Low immune escape



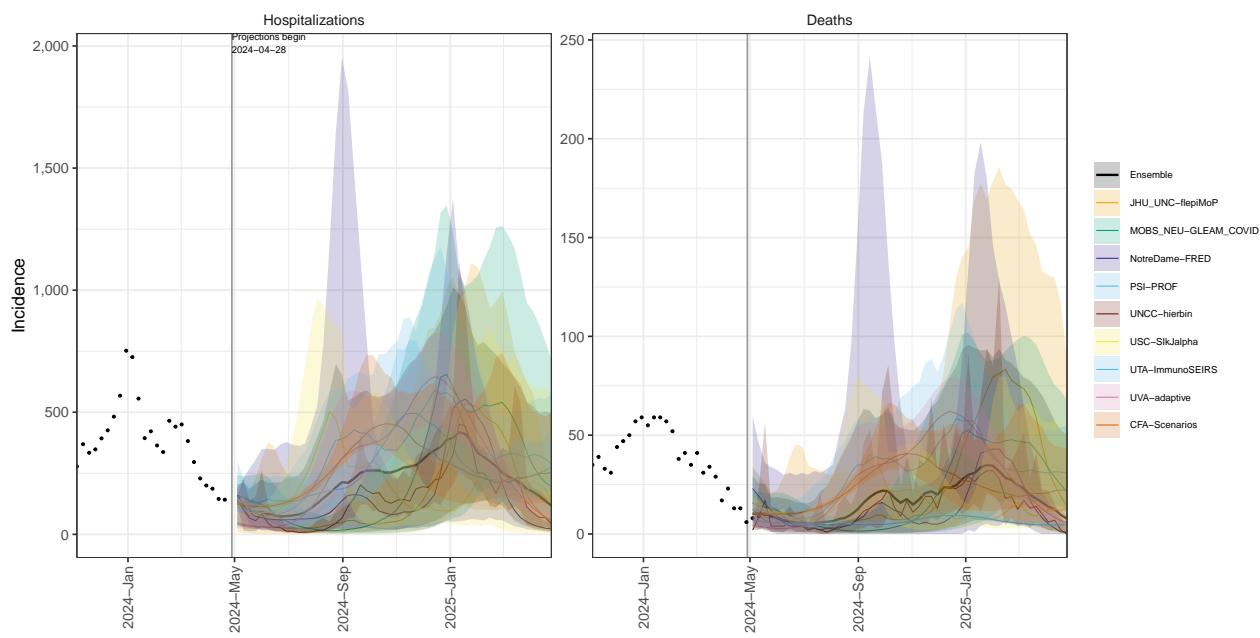
SC model variance & 95% projection intervals – No booster, Low immune escape



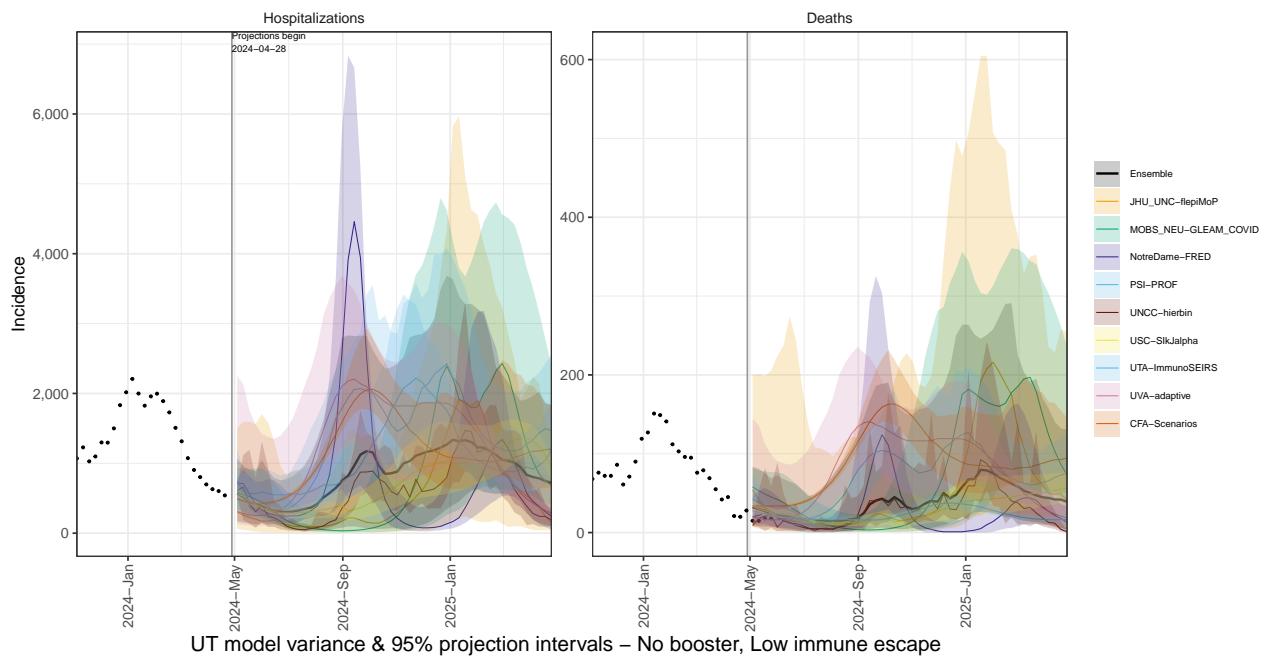
SD model variance & 95% projection intervals – No booster, Low immune escape



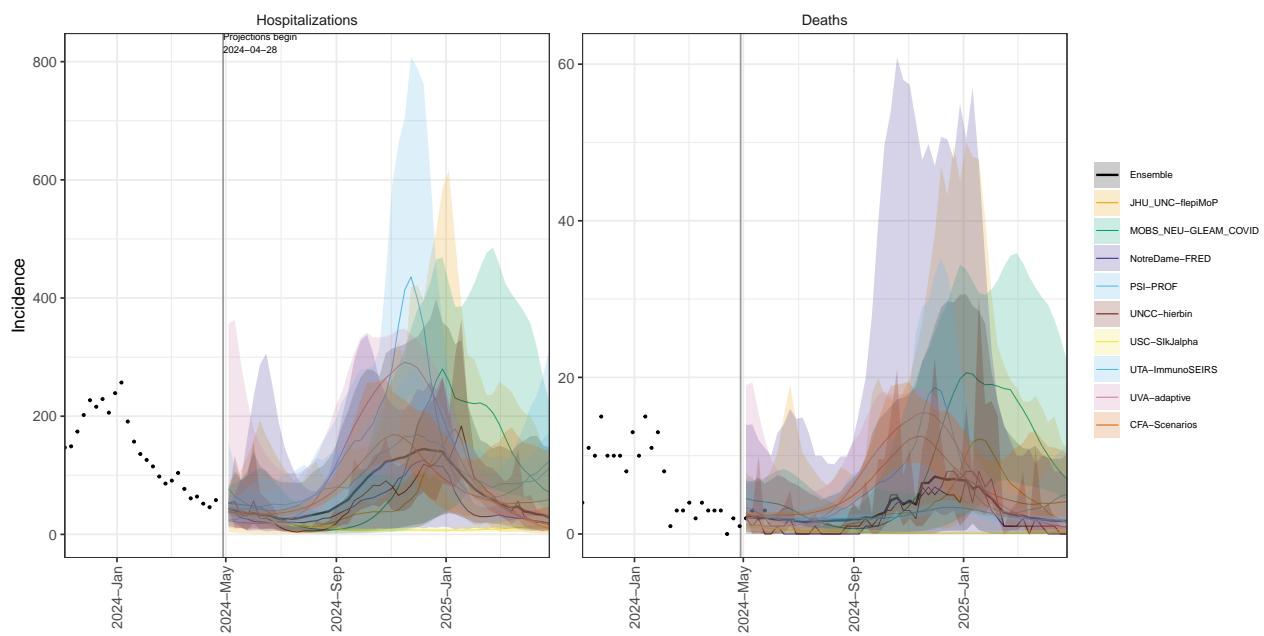
TN model variance & 95% projection intervals – No booster, Low immune escape



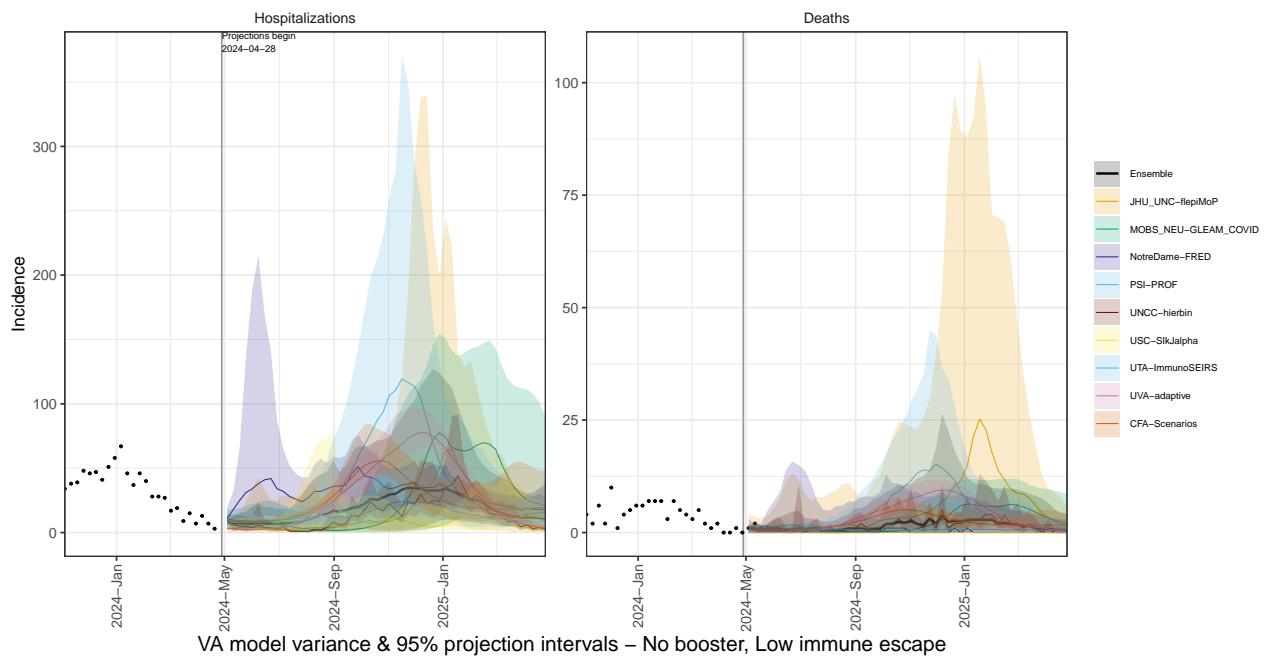
TX model variance & 95% projection intervals – No booster, Low immune escape



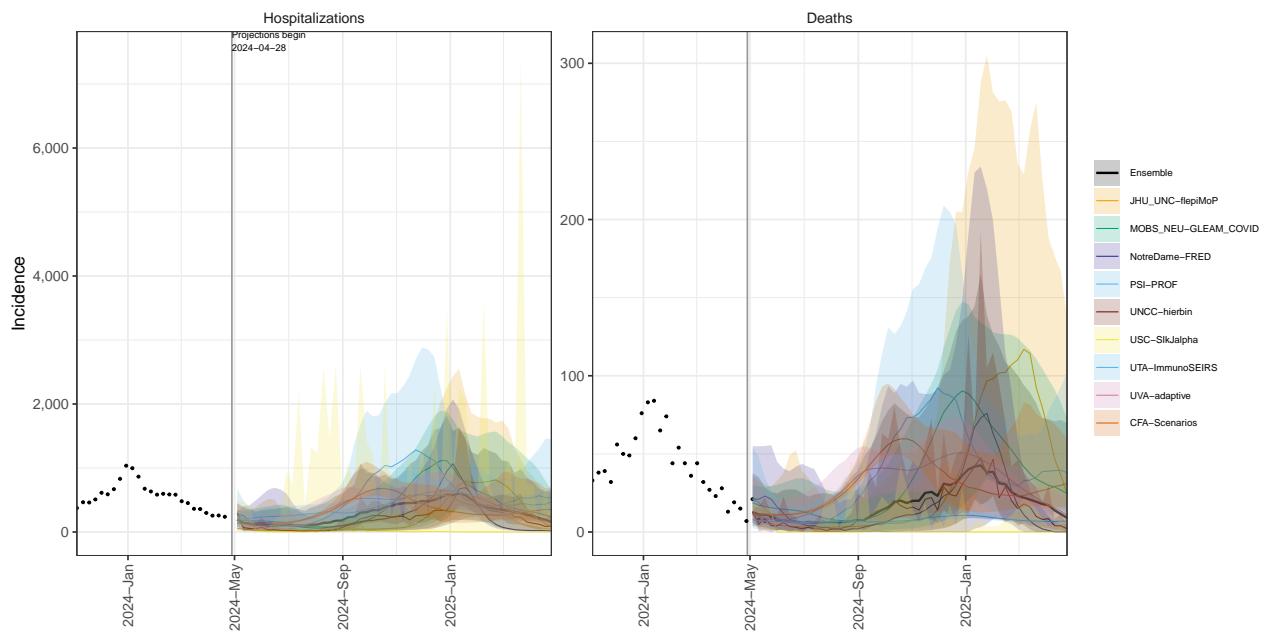
UT model variance & 95% projection intervals – No booster, Low immune escape



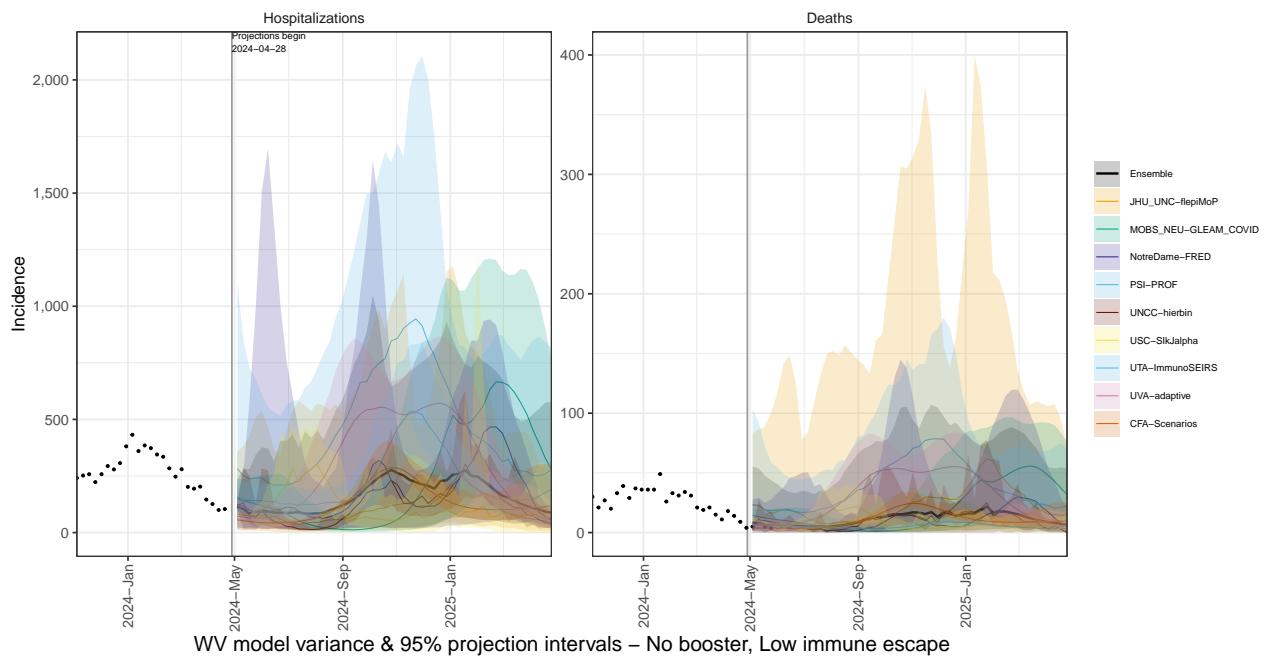
VT model variance & 95% projection intervals – No booster, Low immune escape



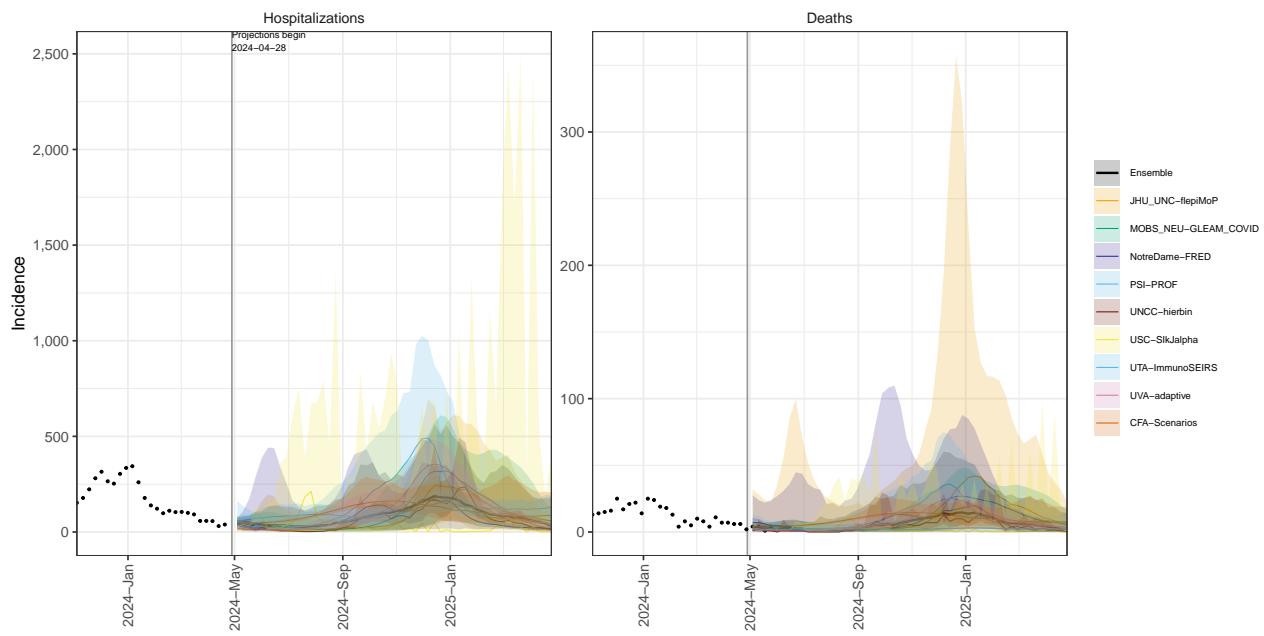
VA model variance & 95% projection intervals – No booster, Low immune escape



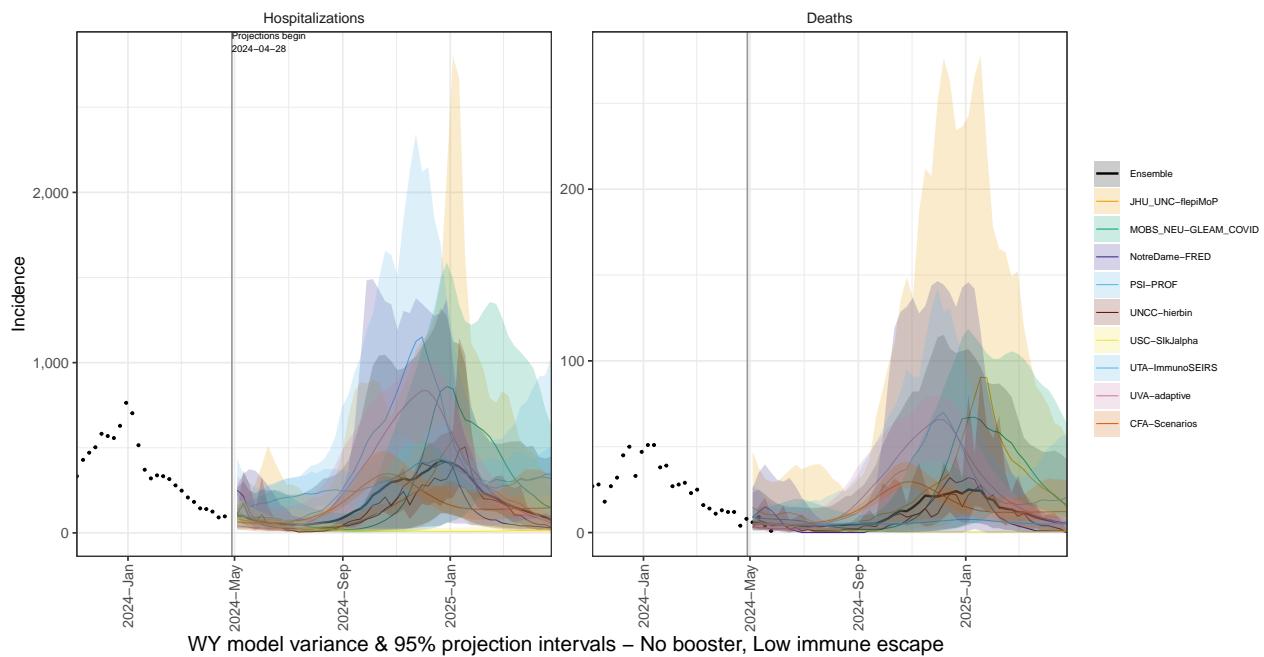
WA model variance & 95% projection intervals – No booster, Low immune escape



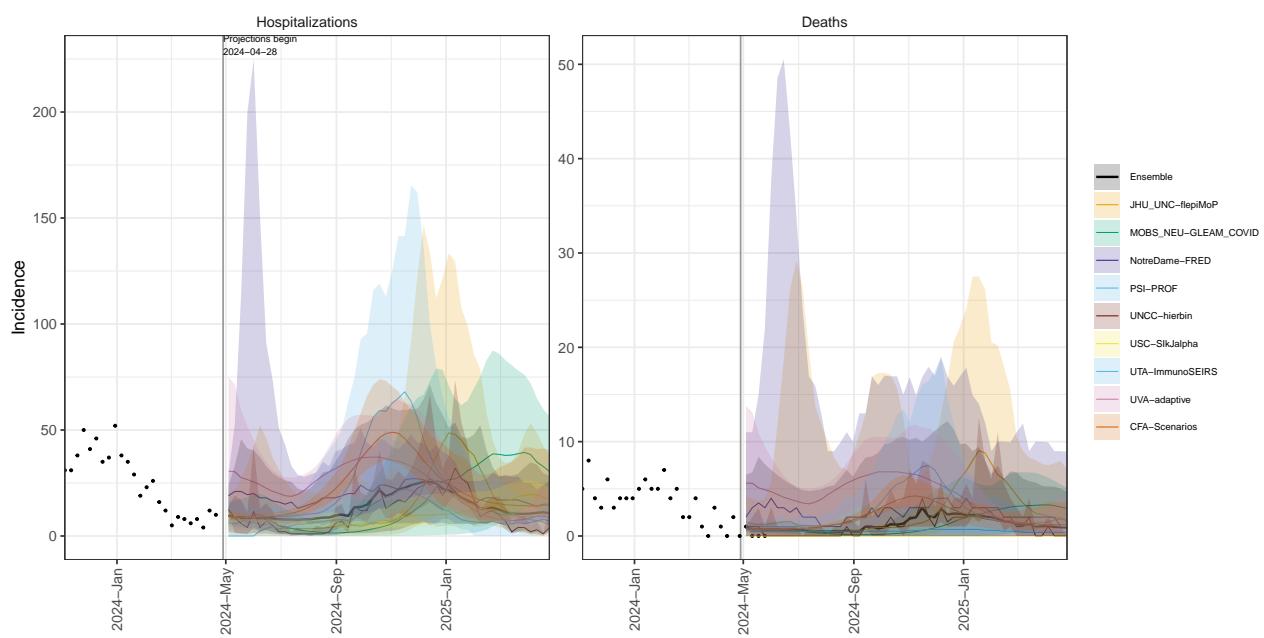
WV model variance & 95% projection intervals – No booster, Low immune escape



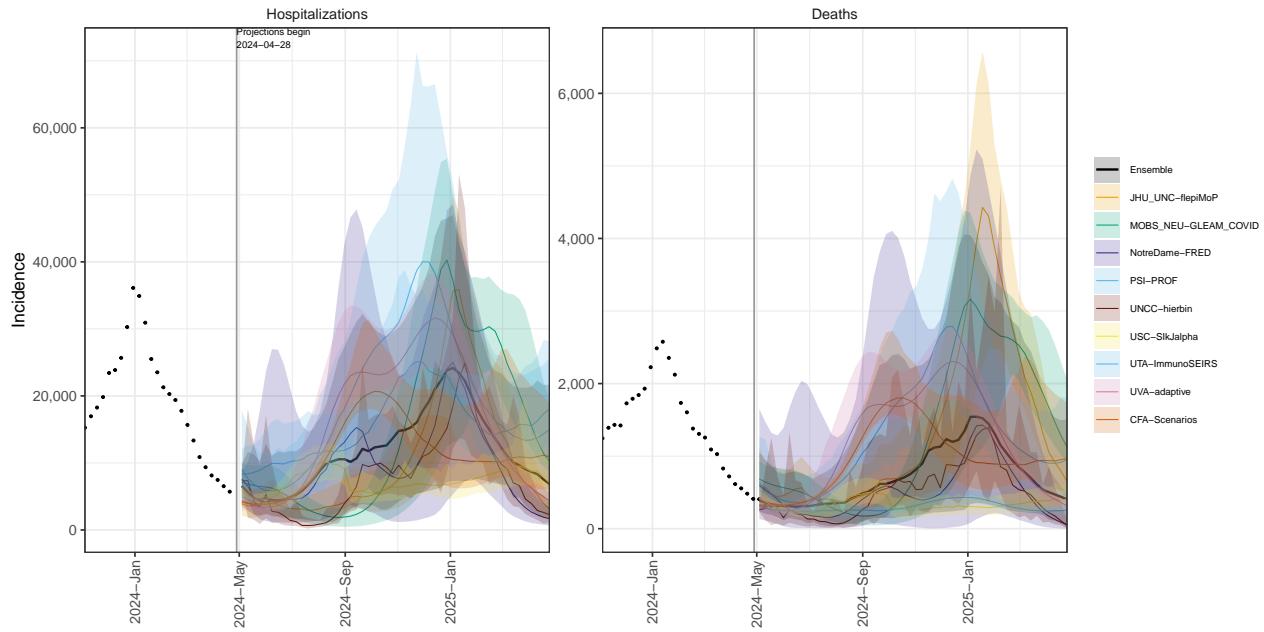
WI model variance & 95% projection intervals – No booster, Low immune escape



WY model variance & 95% projection intervals – No booster, Low immune escape

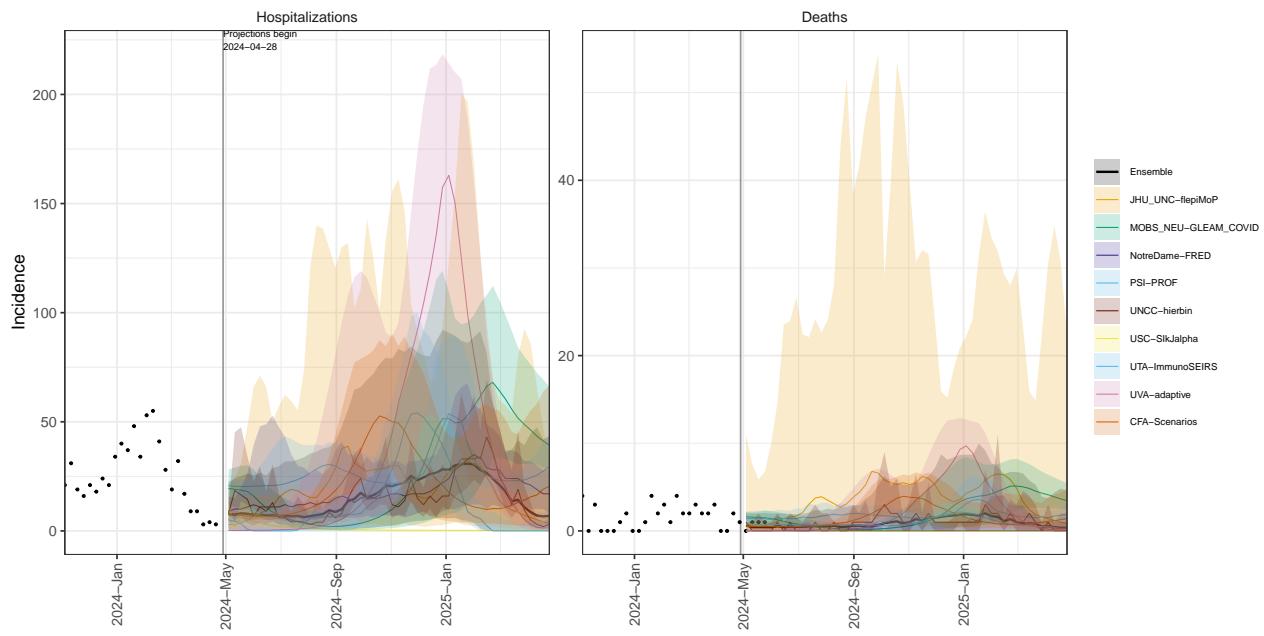


US model variance & 95% projection intervals – No booster, Low immune escape

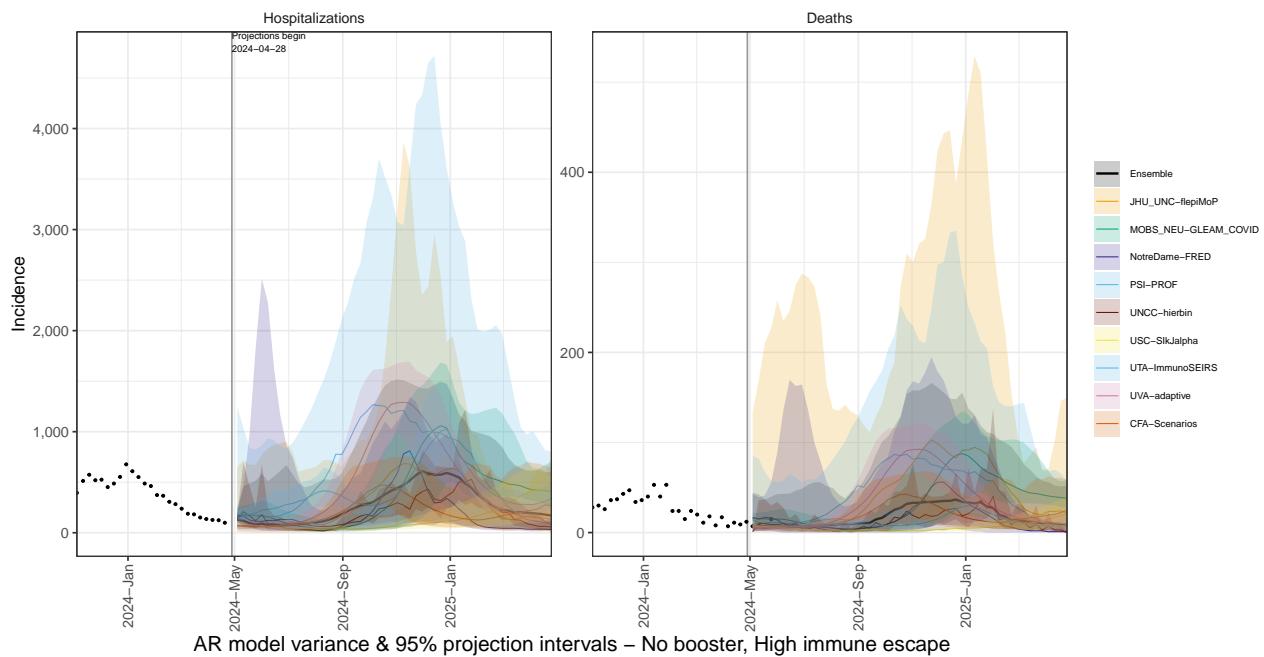


Model variation for No booster, High immune escape scenario.

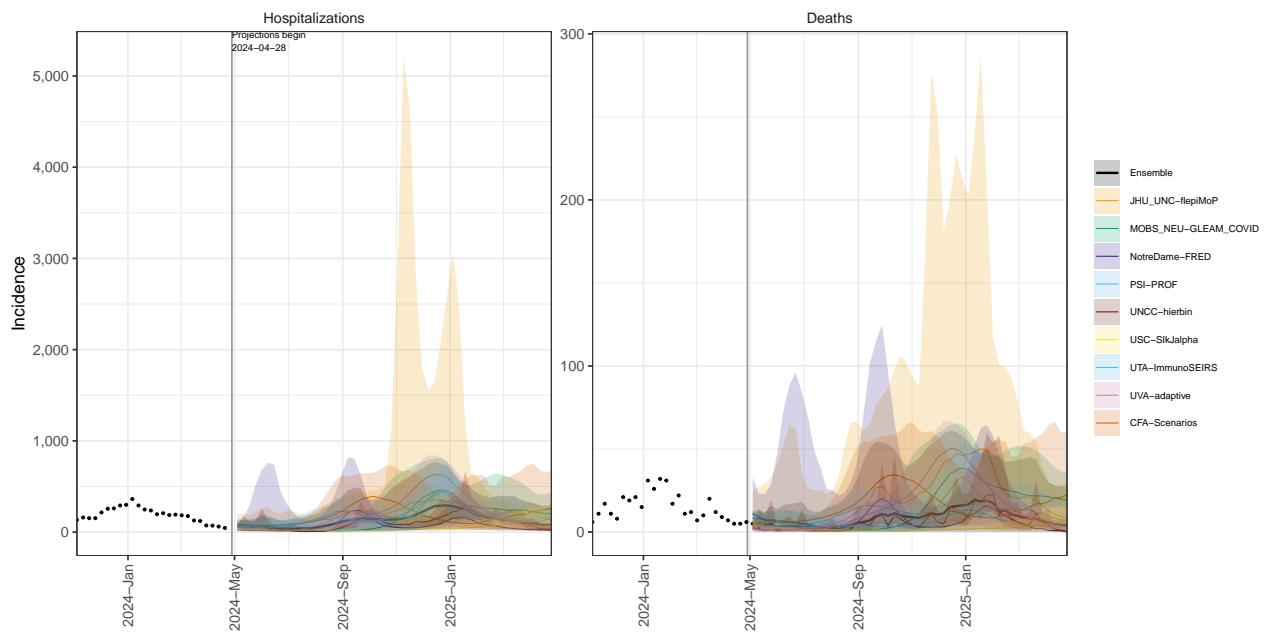
AK model variance & 95% projection intervals – No booster, High immune escape



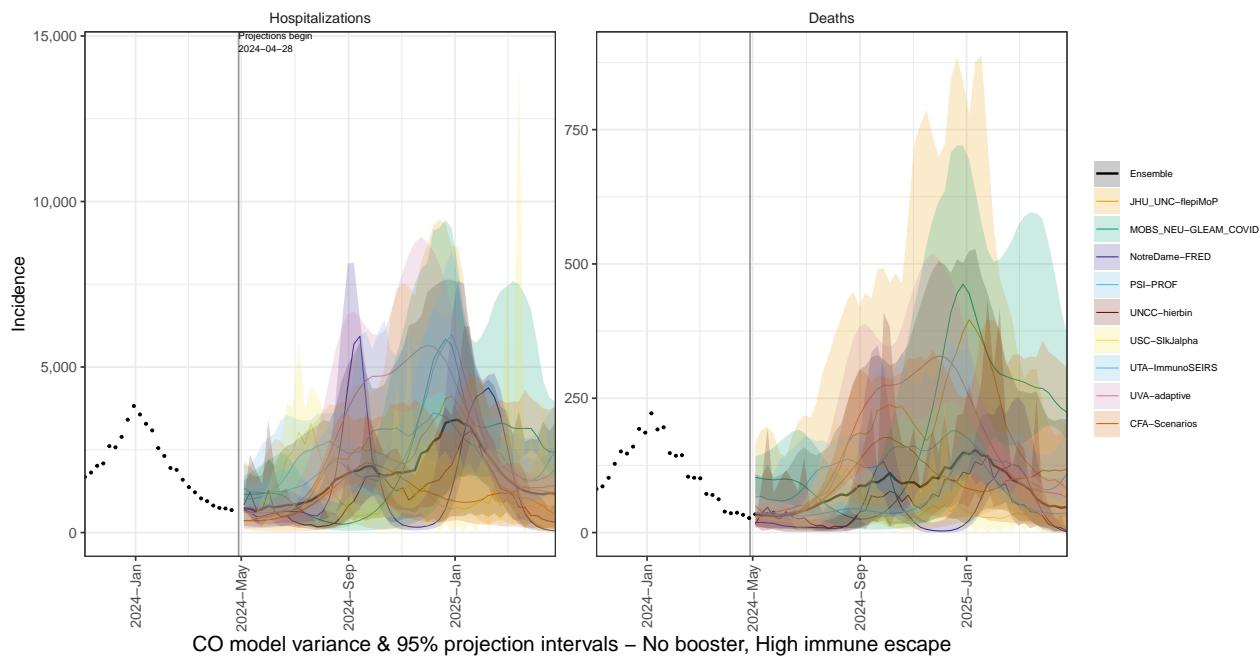
AZ model variance & 95% projection intervals – No booster, High immune escape



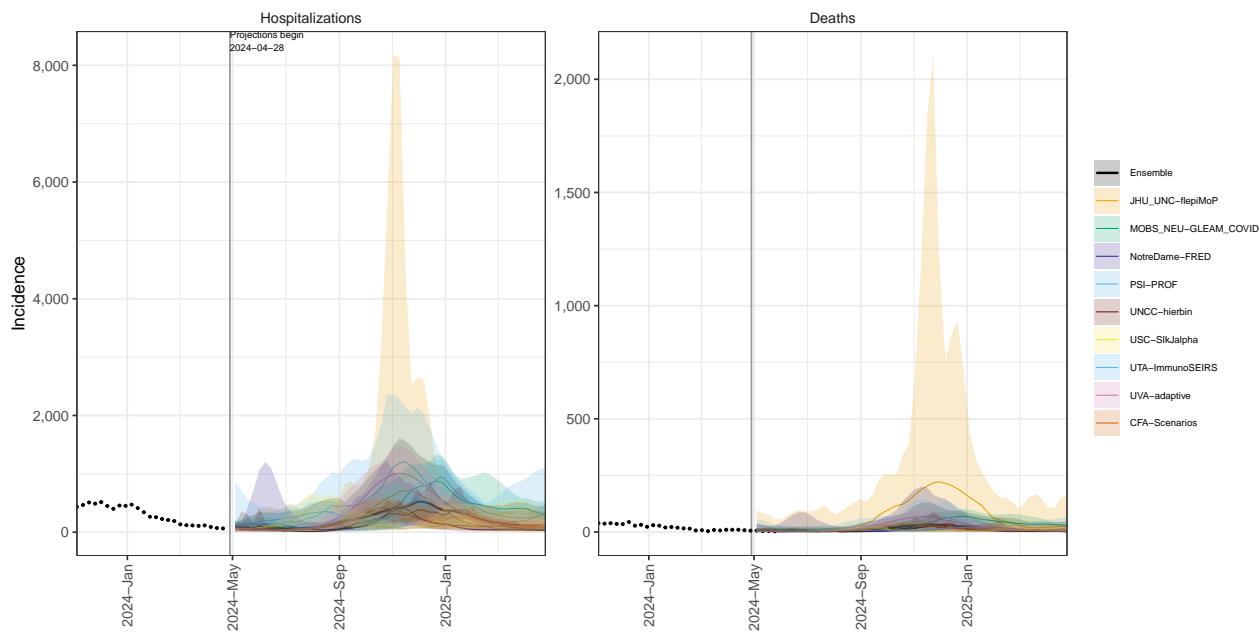
AR model variance & 95% projection intervals – No booster, High immune escape



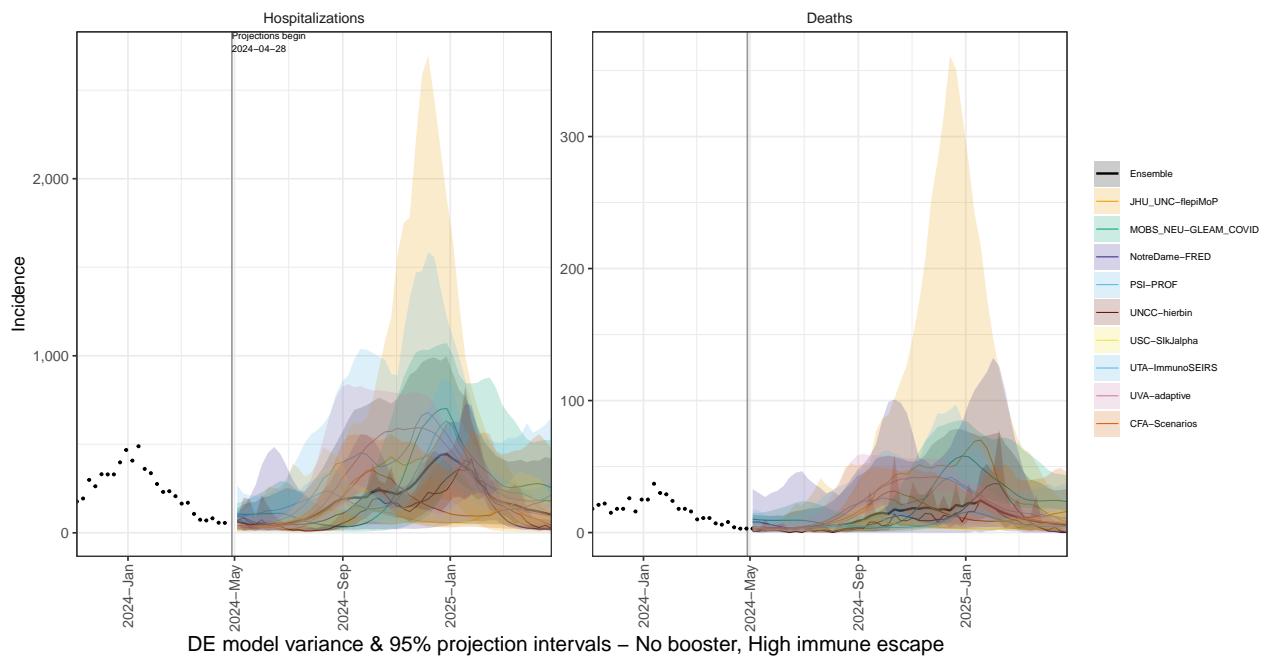
CA model variance & 95% projection intervals – No booster, High immune escape



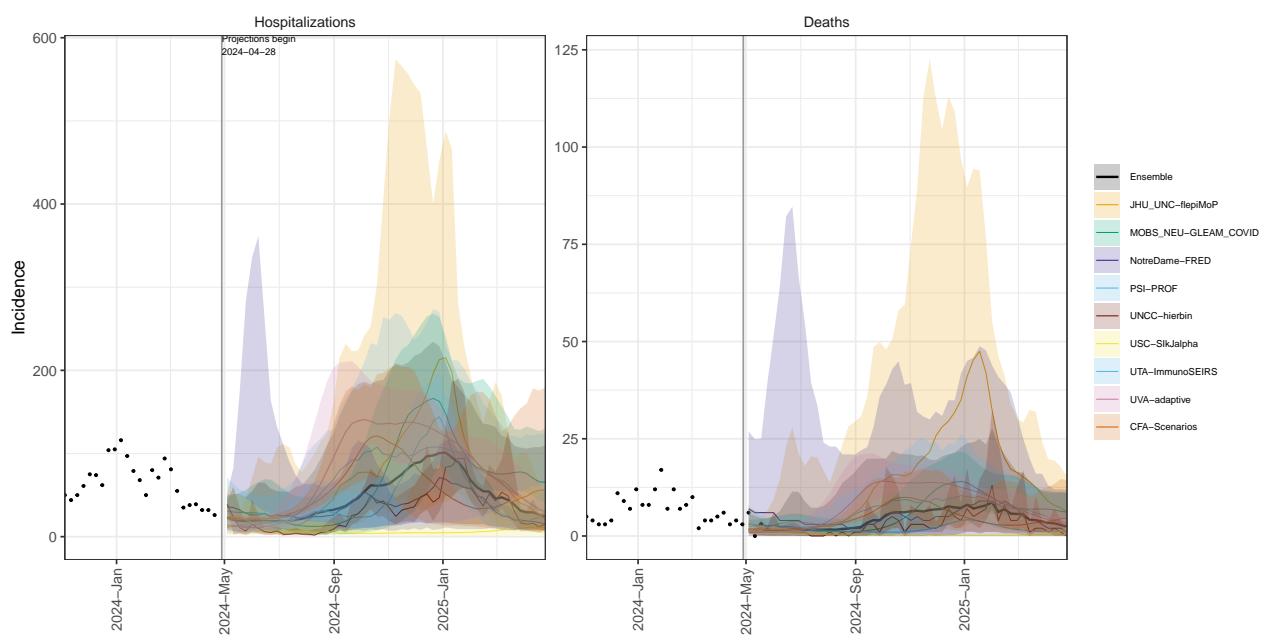
CO model variance & 95% projection intervals – No booster, High immune escape



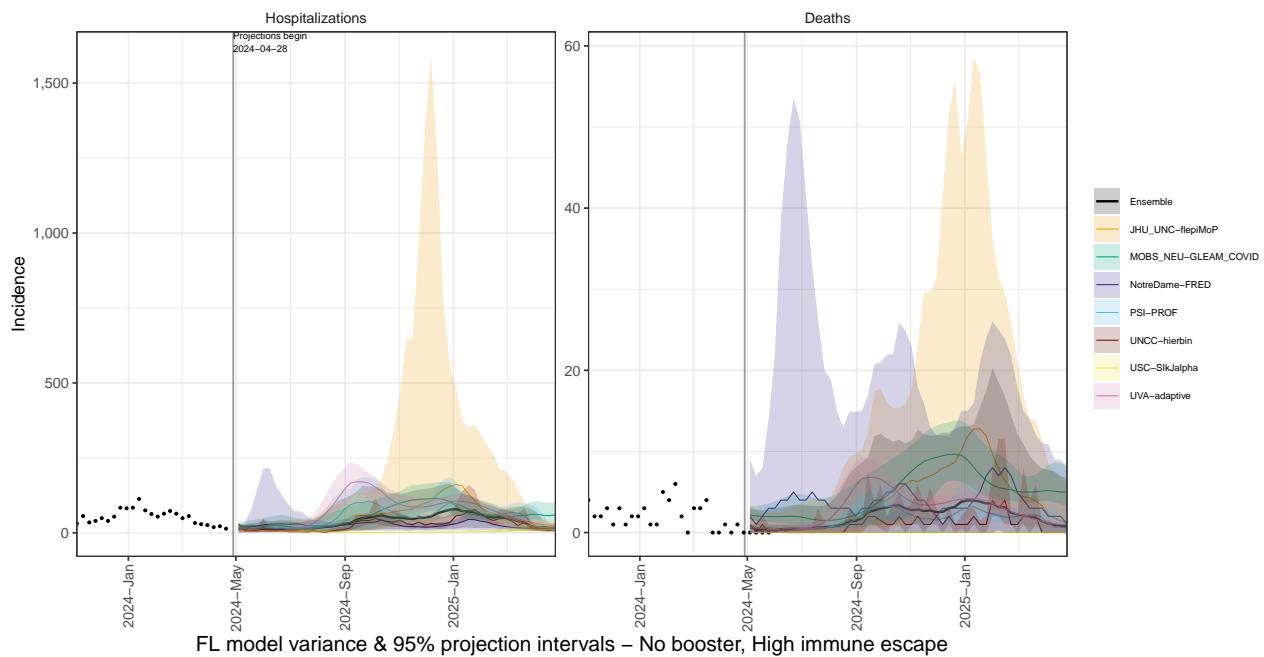
CT model variance & 95% projection intervals – No booster, High immune escape



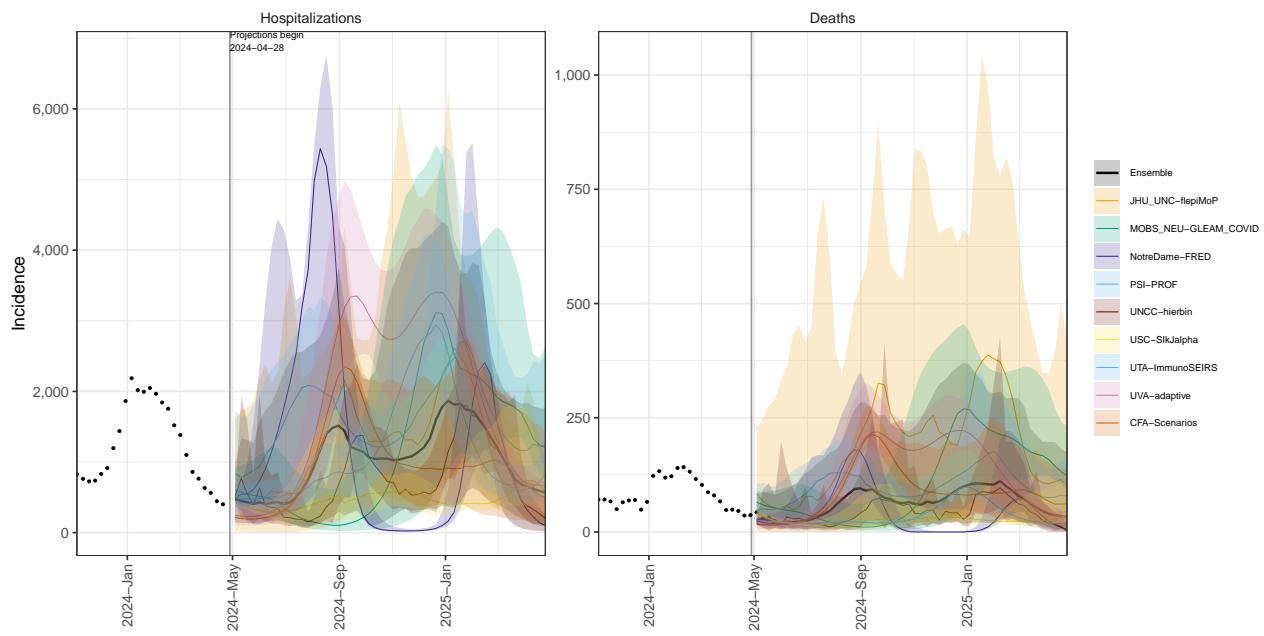
DE model variance & 95% projection intervals – No booster, High immune escape



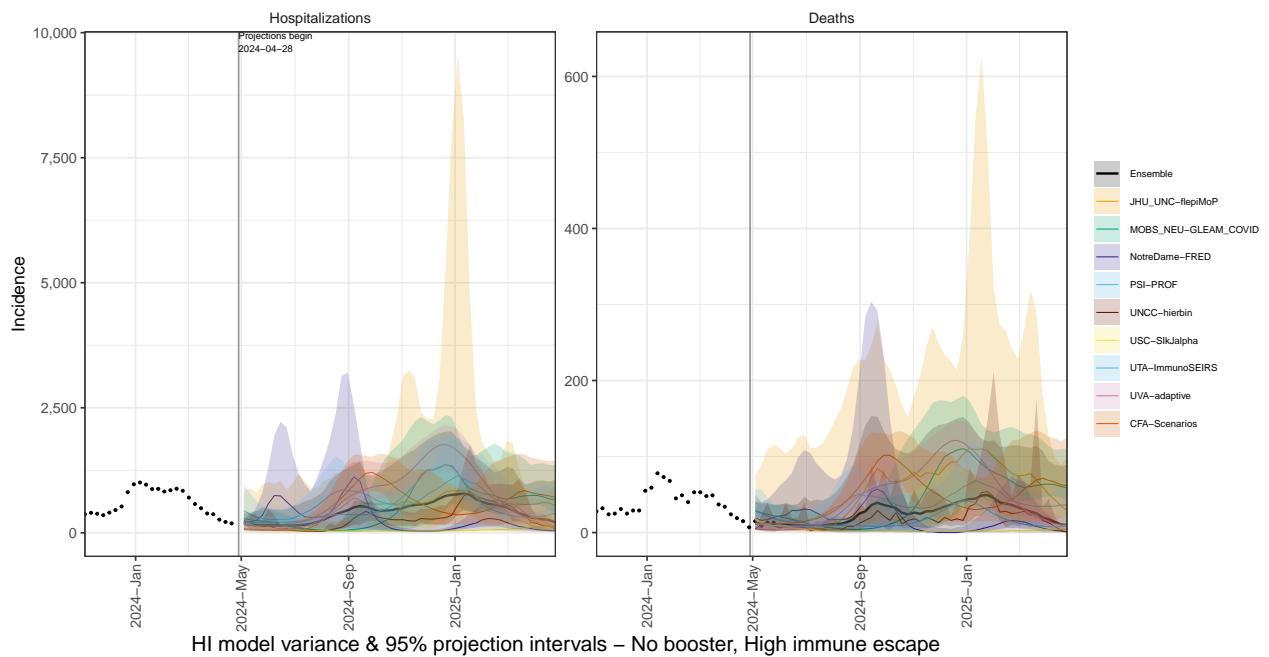
DC model variance & 95% projection intervals – No booster, High immune escape



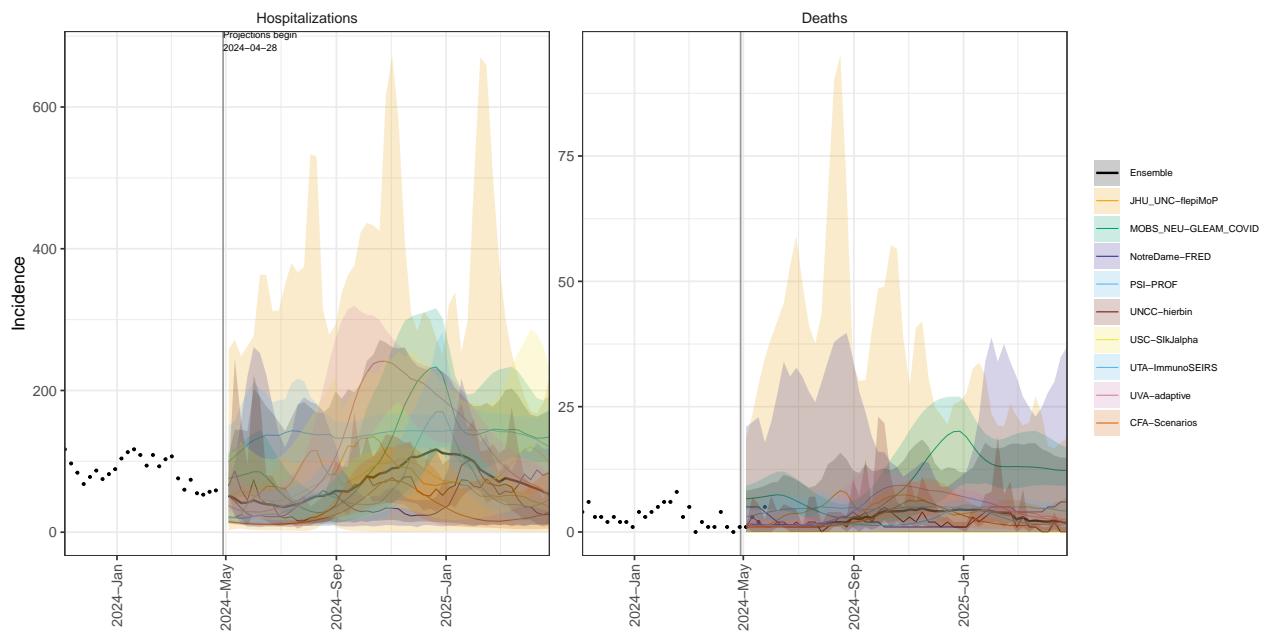
FL model variance & 95% projection intervals – No booster, High immune escape



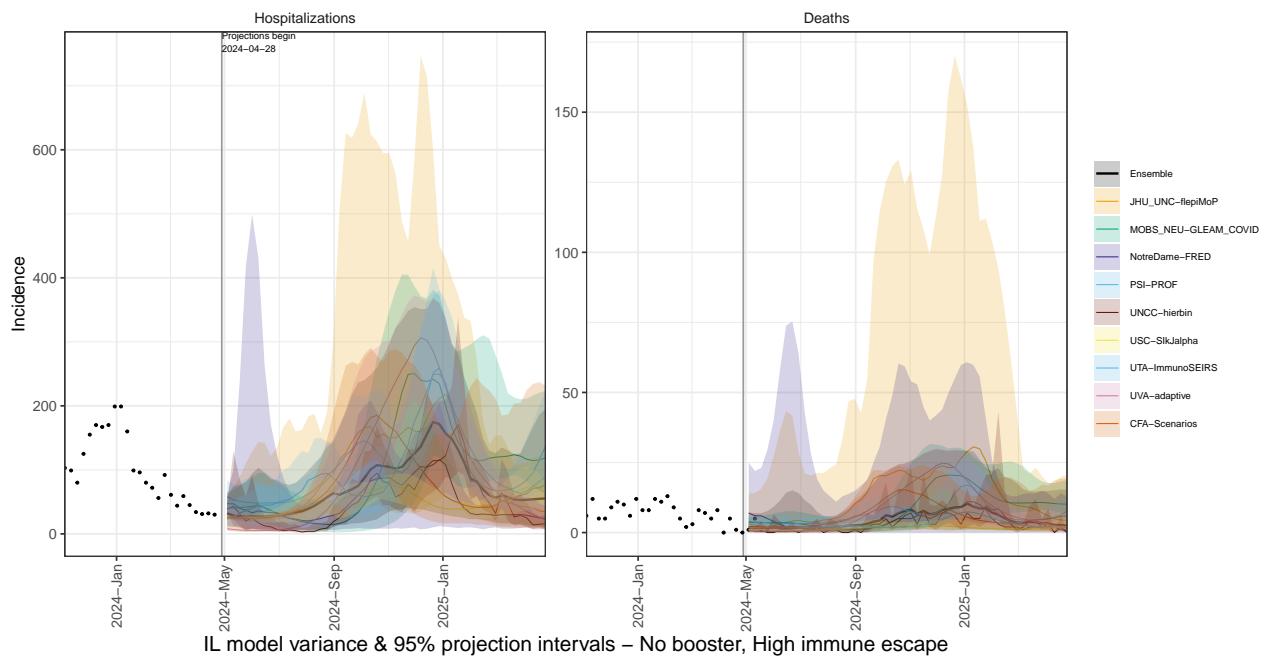
GA model variance & 95% projection intervals – No booster, High immune escape



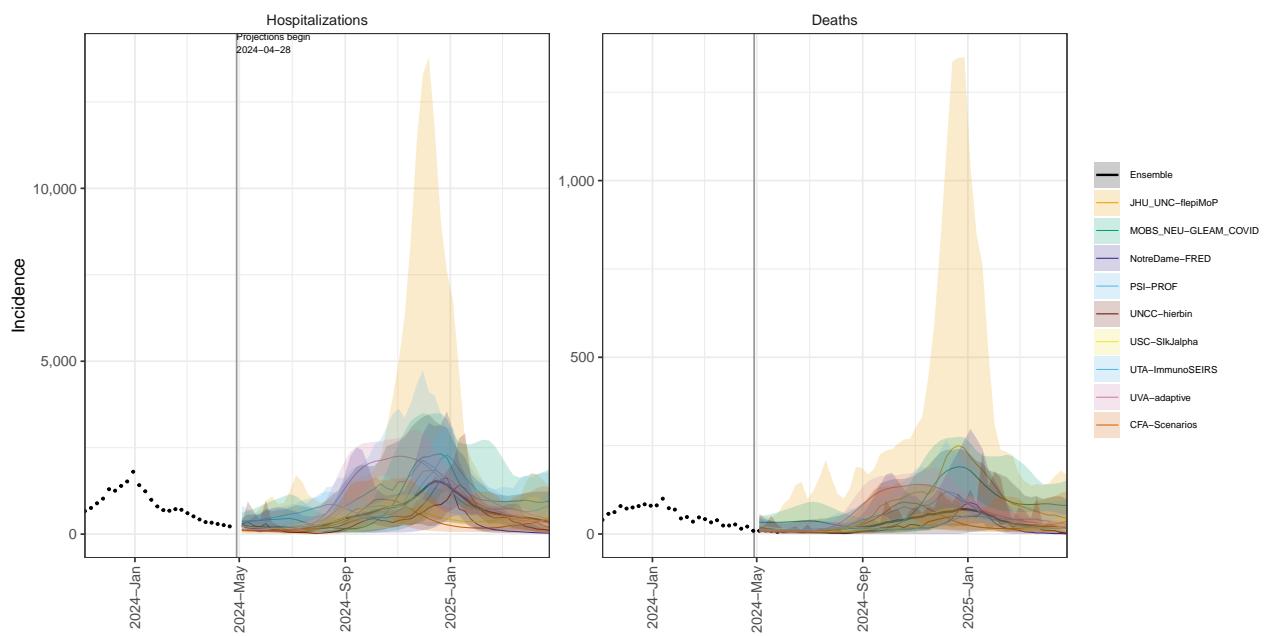
HI model variance & 95% projection intervals – No booster, High immune escape



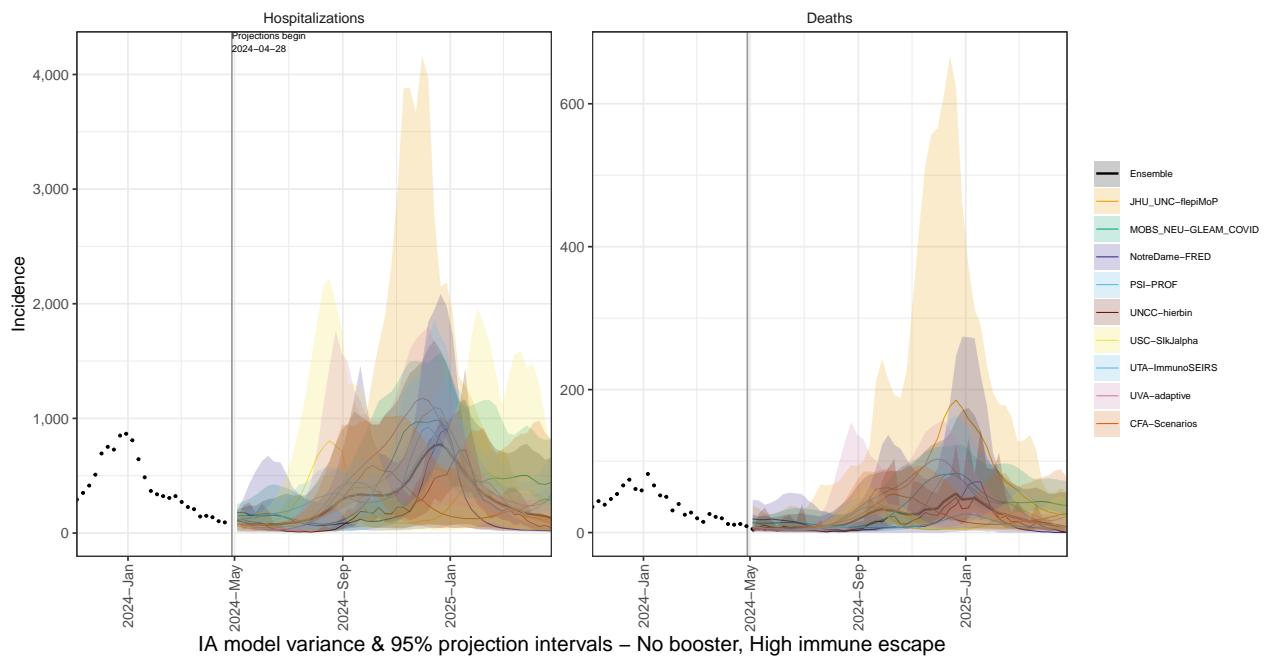
ID model variance & 95% projection intervals – No booster, High immune escape



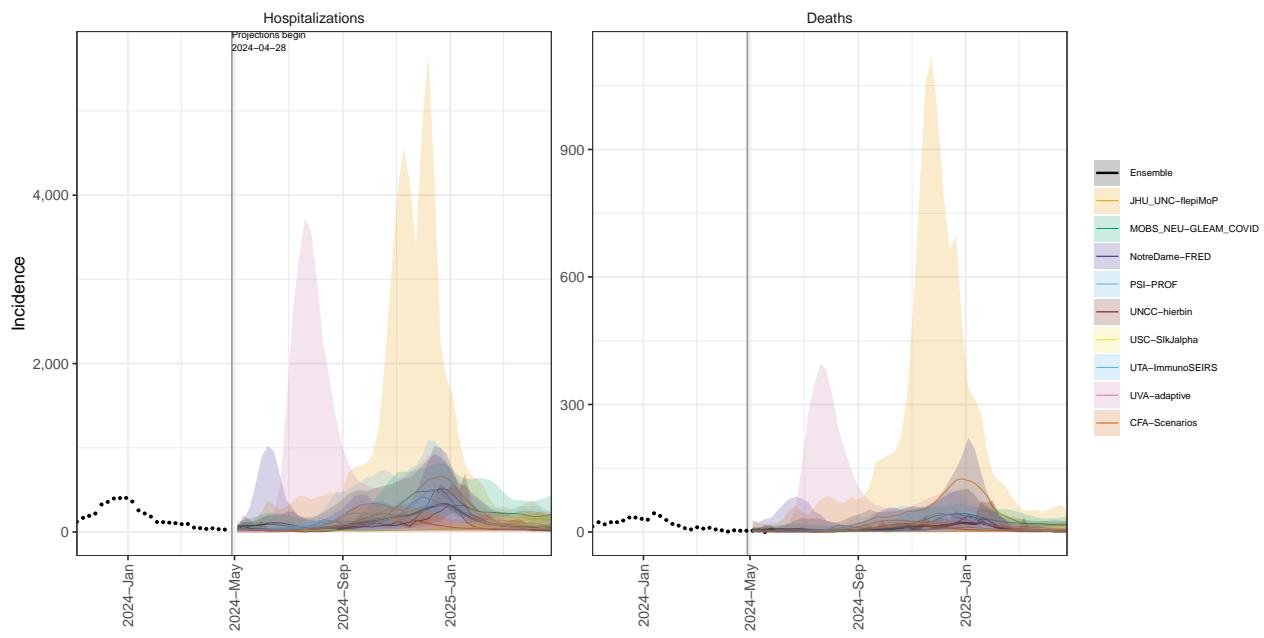
IL model variance & 95% projection intervals – No booster, High immune escape



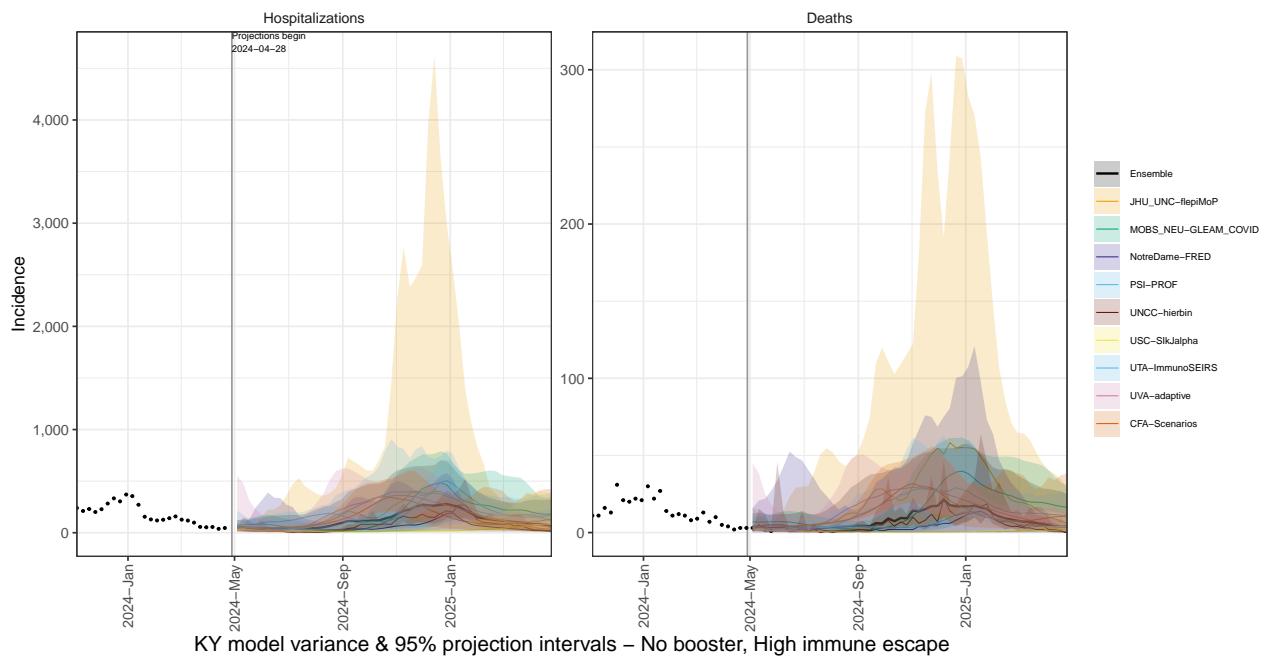
IN model variance & 95% projection intervals – No booster, High immune escape



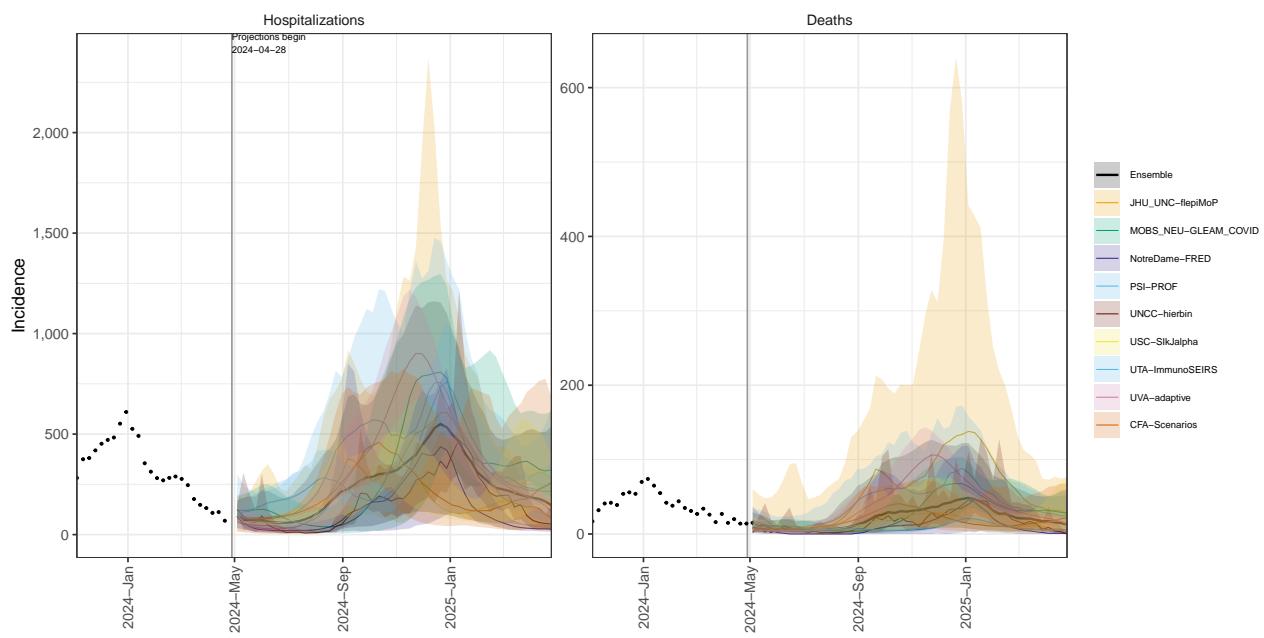
IA model variance & 95% projection intervals – No booster, High immune escape



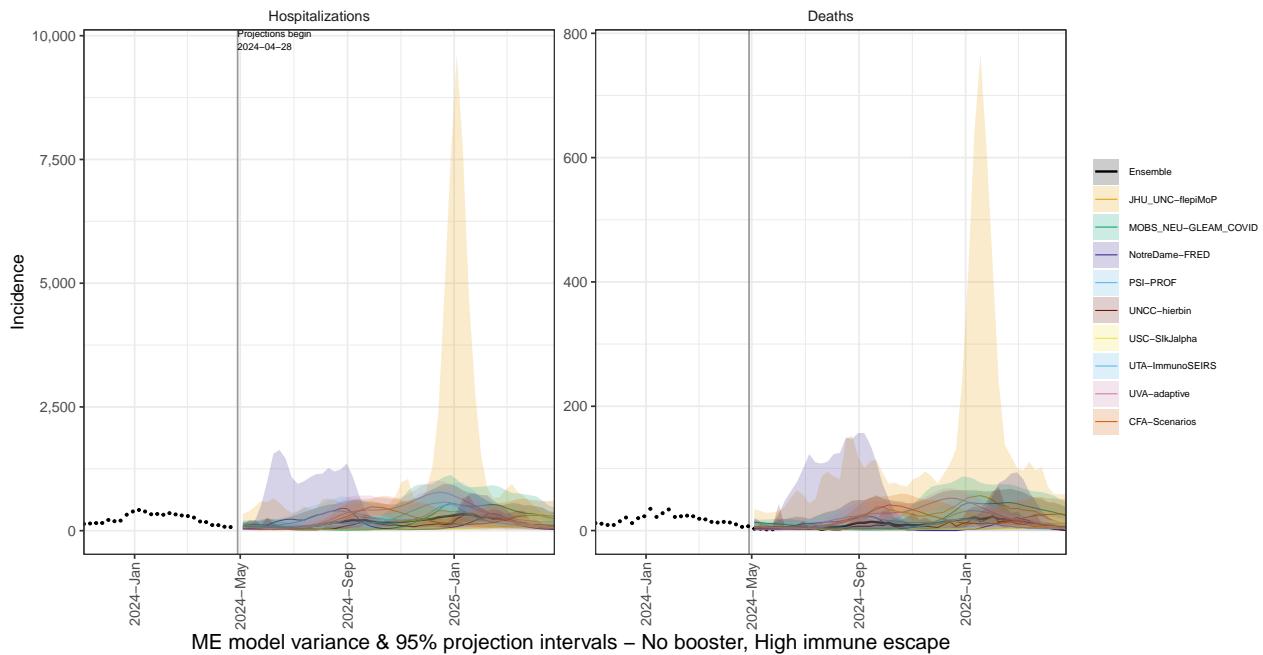
KS model variance & 95% projection intervals – No booster, High immune escape



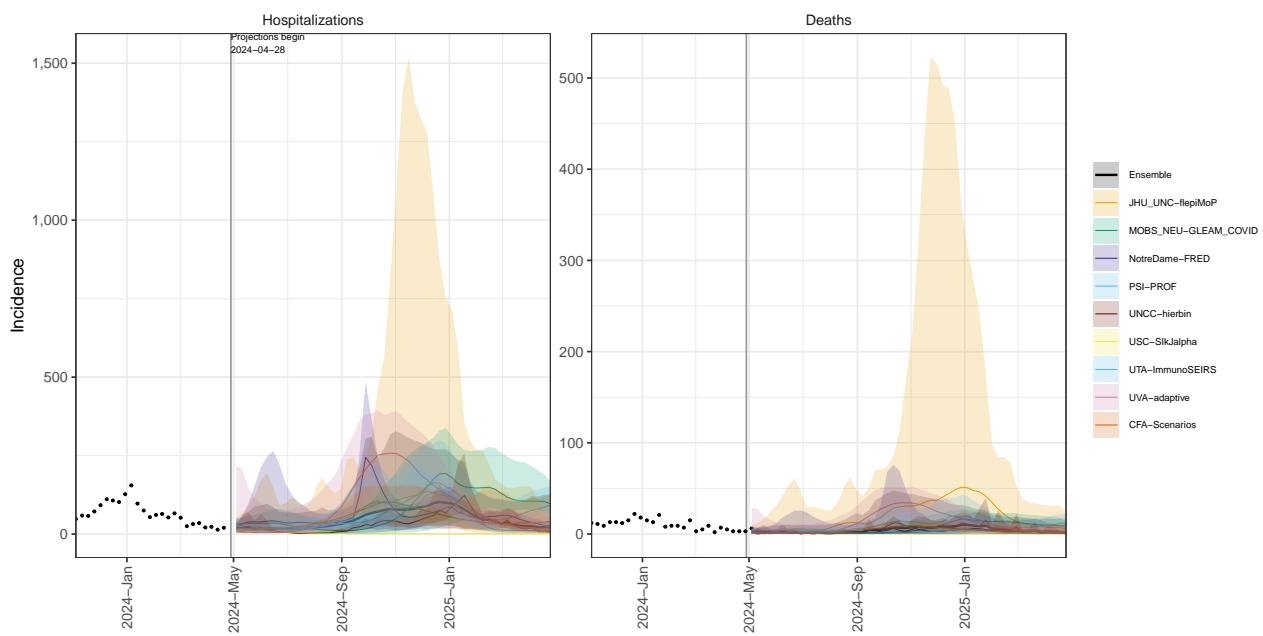
KY model variance & 95% projection intervals – No booster, High immune escape



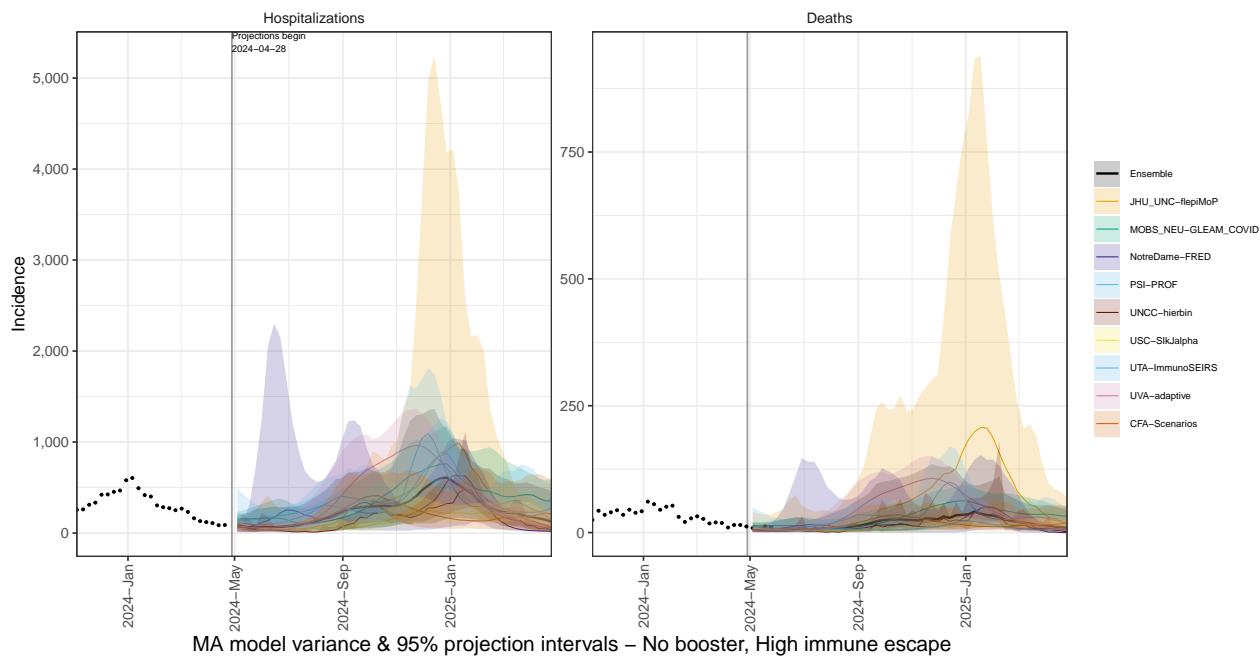
LA model variance & 95% projection intervals – No booster, High immune escape



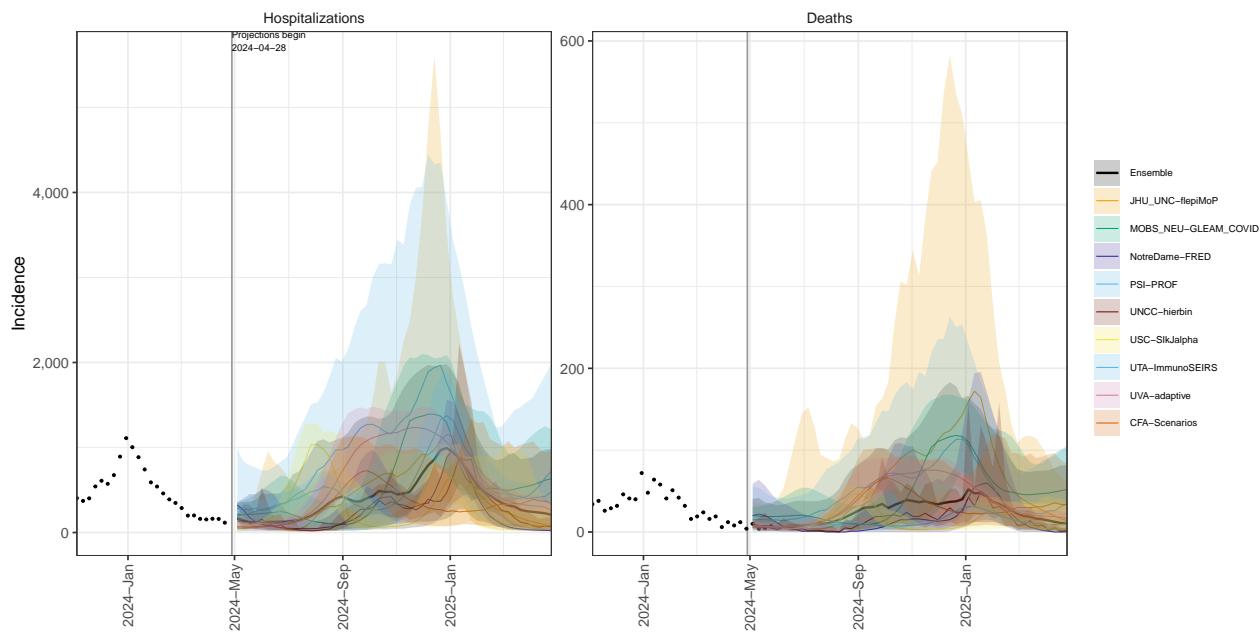
ME model variance & 95% projection intervals – No booster, High immune escape



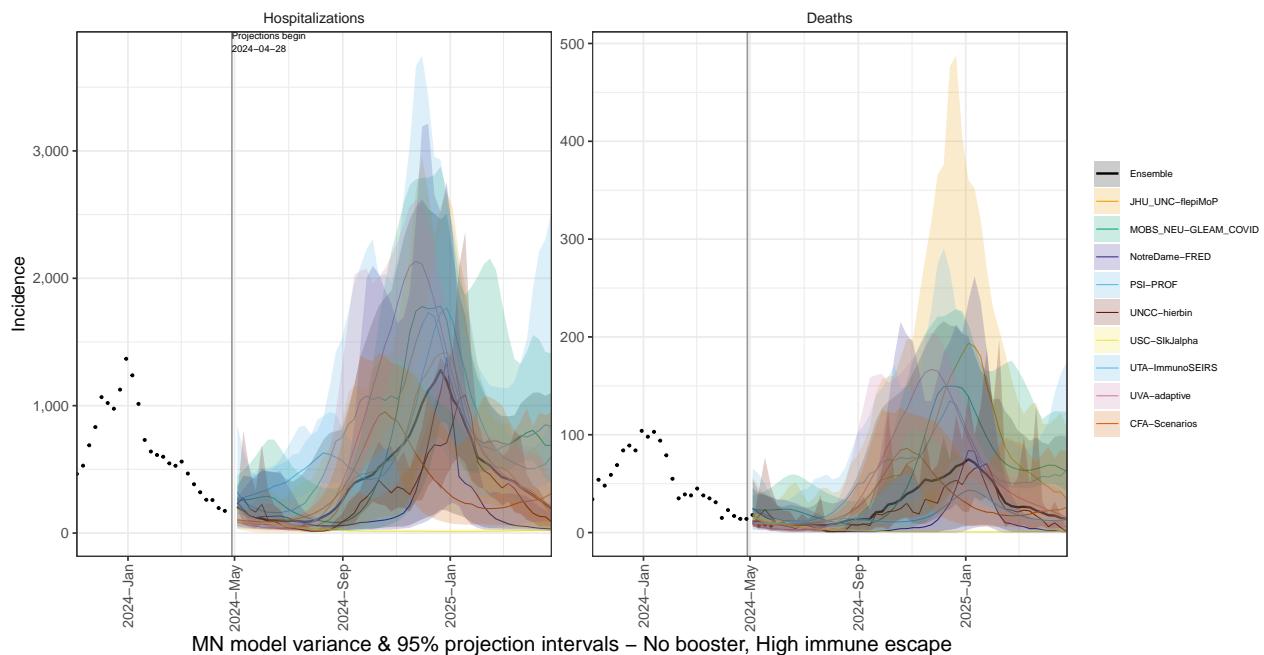
MD model variance & 95% projection intervals – No booster, High immune escape



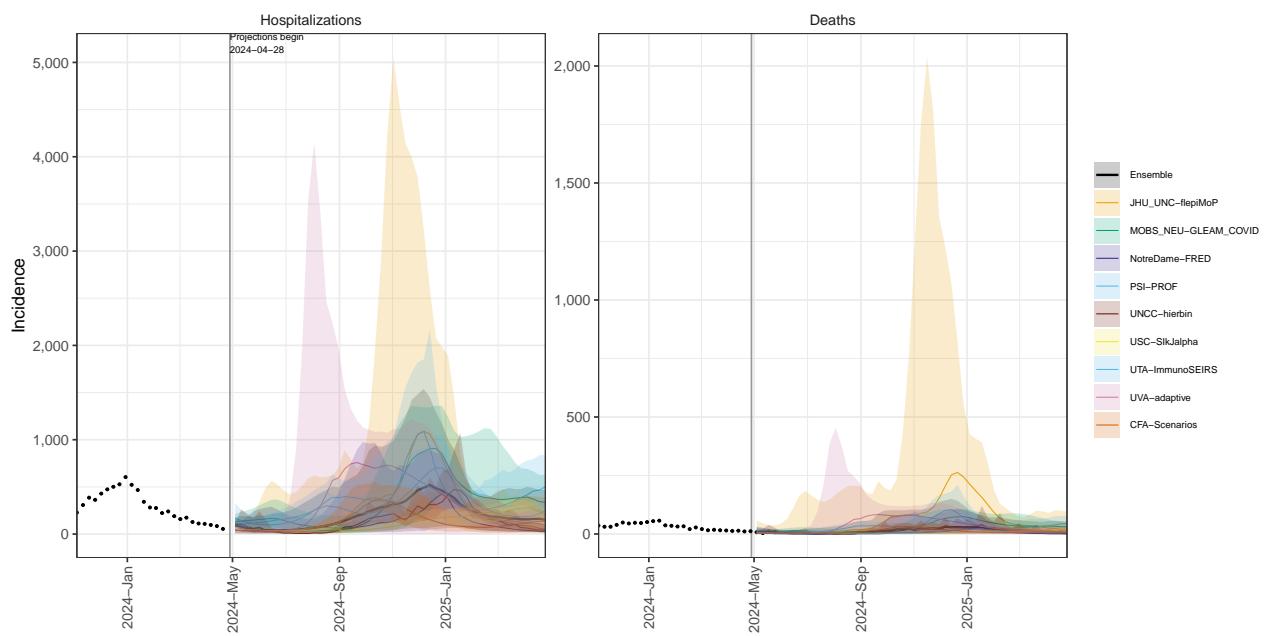
MA model variance & 95% projection intervals – No booster, High immune escape



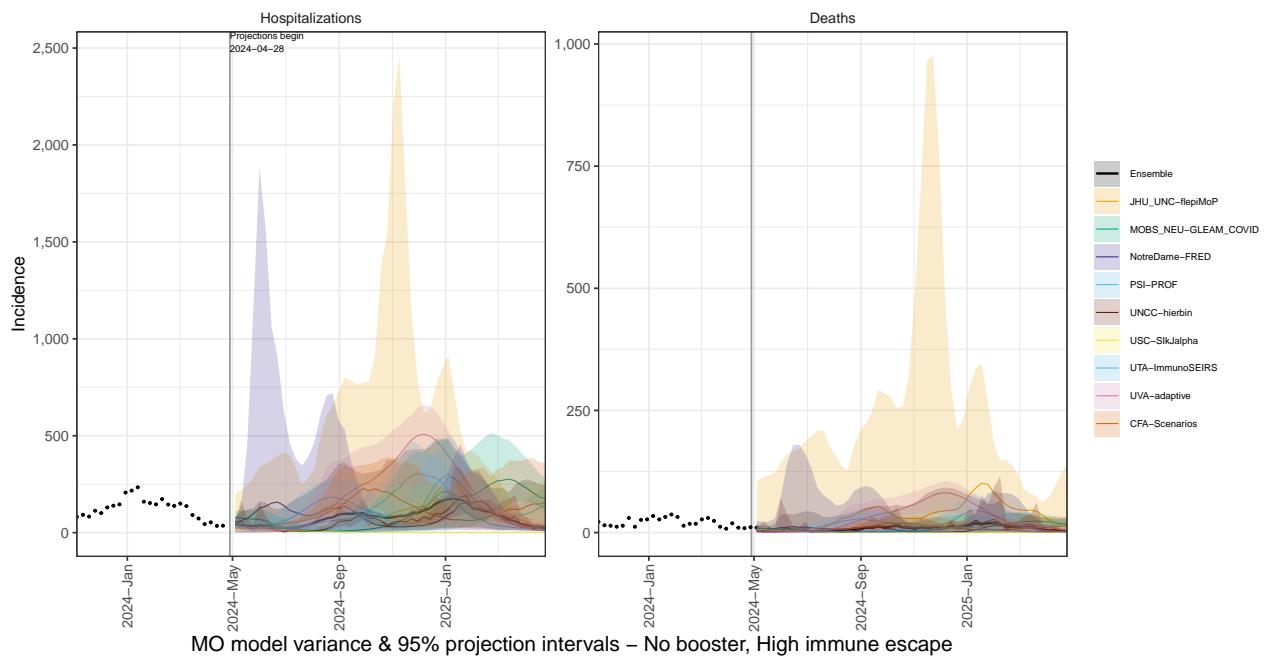
MI model variance & 95% projection intervals – No booster, High immune escape



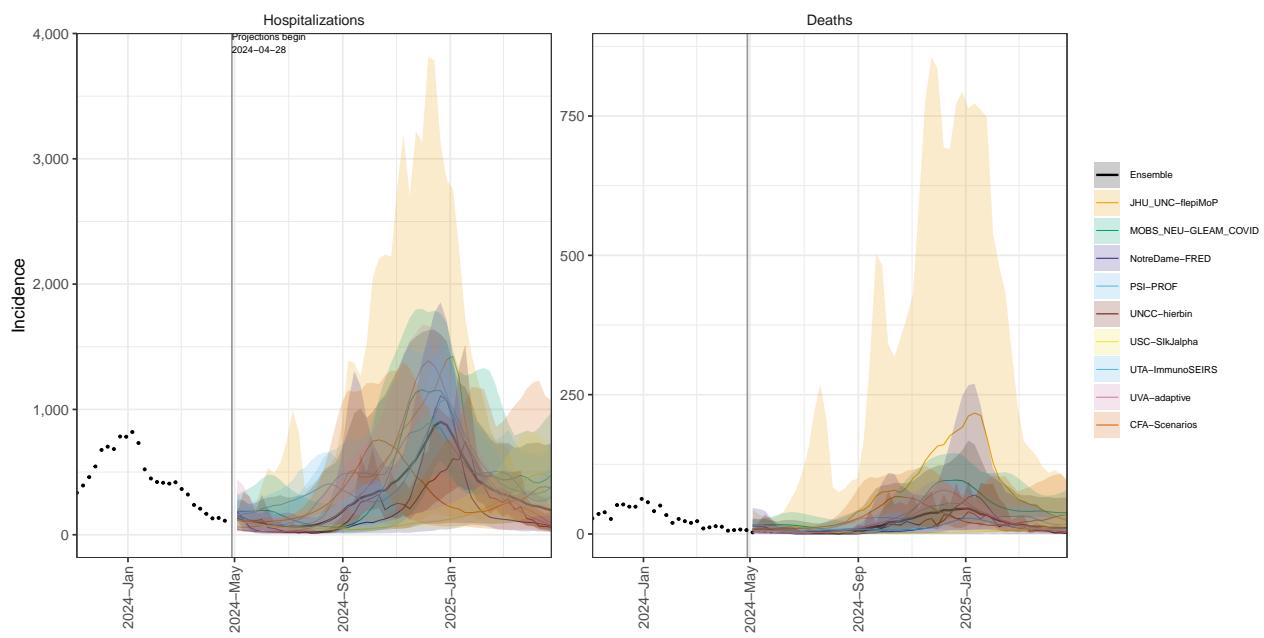
MN model variance & 95% projection intervals – No booster, High immune escape



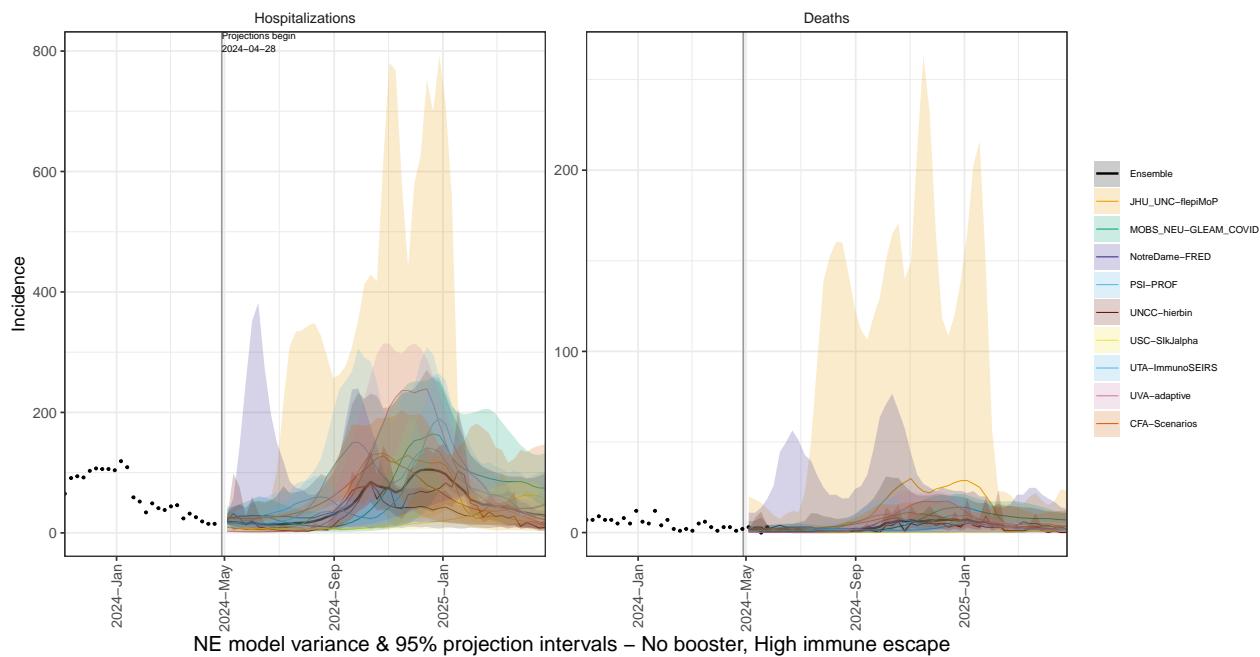
MS model variance & 95% projection intervals – No booster, High immune escape



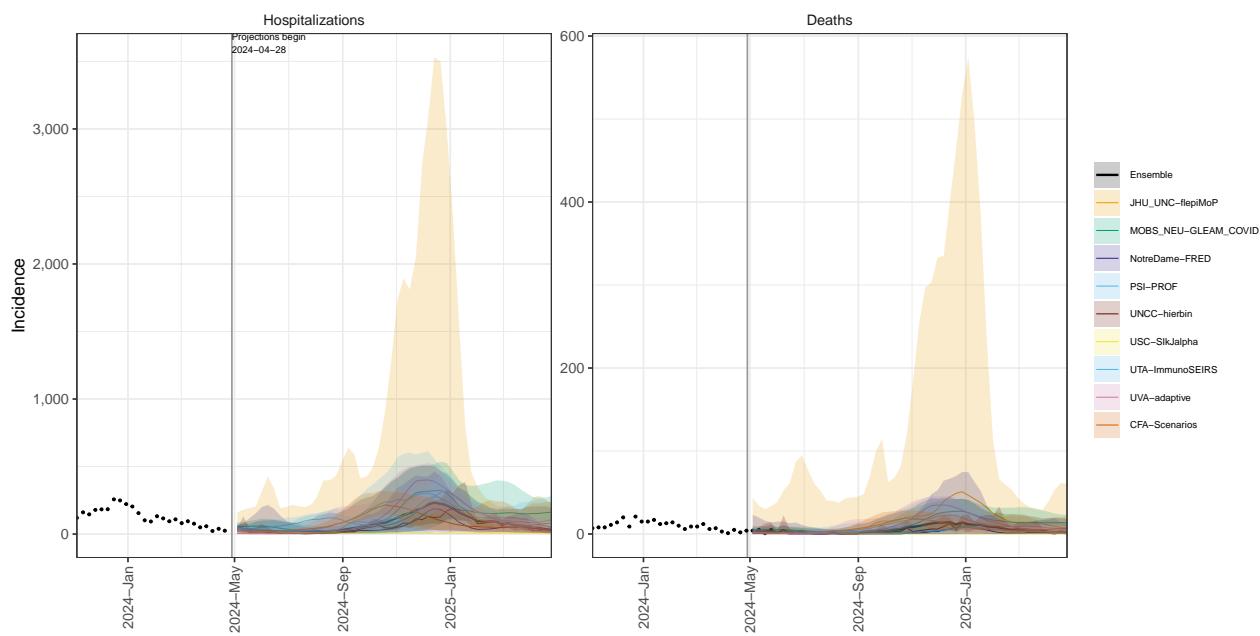
MO model variance & 95% projection intervals – No booster, High immune escape



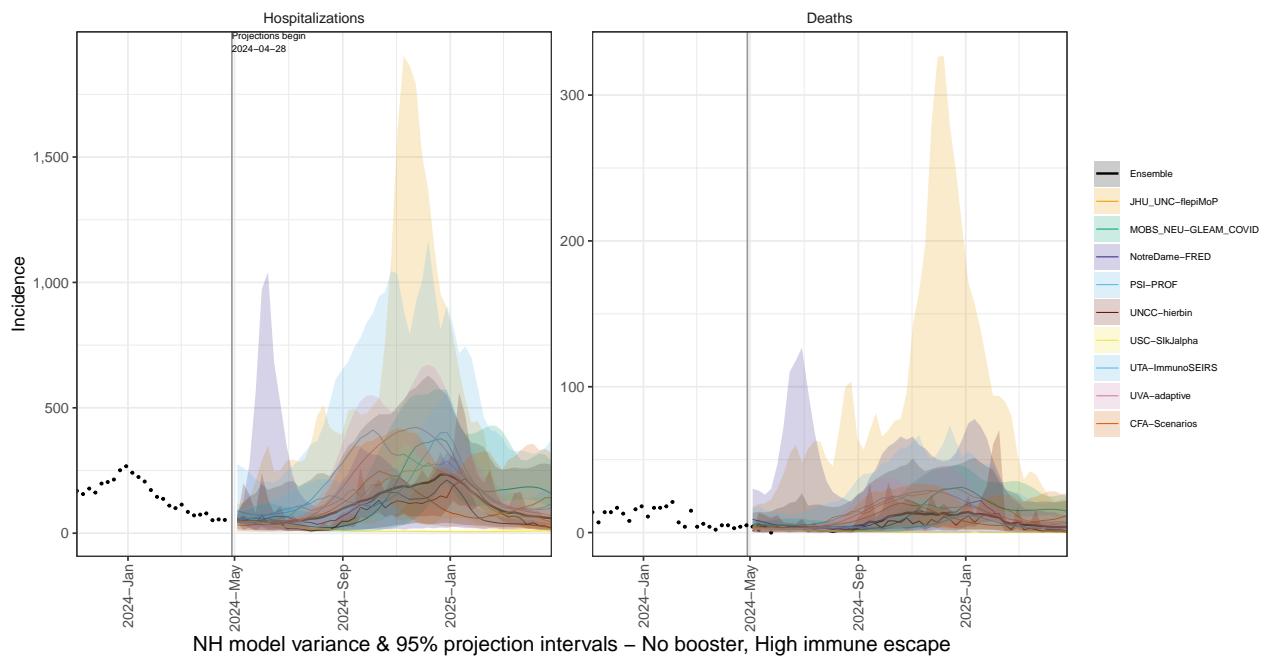
MT model variance & 95% projection intervals – No booster, High immune escape



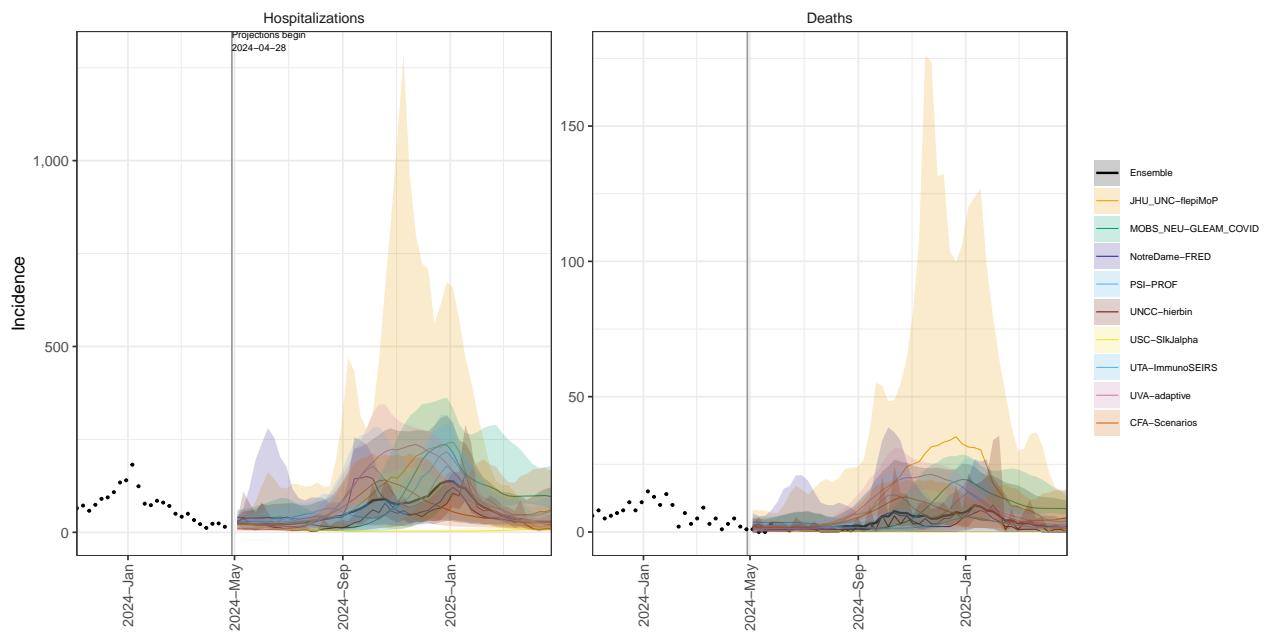
NE model variance & 95% projection intervals – No booster, High immune escape



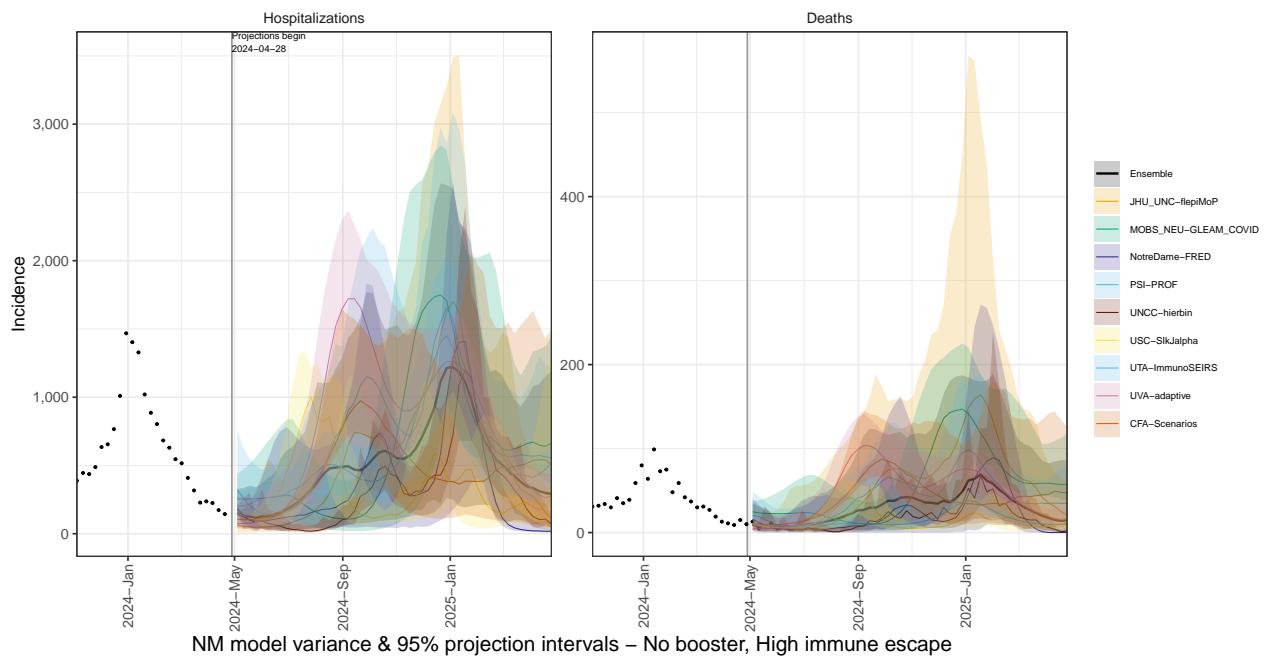
NV model variance & 95% projection intervals – No booster, High immune escape



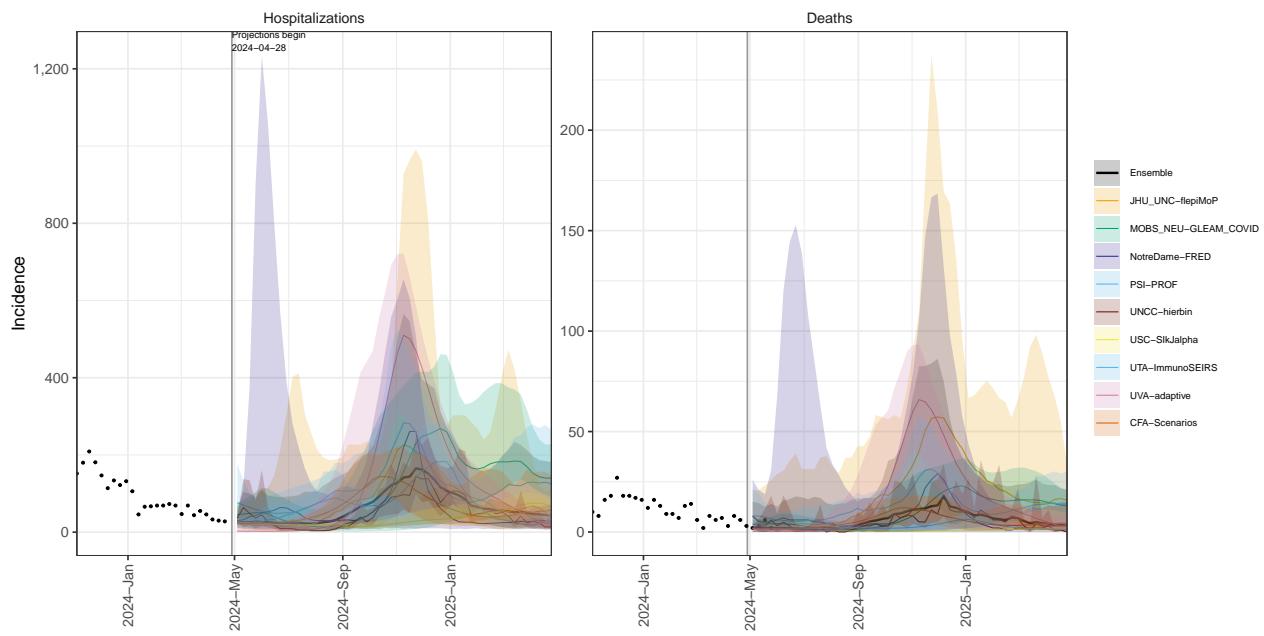
NH model variance & 95% projection intervals – No booster, High immune escape



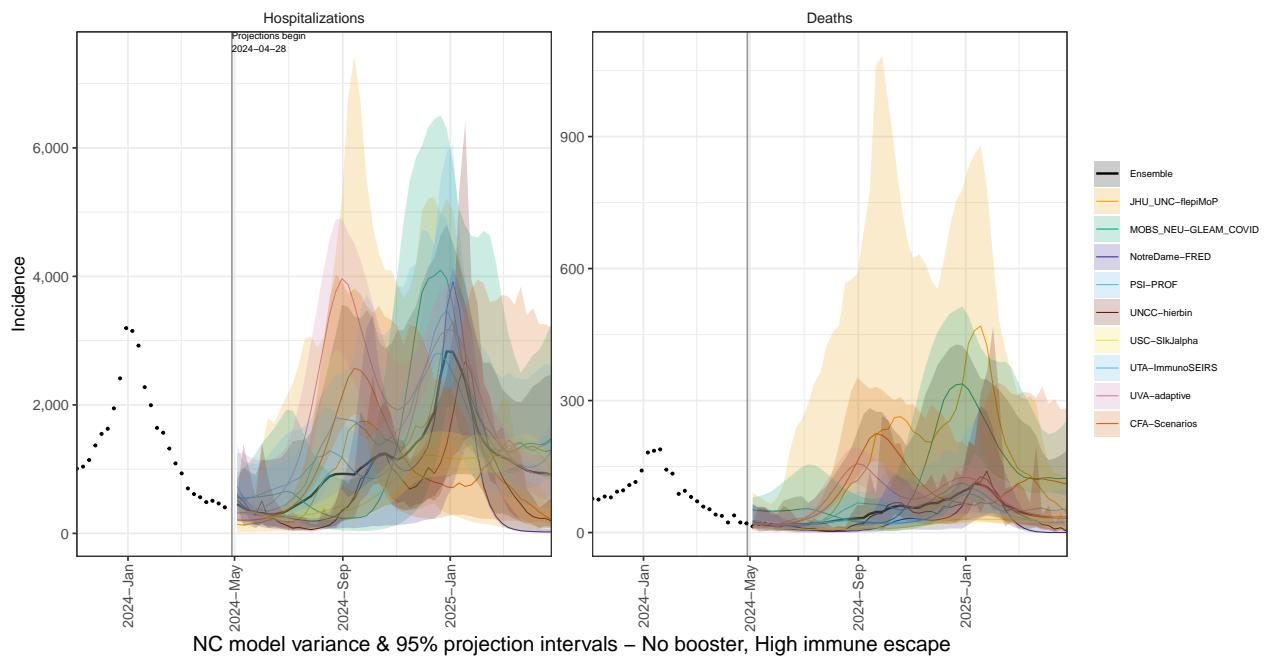
NJ model variance & 95% projection intervals – No booster, High immune escape



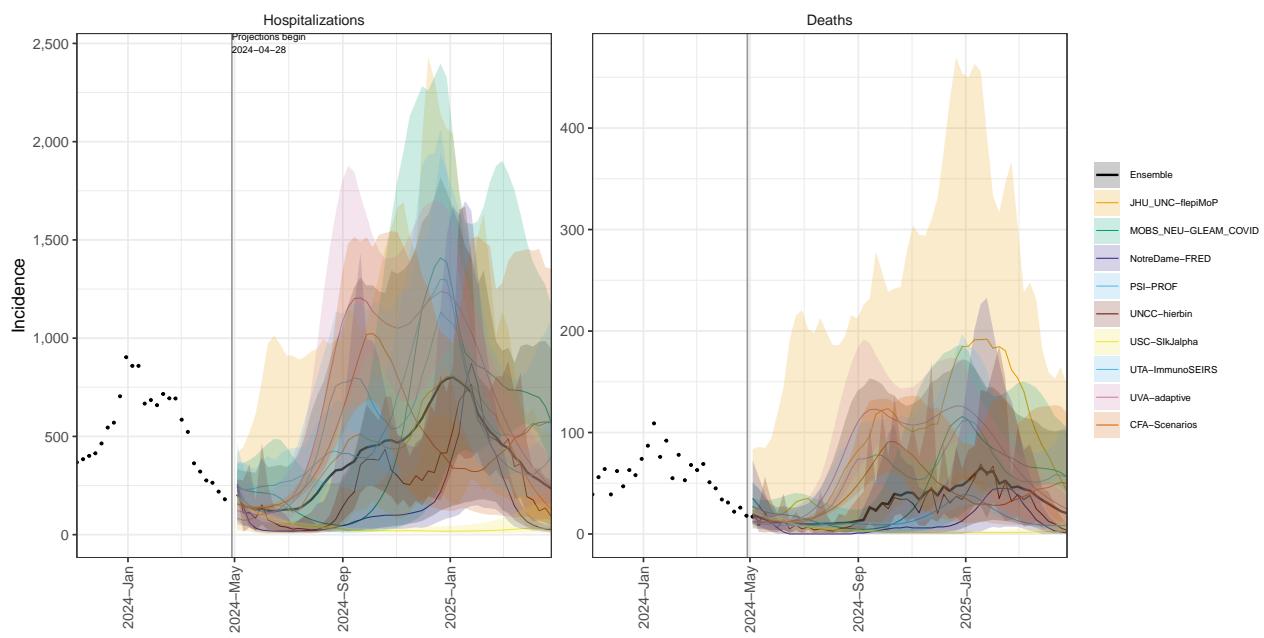
NM model variance & 95% projection intervals – No booster, High immune escape



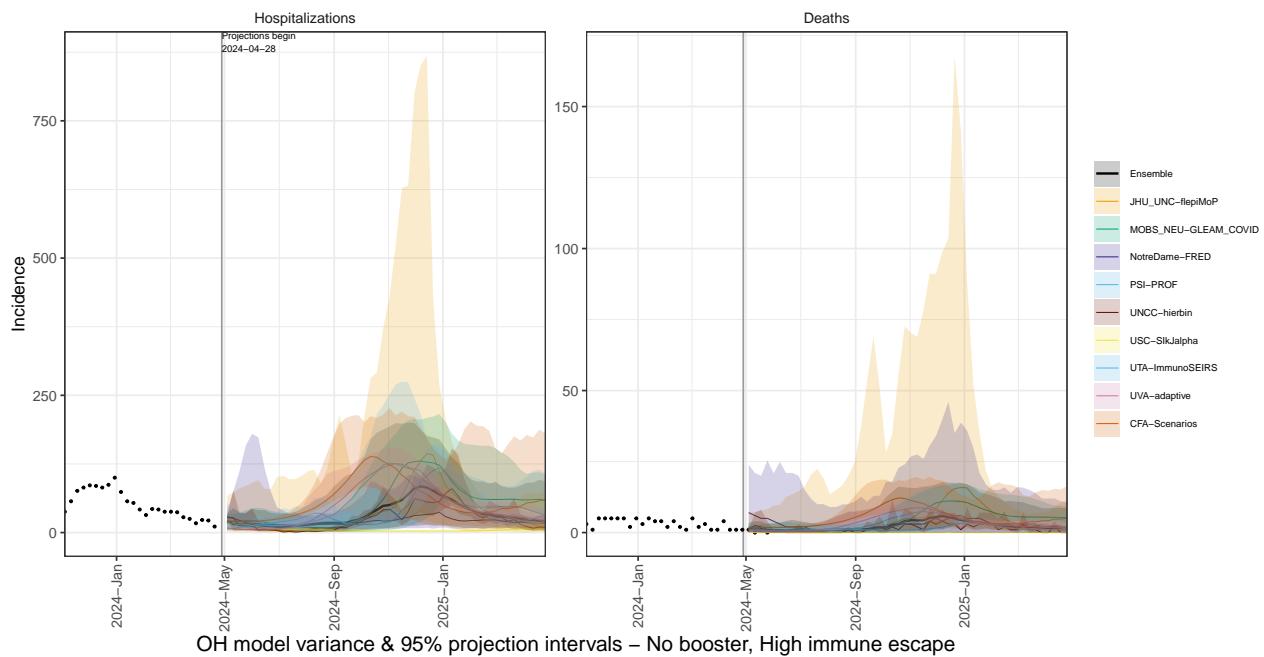
NY model variance & 95% projection intervals – No booster, High immune escape



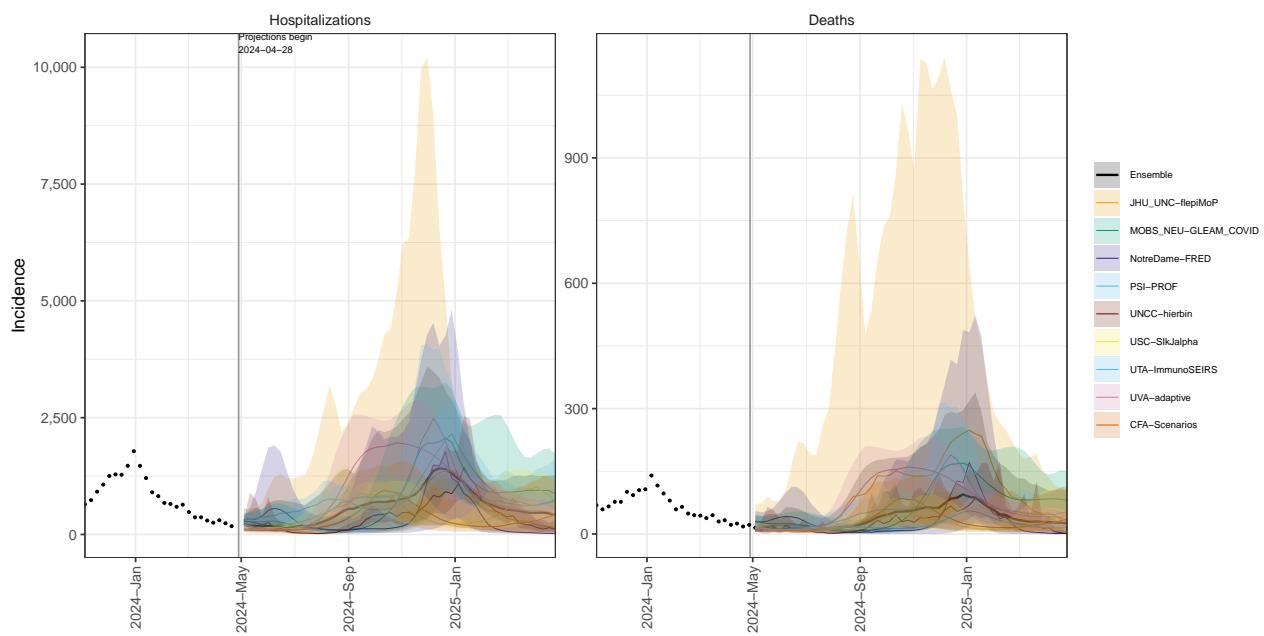
NC model variance & 95% projection intervals – No booster, High immune escape



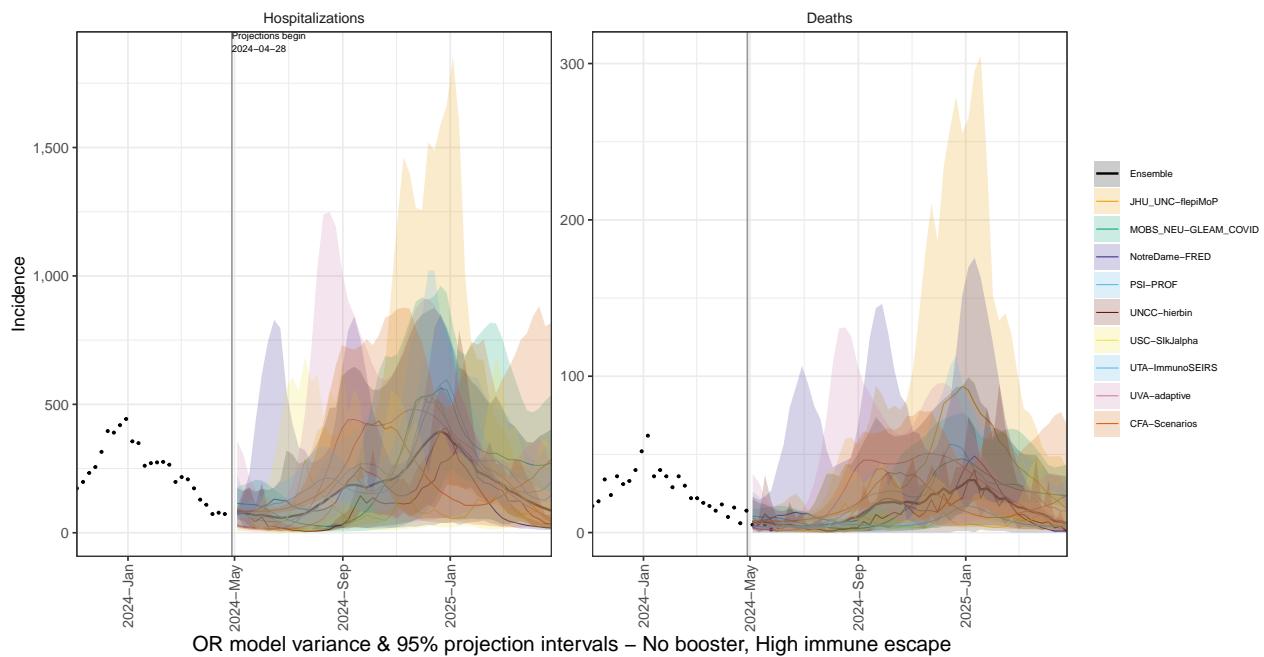
ND model variance & 95% projection intervals – No booster, High immune escape



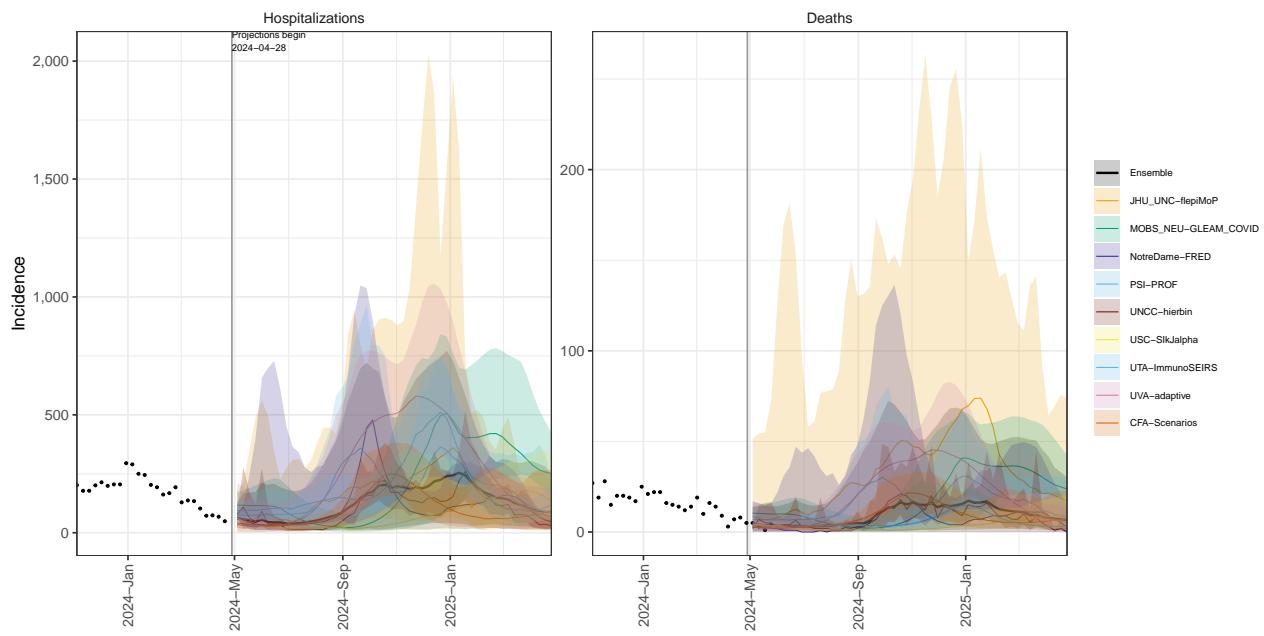
OH model variance & 95% projection intervals – No booster, High immune escape



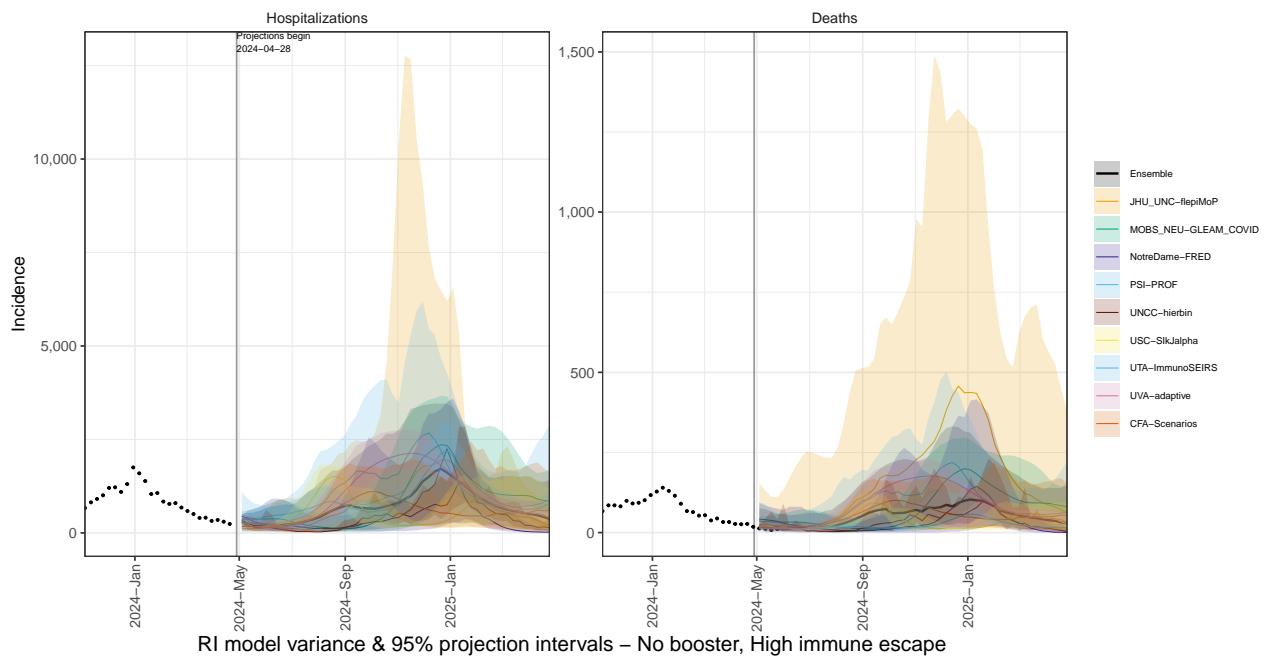
OK model variance & 95% projection intervals – No booster, High immune escape



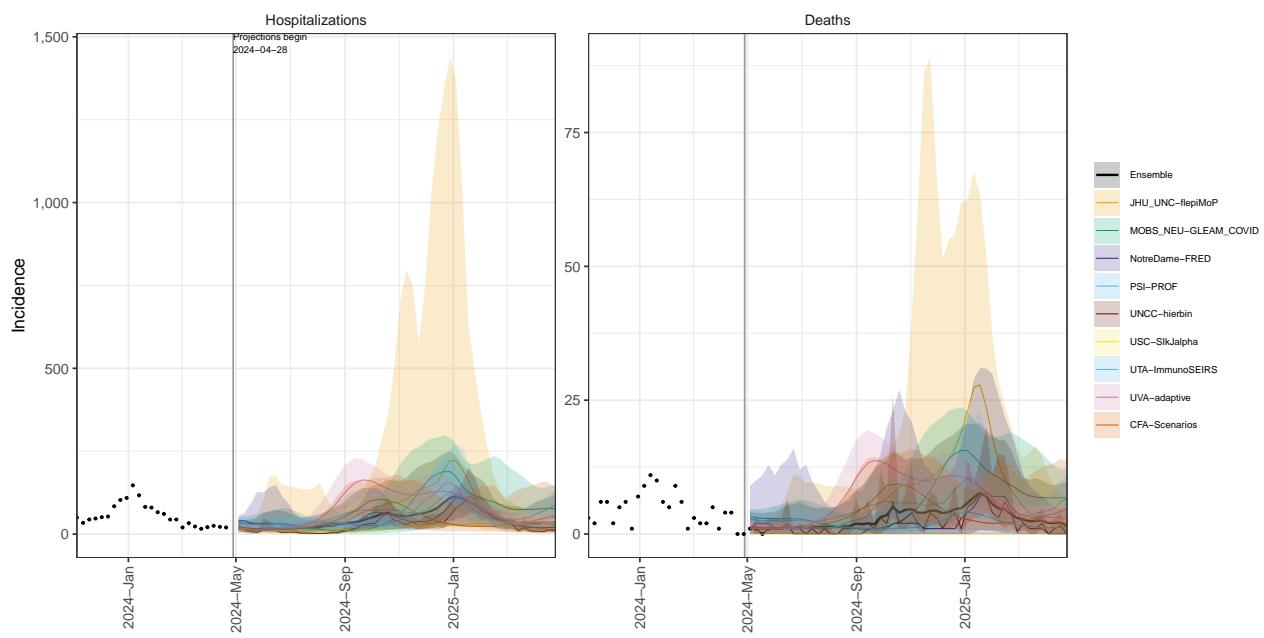
OR model variance & 95% projection intervals – No booster, High immune escape



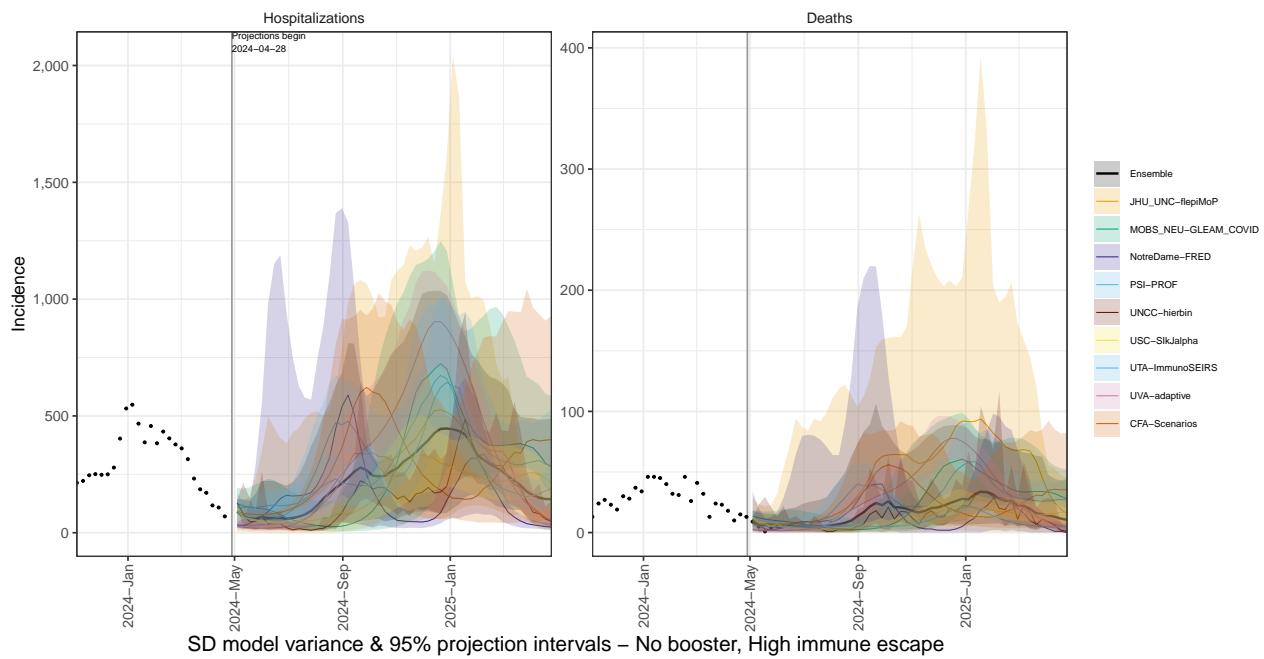
PA model variance & 95% projection intervals – No booster, High immune escape



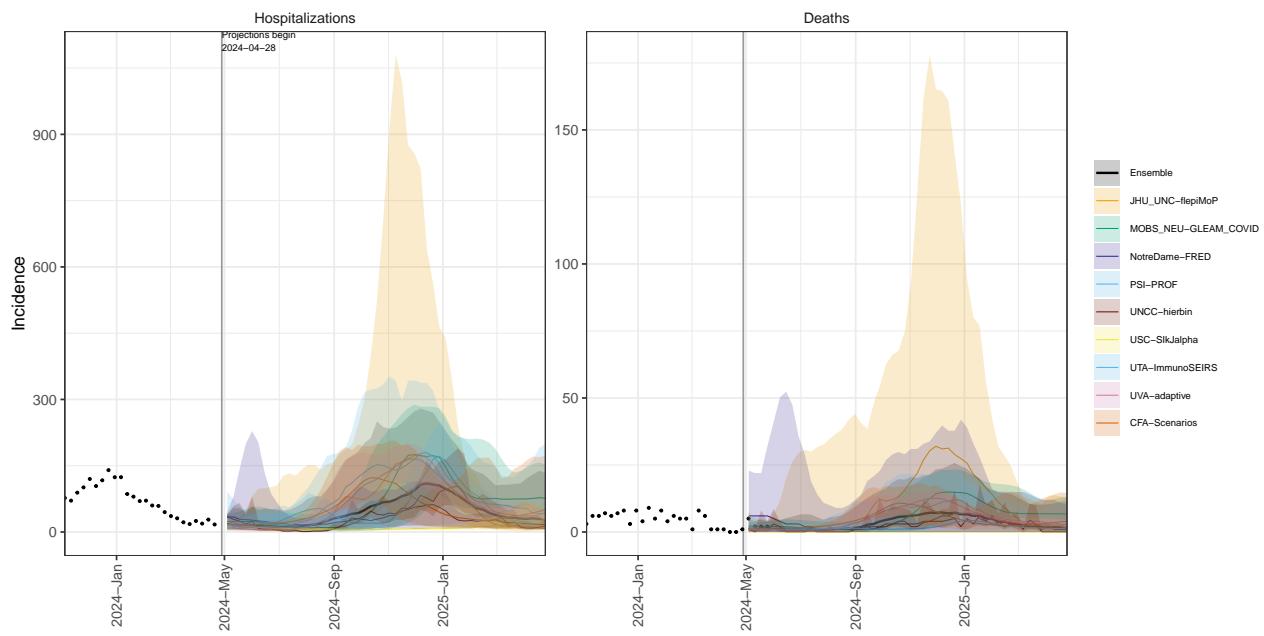
RI model variance & 95% projection intervals – No booster, High immune escape



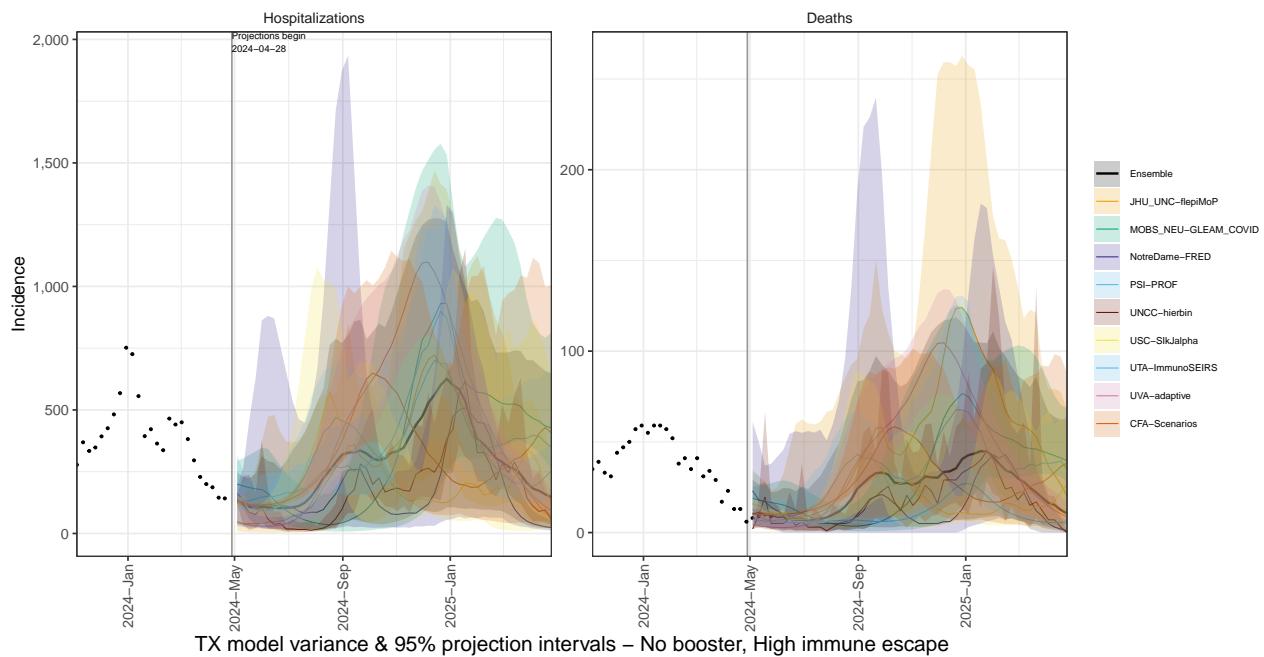
SC model variance & 95% projection intervals – No booster, High immune escape



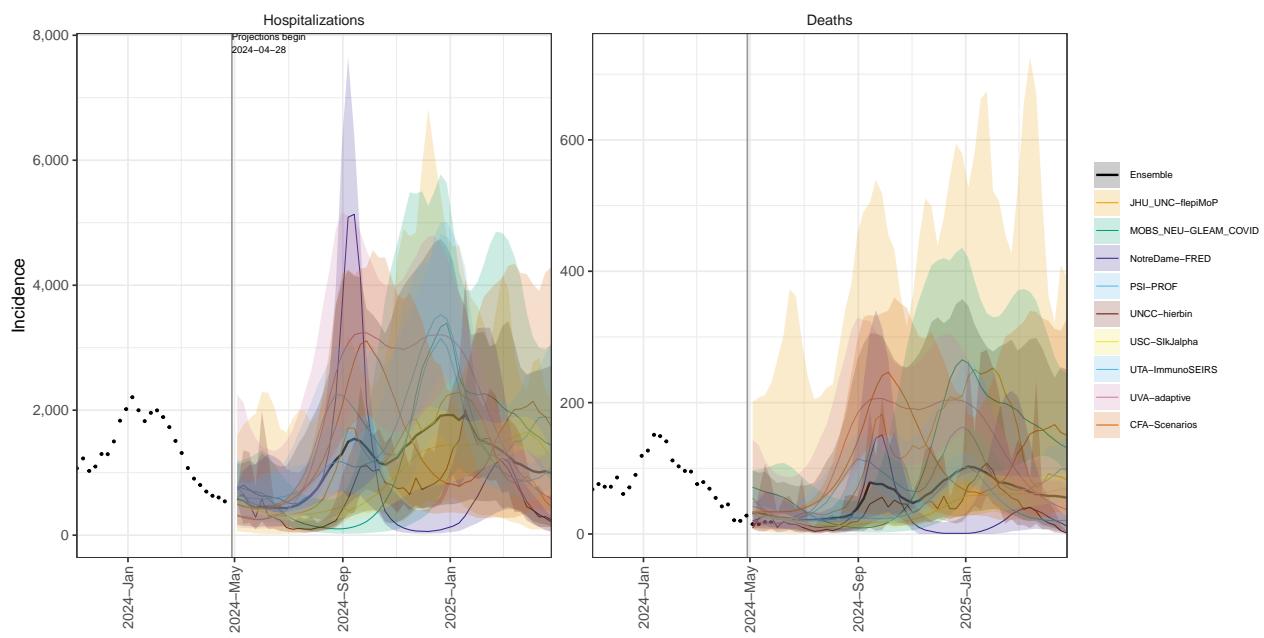
SD model variance & 95% projection intervals – No booster, High immune escape



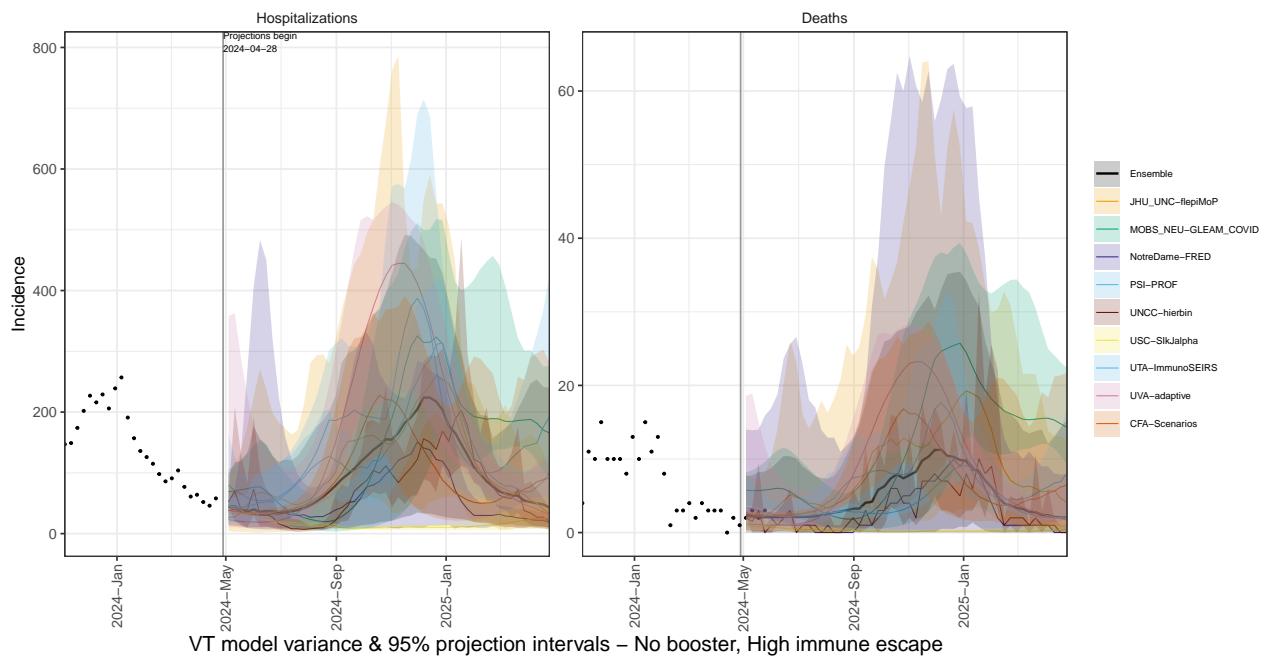
TN model variance & 95% projection intervals – No booster, High immune escape



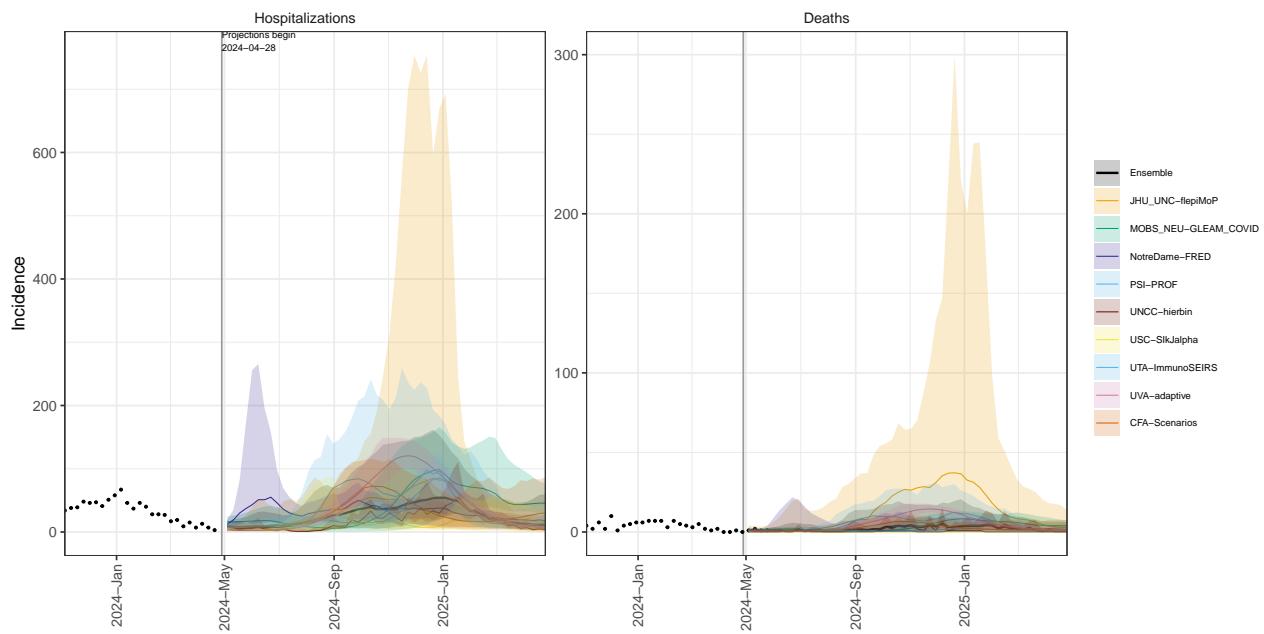
TX model variance & 95% projection intervals – No booster, High immune escape



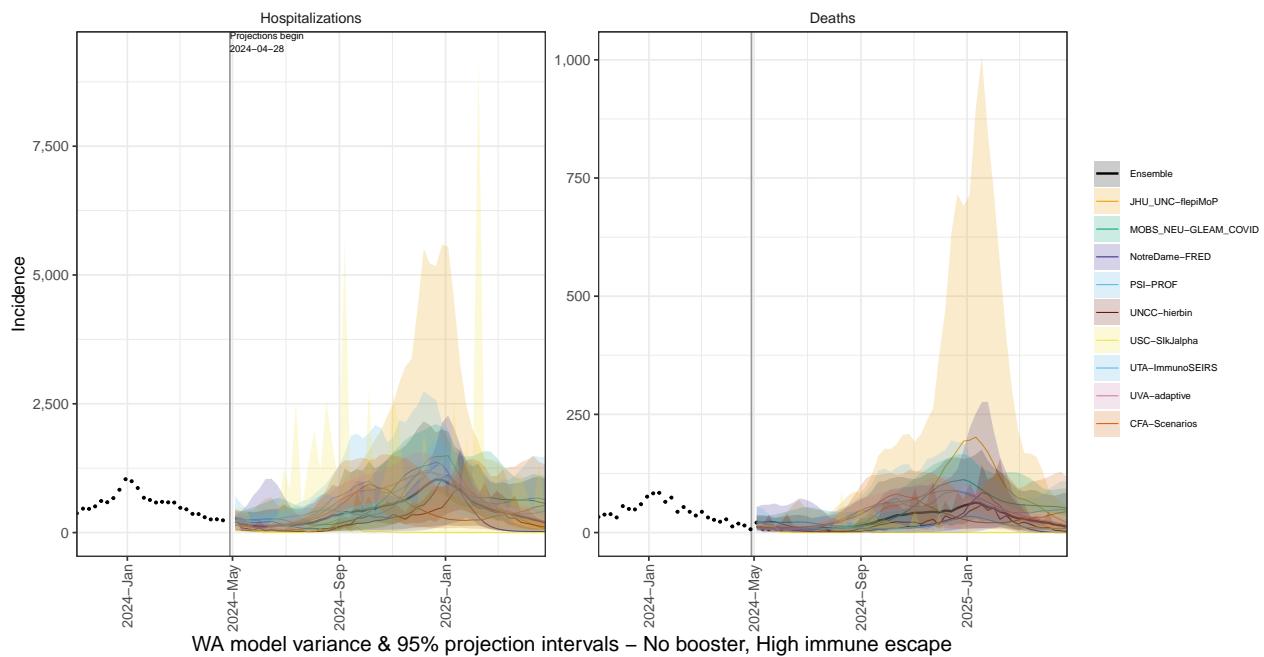
UT model variance & 95% projection intervals – No booster, High immune escape



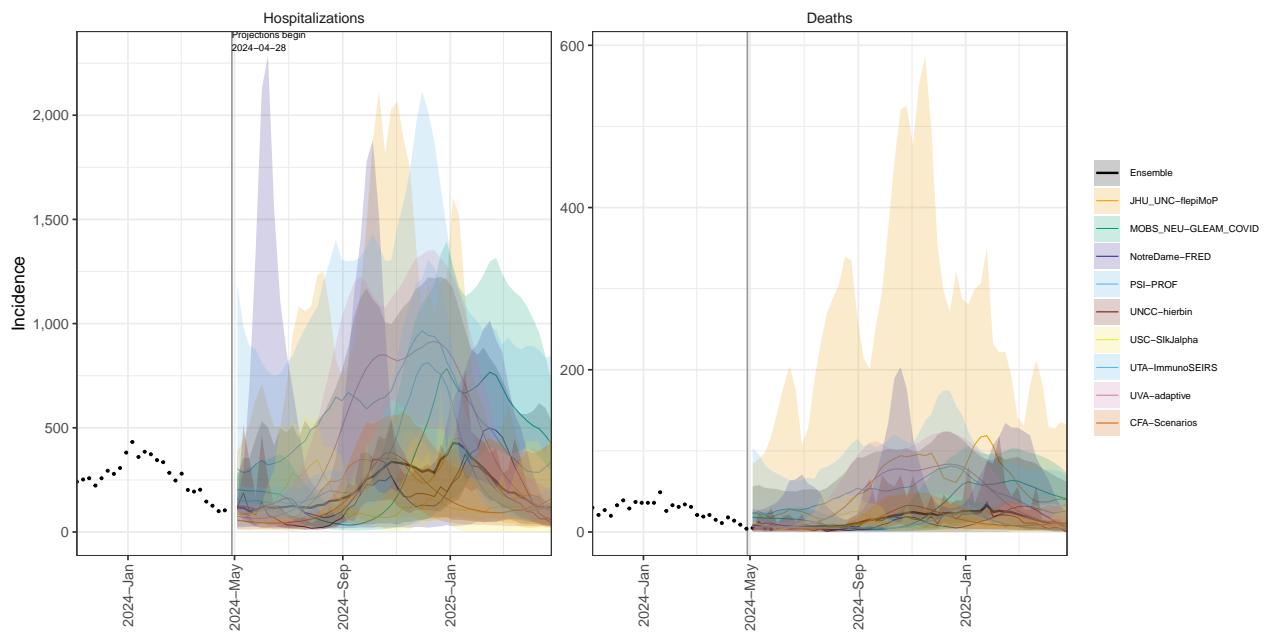
VT model variance & 95% projection intervals – No booster, High immune escape



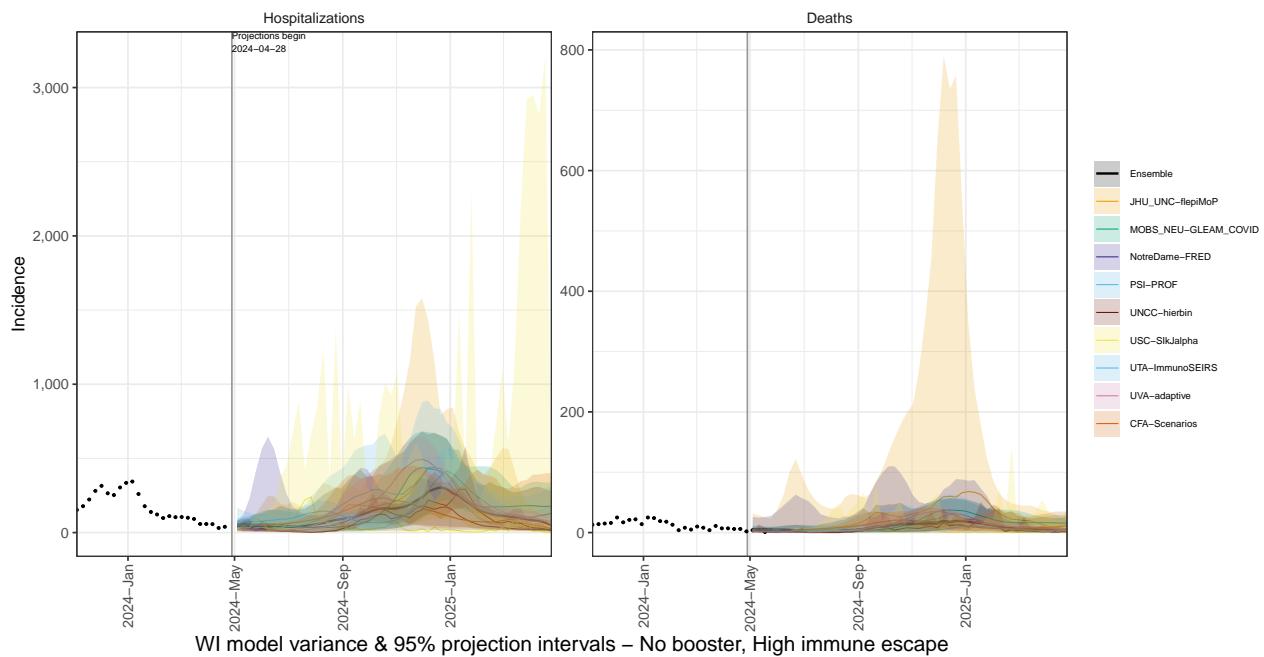
VA model variance & 95% projection intervals – No booster, High immune escape



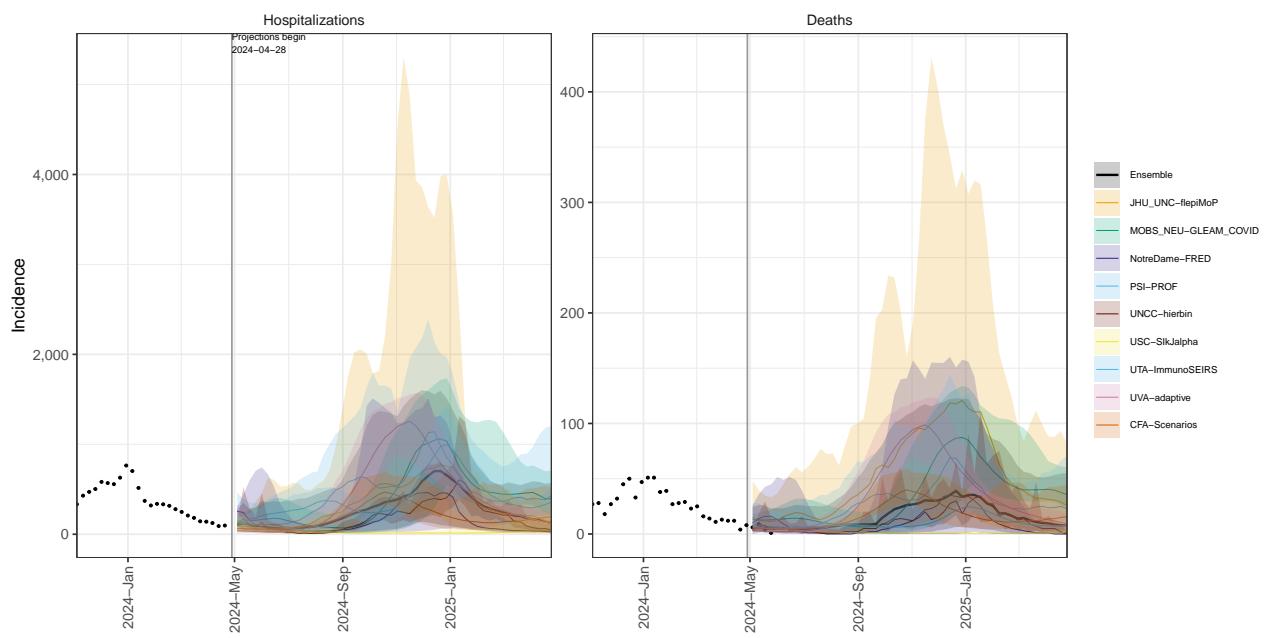
WA model variance & 95% projection intervals – No booster, High immune escape



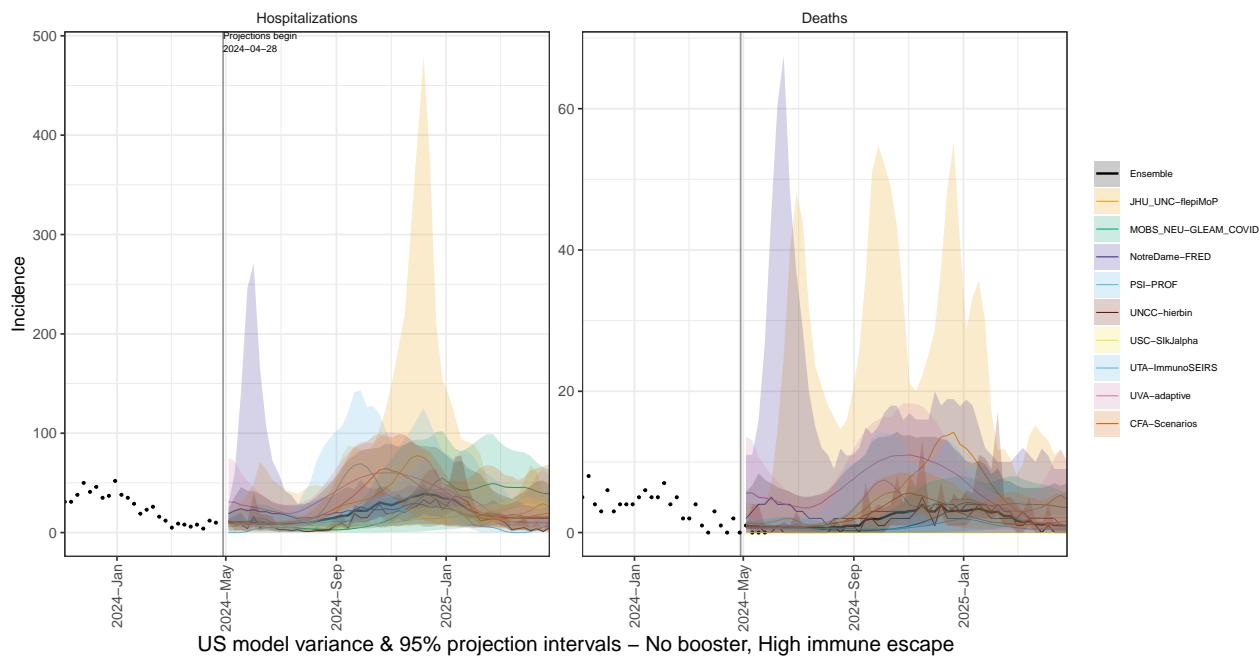
WV model variance & 95% projection intervals – No booster, High immune escape



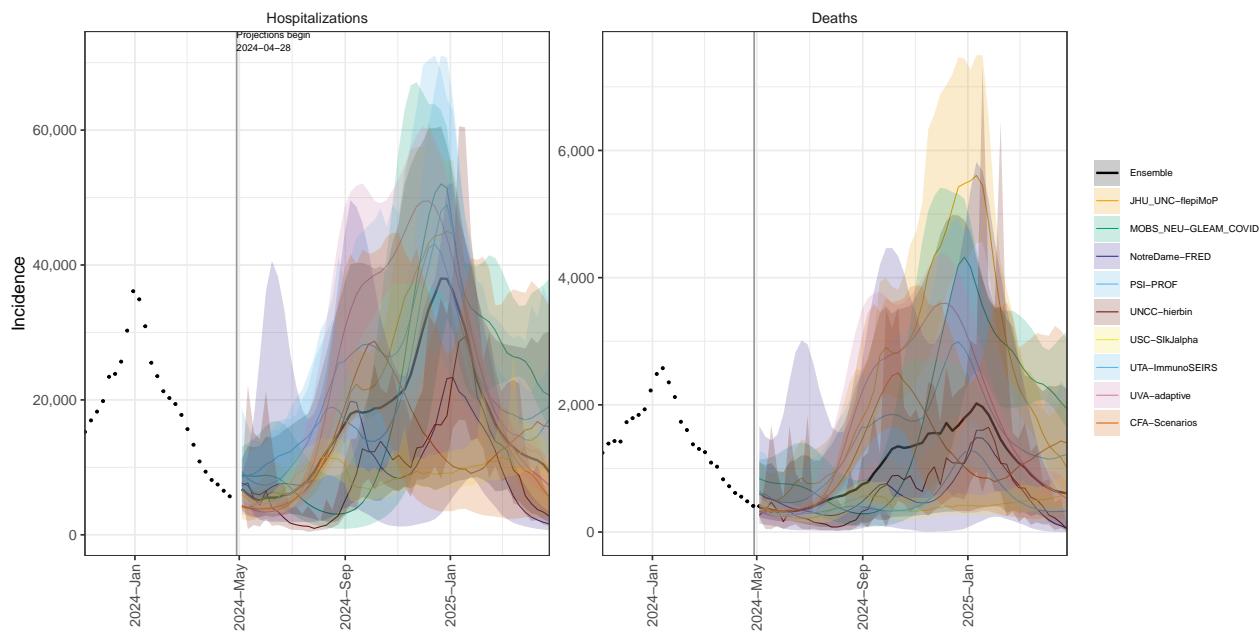
WI model variance & 95% projection intervals – No booster, High immune escape



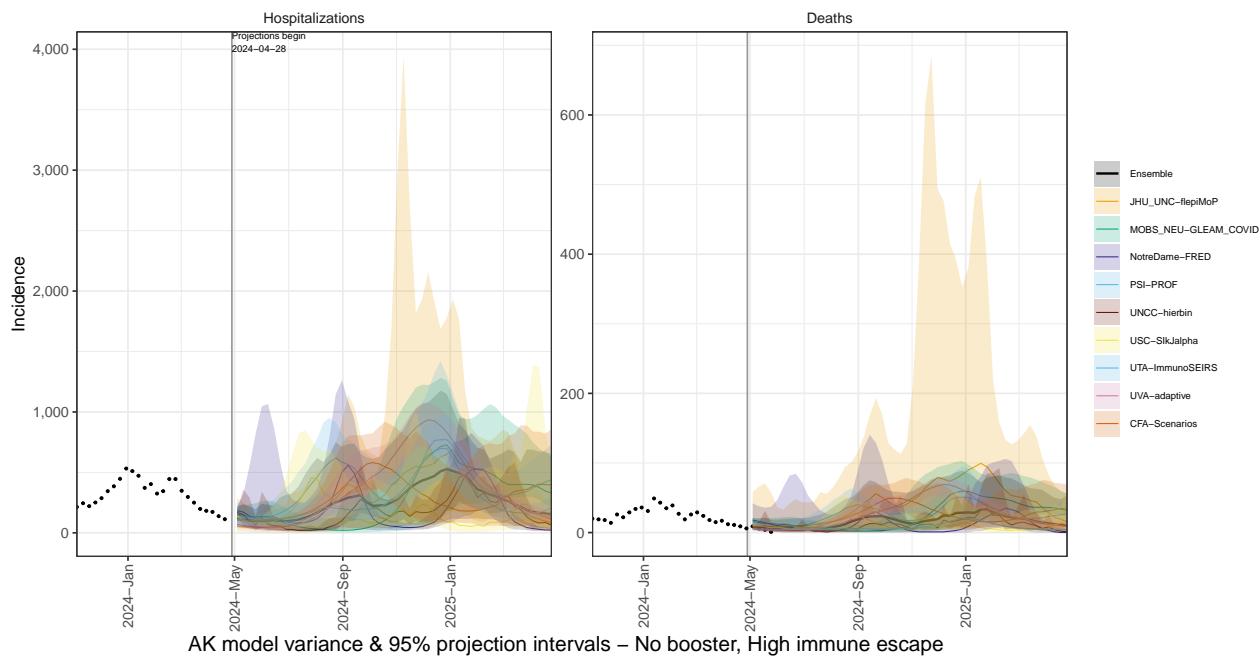
WY model variance & 95% projection intervals – No booster, High immune escape



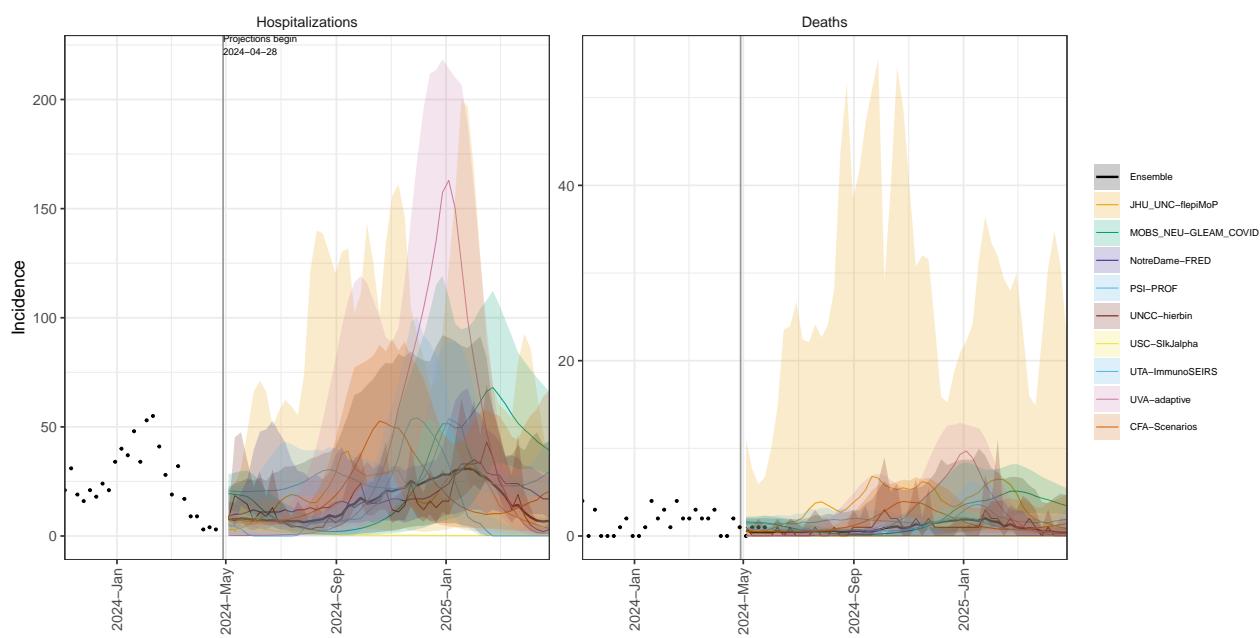
US model variance & 95% projection intervals – No booster, High immune escape



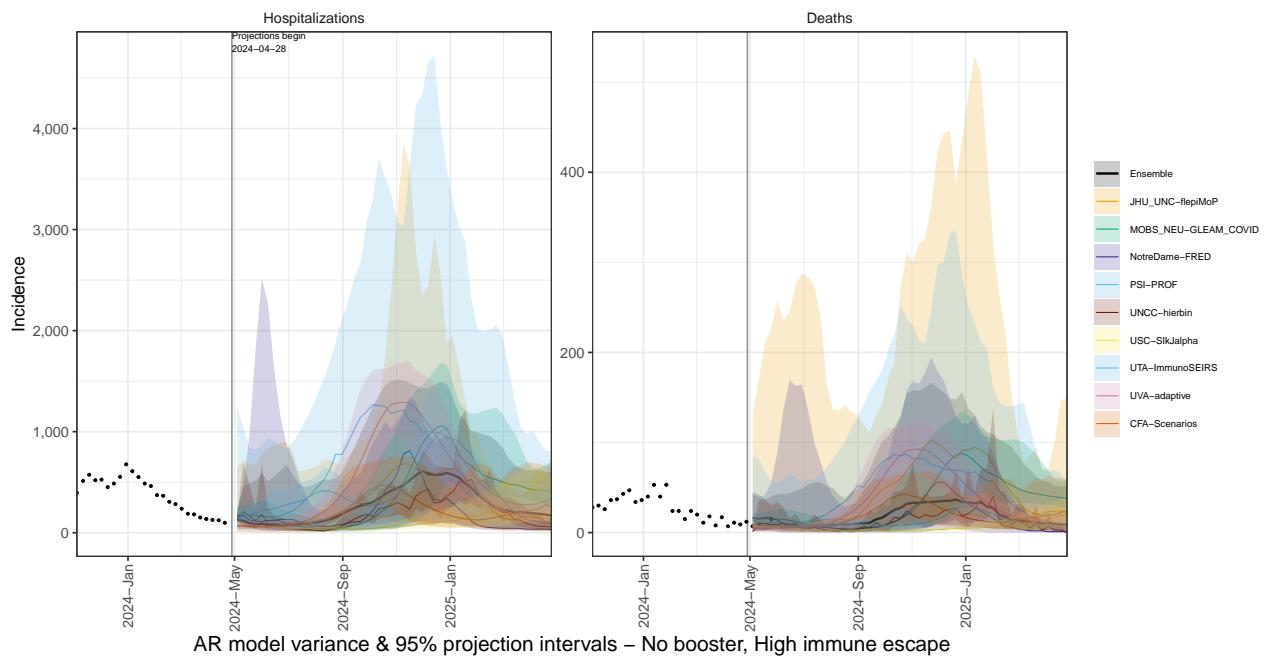
AL model variance & 95% projection intervals – No booster, High immune escape



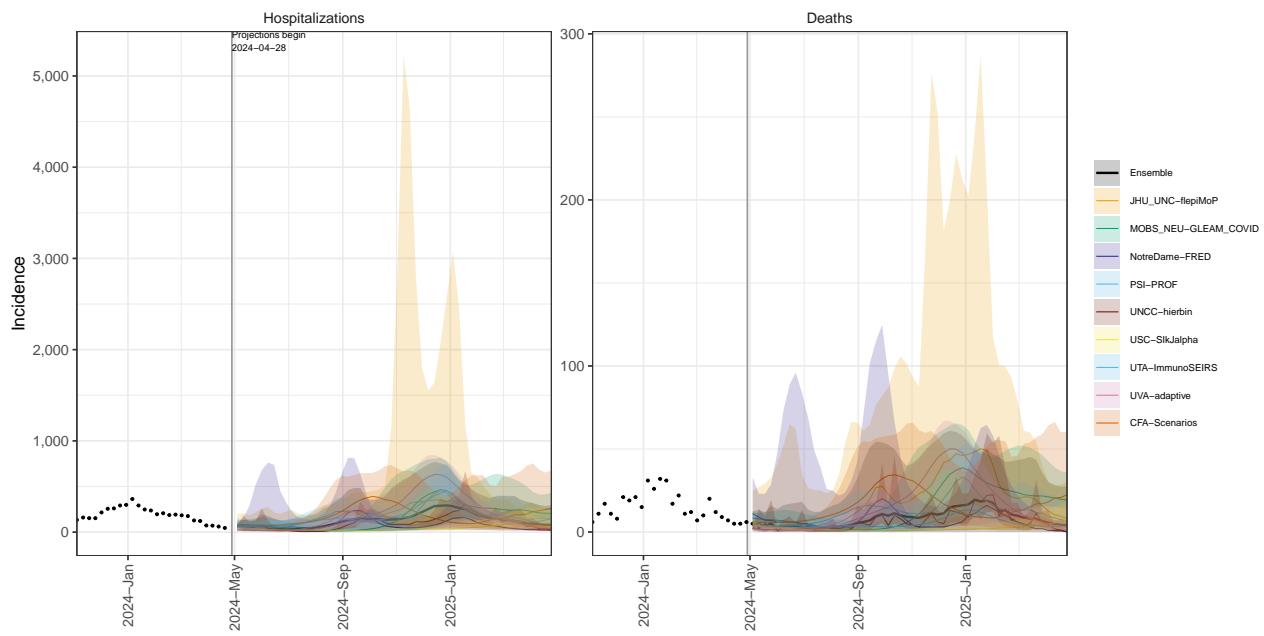
AK model variance & 95% projection intervals – No booster, High immune escape



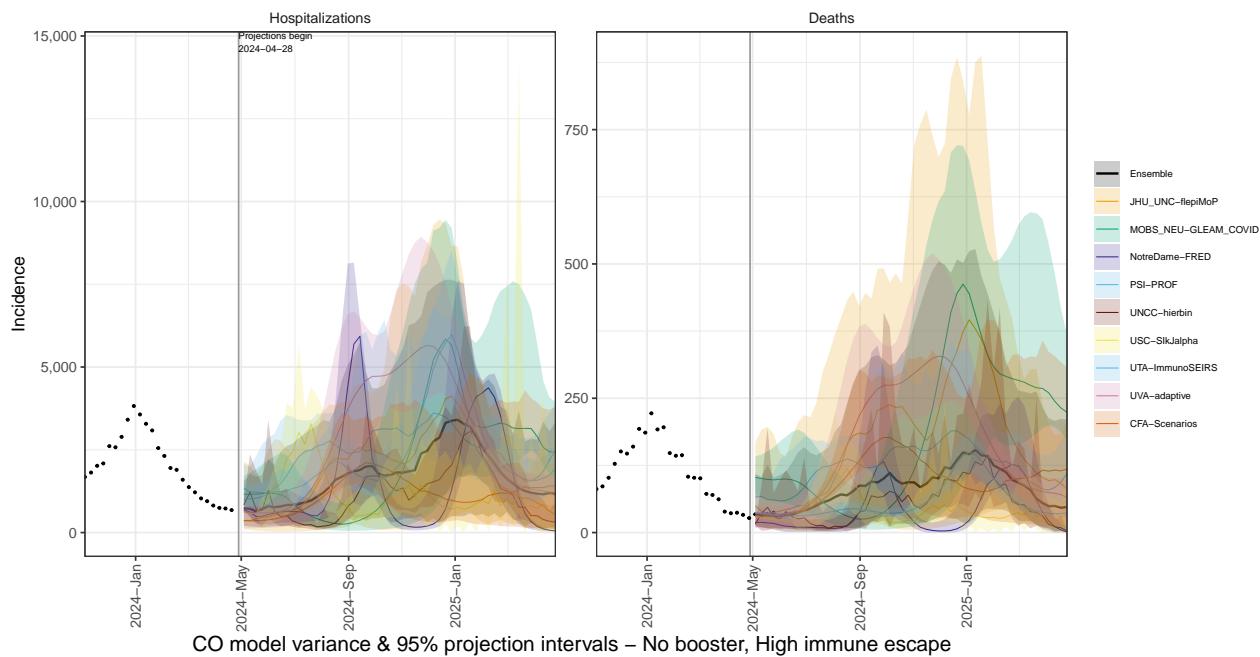
AZ model variance & 95% projection intervals – No booster, High immune escape



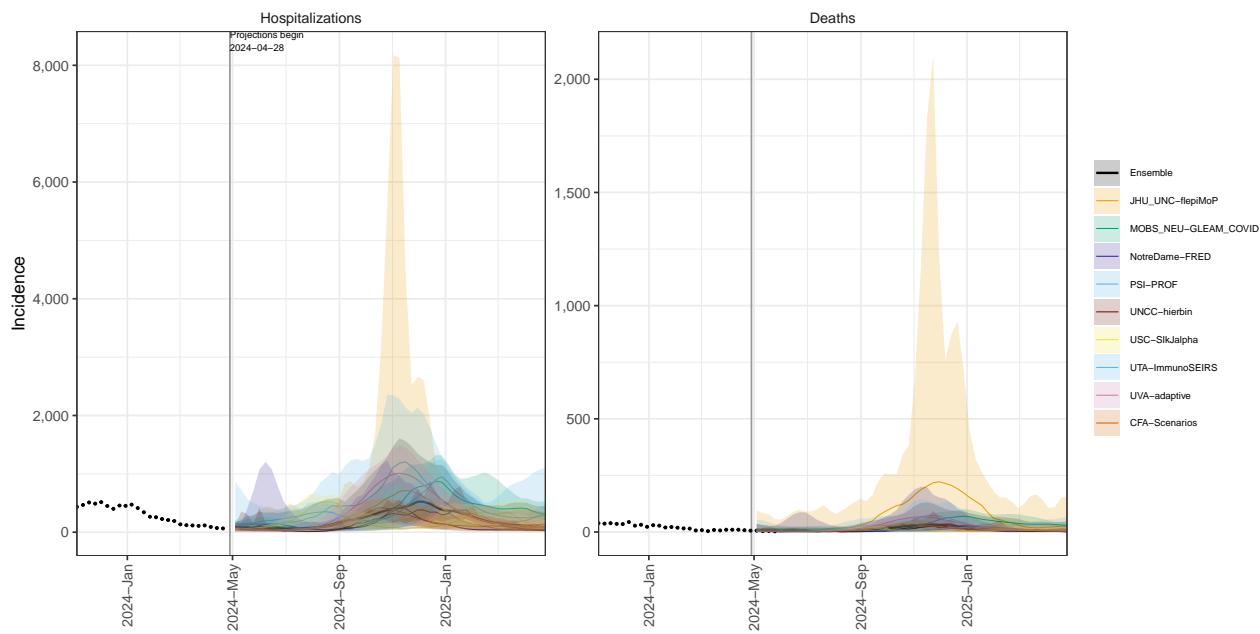
AR model variance & 95% projection intervals – No booster, High immune escape



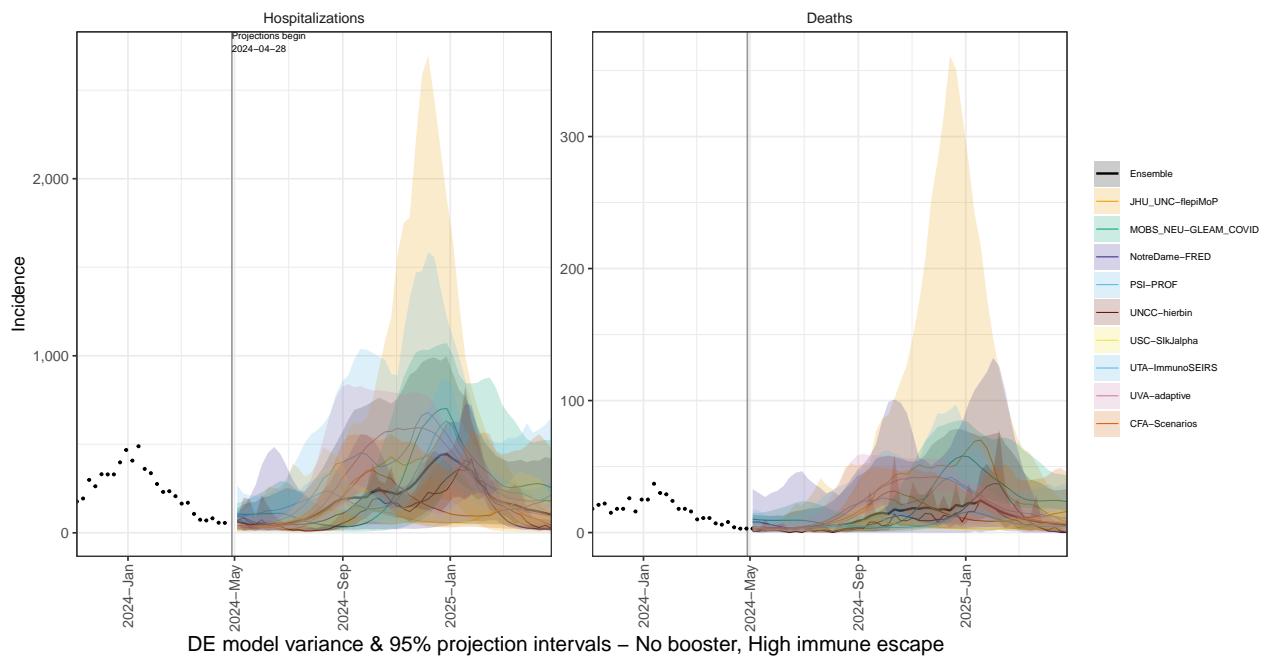
CA model variance & 95% projection intervals – No booster, High immune escape



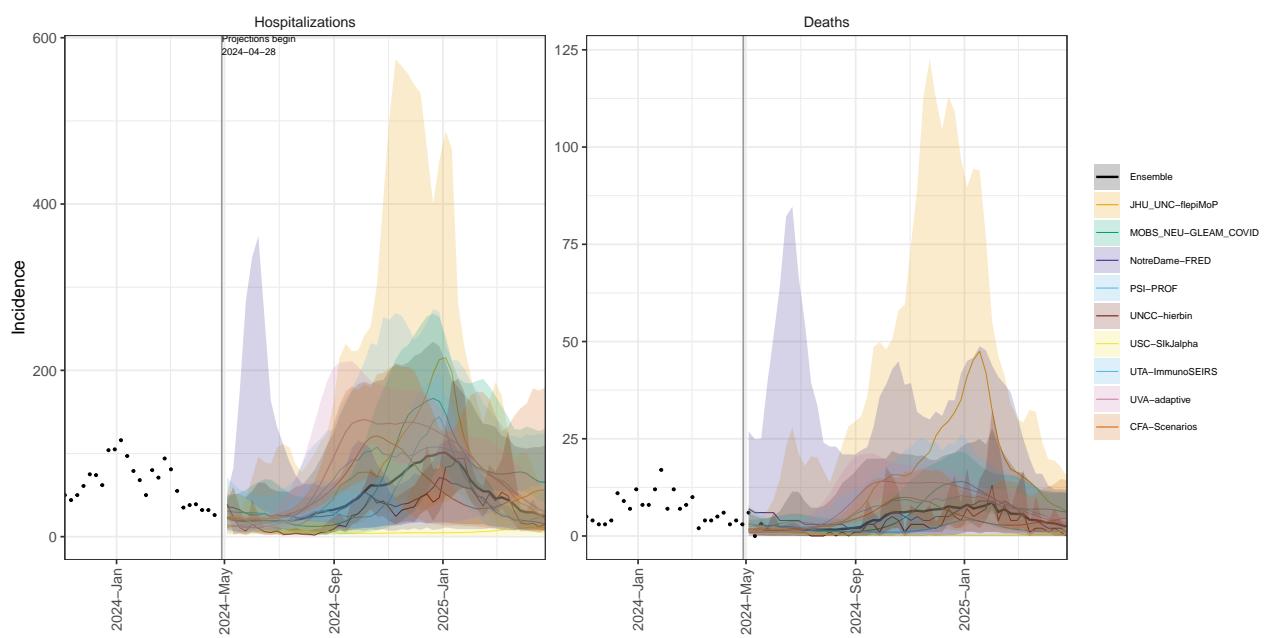
CO model variance & 95% projection intervals – No booster, High immune escape



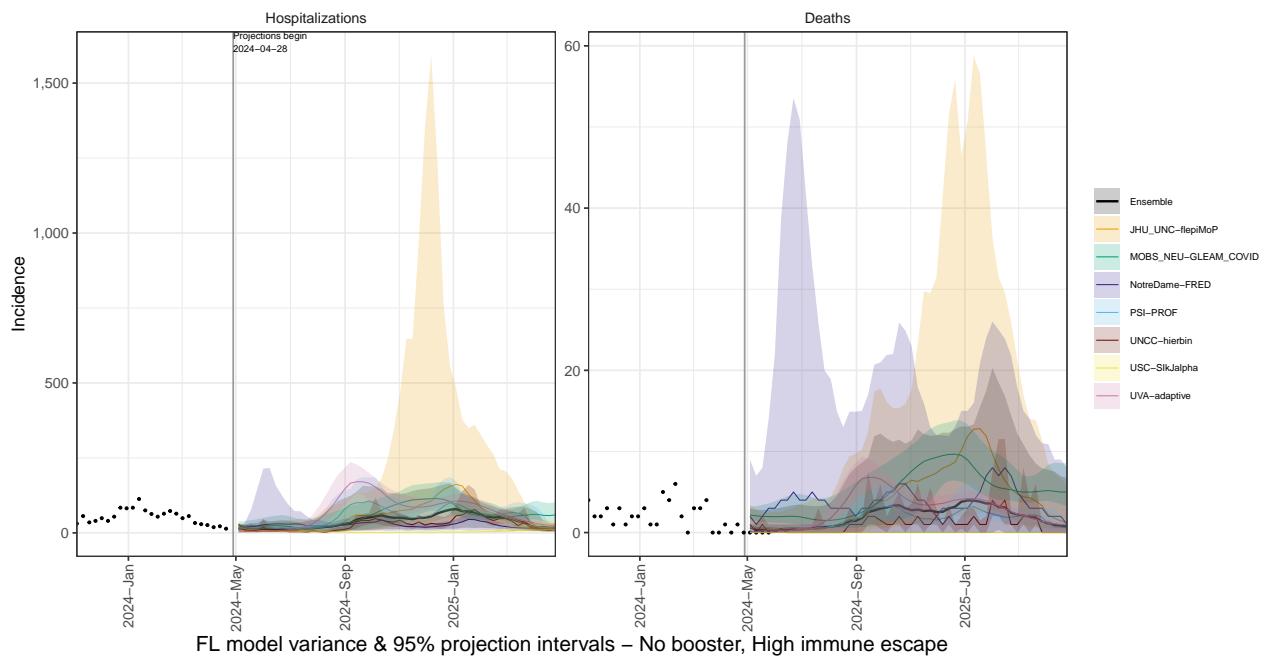
CT model variance & 95% projection intervals – No booster, High immune escape



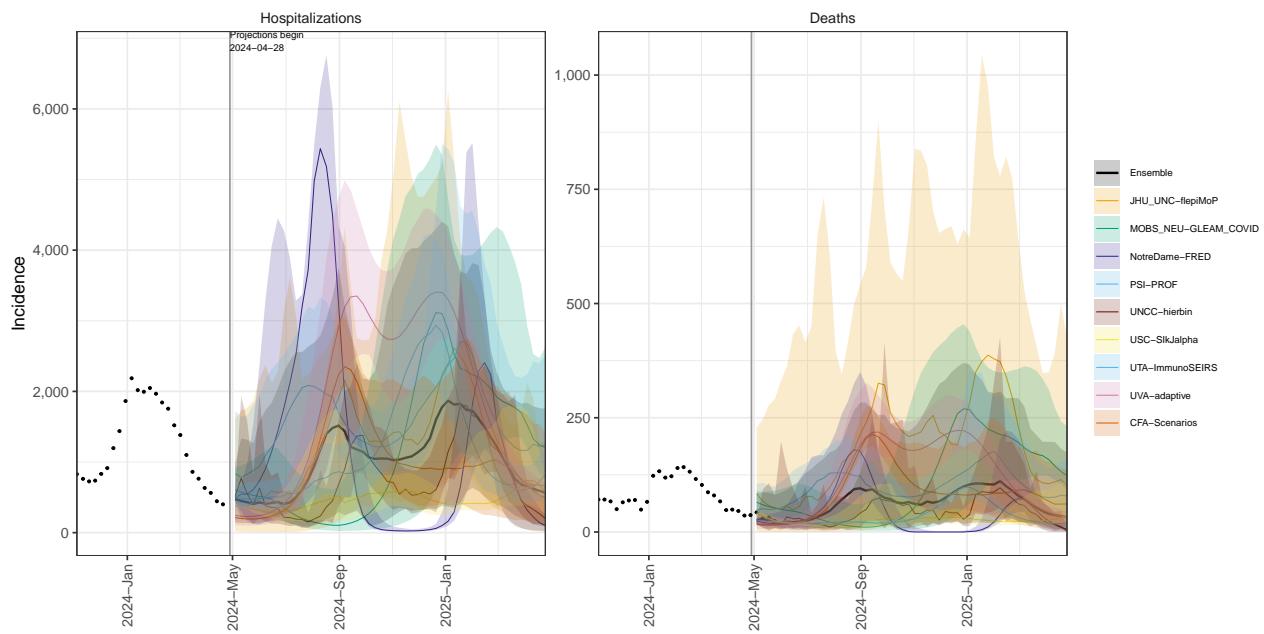
DE model variance & 95% projection intervals – No booster, High immune escape



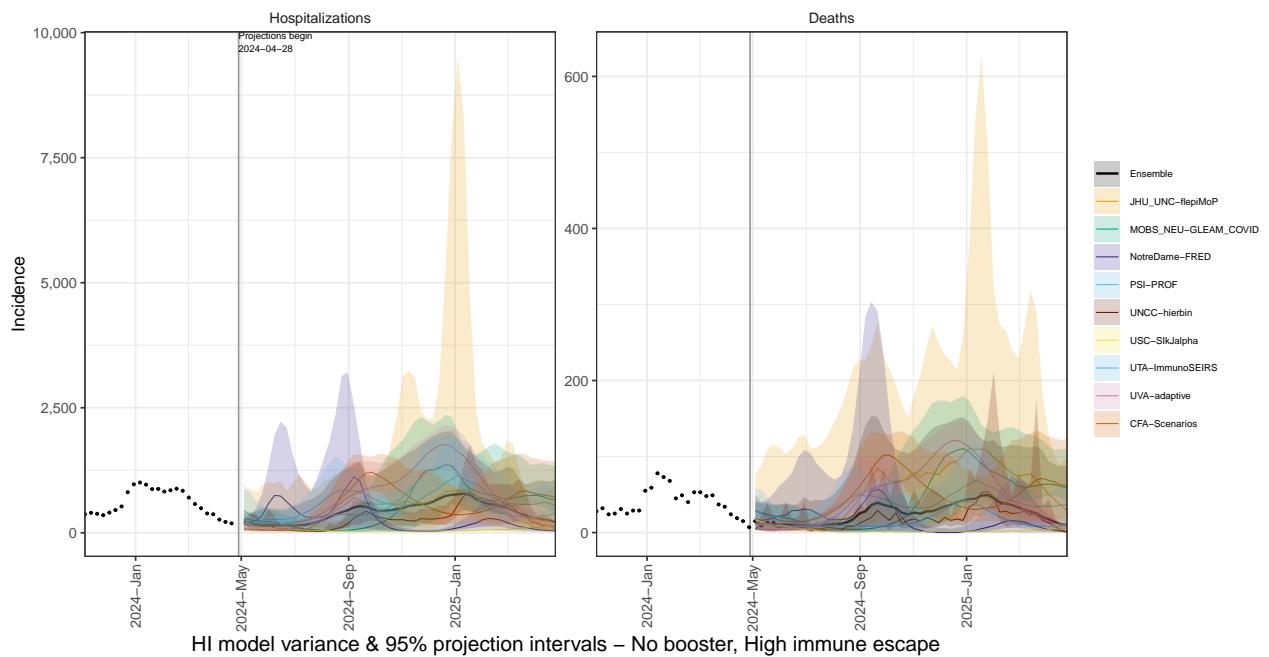
DC model variance & 95% projection intervals – No booster, High immune escape



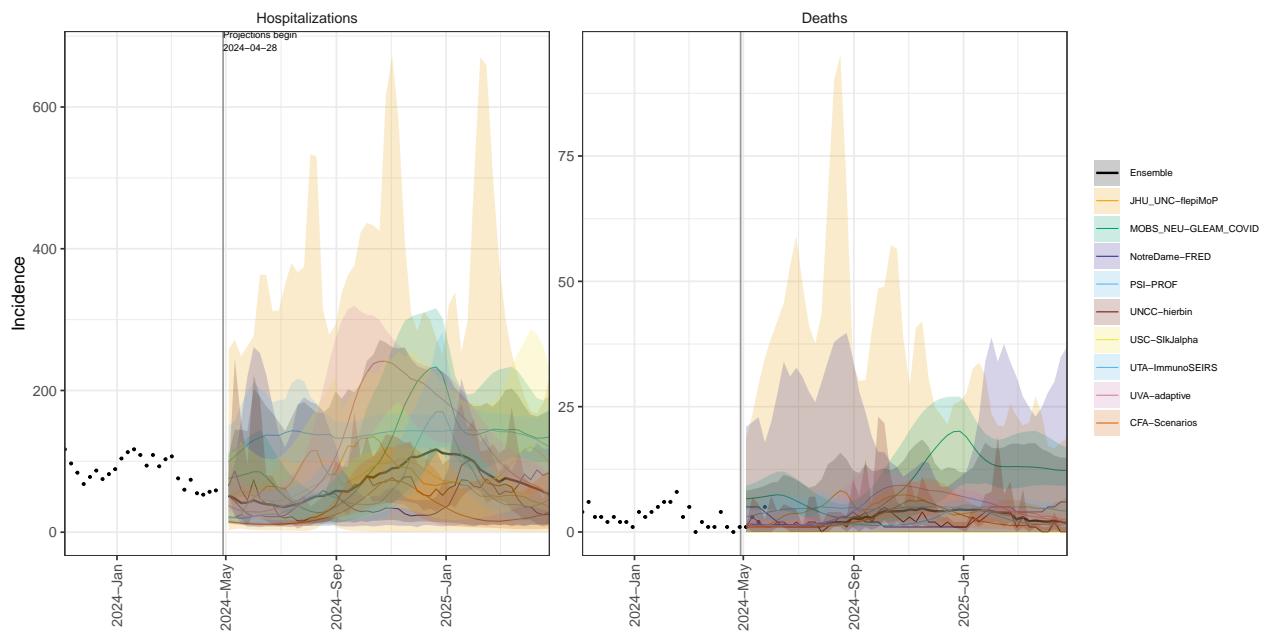
FL model variance & 95% projection intervals – No booster, High immune escape



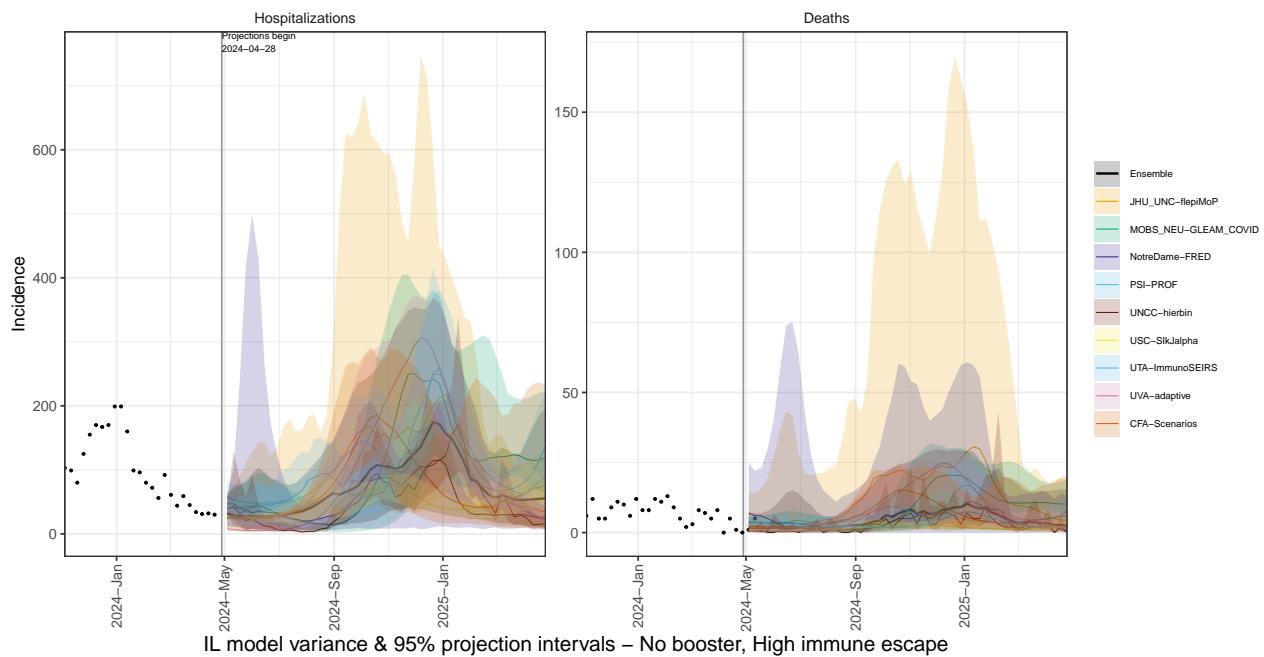
GA model variance & 95% projection intervals – No booster, High immune escape



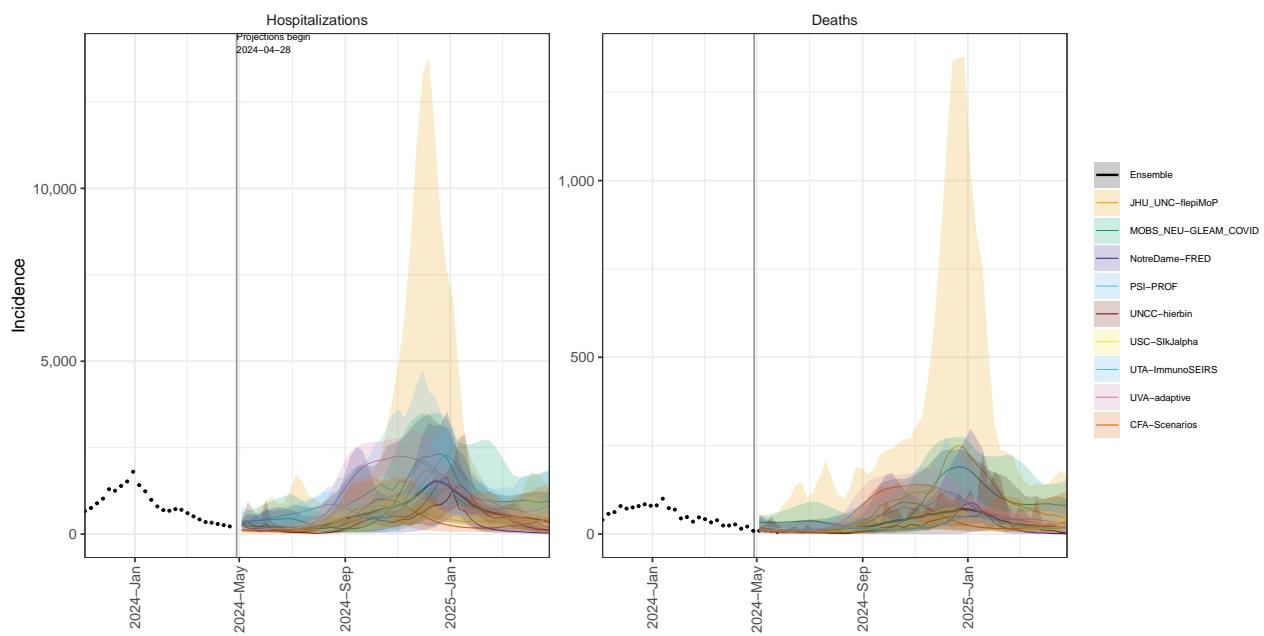
HI model variance & 95% projection intervals – No booster, High immune escape



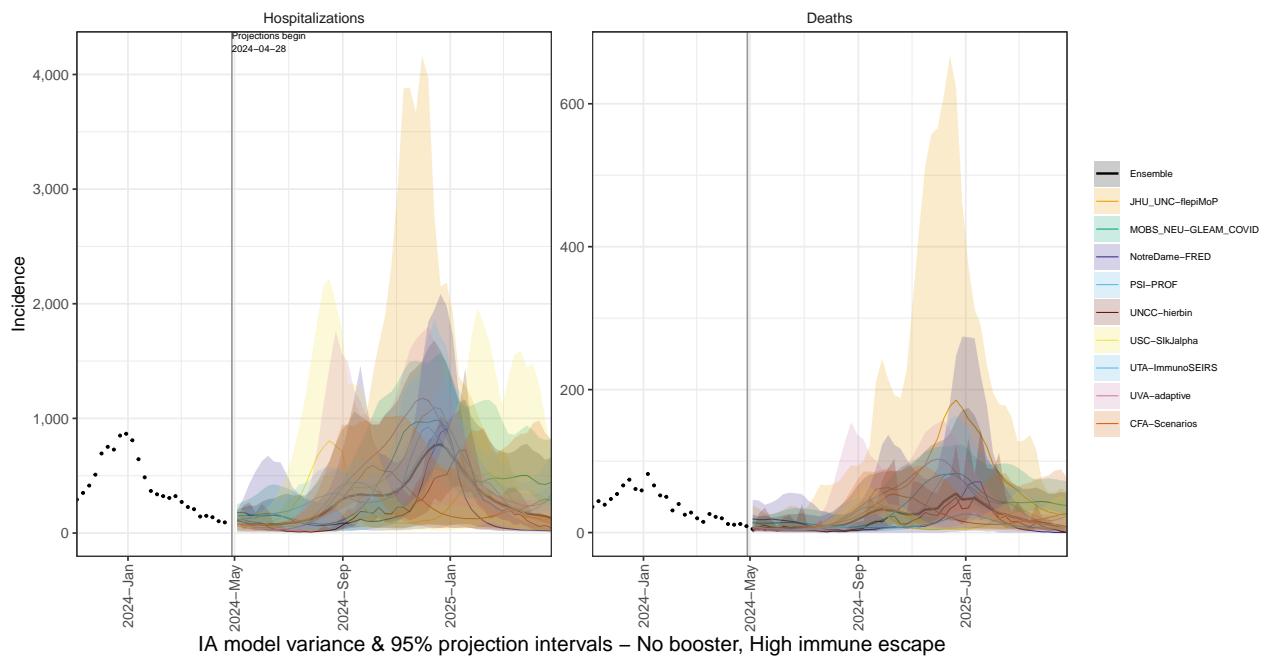
ID model variance & 95% projection intervals – No booster, High immune escape



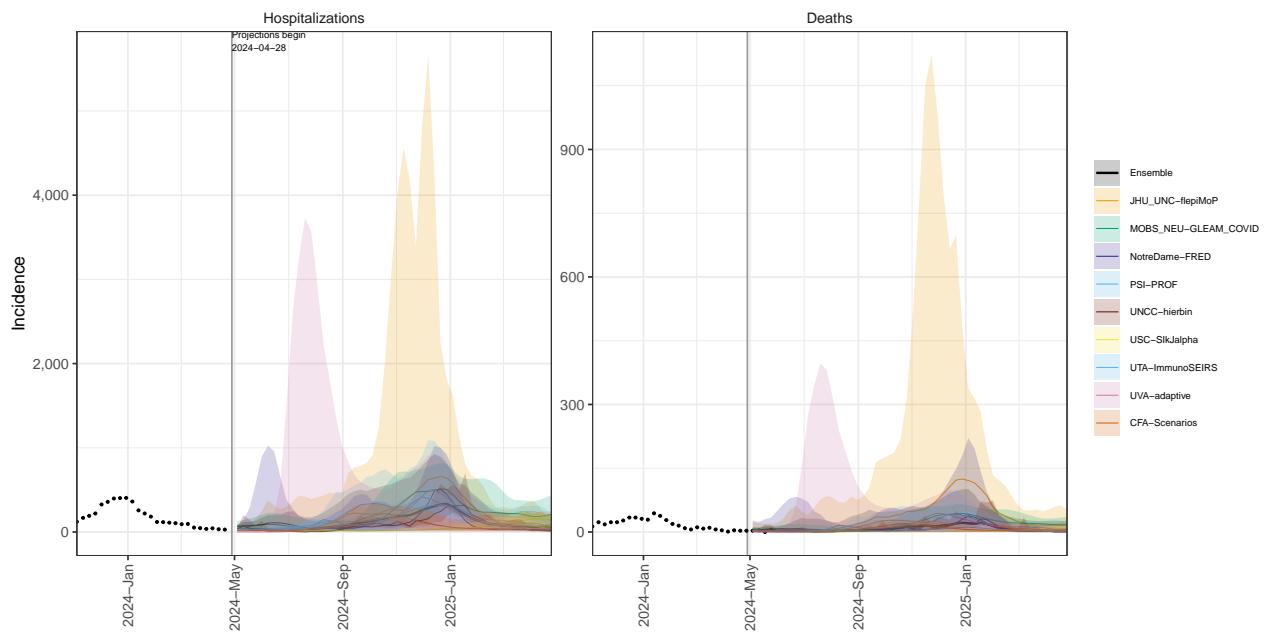
IL model variance & 95% projection intervals – No booster, High immune escape



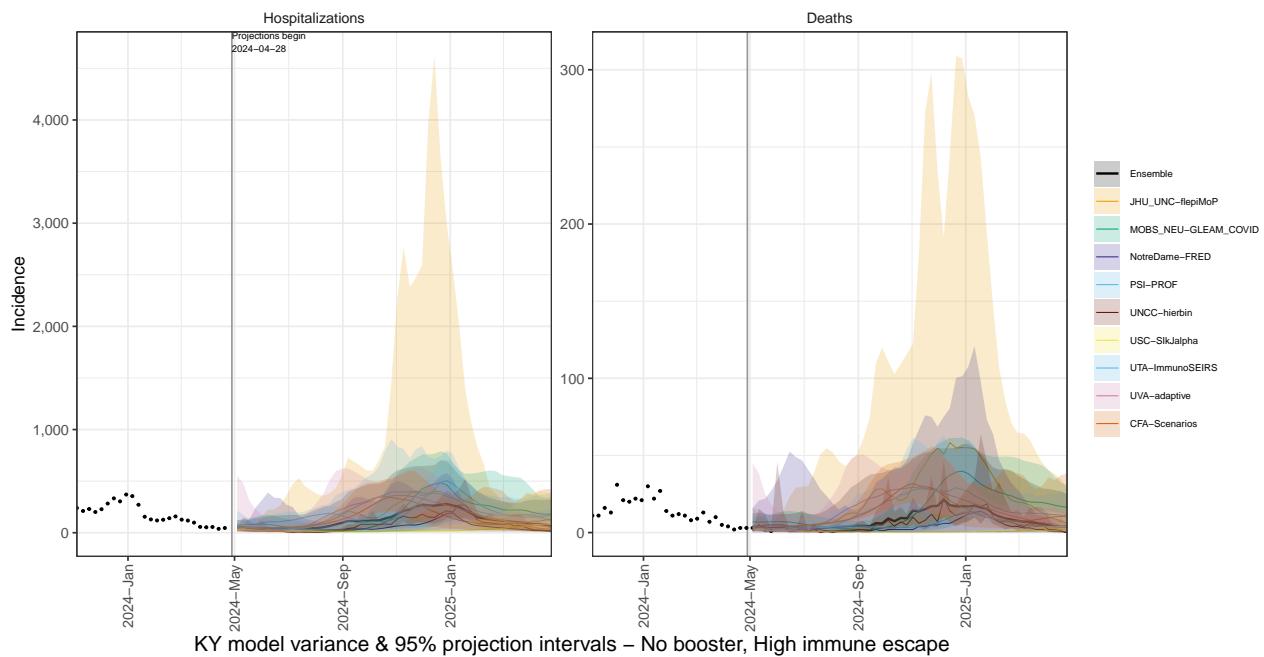
IN model variance & 95% projection intervals – No booster, High immune escape



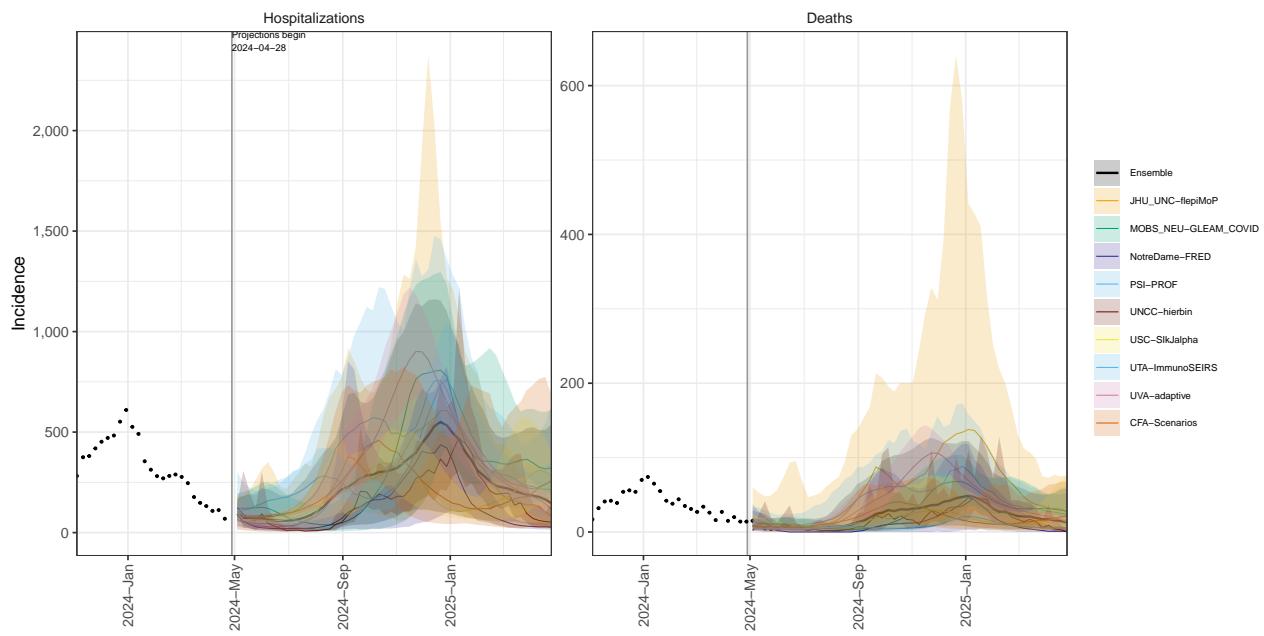
IA model variance & 95% projection intervals – No booster, High immune escape



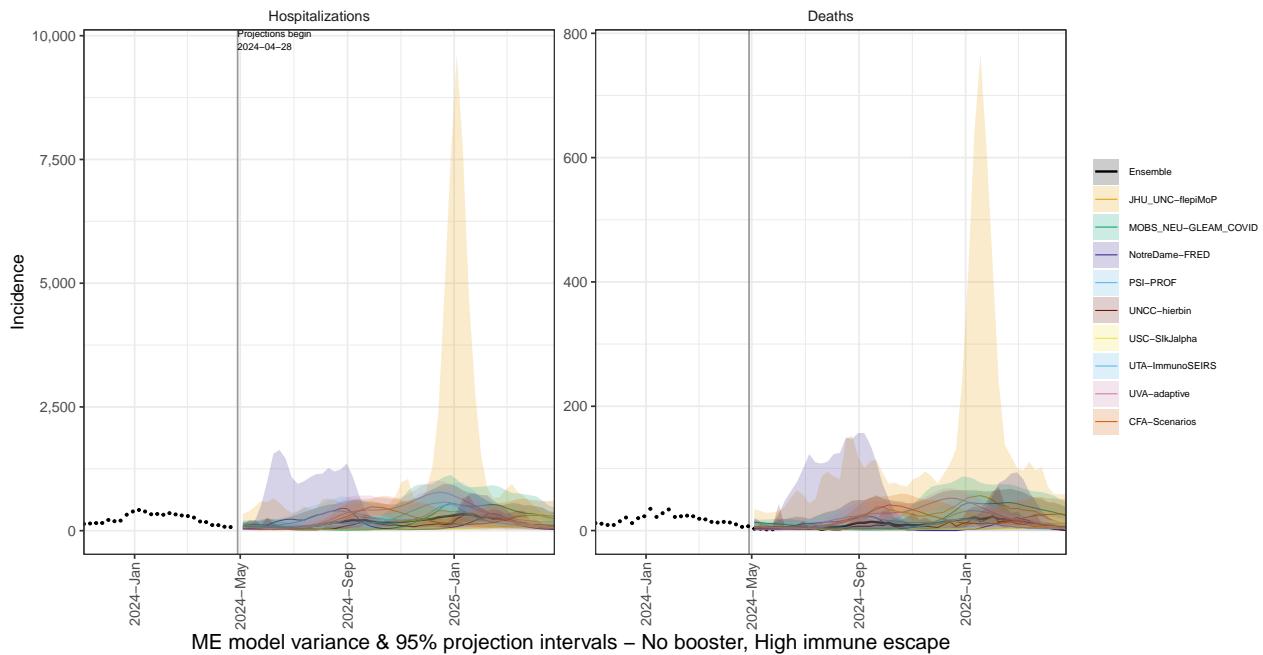
KS model variance & 95% projection intervals – No booster, High immune escape



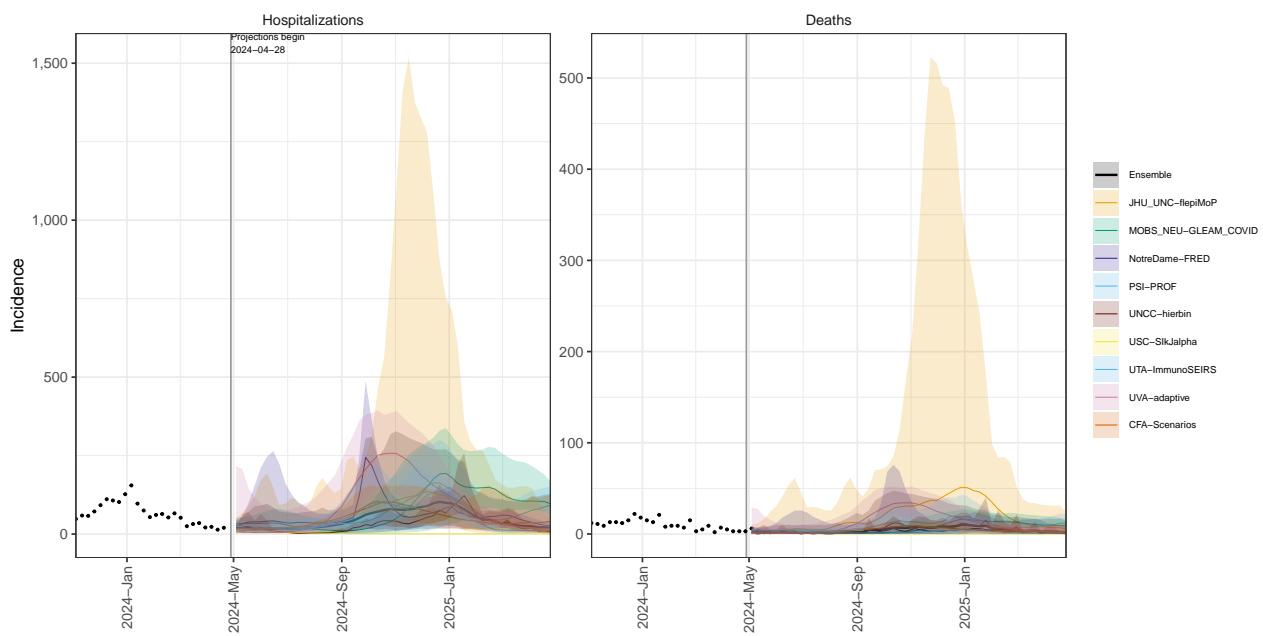
KY model variance & 95% projection intervals – No booster, High immune escape



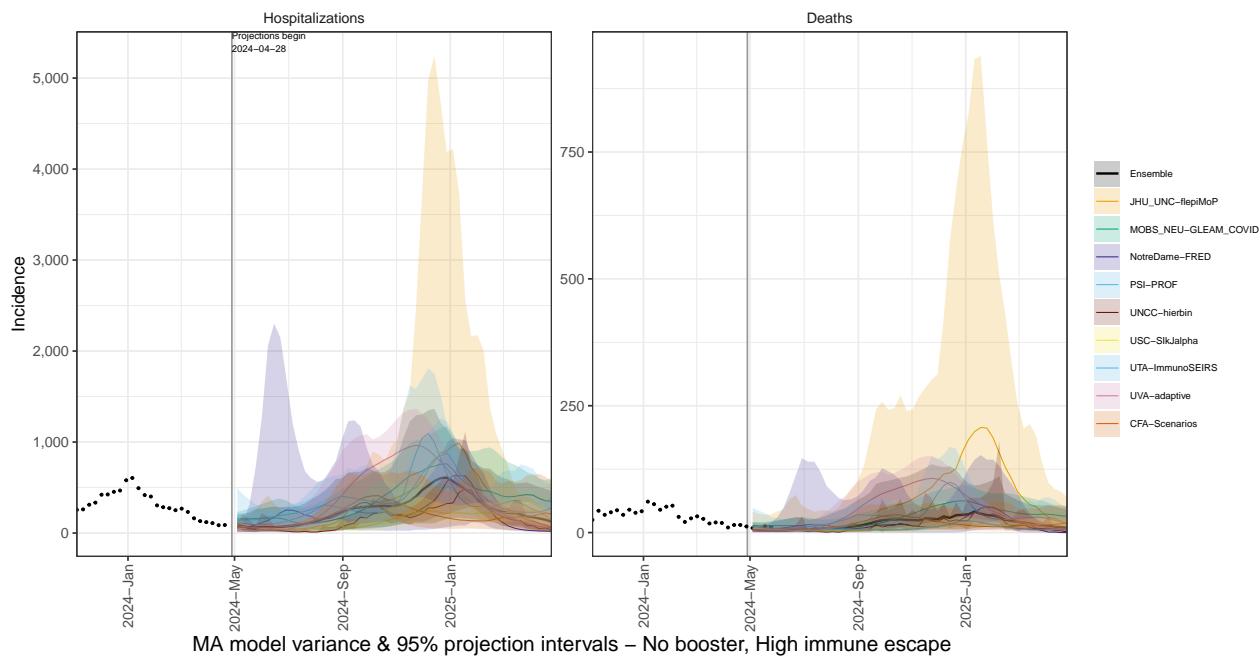
LA model variance & 95% projection intervals – No booster, High immune escape



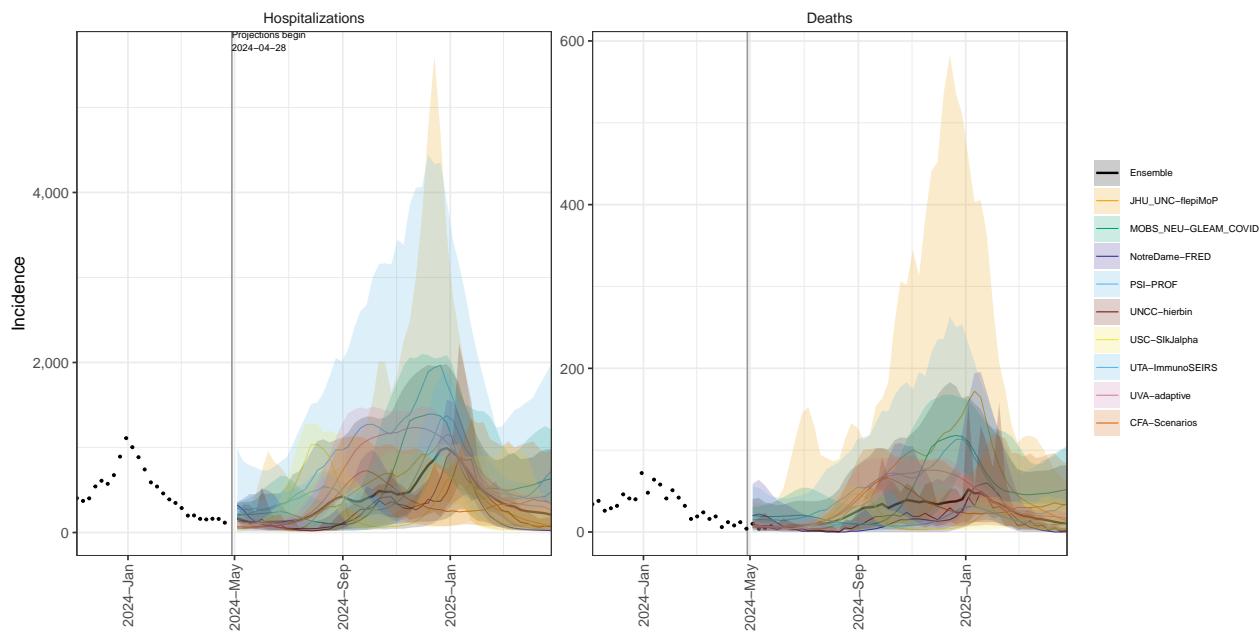
ME model variance & 95% projection intervals – No booster, High immune escape



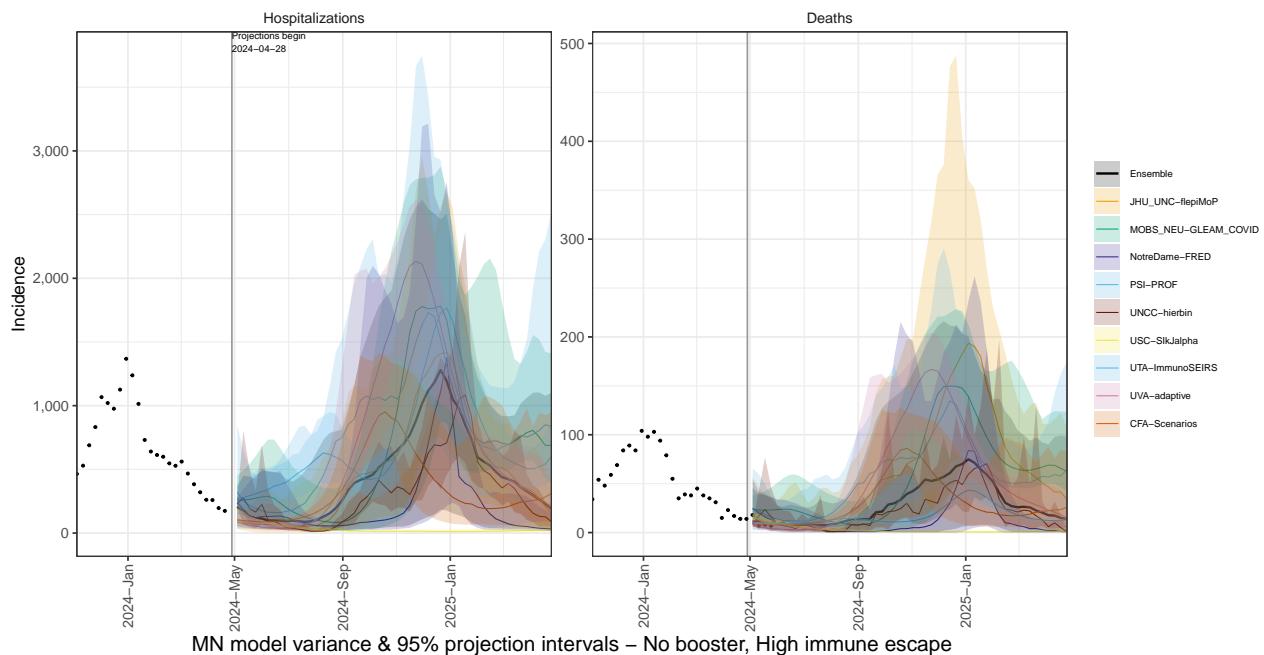
MD model variance & 95% projection intervals – No booster, High immune escape



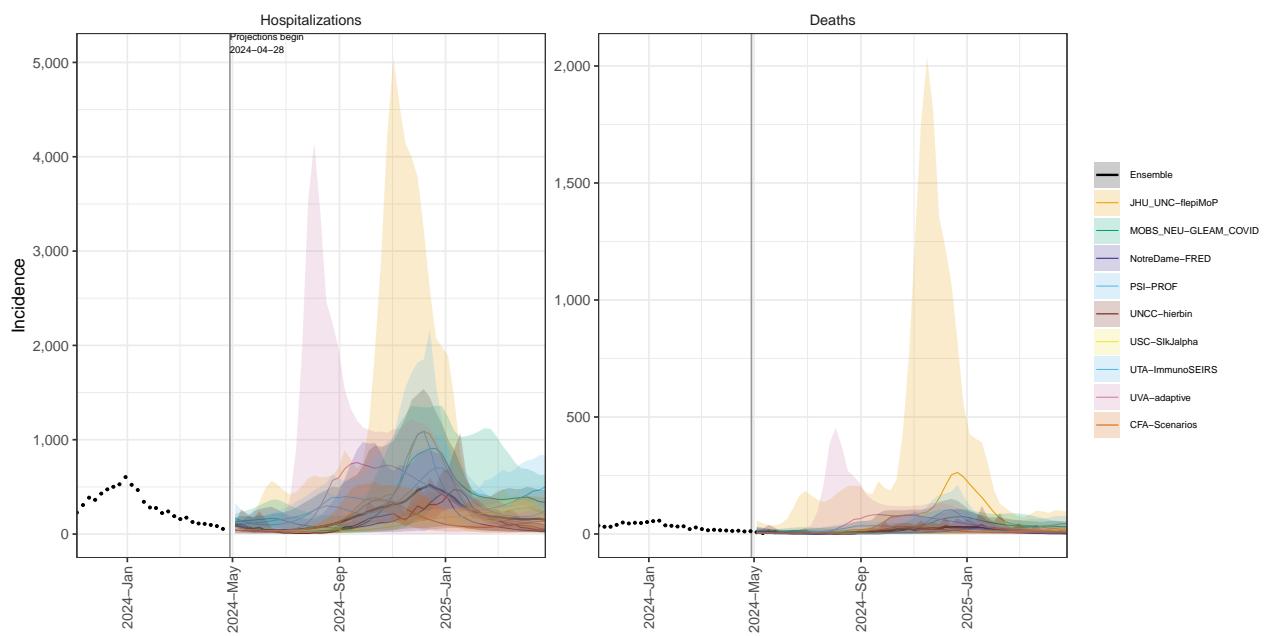
MA model variance & 95% projection intervals – No booster, High immune escape



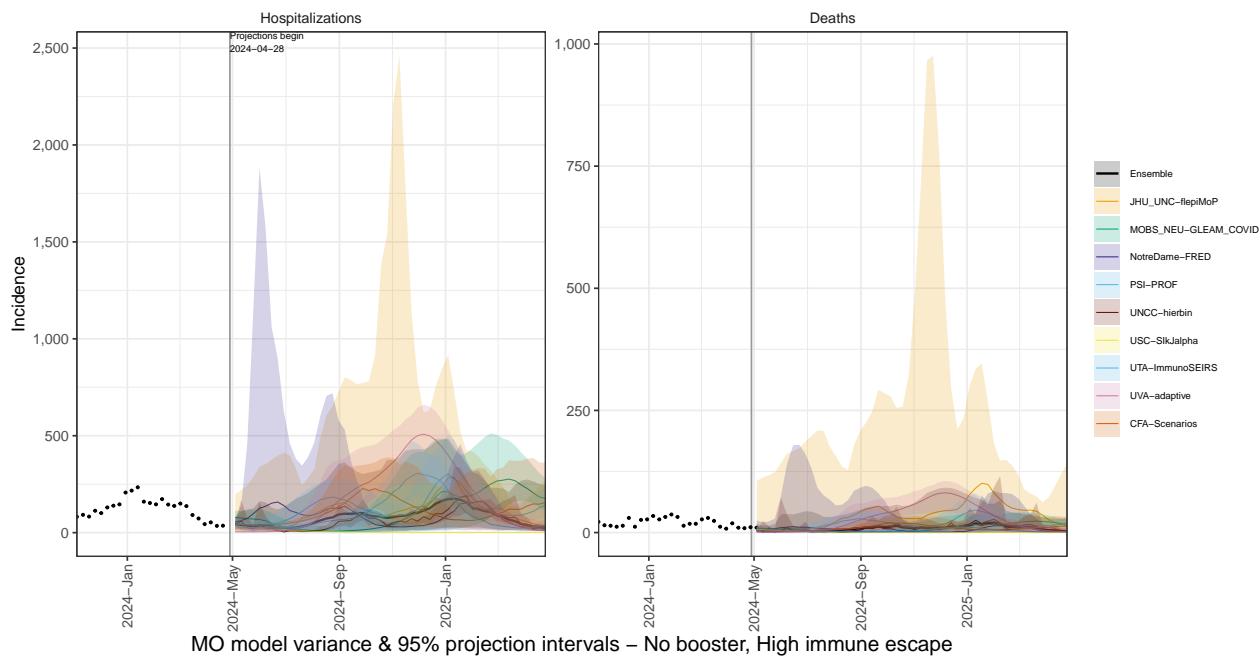
MI model variance & 95% projection intervals – No booster, High immune escape



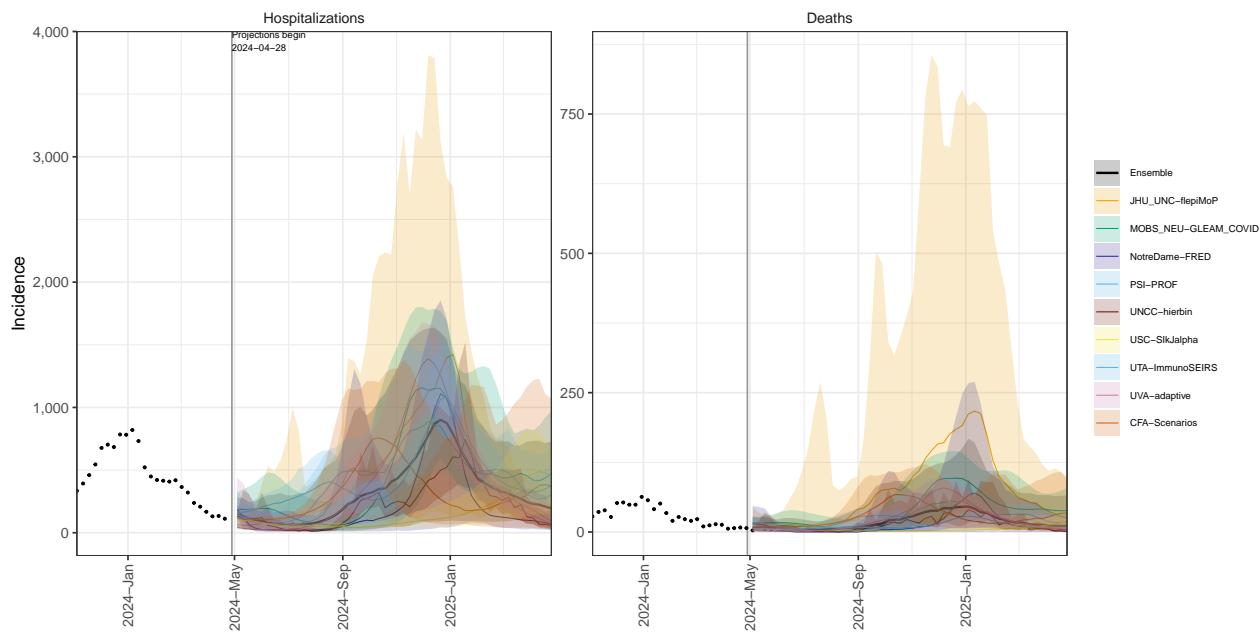
MN model variance & 95% projection intervals – No booster, High immune escape



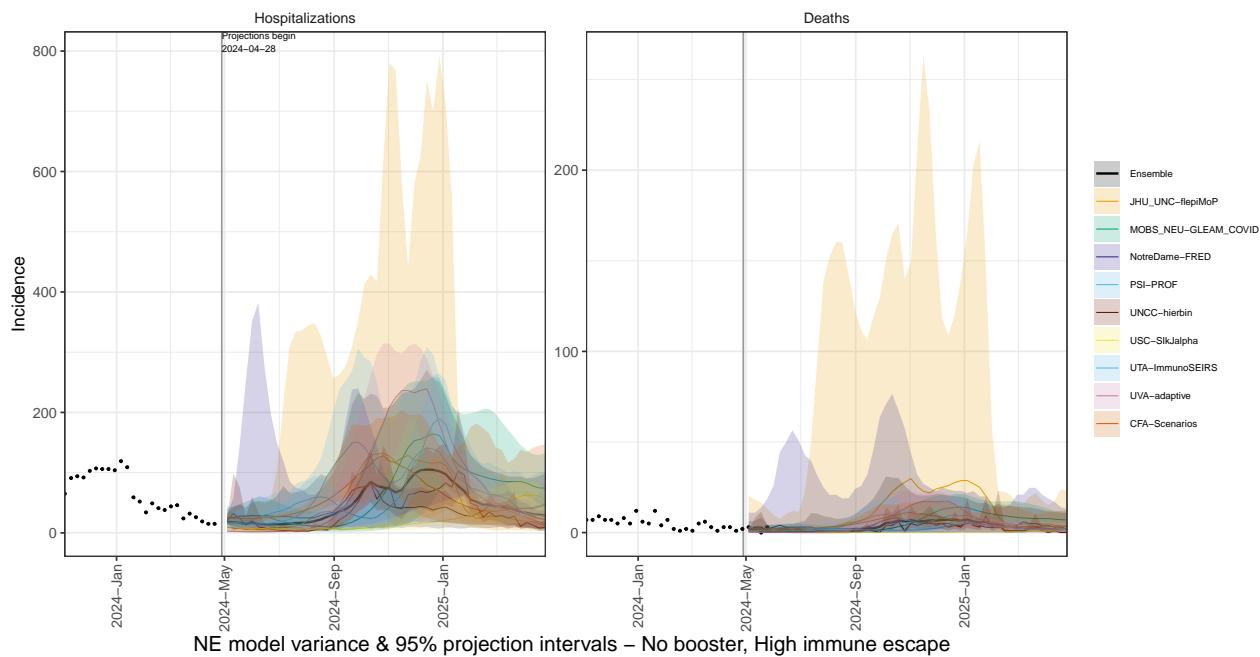
MS model variance & 95% projection intervals – No booster, High immune escape



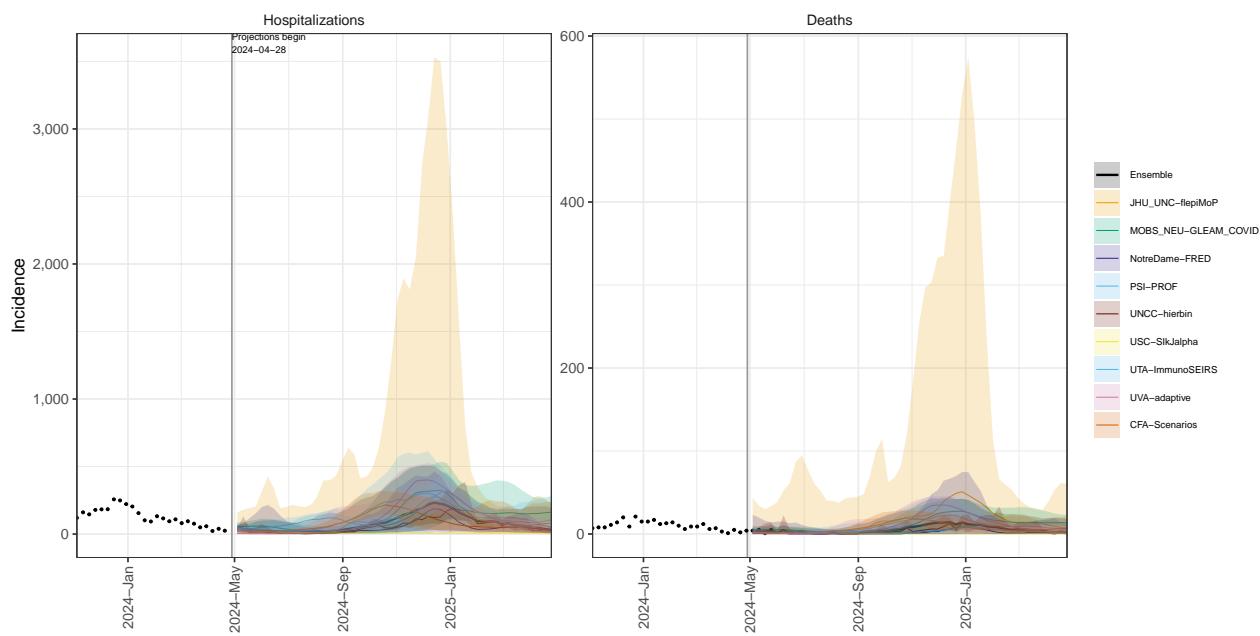
MO model variance & 95% projection intervals – No booster, High immune escape



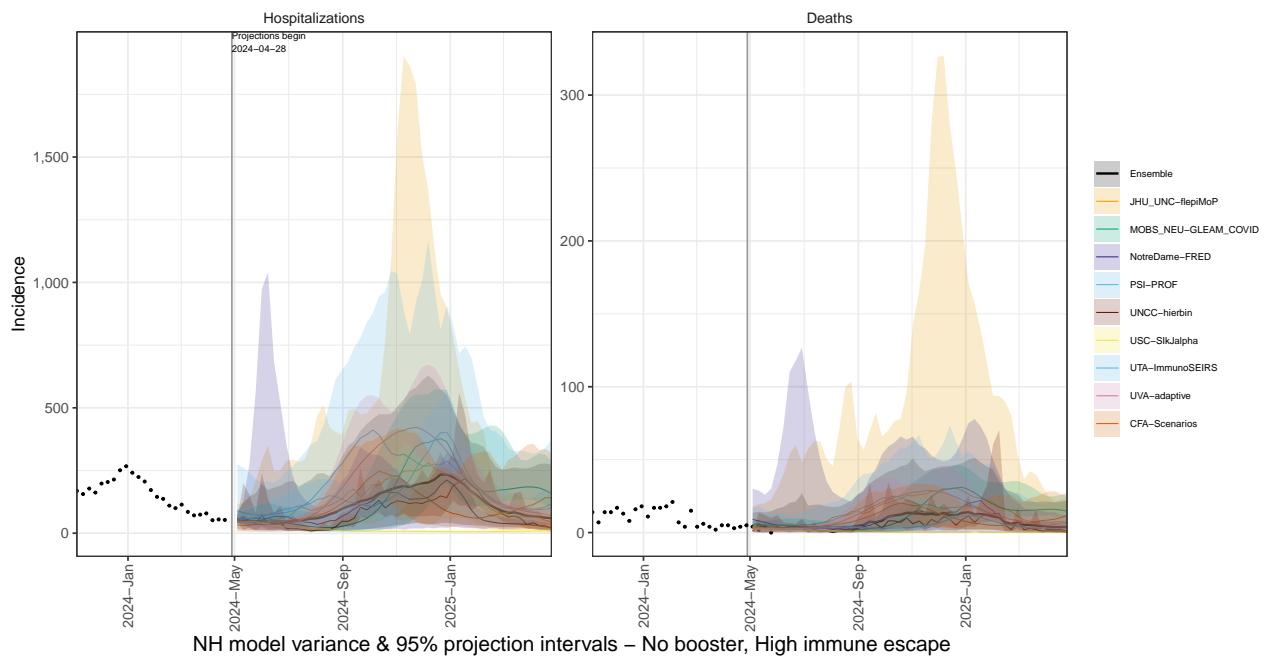
MT model variance & 95% projection intervals – No booster, High immune escape



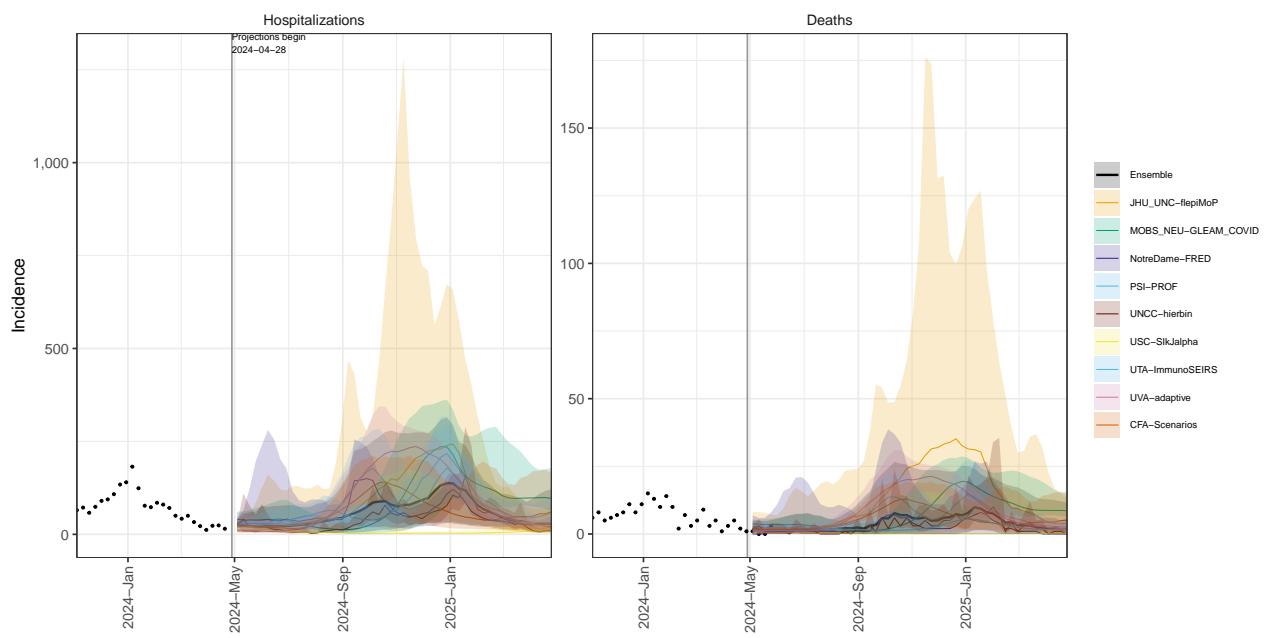
NE model variance & 95% projection intervals – No booster, High immune escape



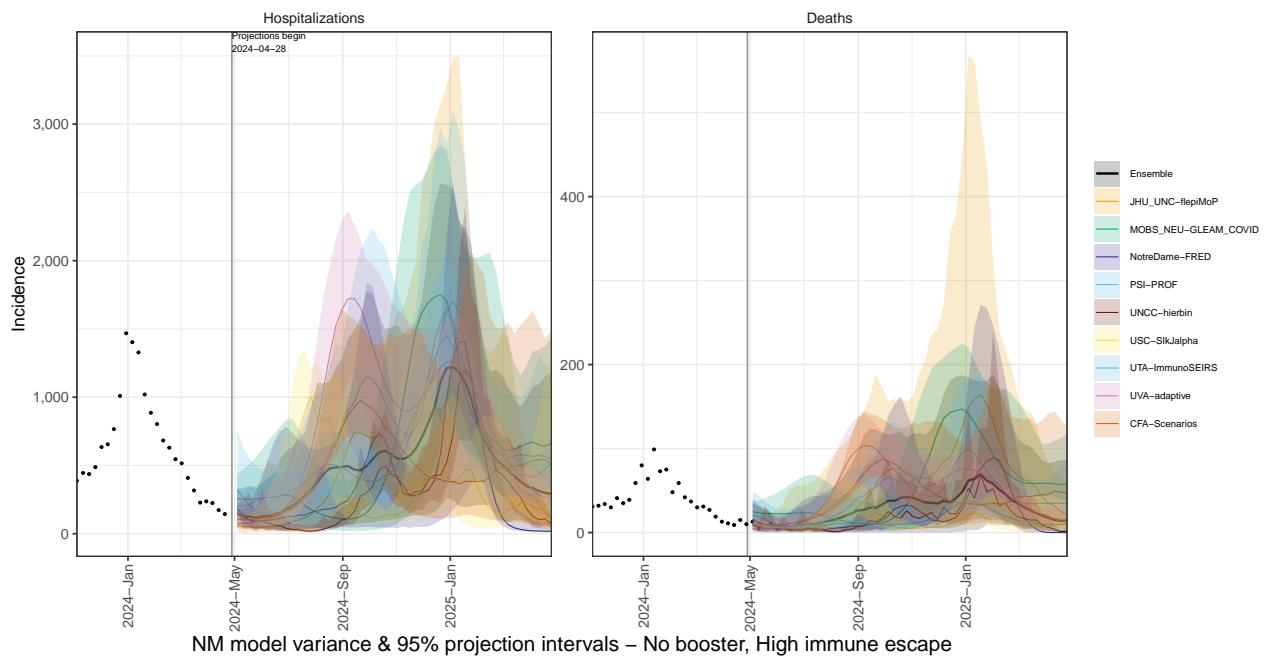
NV model variance & 95% projection intervals – No booster, High immune escape



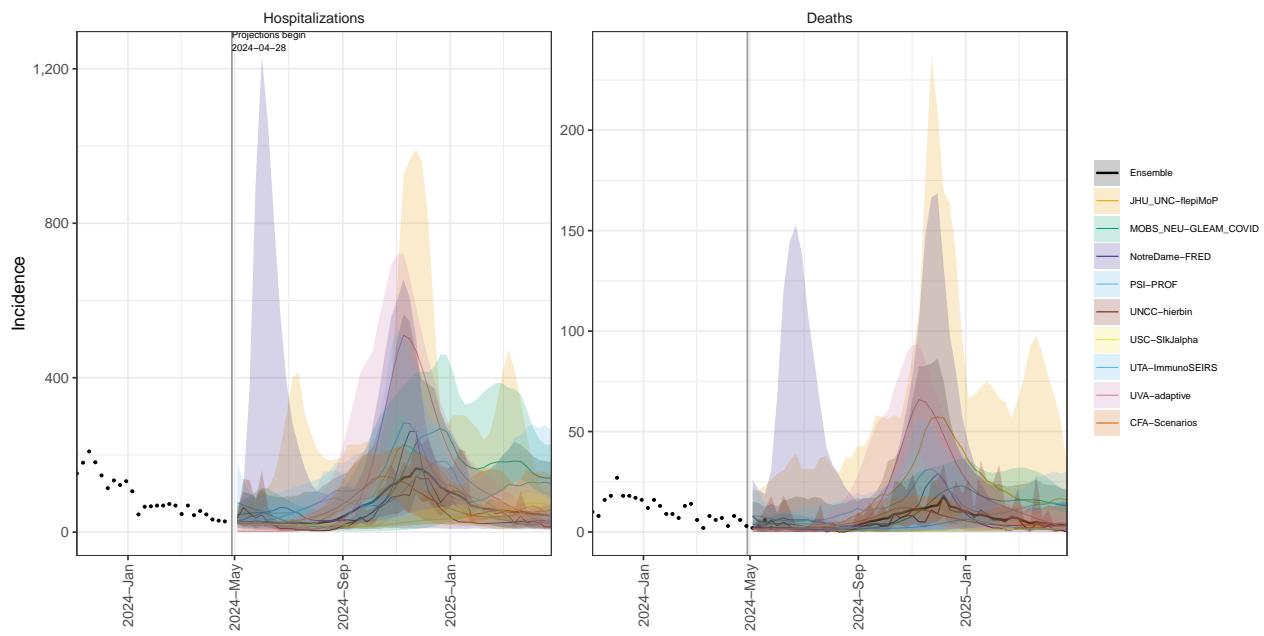
NH model variance & 95% projection intervals – No booster, High immune escape



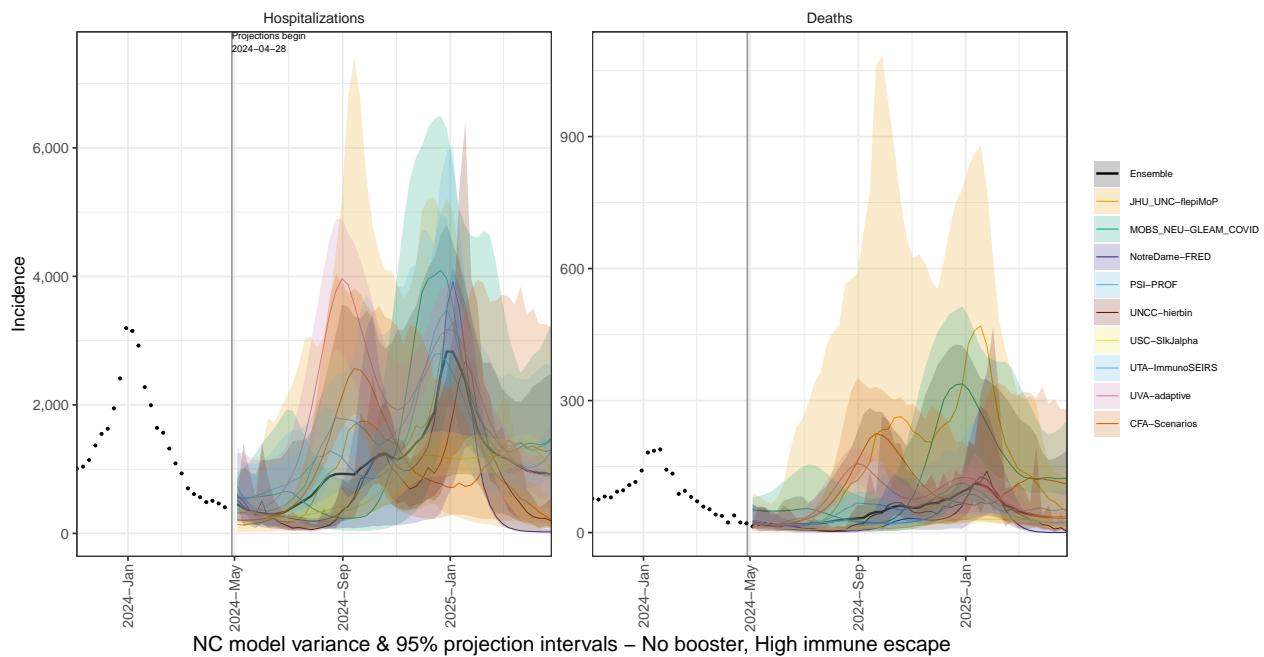
NJ model variance & 95% projection intervals – No booster, High immune escape



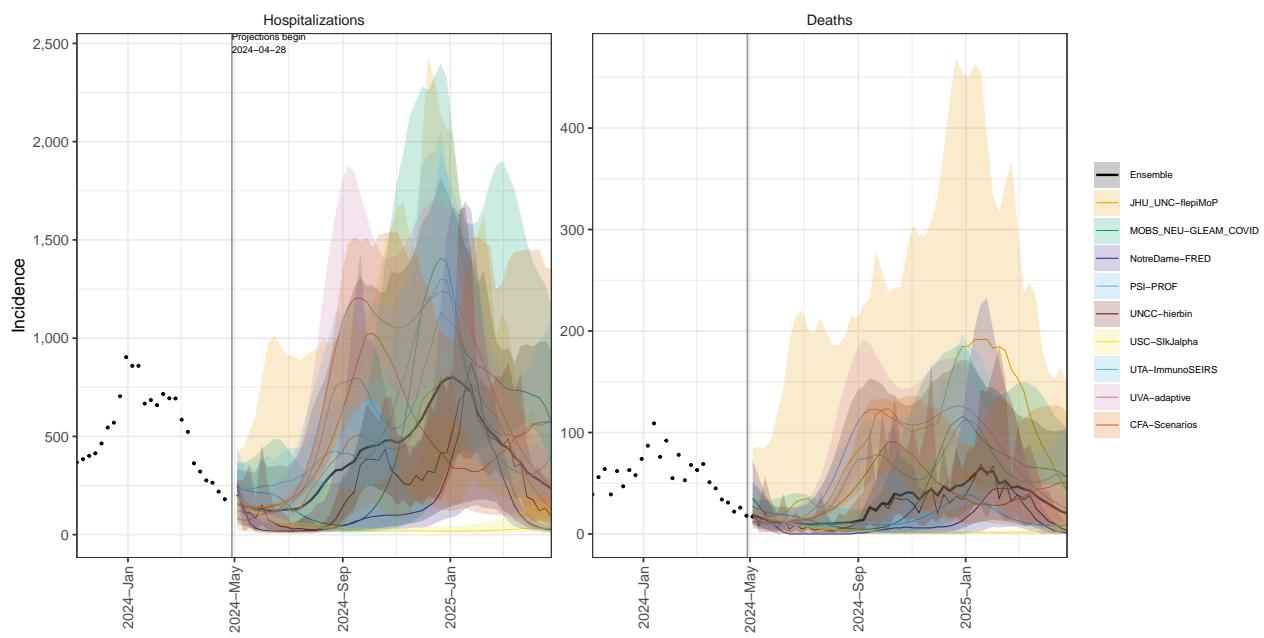
NM model variance & 95% projection intervals – No booster, High immune escape



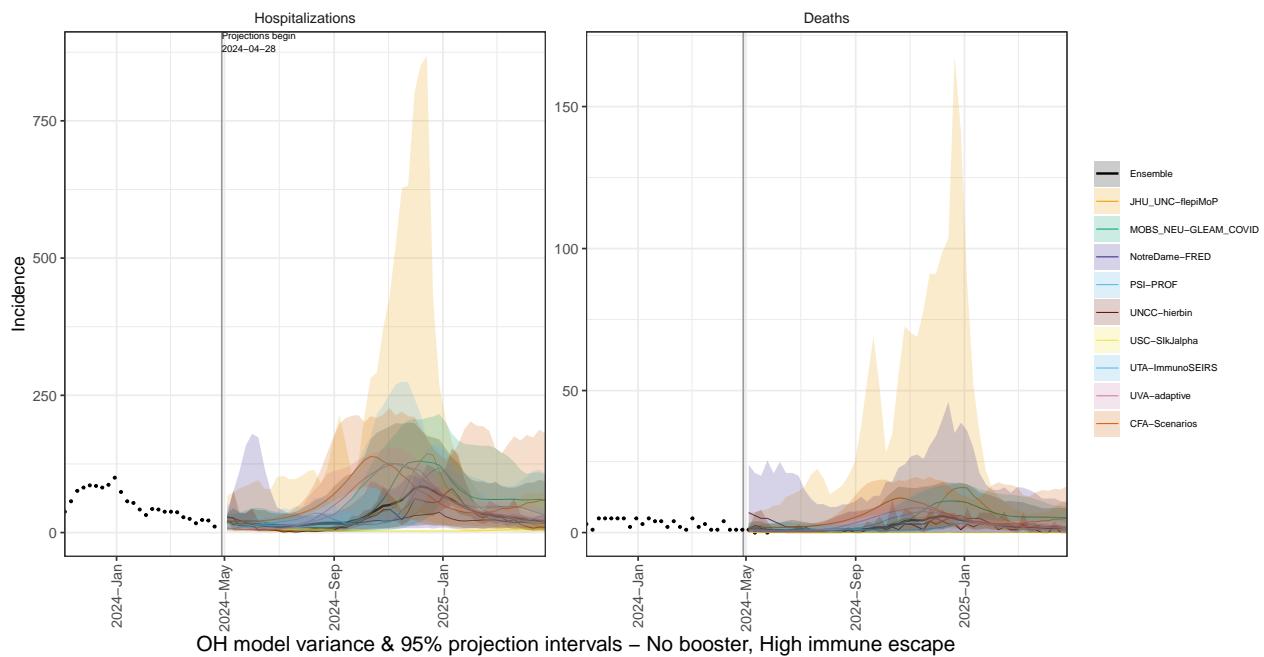
NY model variance & 95% projection intervals – No booster, High immune escape



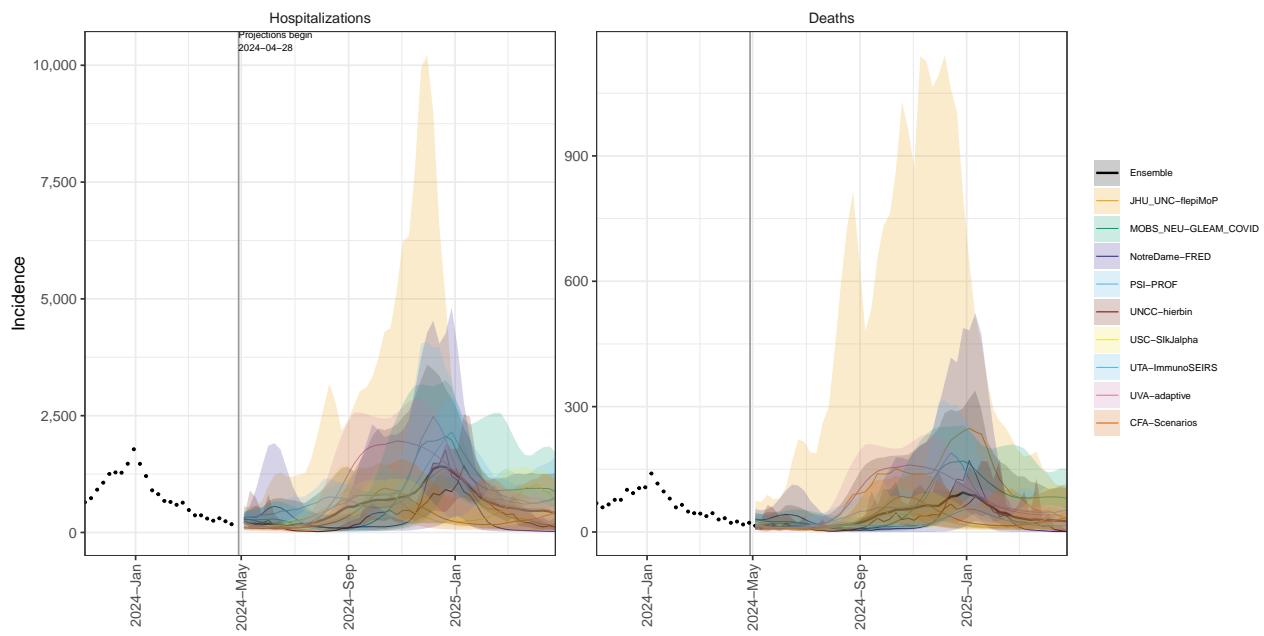
NC model variance & 95% projection intervals – No booster, High immune escape



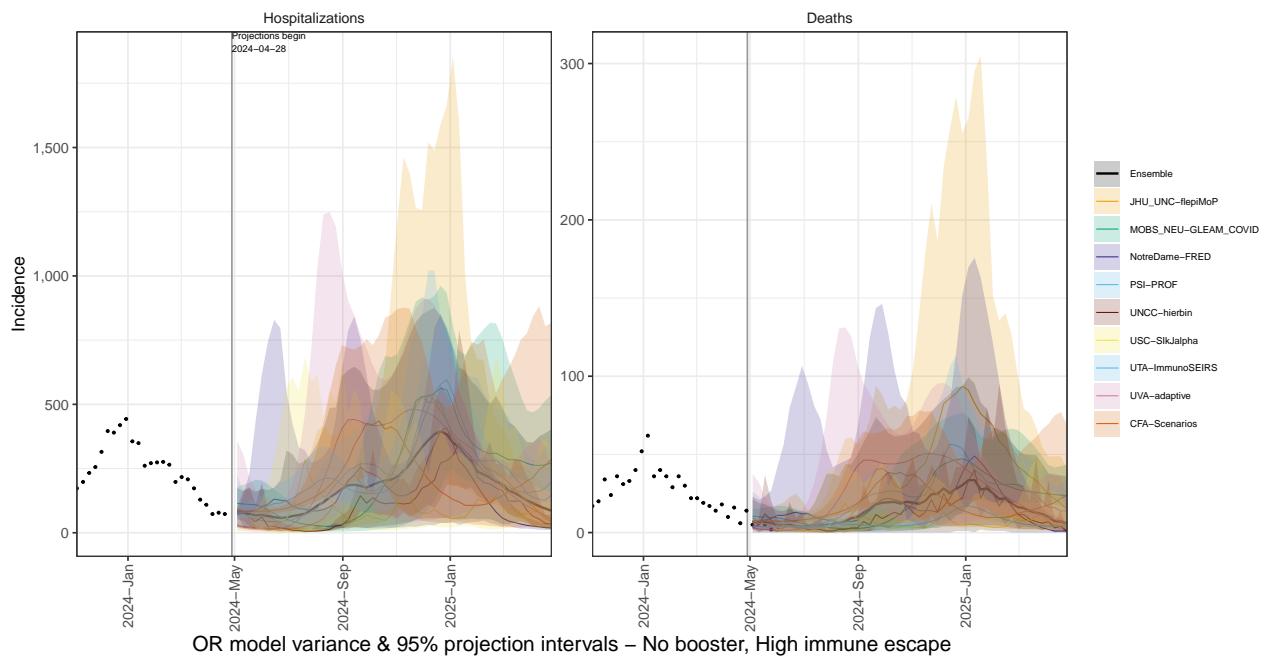
ND model variance & 95% projection intervals – No booster, High immune escape



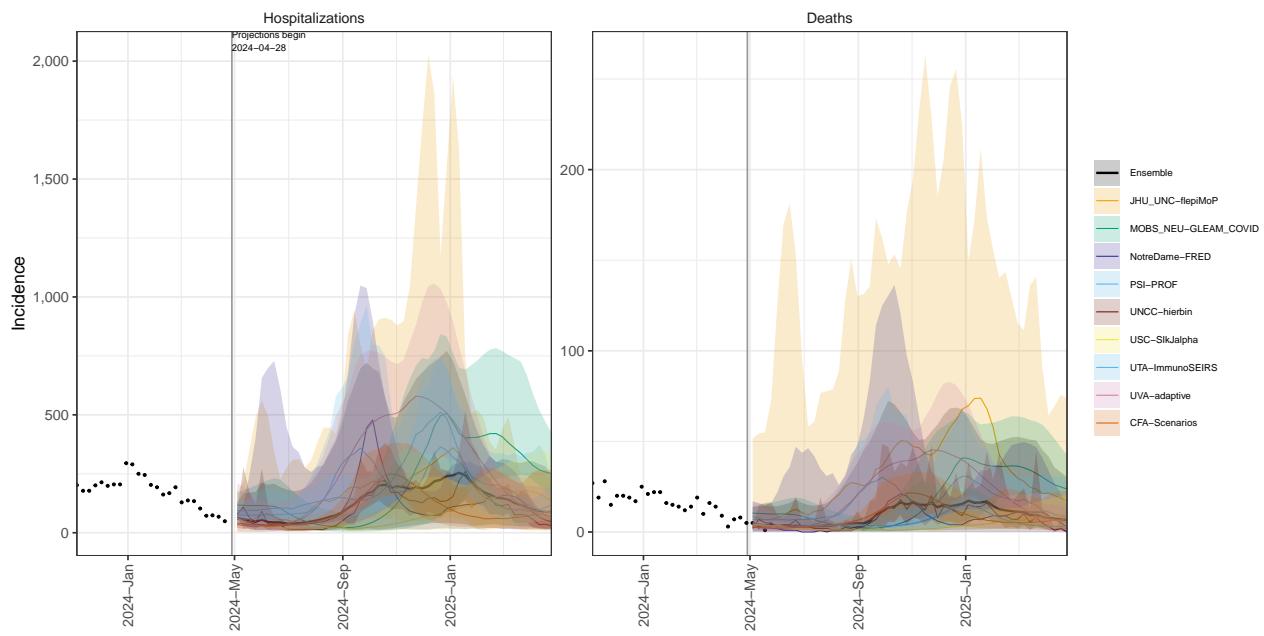
OH model variance & 95% projection intervals – No booster, High immune escape



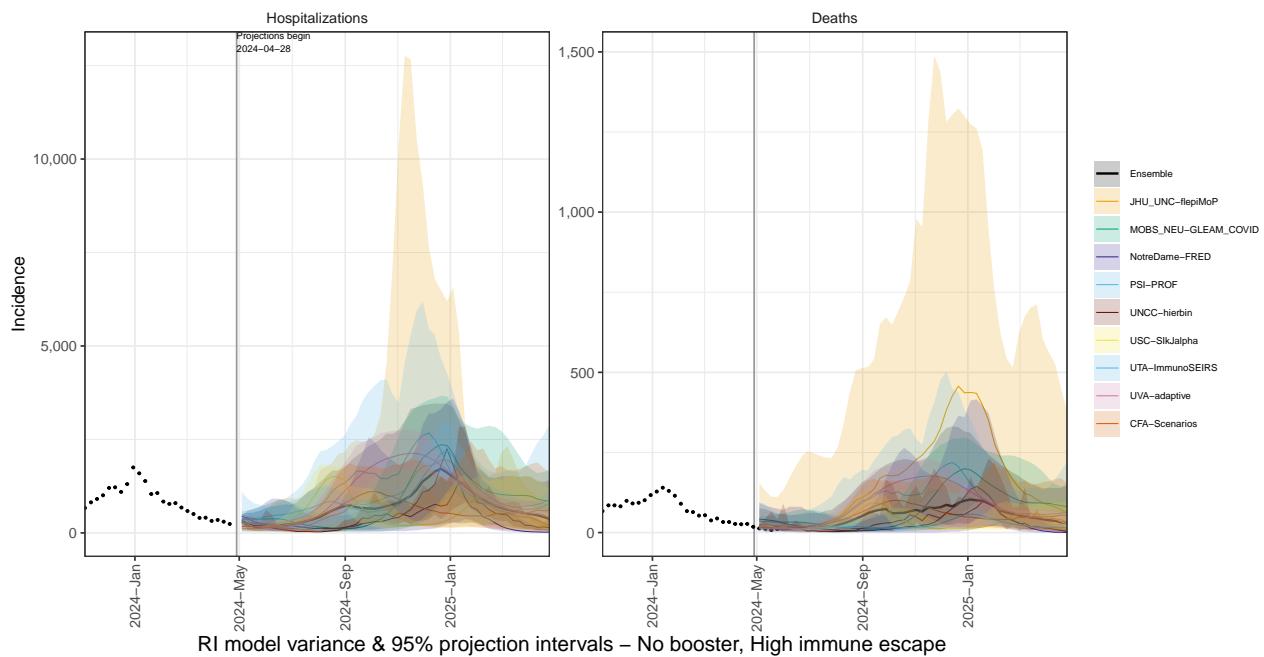
OK model variance & 95% projection intervals – No booster, High immune escape



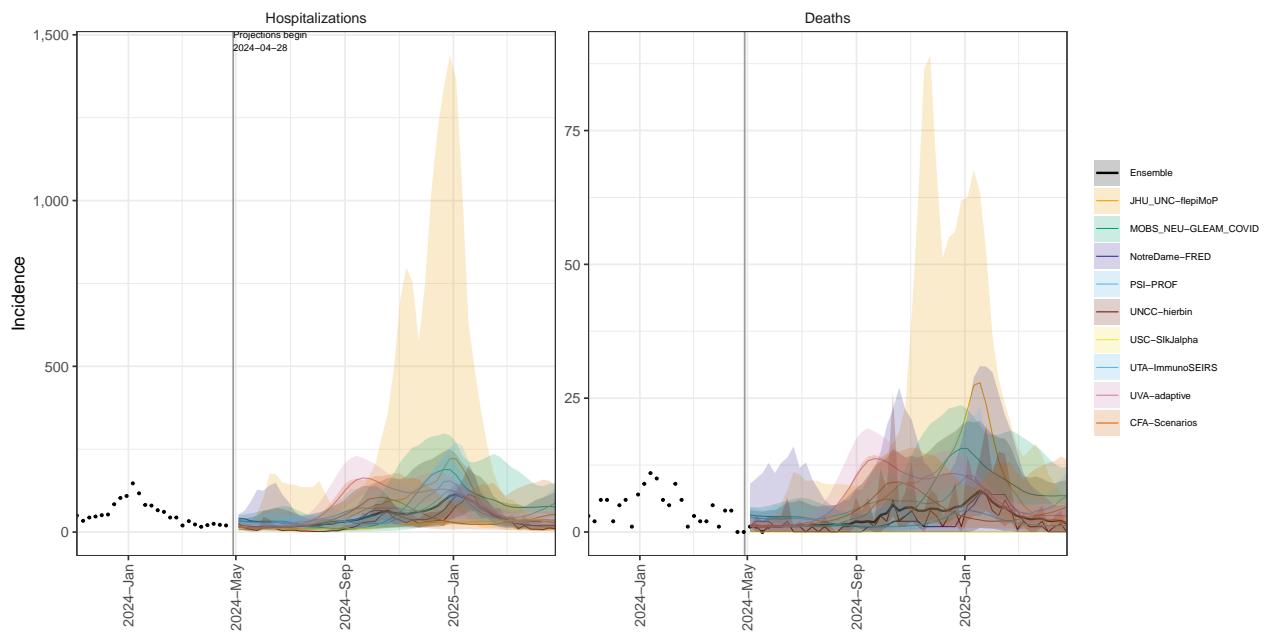
OR model variance & 95% projection intervals – No booster, High immune escape



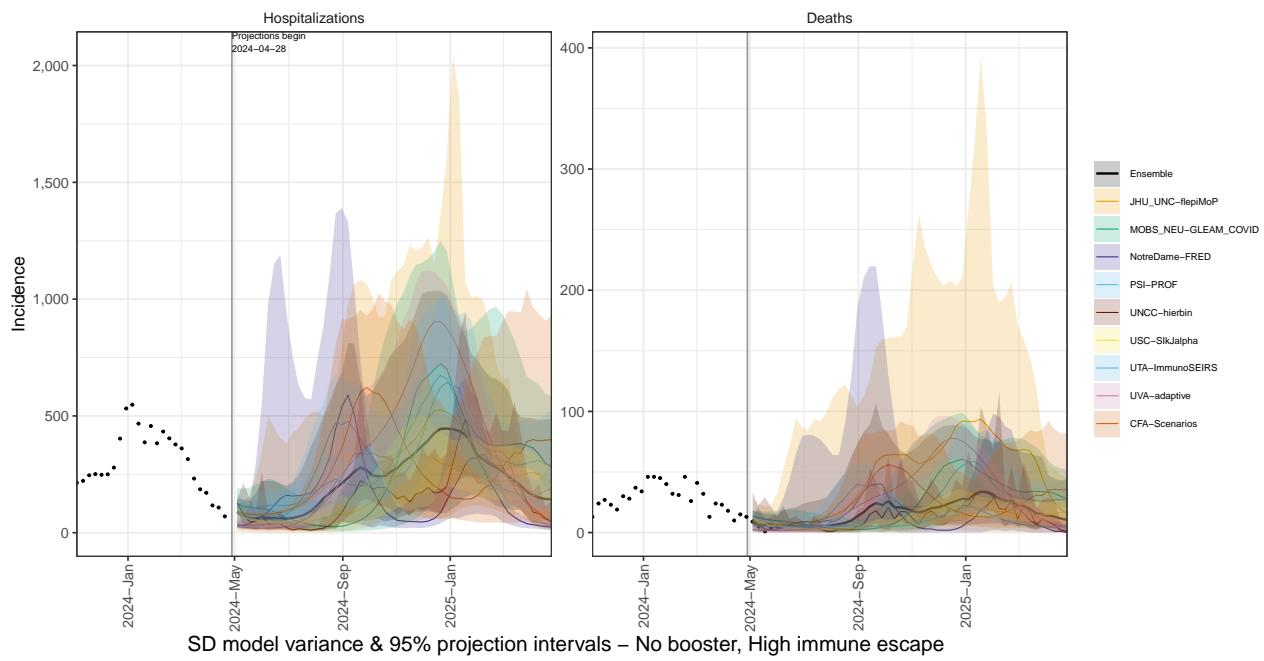
PA model variance & 95% projection intervals – No booster, High immune escape



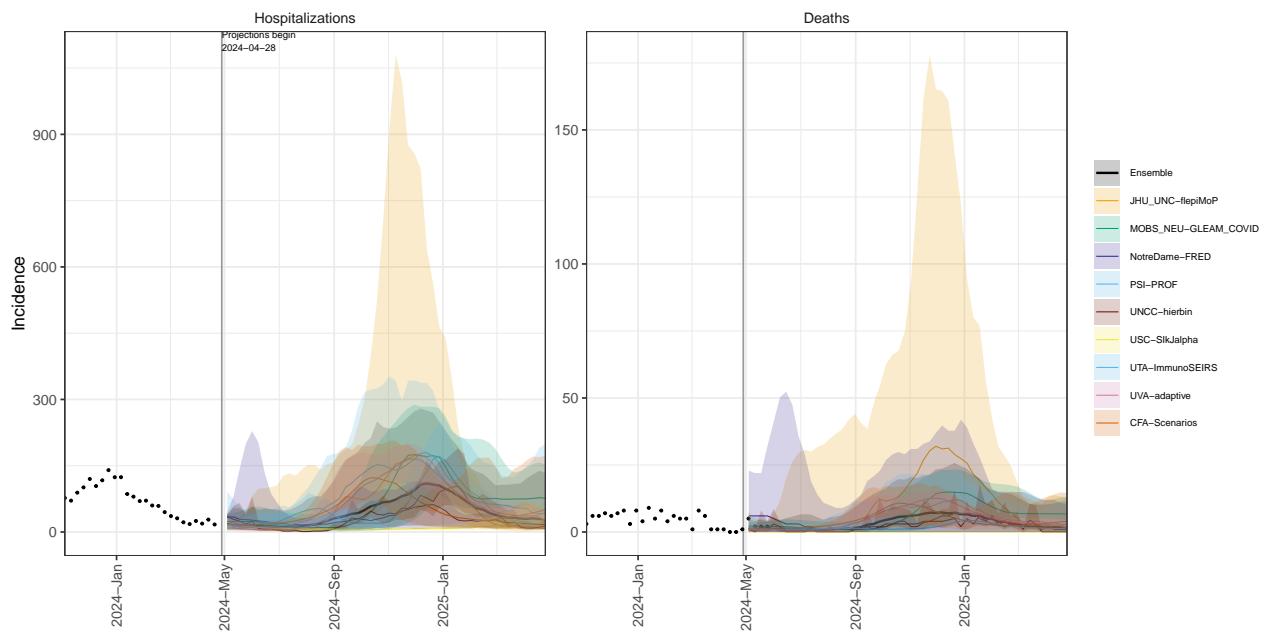
RI model variance & 95% projection intervals – No booster, High immune escape



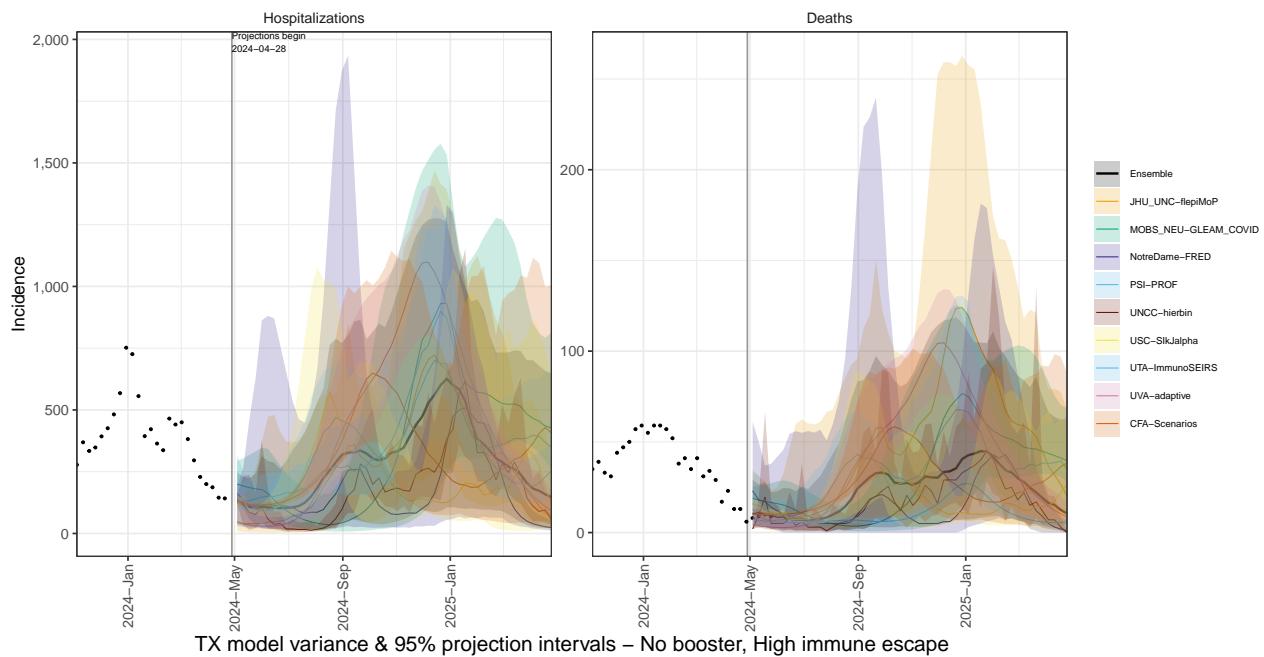
SC model variance & 95% projection intervals – No booster, High immune escape



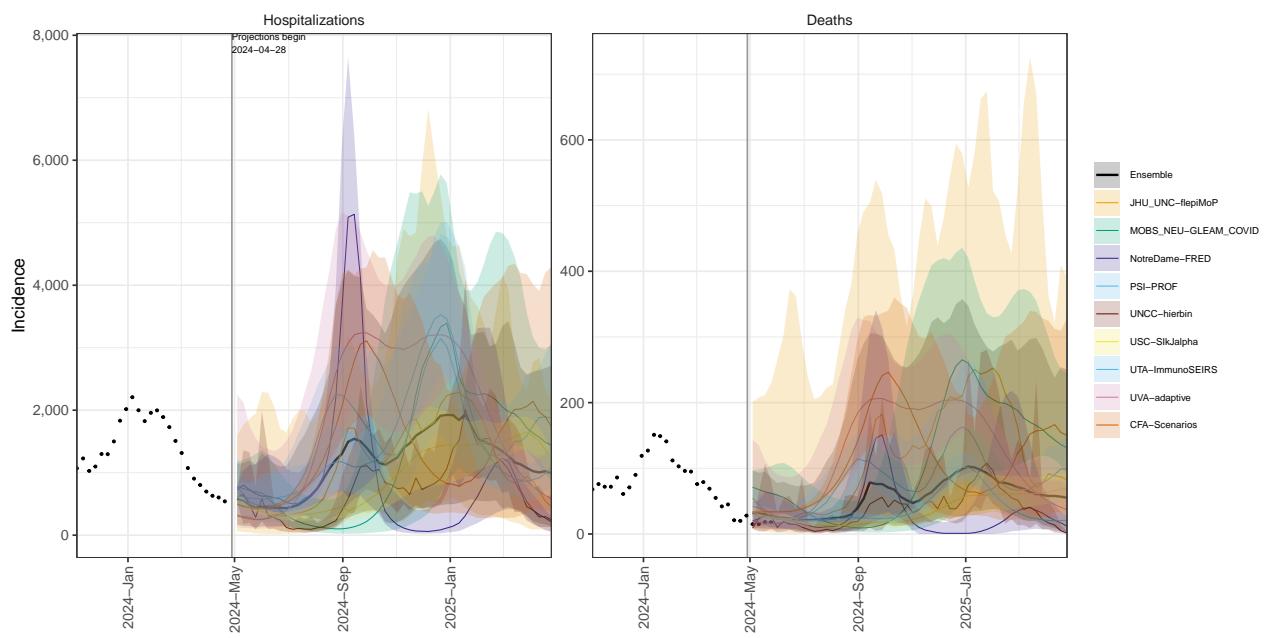
SD model variance & 95% projection intervals – No booster, High immune escape



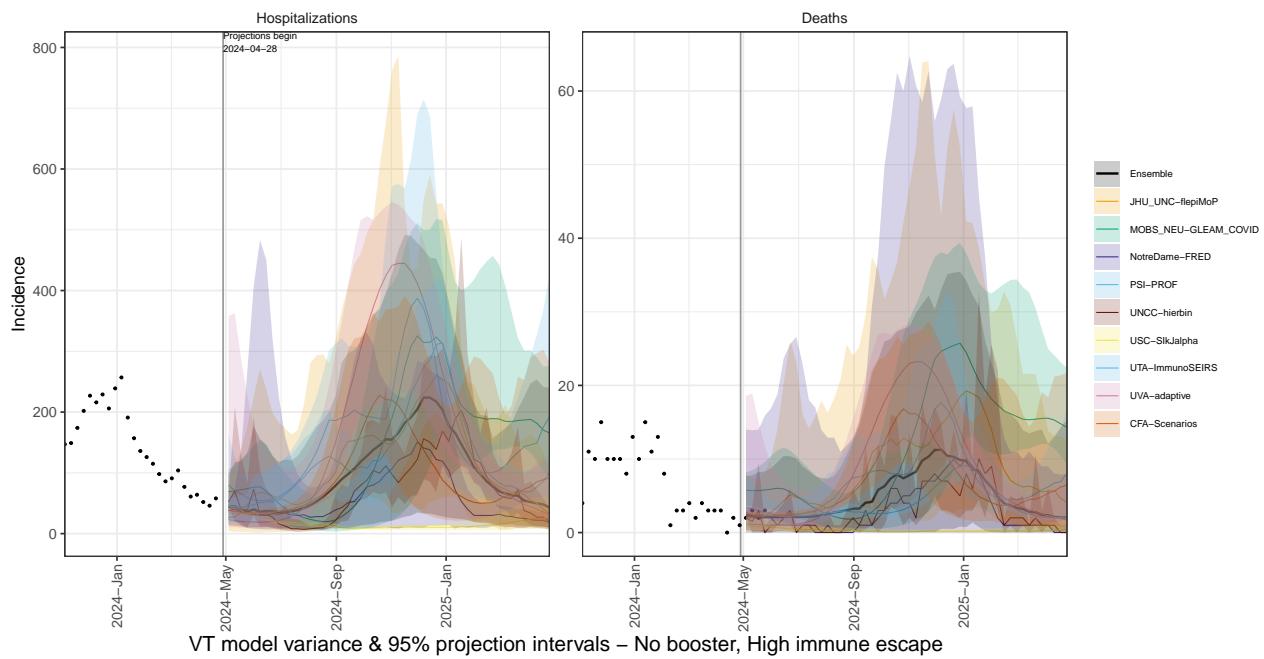
TN model variance & 95% projection intervals – No booster, High immune escape



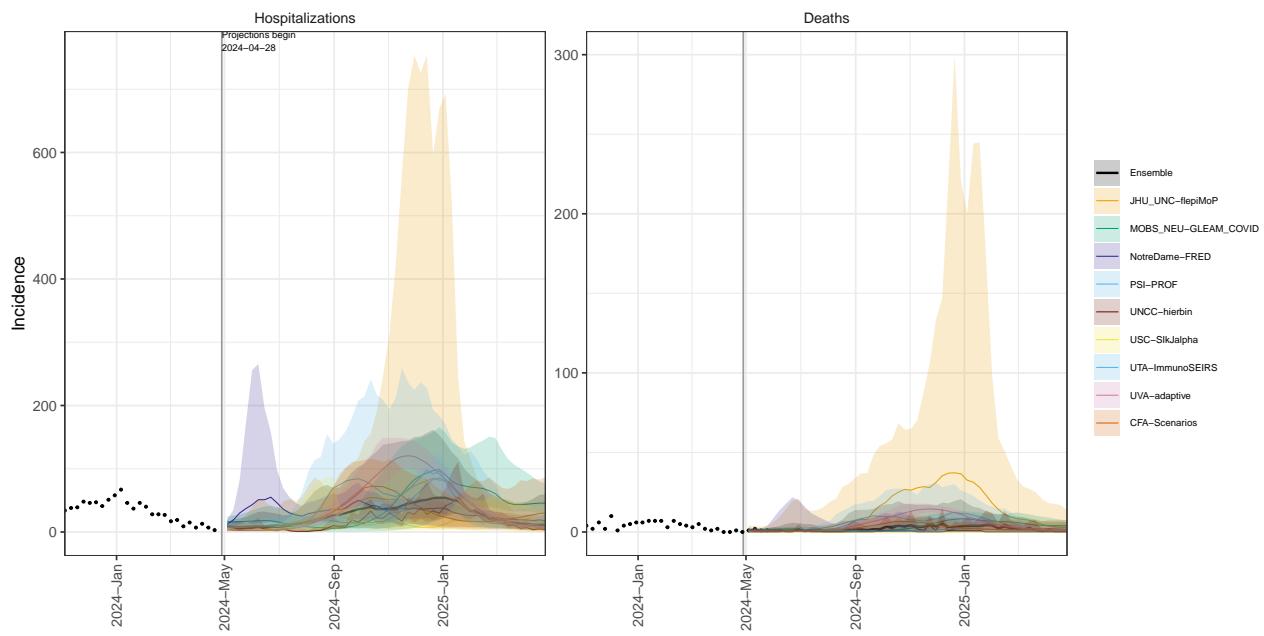
TX model variance & 95% projection intervals – No booster, High immune escape



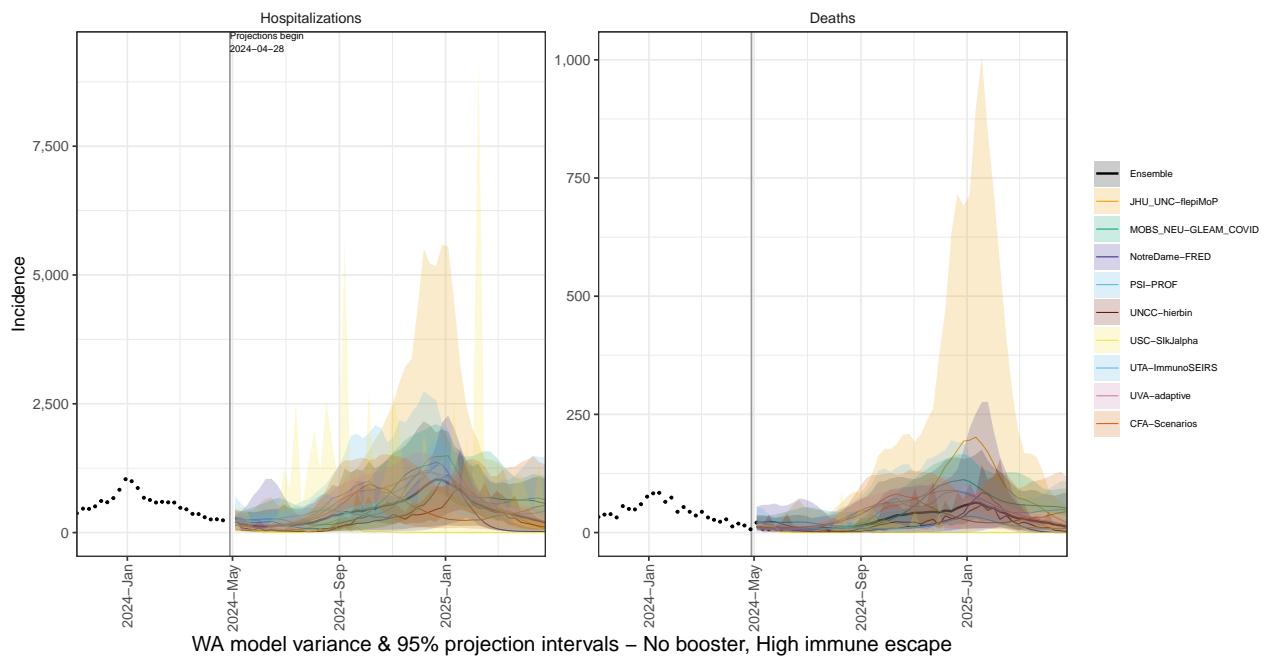
UT model variance & 95% projection intervals – No booster, High immune escape



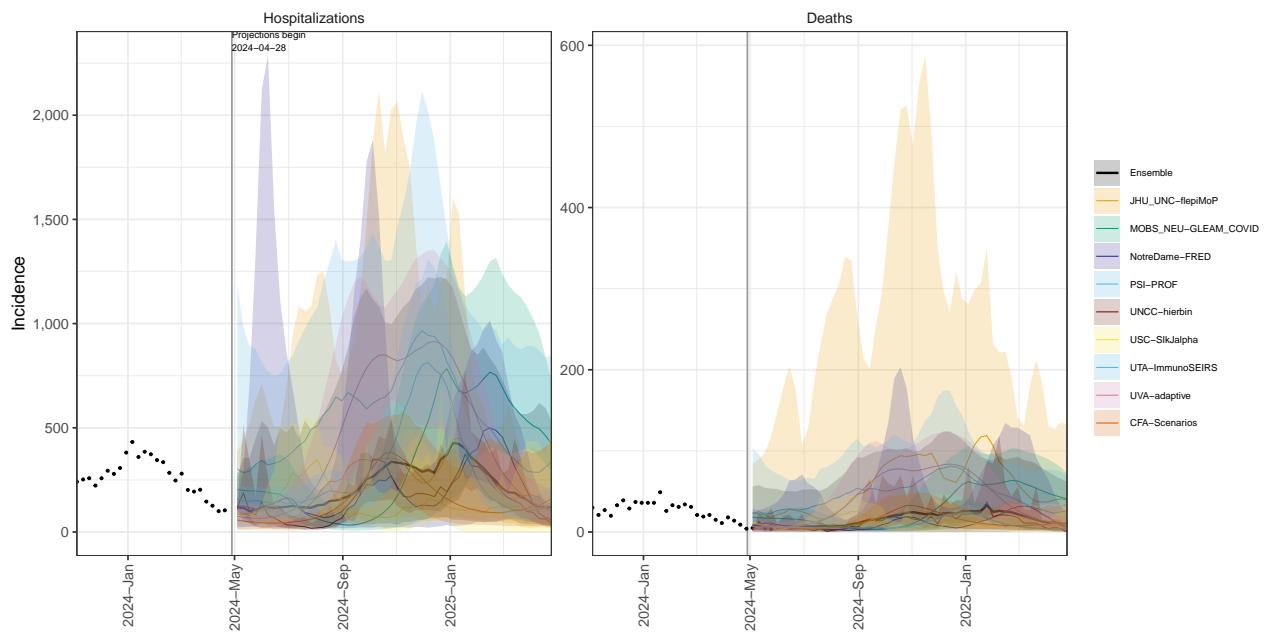
VT model variance & 95% projection intervals – No booster, High immune escape



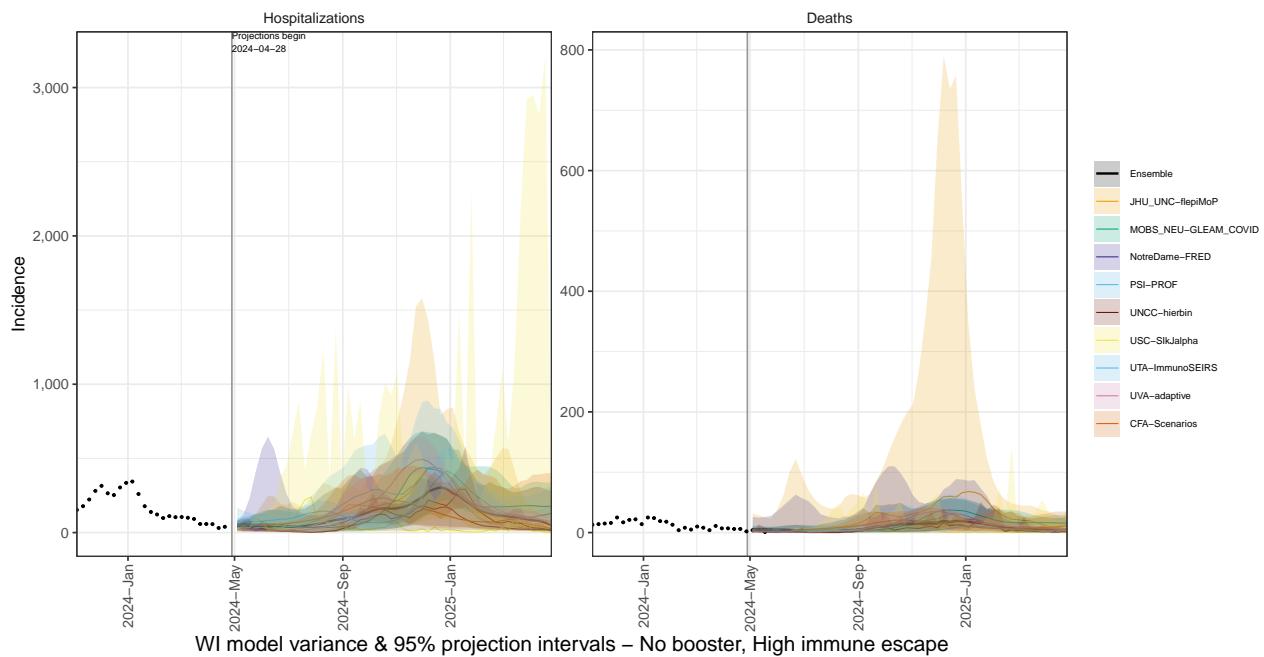
VA model variance & 95% projection intervals – No booster, High immune escape



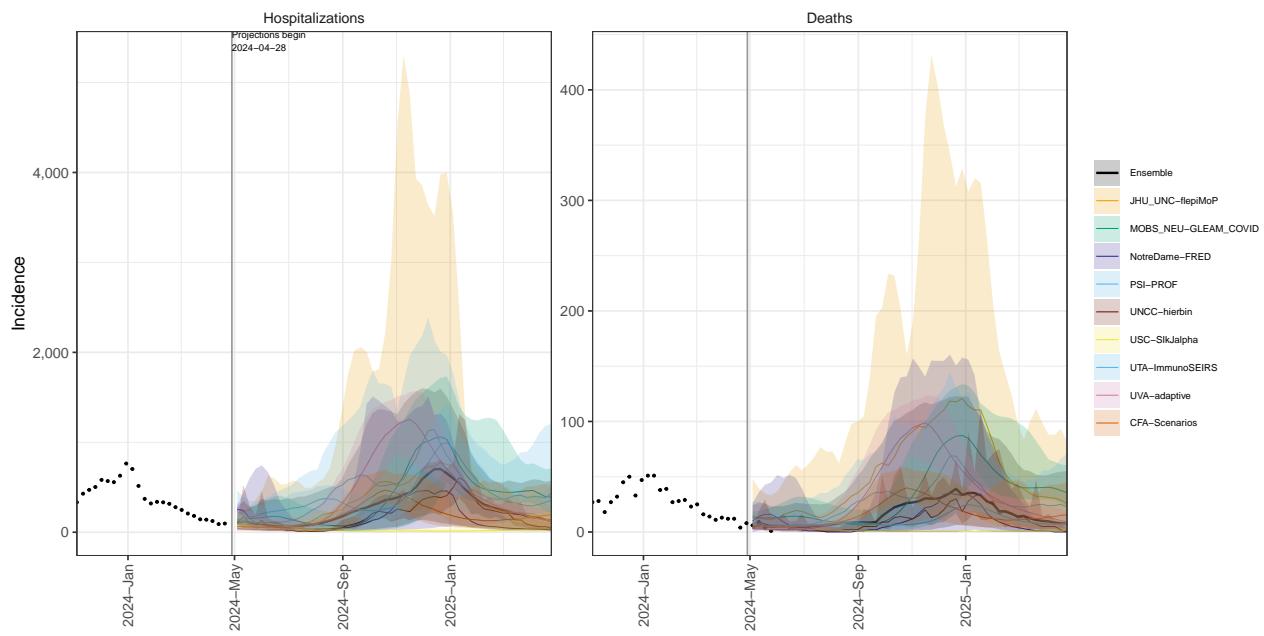
WA model variance & 95% projection intervals – No booster, High immune escape



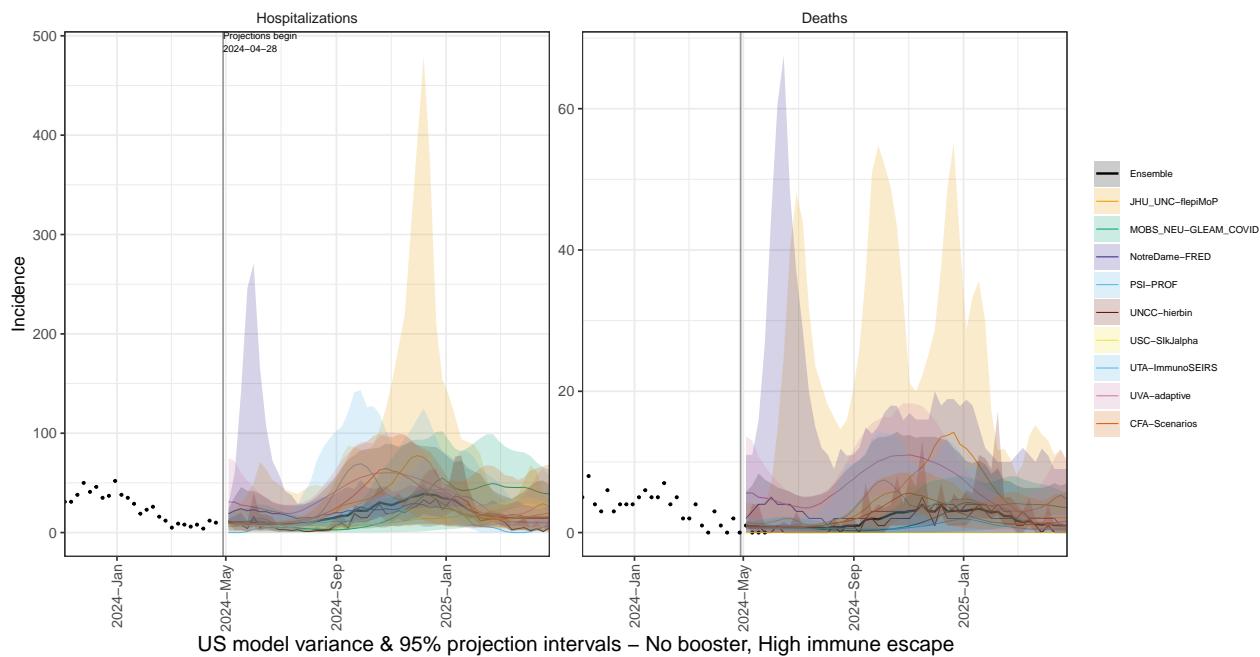
WV model variance & 95% projection intervals – No booster, High immune escape



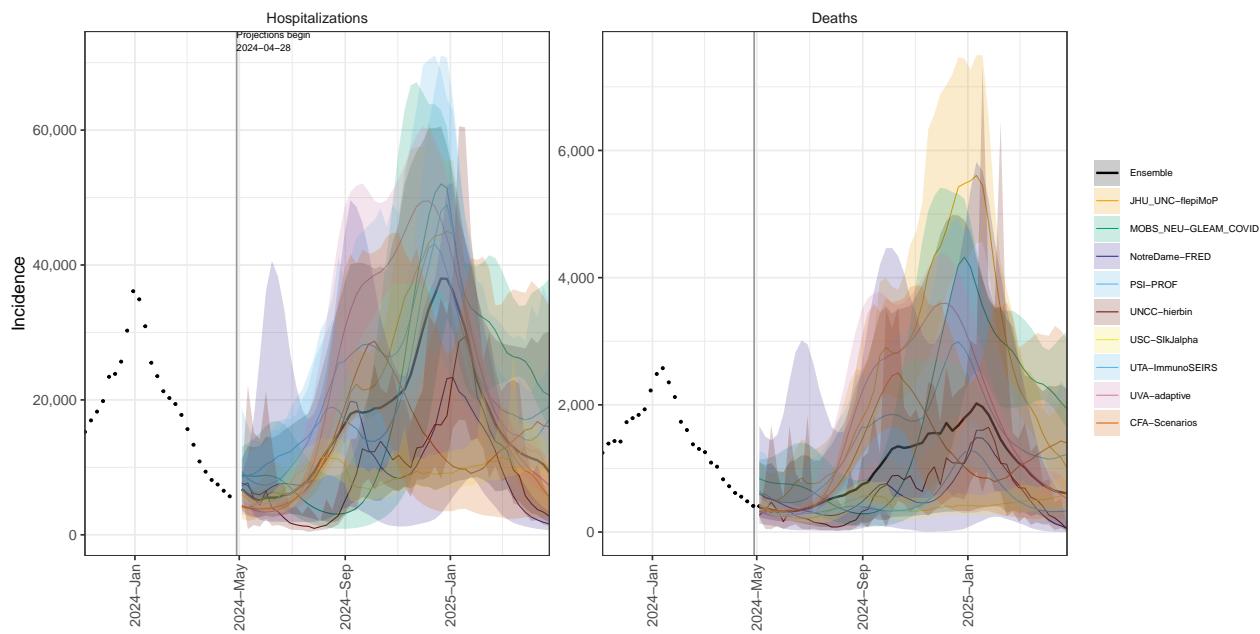
WI model variance & 95% projection intervals – No booster, High immune escape



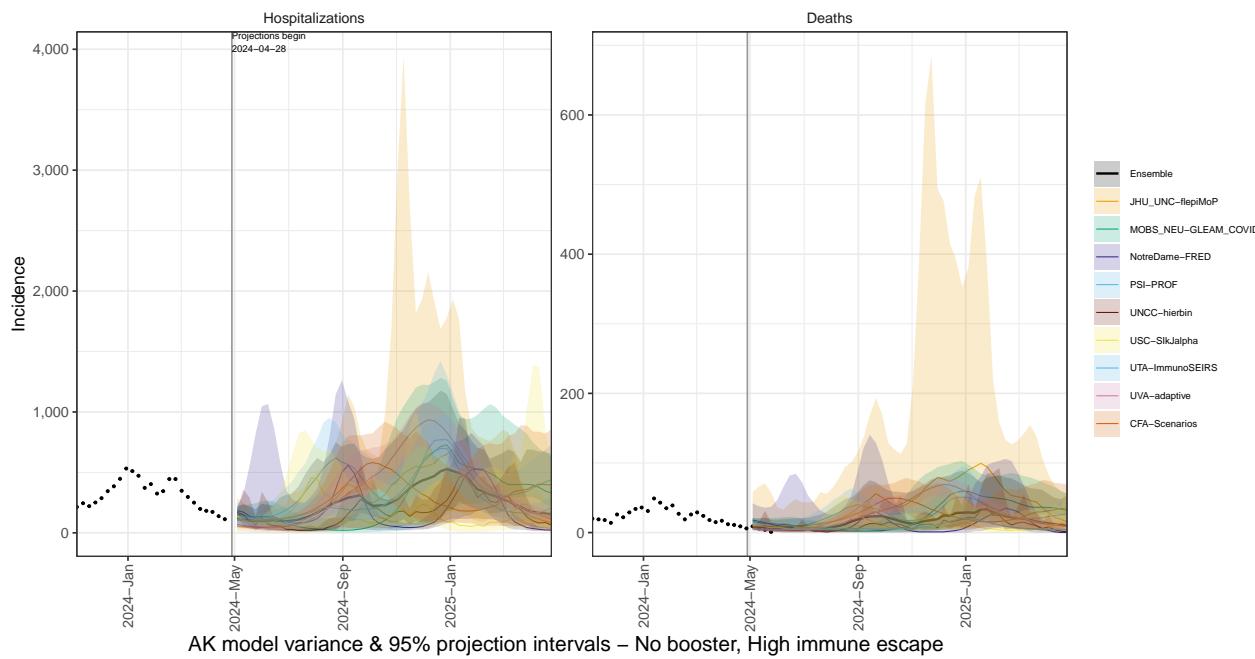
WY model variance & 95% projection intervals – No booster, High immune escape



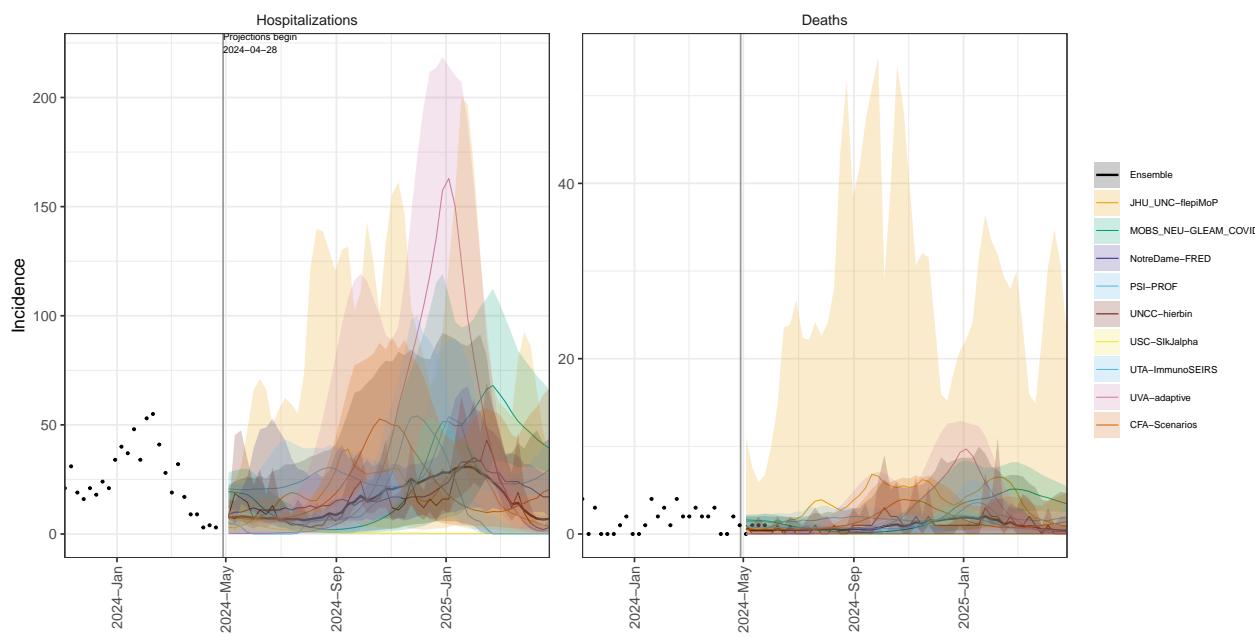
US model variance & 95% projection intervals – No booster, High immune escape



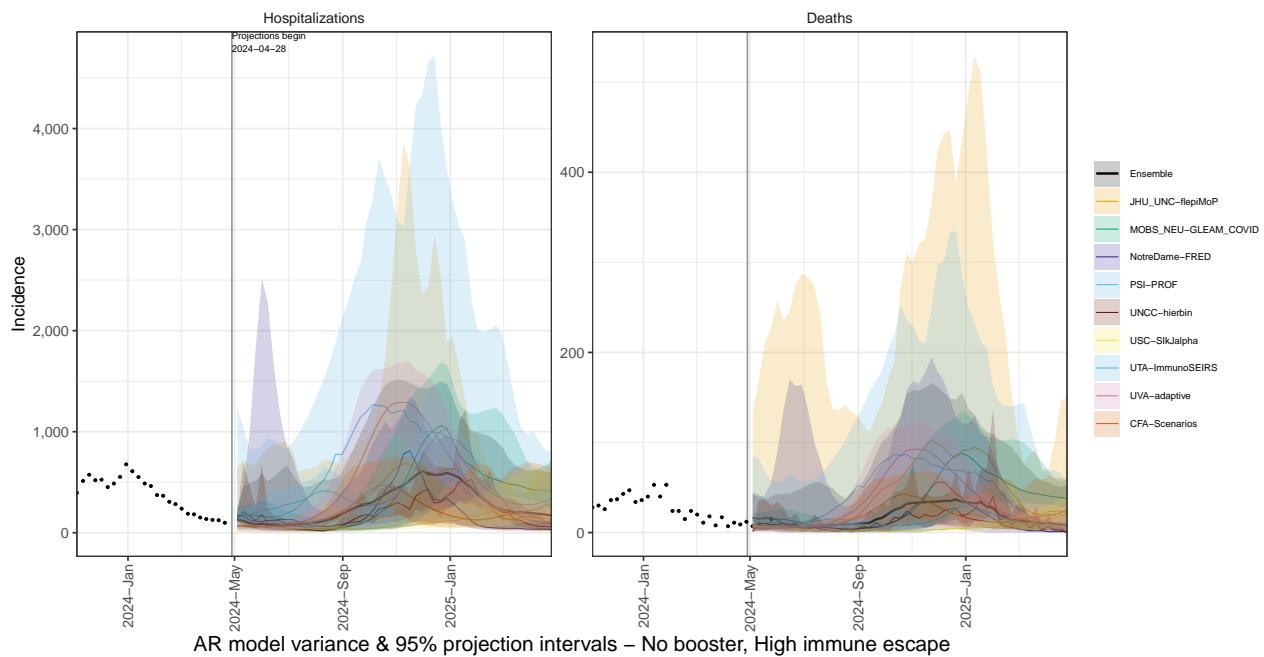
AL model variance & 95% projection intervals – No booster, High immune escape



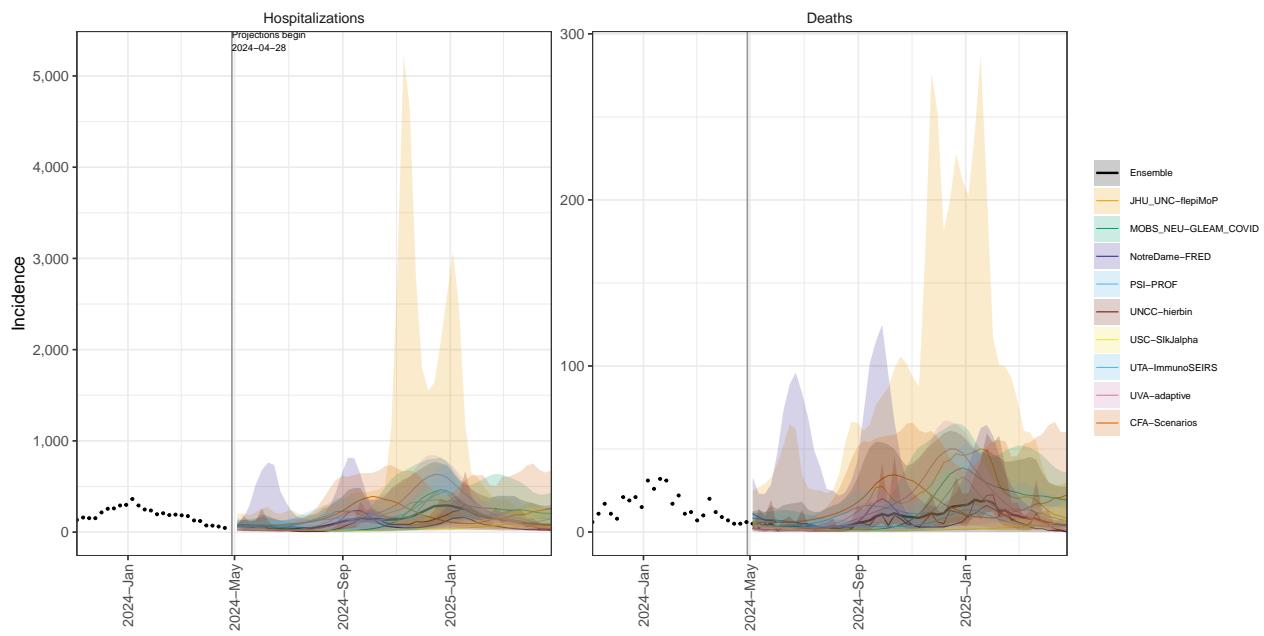
AK model variance & 95% projection intervals – No booster, High immune escape



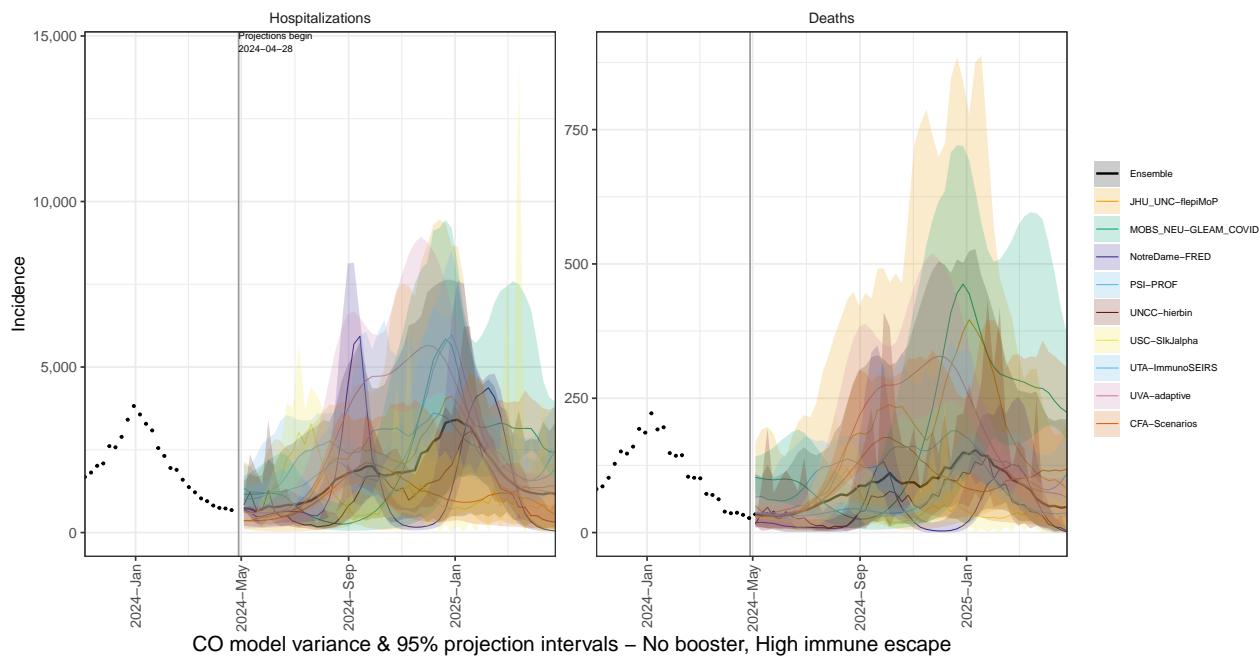
AZ model variance & 95% projection intervals – No booster, High immune escape



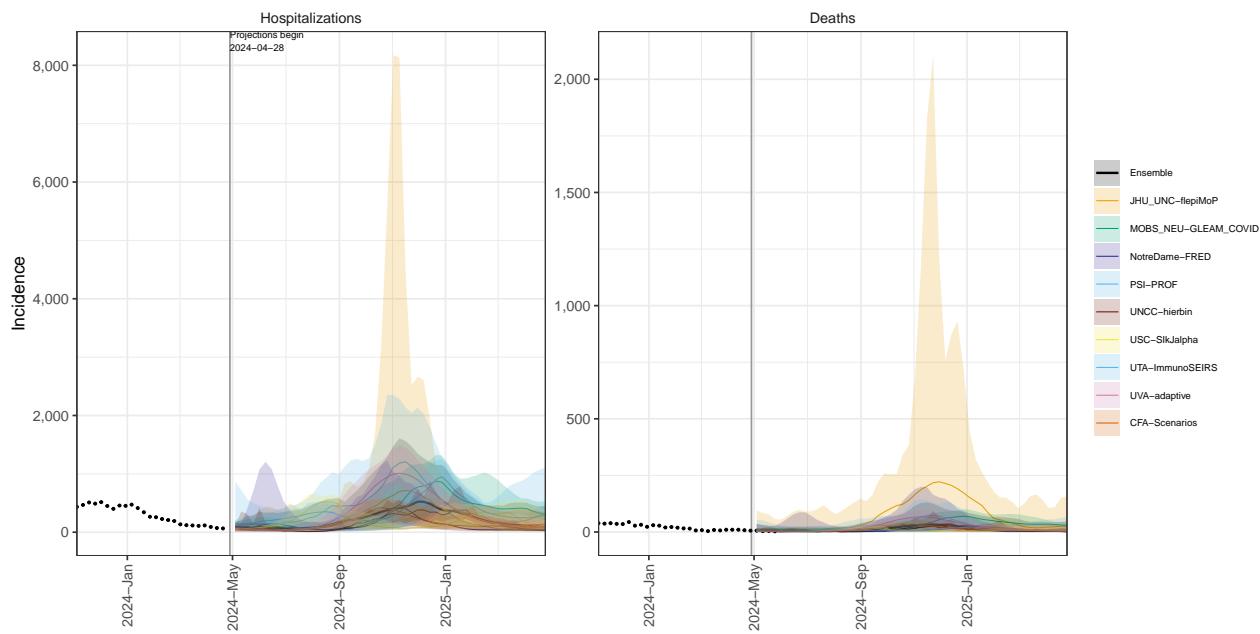
AR model variance & 95% projection intervals – No booster, High immune escape



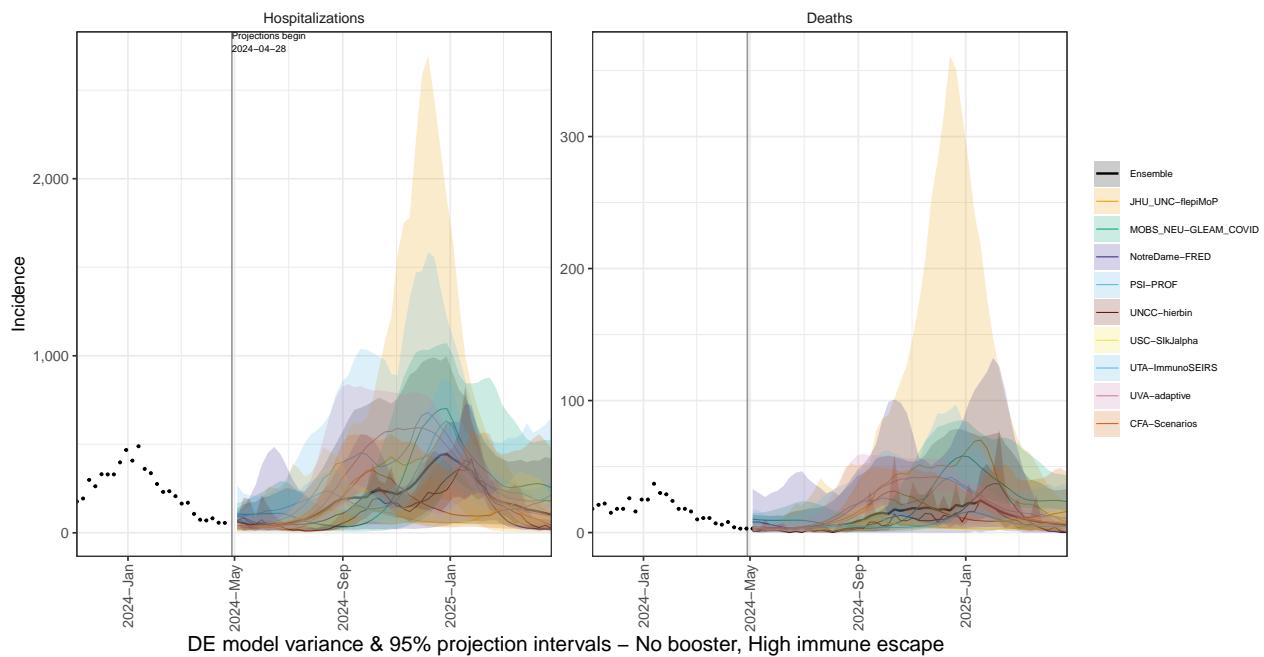
CA model variance & 95% projection intervals – No booster, High immune escape



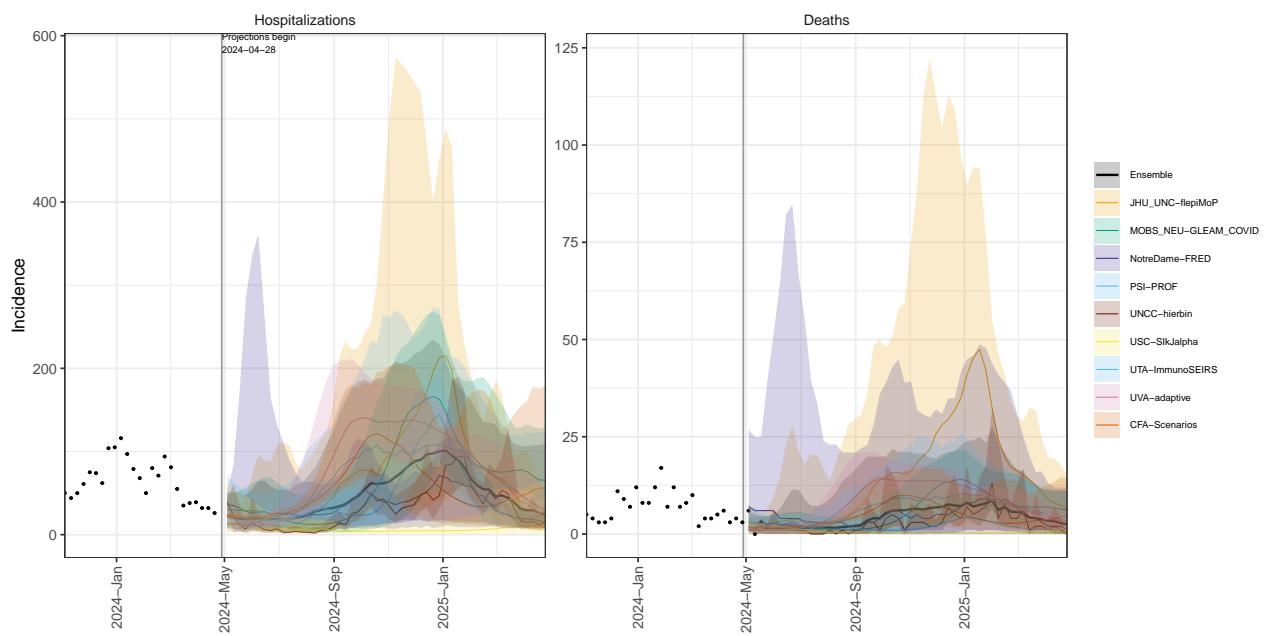
CO model variance & 95% projection intervals – No booster, High immune escape



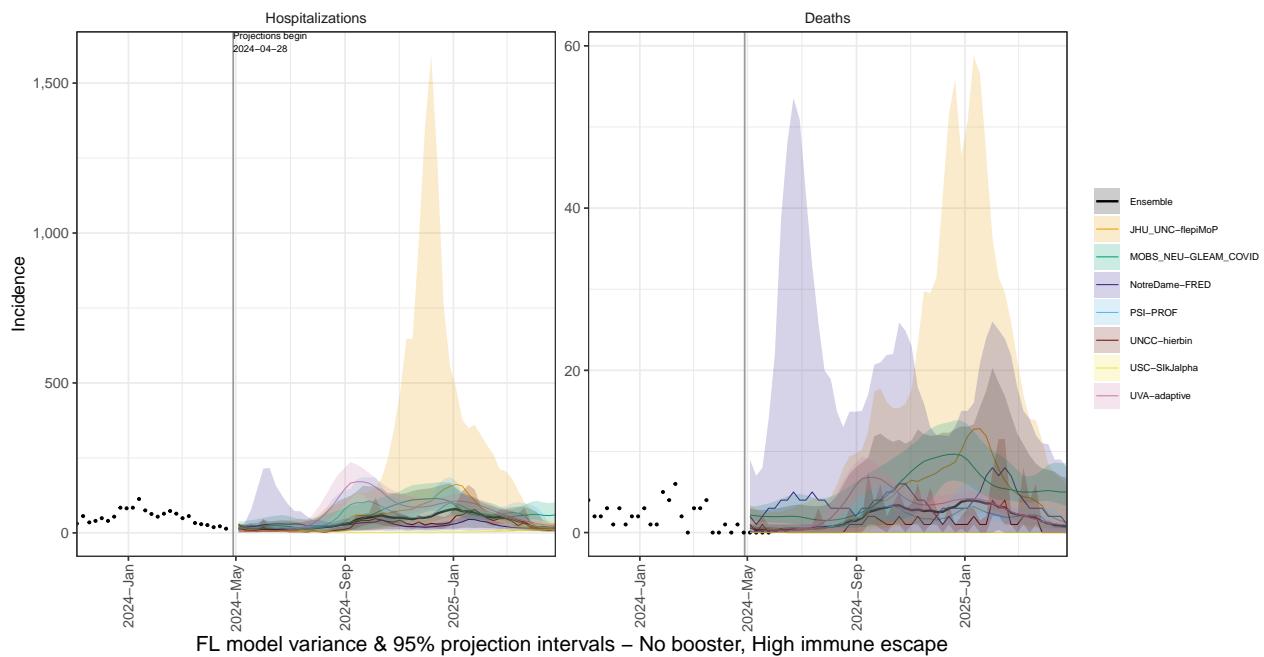
CT model variance & 95% projection intervals – No booster, High immune escape



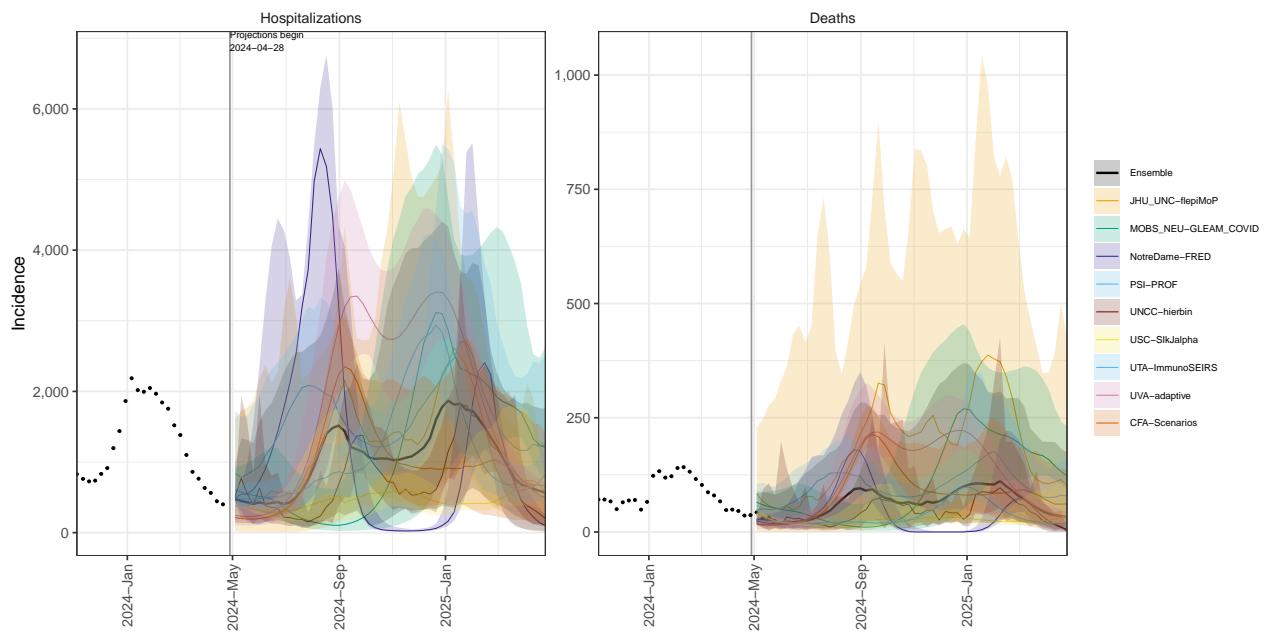
DE model variance & 95% projection intervals – No booster, High immune escape



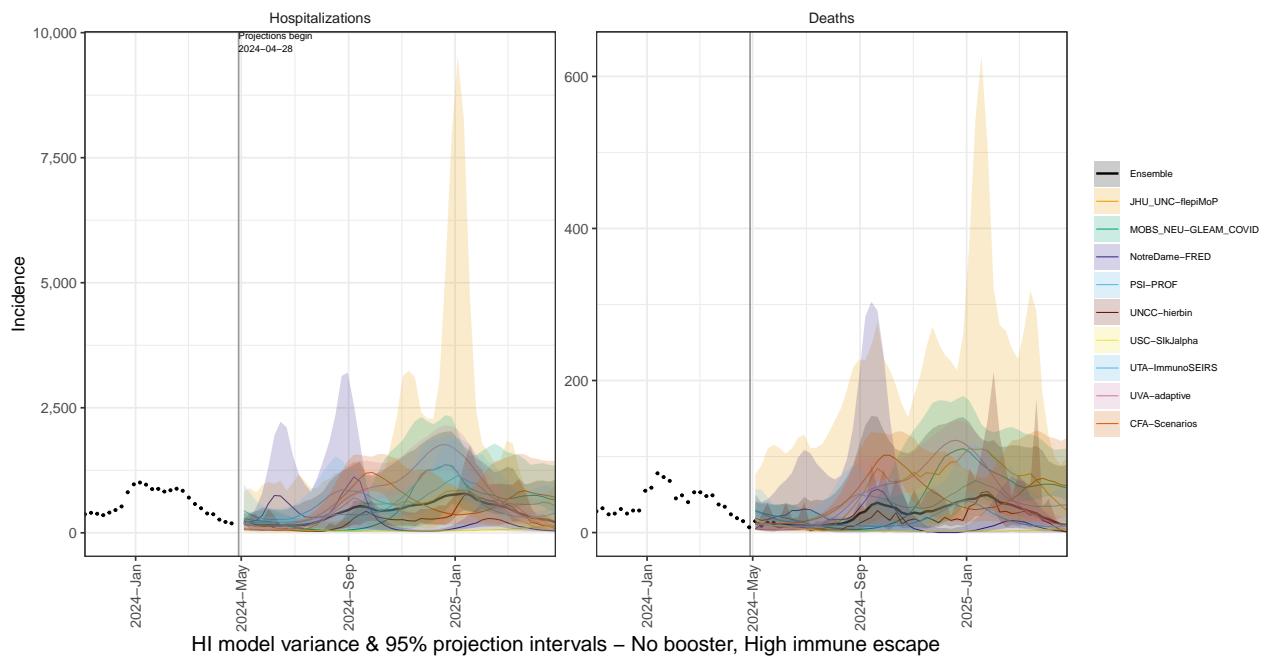
DC model variance & 95% projection intervals – No booster, High immune escape



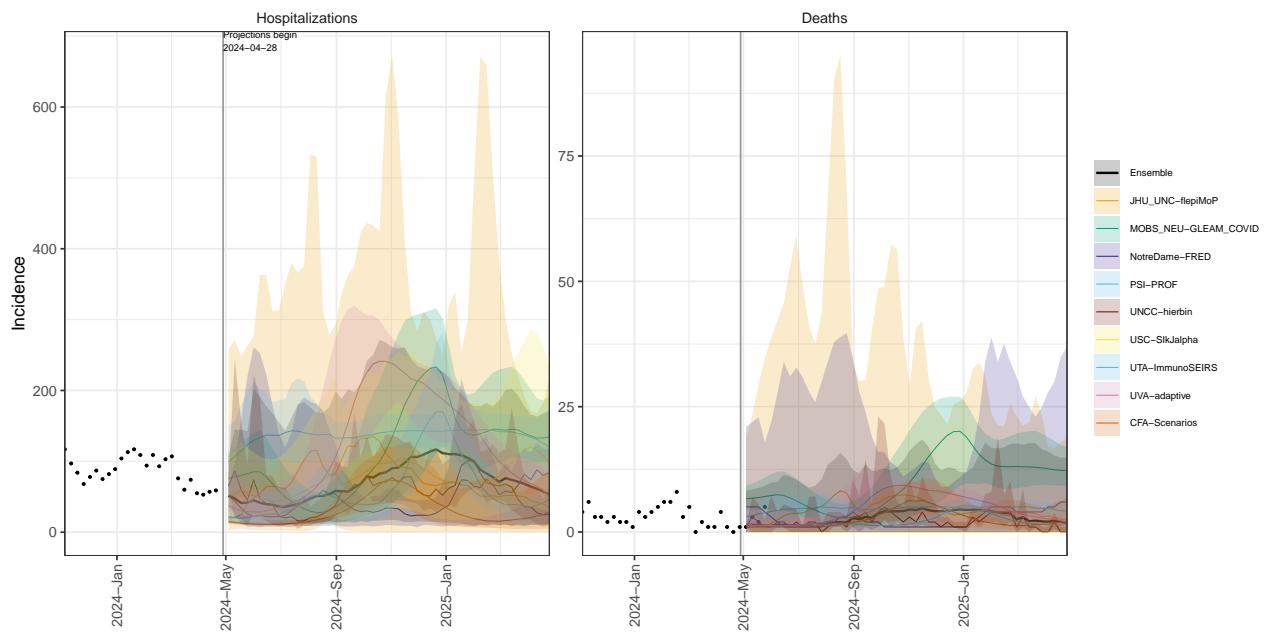
FL model variance & 95% projection intervals – No booster, High immune escape



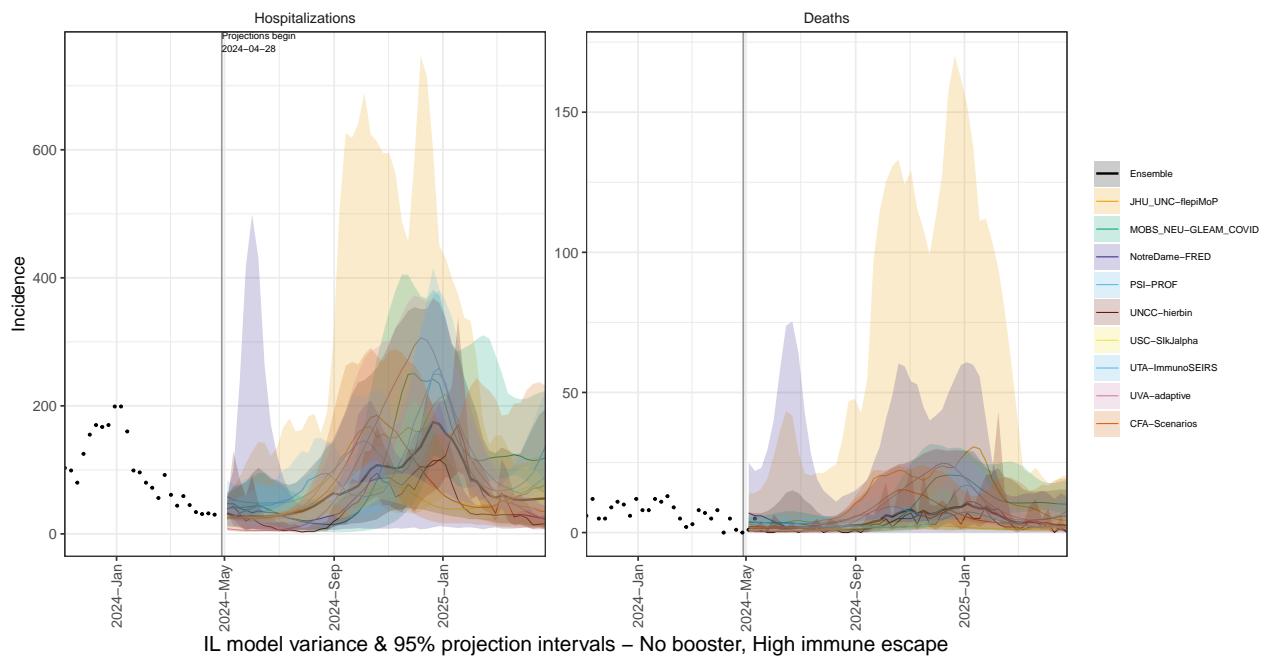
GA model variance & 95% projection intervals – No booster, High immune escape



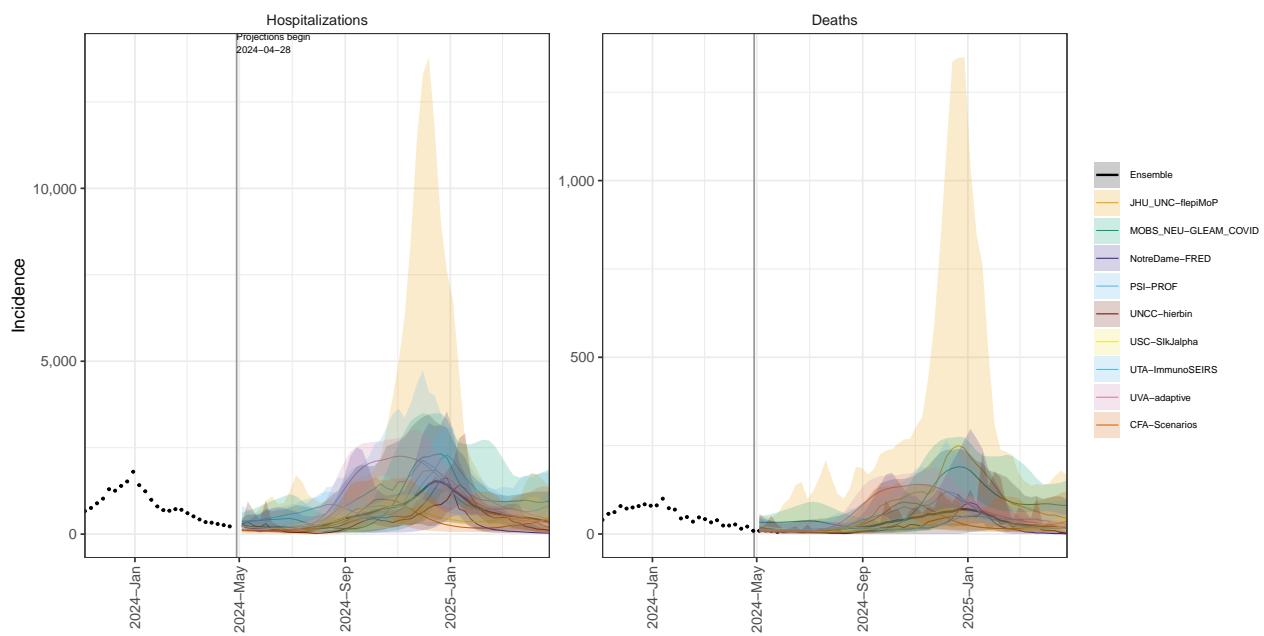
HI model variance & 95% projection intervals – No booster, High immune escape



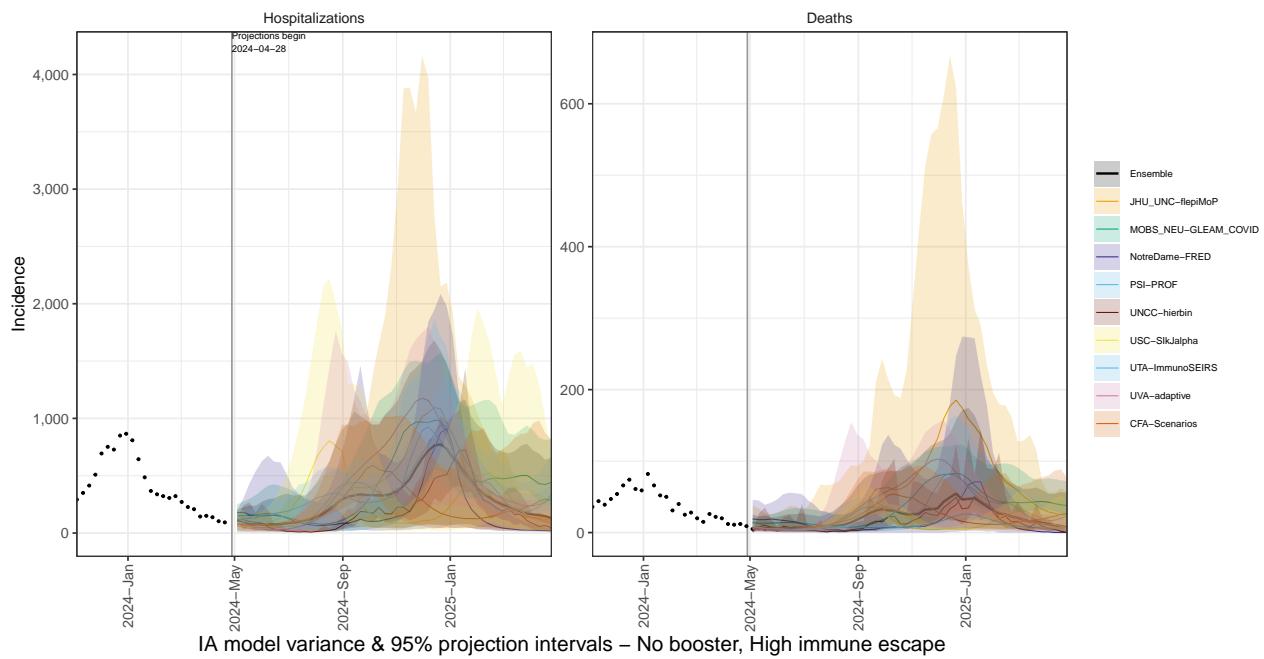
ID model variance & 95% projection intervals – No booster, High immune escape



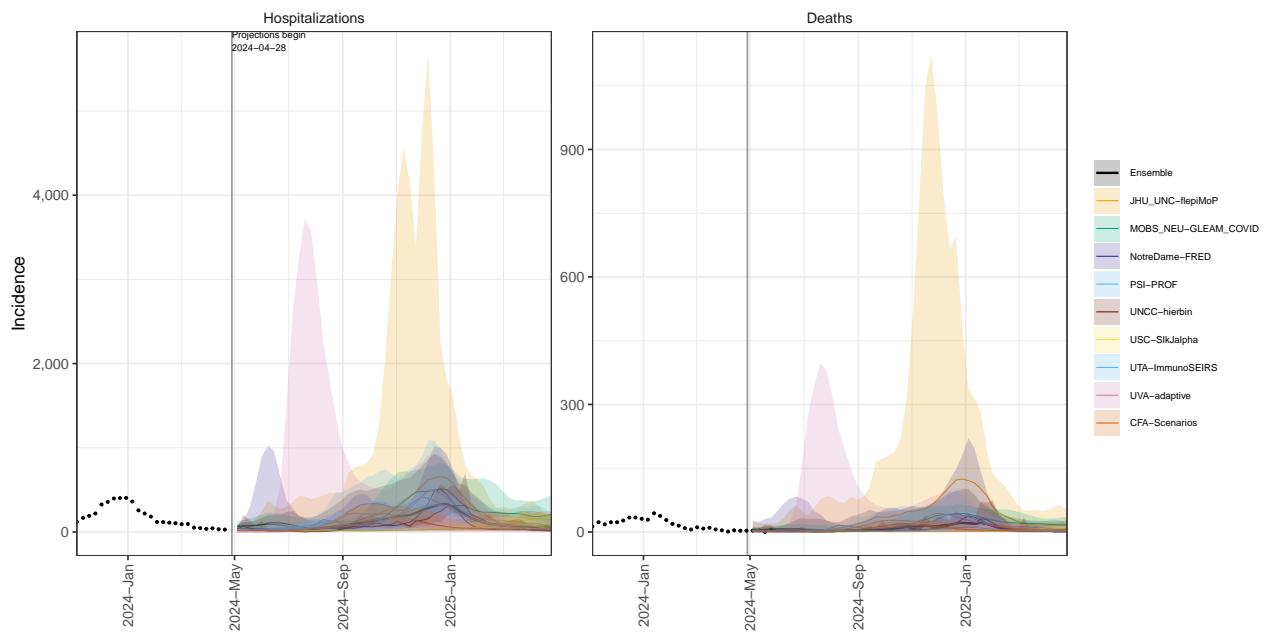
IL model variance & 95% projection intervals – No booster, High immune escape



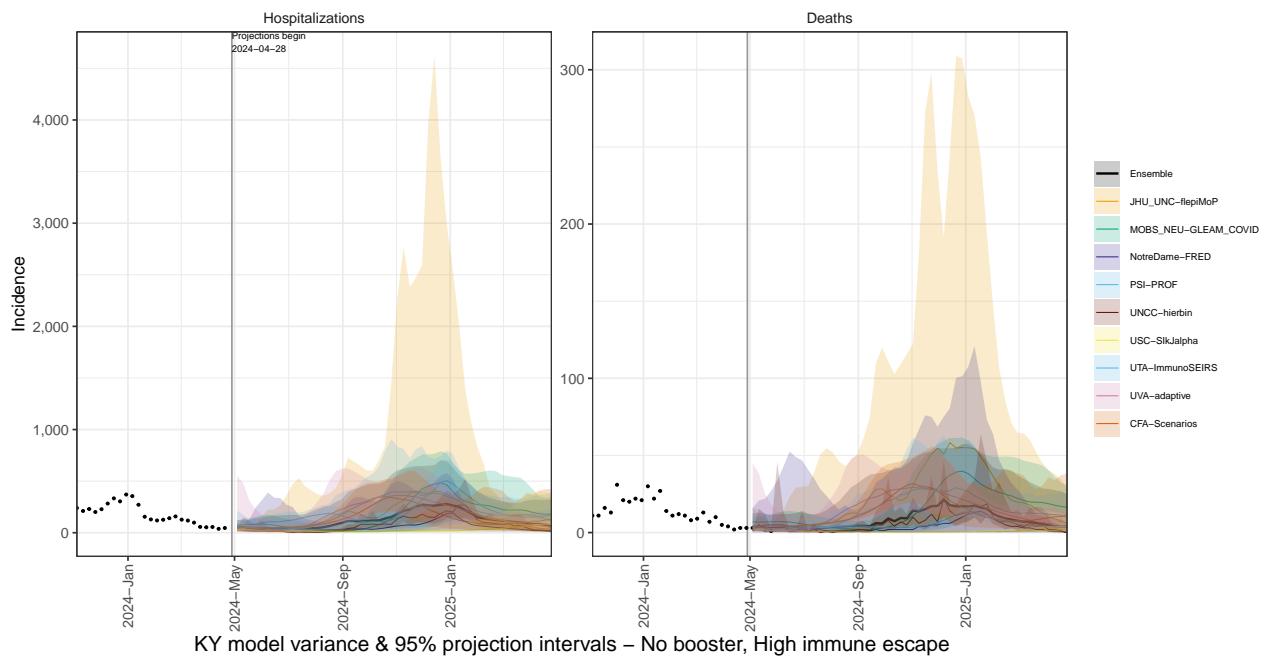
IN model variance & 95% projection intervals – No booster, High immune escape



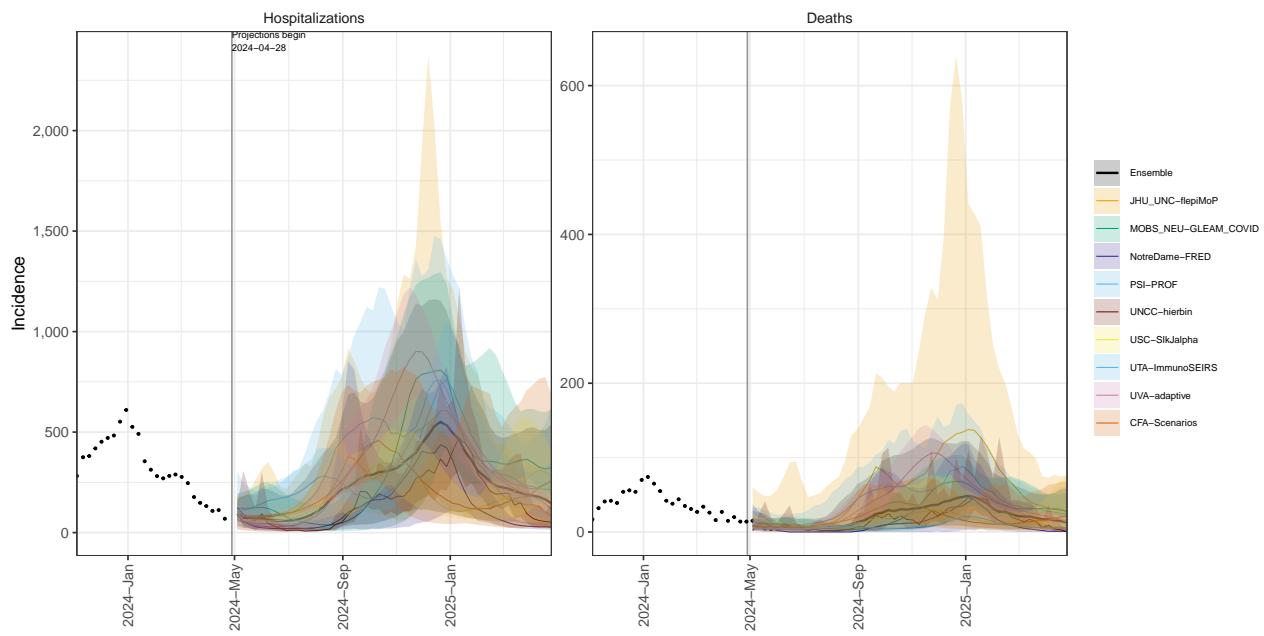
IA model variance & 95% projection intervals – No booster, High immune escape



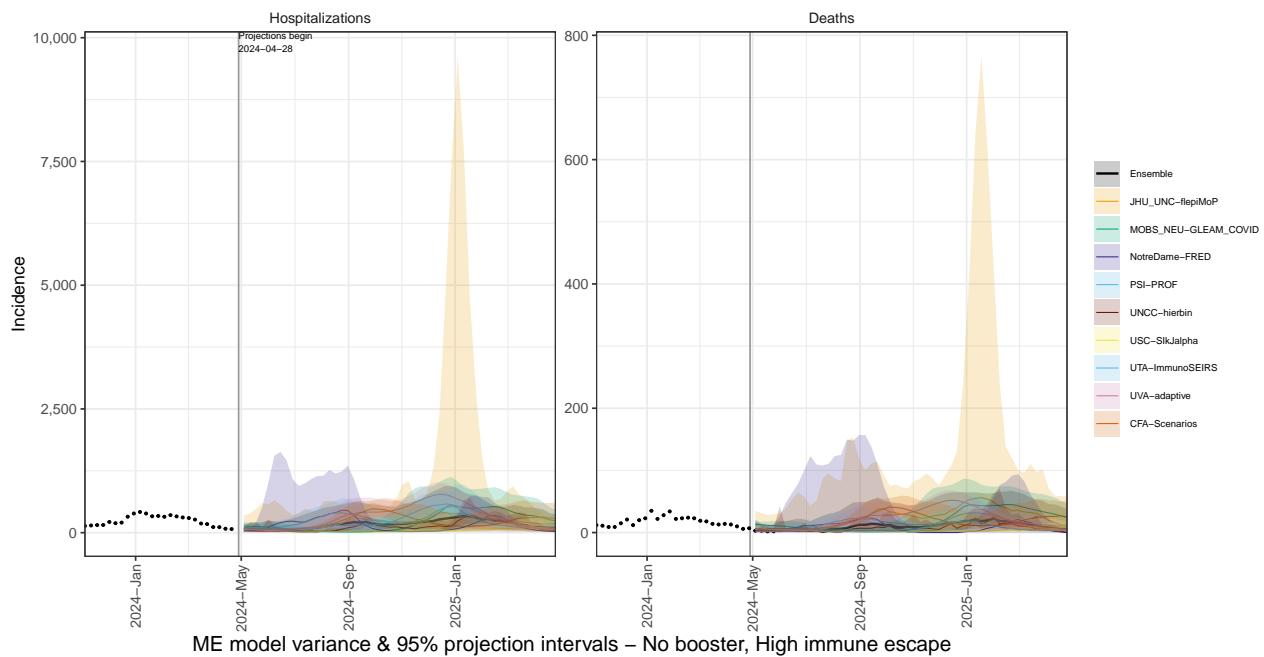
KS model variance & 95% projection intervals – No booster, High immune escape



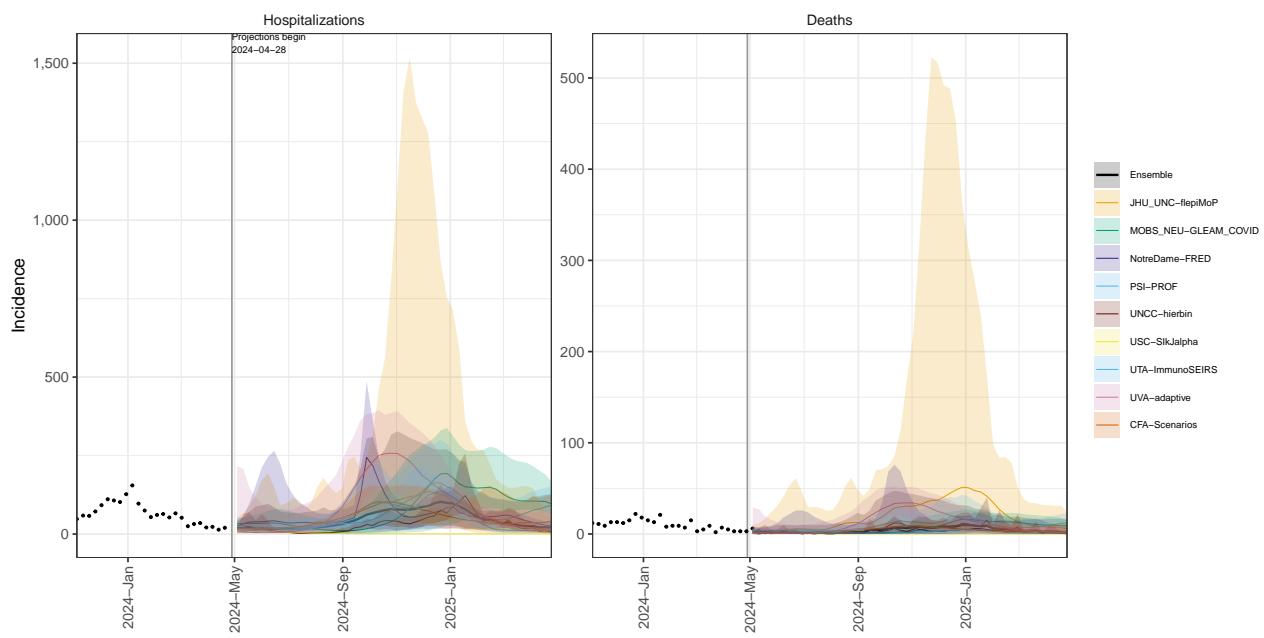
KY model variance & 95% projection intervals – No booster, High immune escape



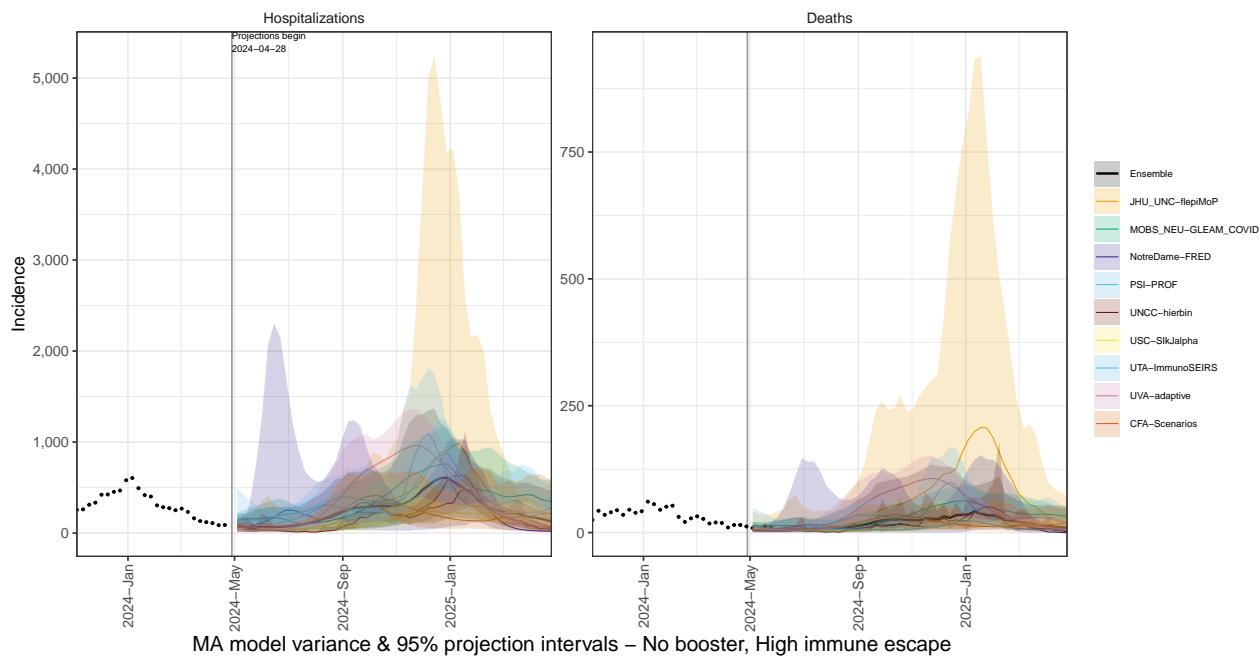
LA model variance & 95% projection intervals – No booster, High immune escape



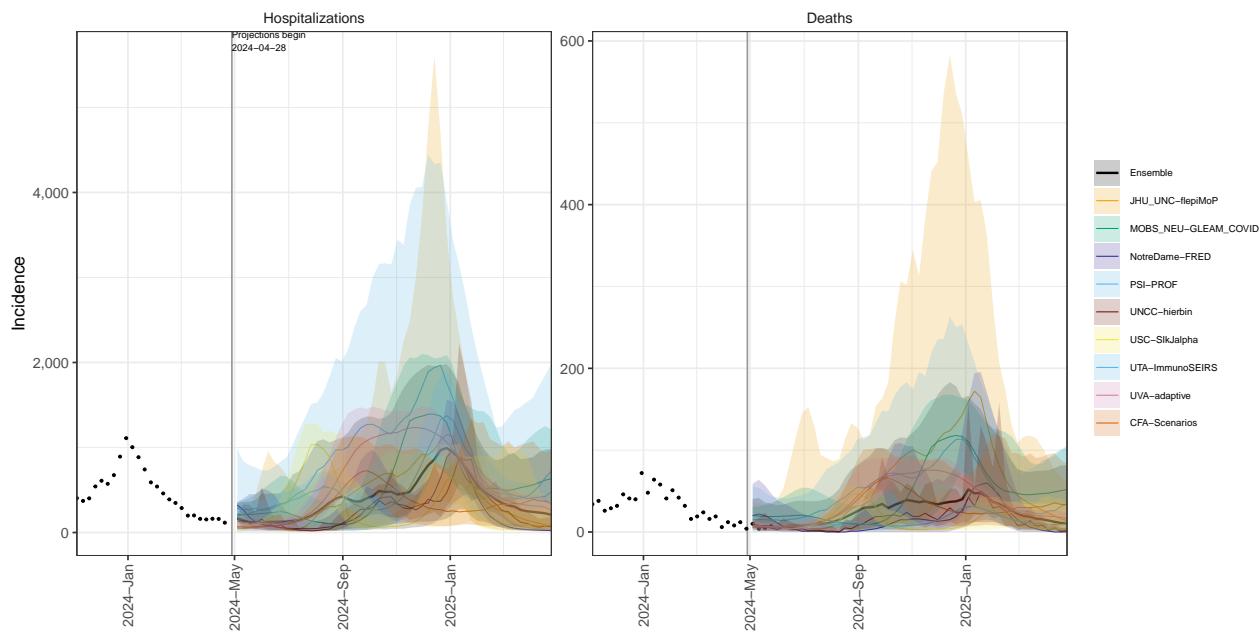
ME model variance & 95% projection intervals – No booster, High immune escape



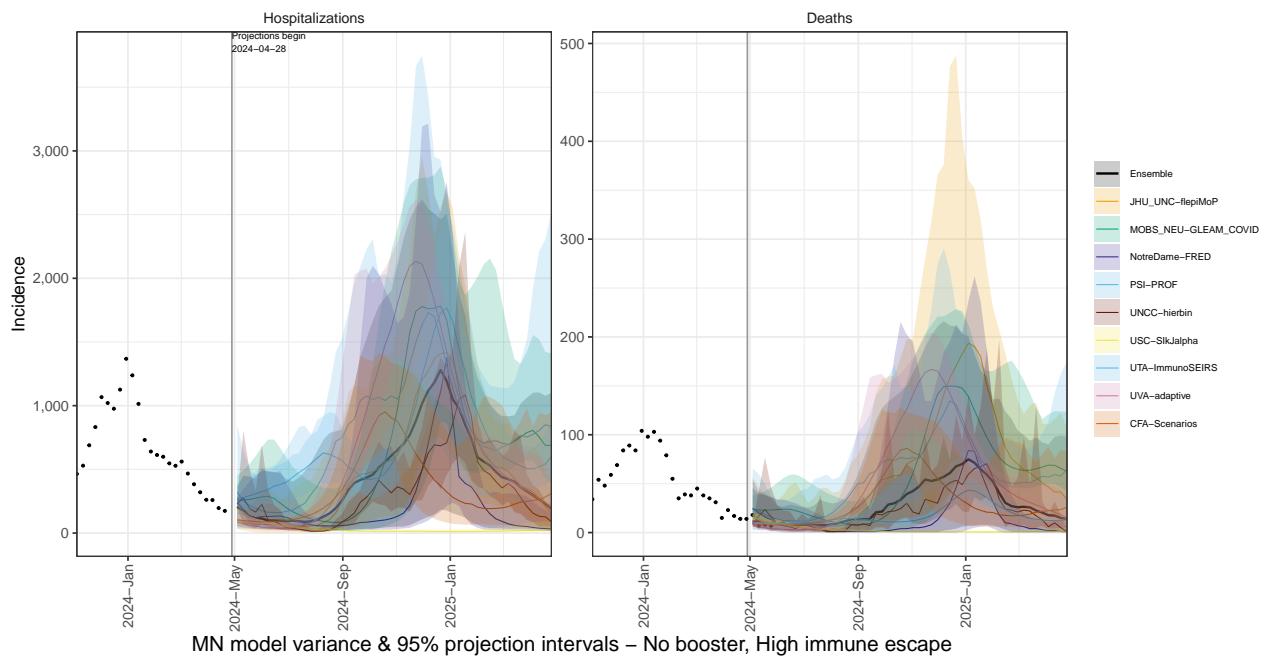
MD model variance & 95% projection intervals – No booster, High immune escape



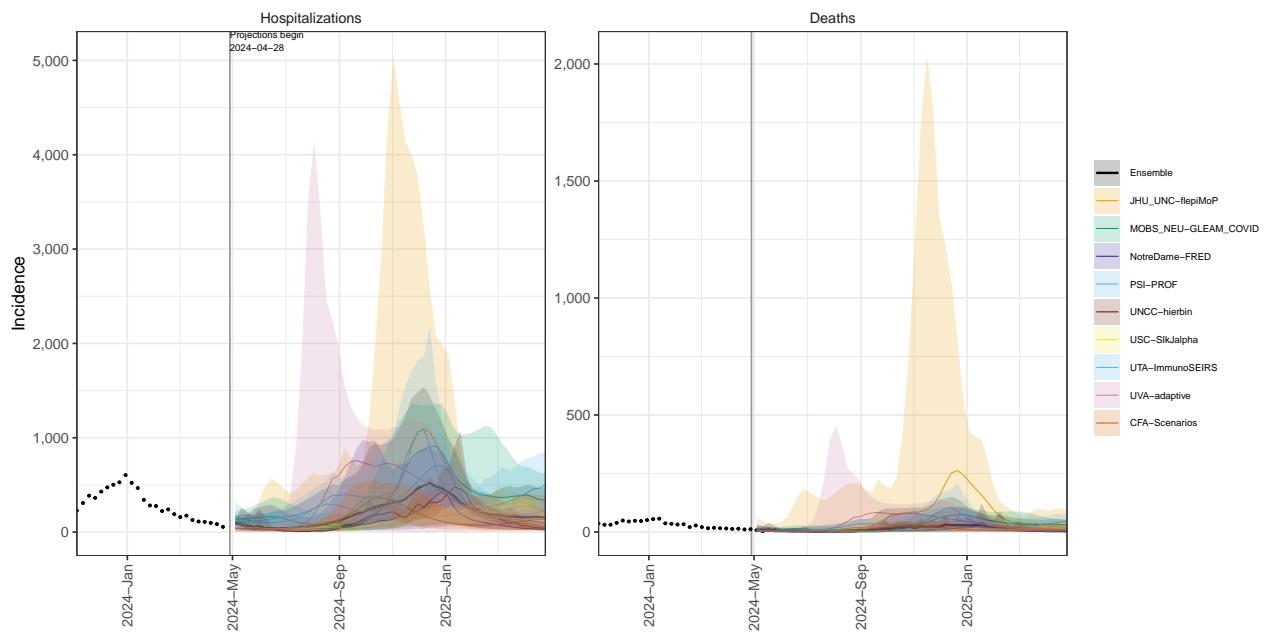
MA model variance & 95% projection intervals – No booster, High immune escape



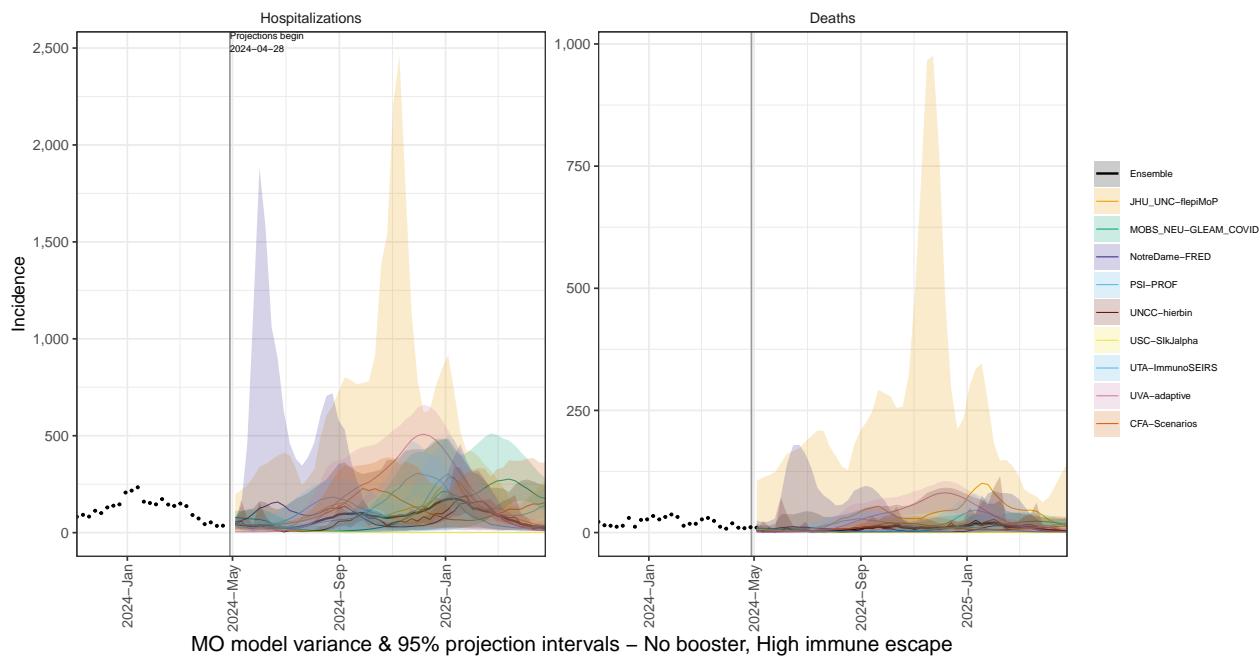
MI model variance & 95% projection intervals – No booster, High immune escape



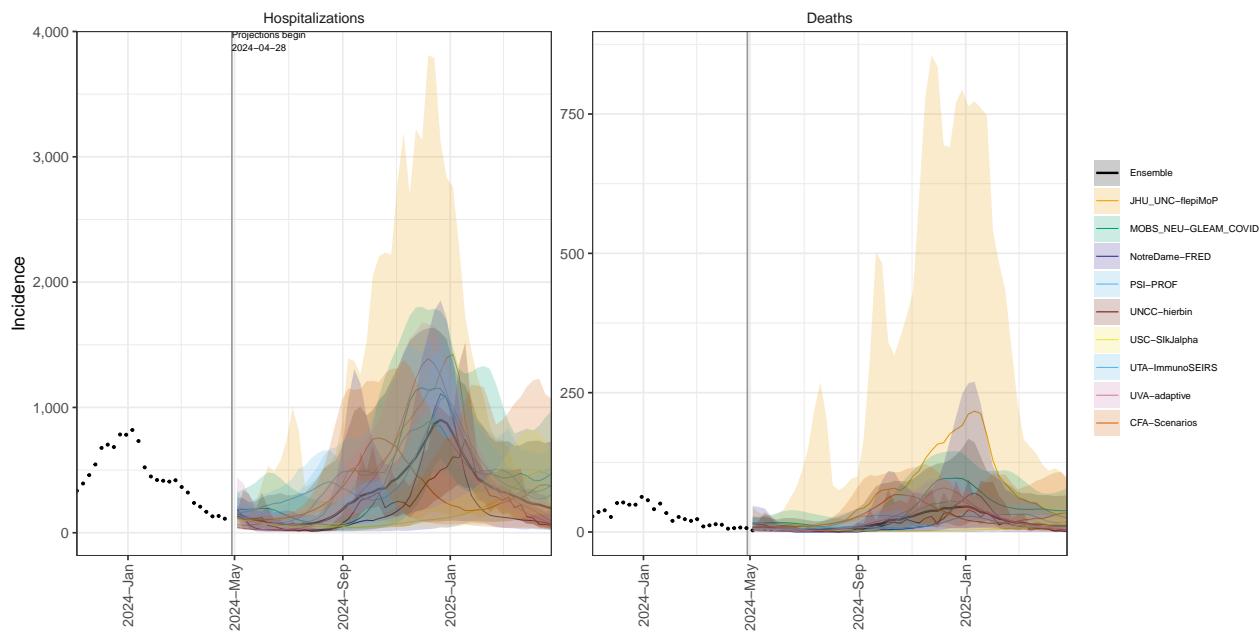
MN model variance & 95% projection intervals – No booster, High immune escape



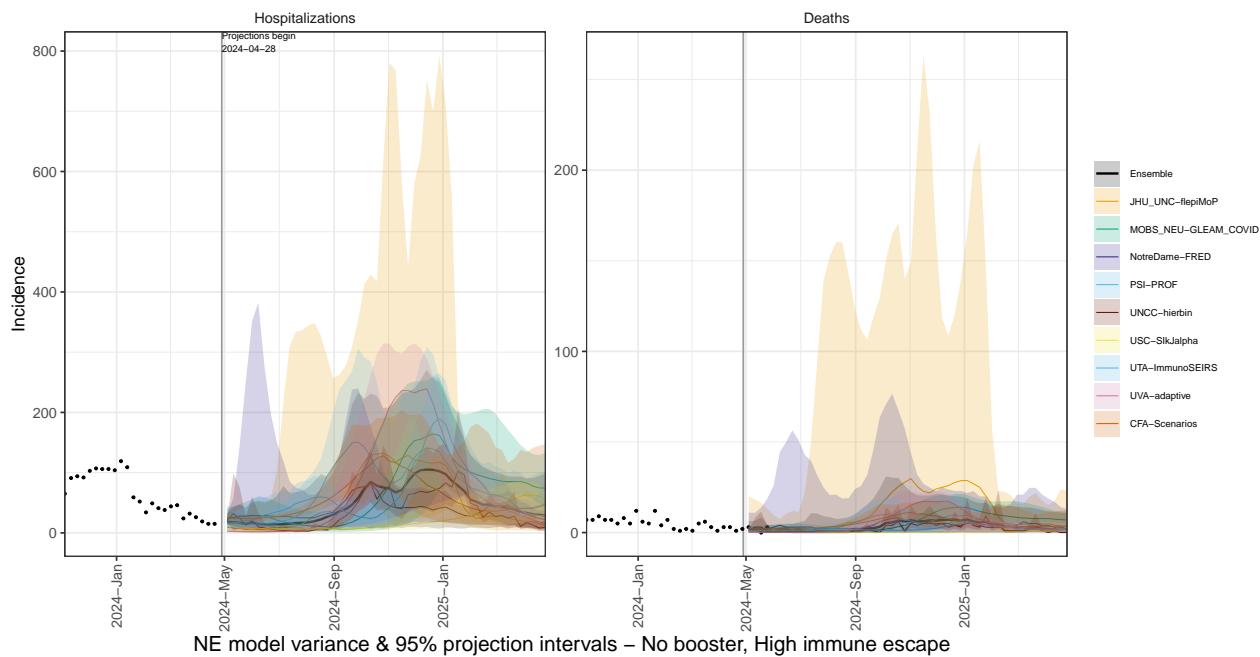
MS model variance & 95% projection intervals – No booster, High immune escape



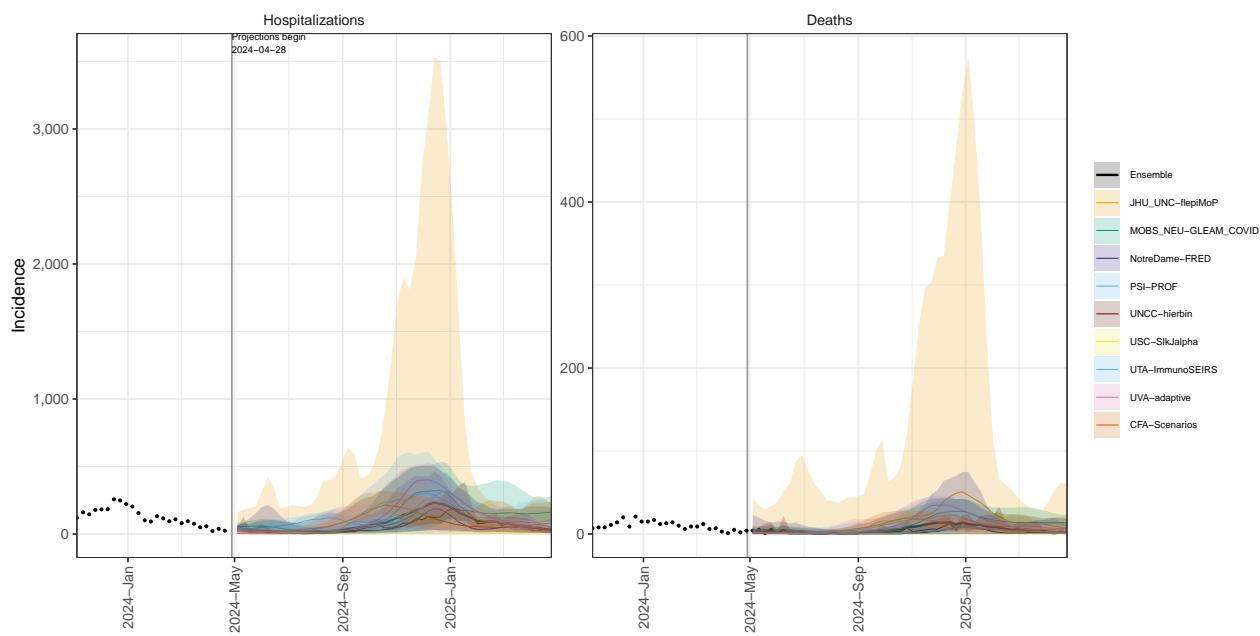
MO model variance & 95% projection intervals – No booster, High immune escape



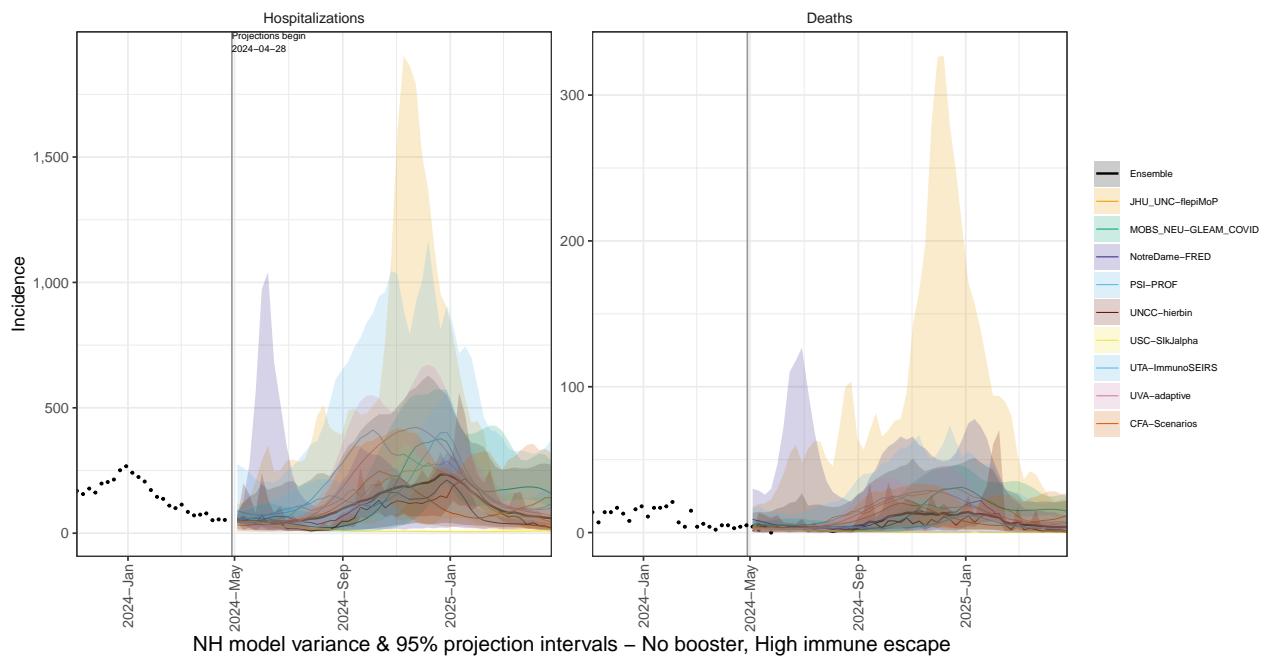
MT model variance & 95% projection intervals – No booster, High immune escape



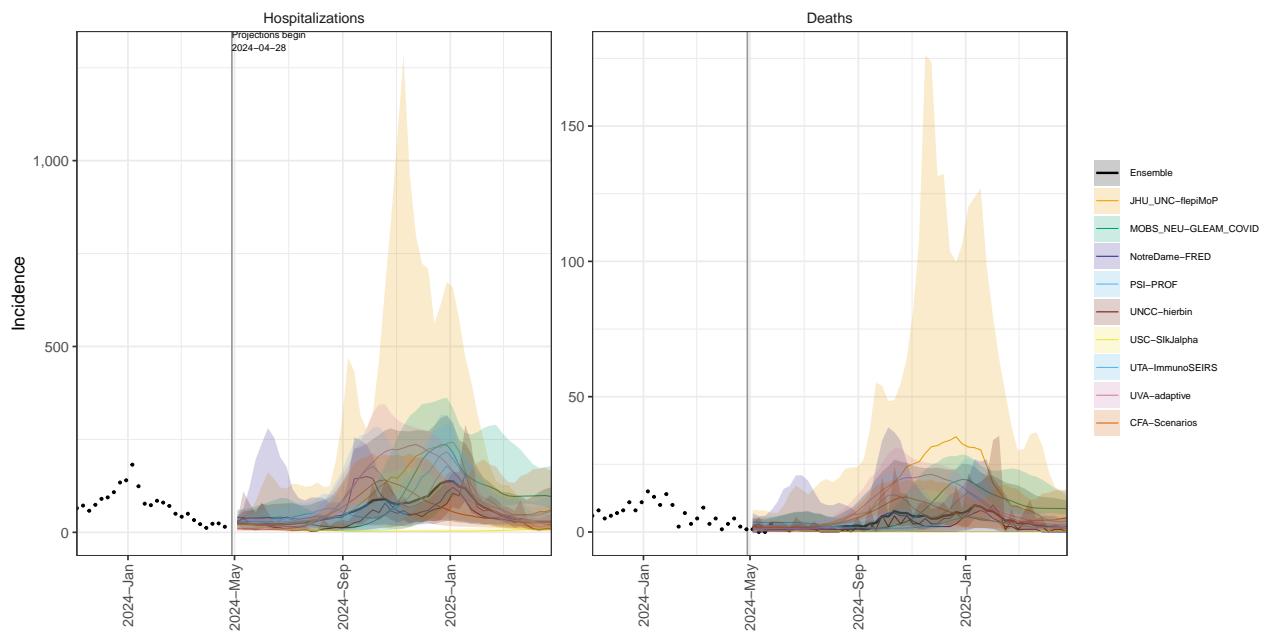
NE model variance & 95% projection intervals – No booster, High immune escape



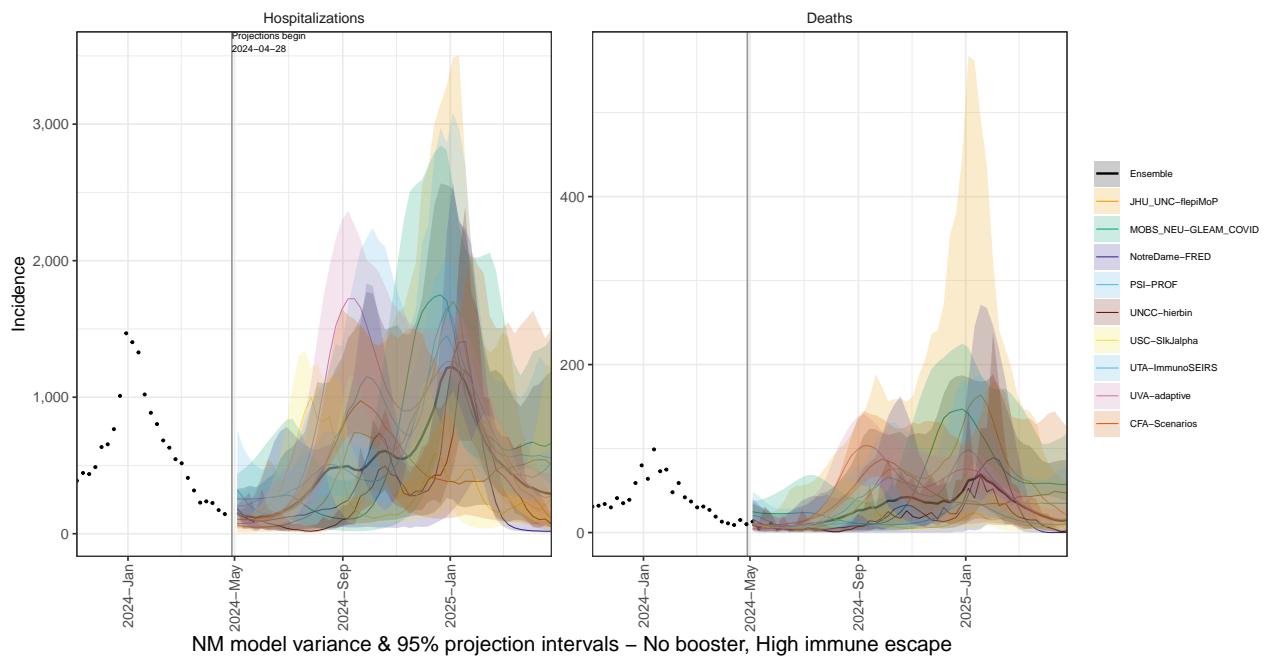
NV model variance & 95% projection intervals – No booster, High immune escape



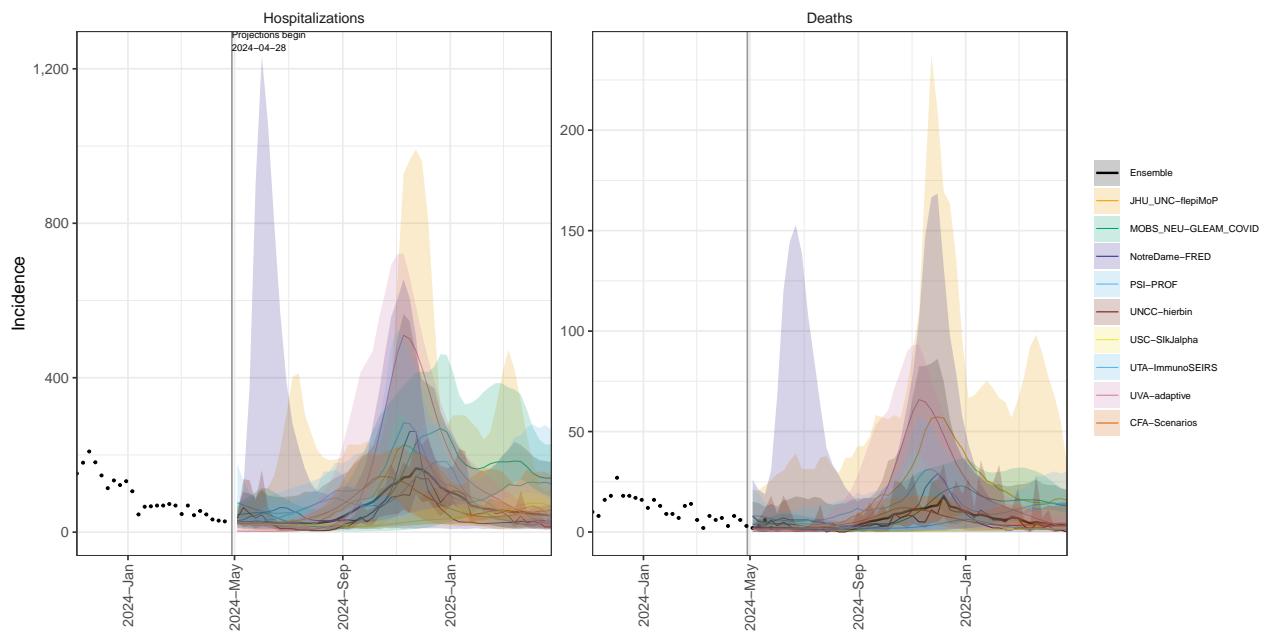
NH model variance & 95% projection intervals – No booster, High immune escape



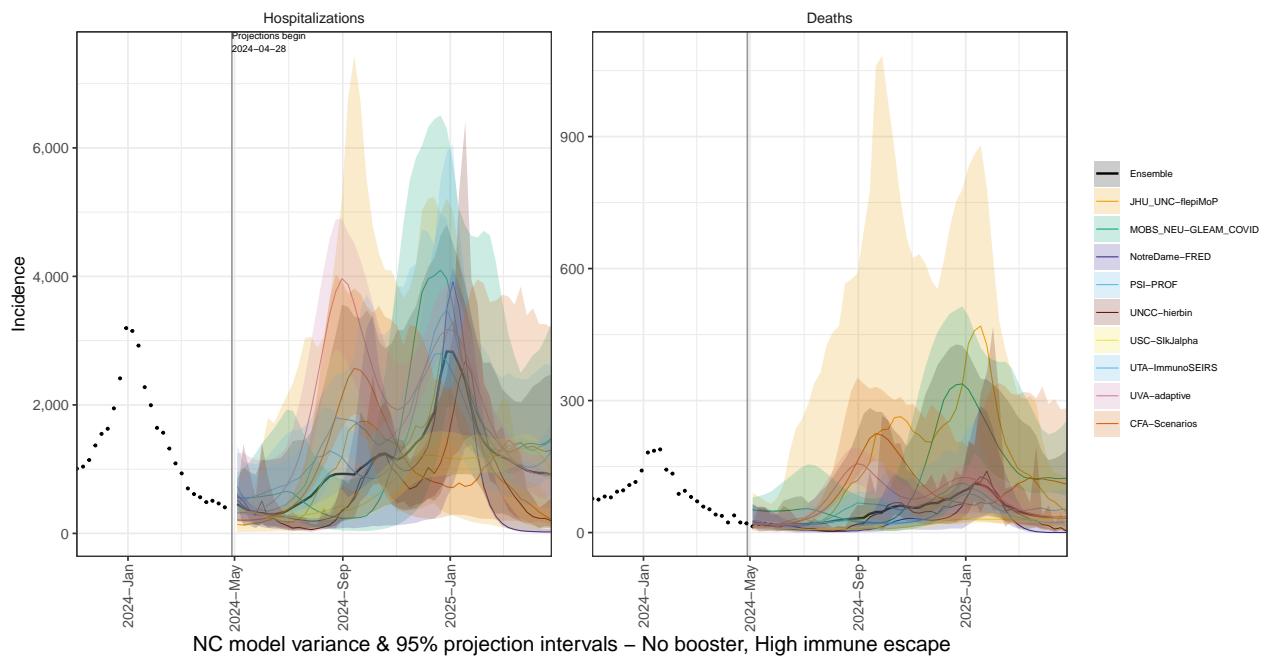
NJ model variance & 95% projection intervals – No booster, High immune escape



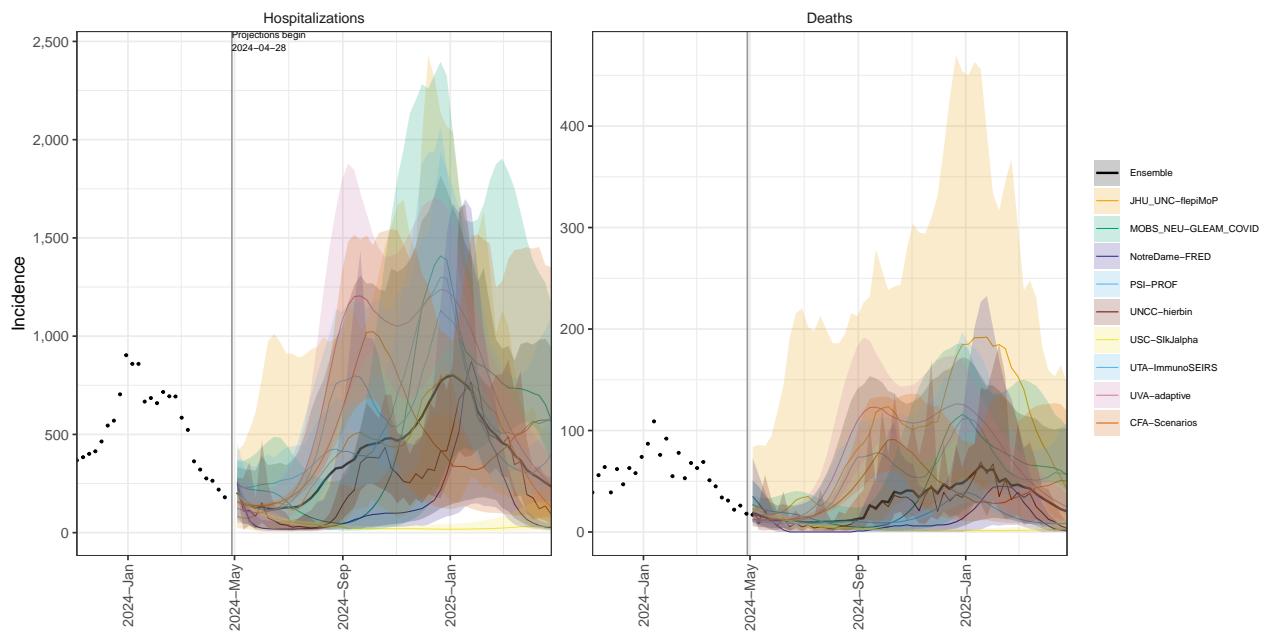
NM model variance & 95% projection intervals – No booster, High immune escape



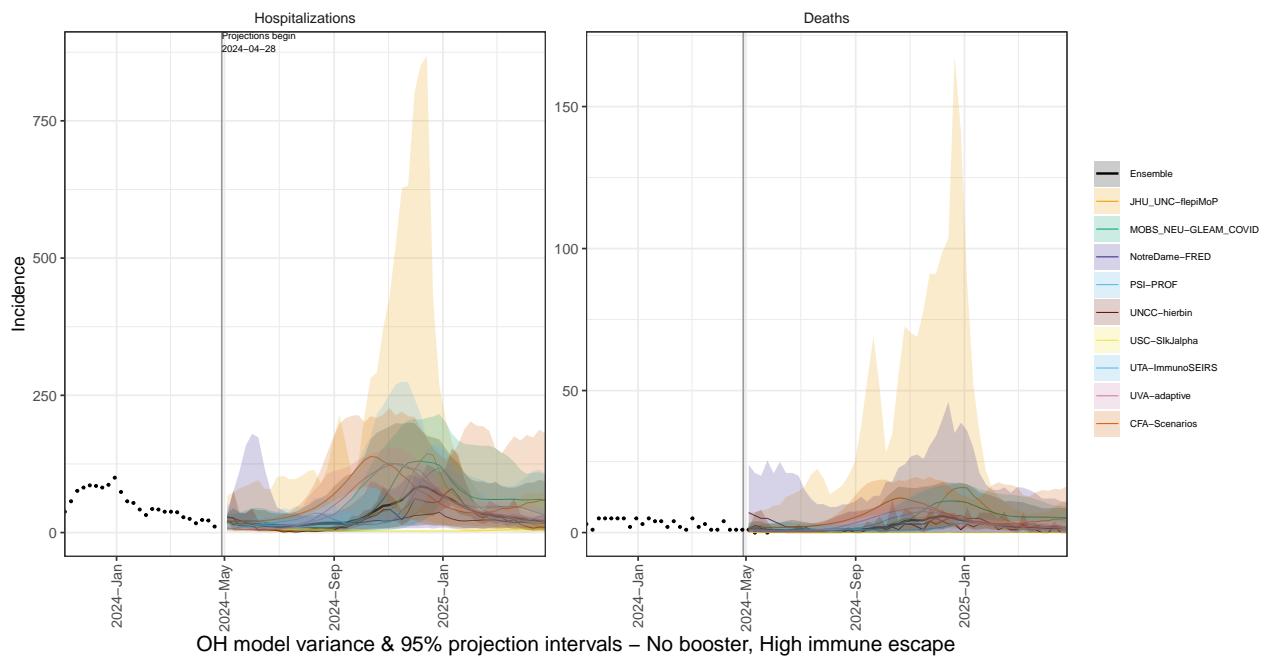
NY model variance & 95% projection intervals – No booster, High immune escape



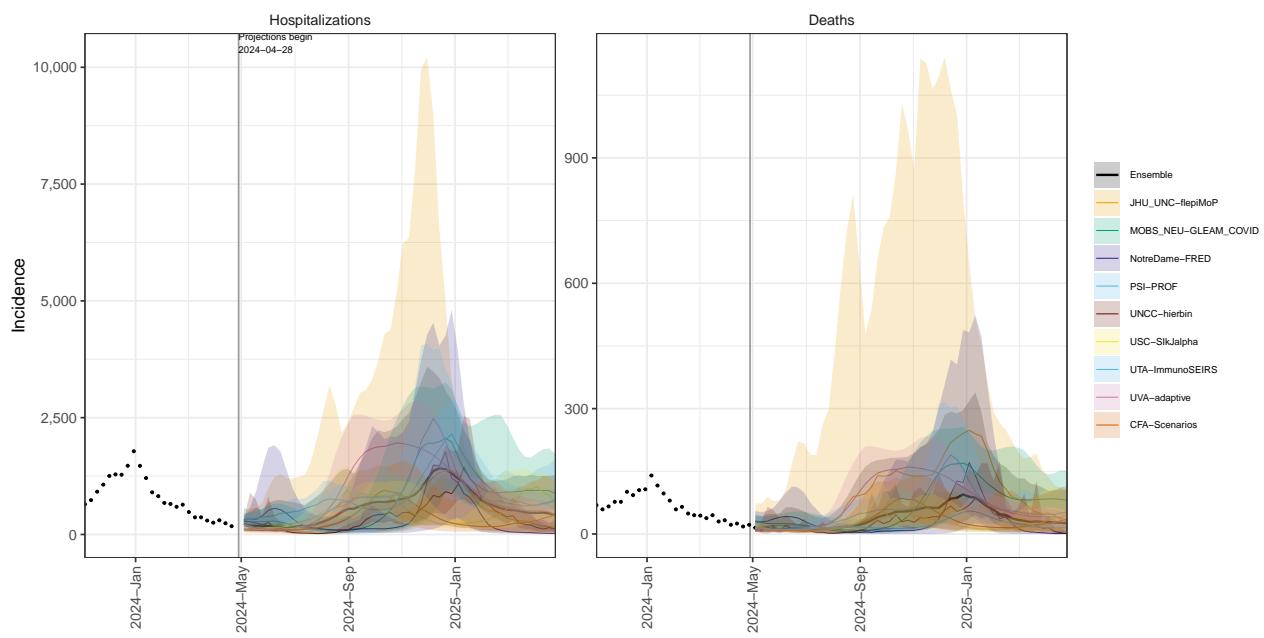
NC model variance & 95% projection intervals – No booster, High immune escape



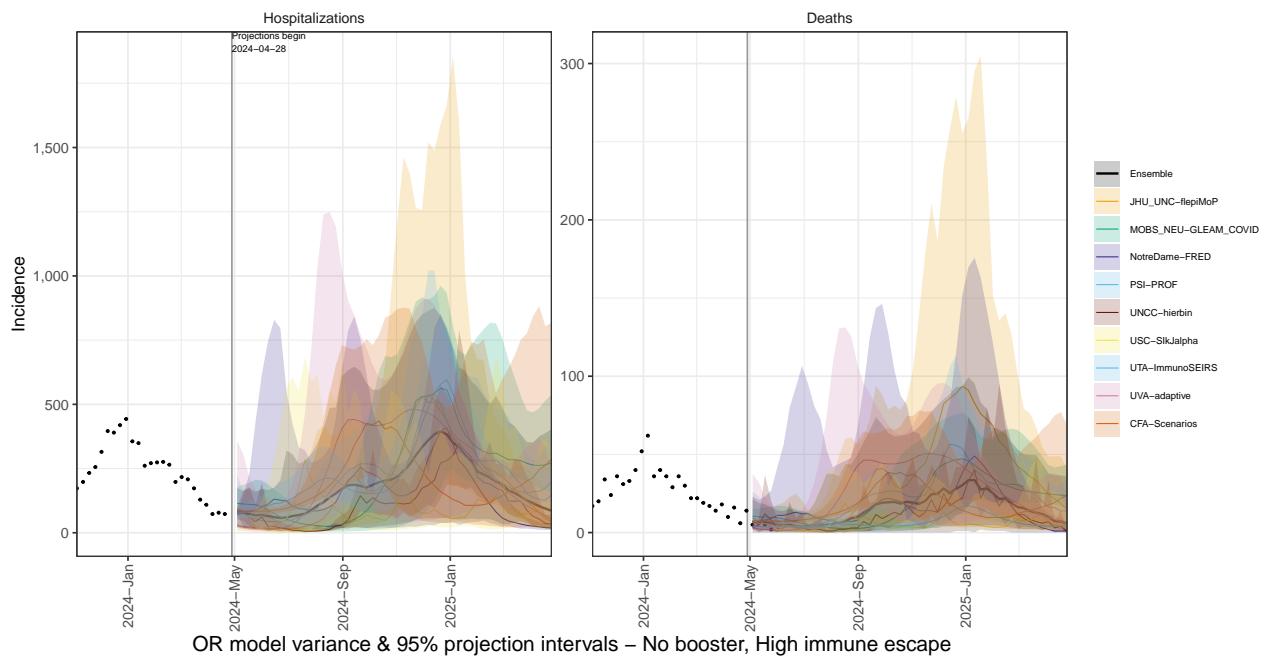
ND model variance & 95% projection intervals – No booster, High immune escape



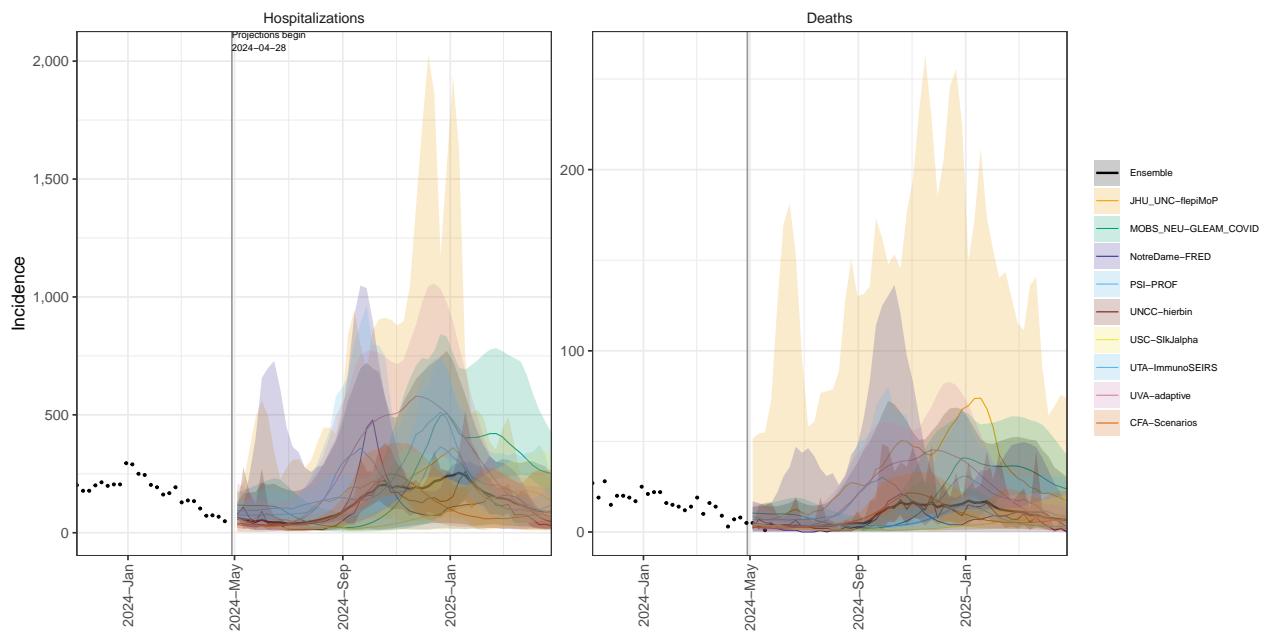
OH model variance & 95% projection intervals – No booster, High immune escape



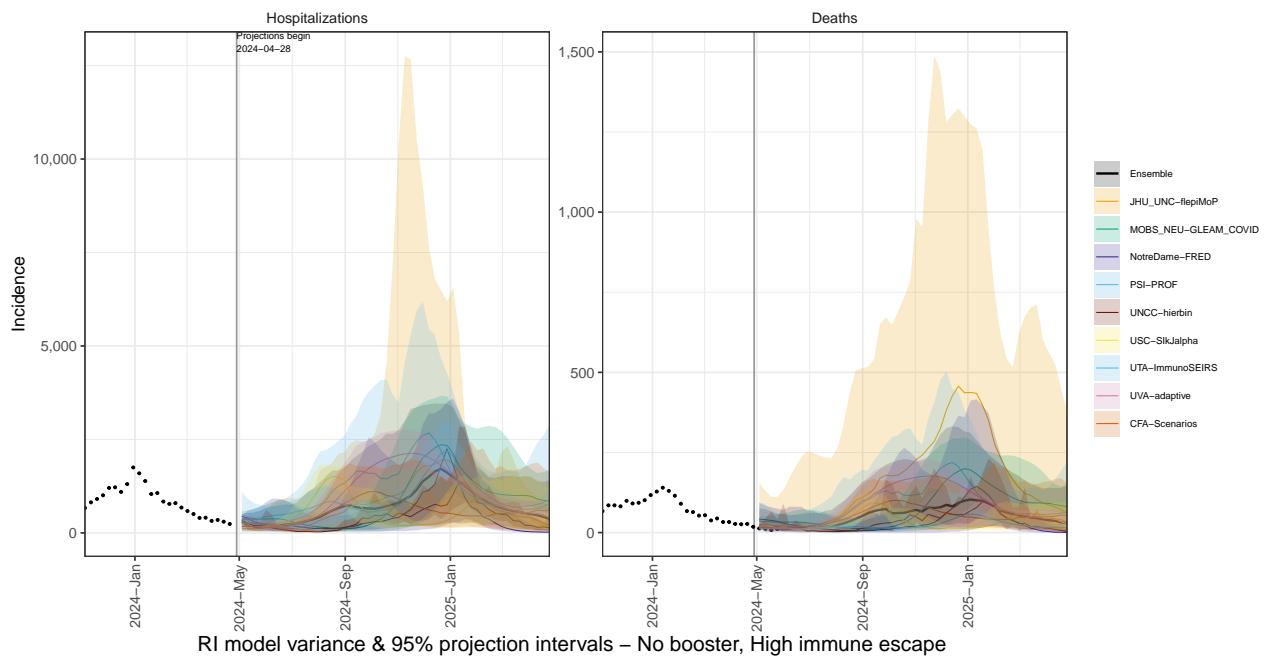
OK model variance & 95% projection intervals – No booster, High immune escape



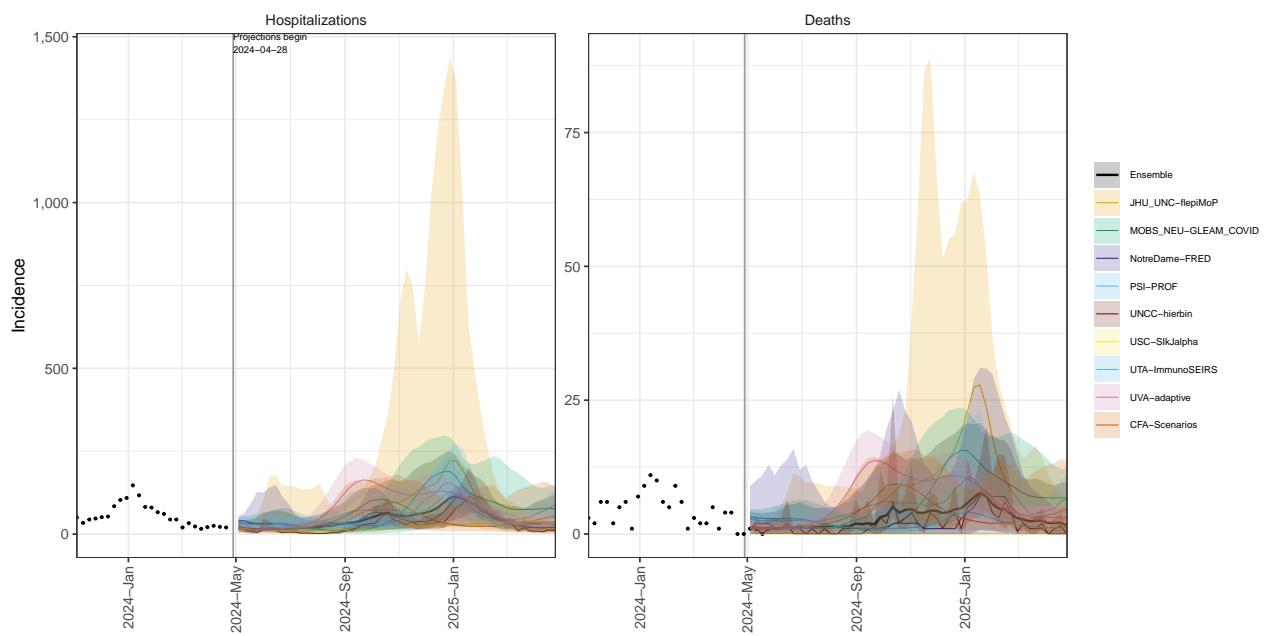
OR model variance & 95% projection intervals – No booster, High immune escape



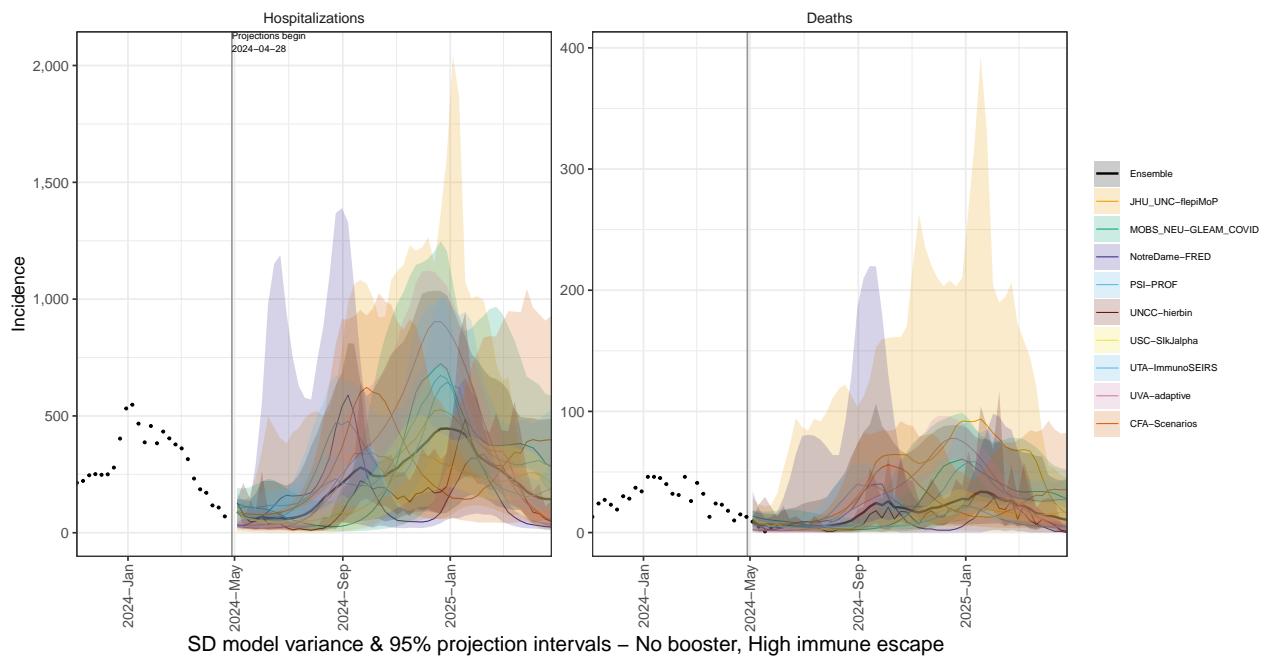
PA model variance & 95% projection intervals – No booster, High immune escape



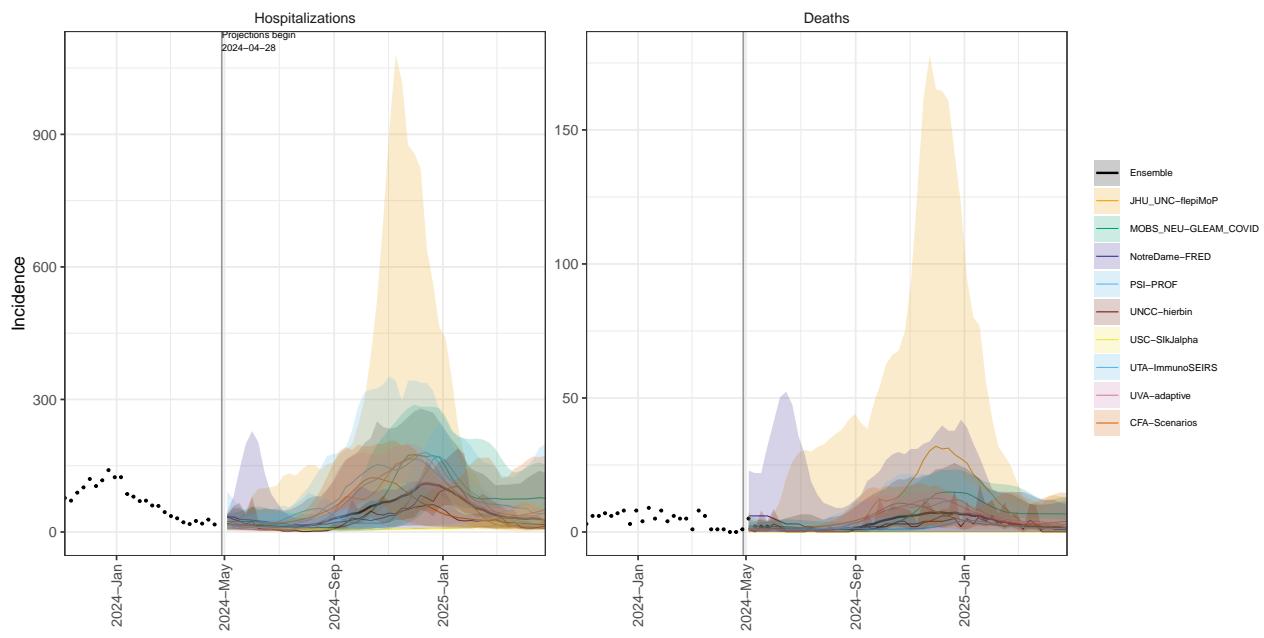
RI model variance & 95% projection intervals – No booster, High immune escape



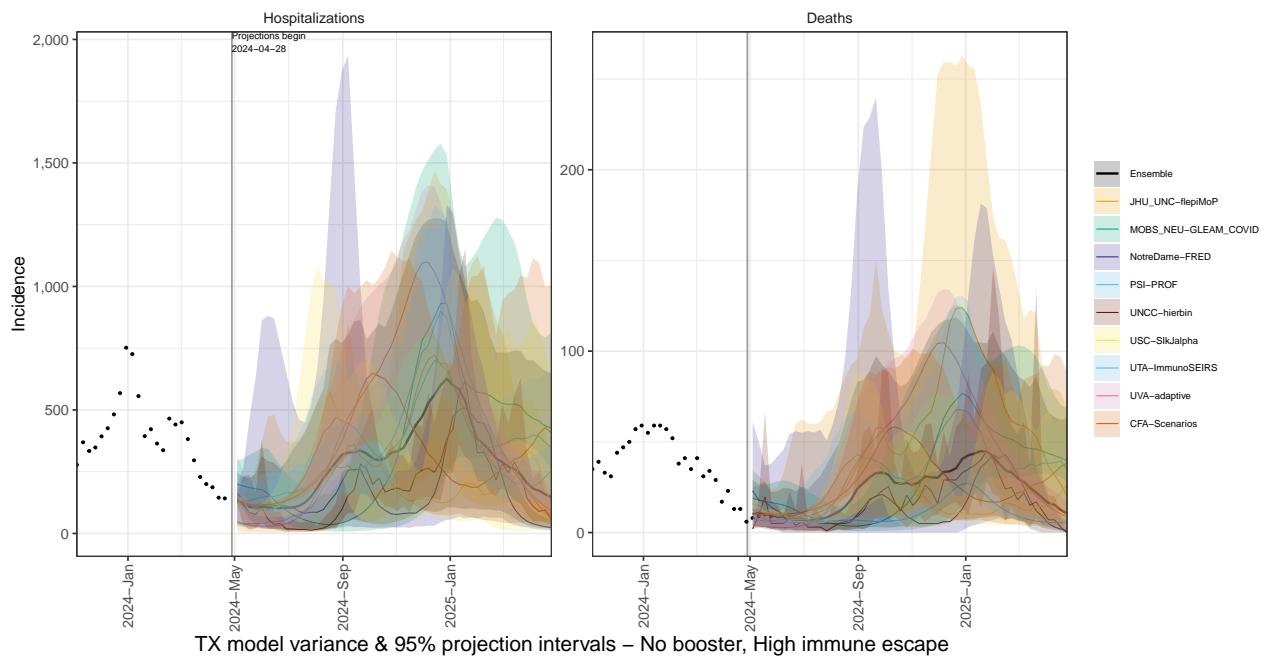
SC model variance & 95% projection intervals – No booster, High immune escape



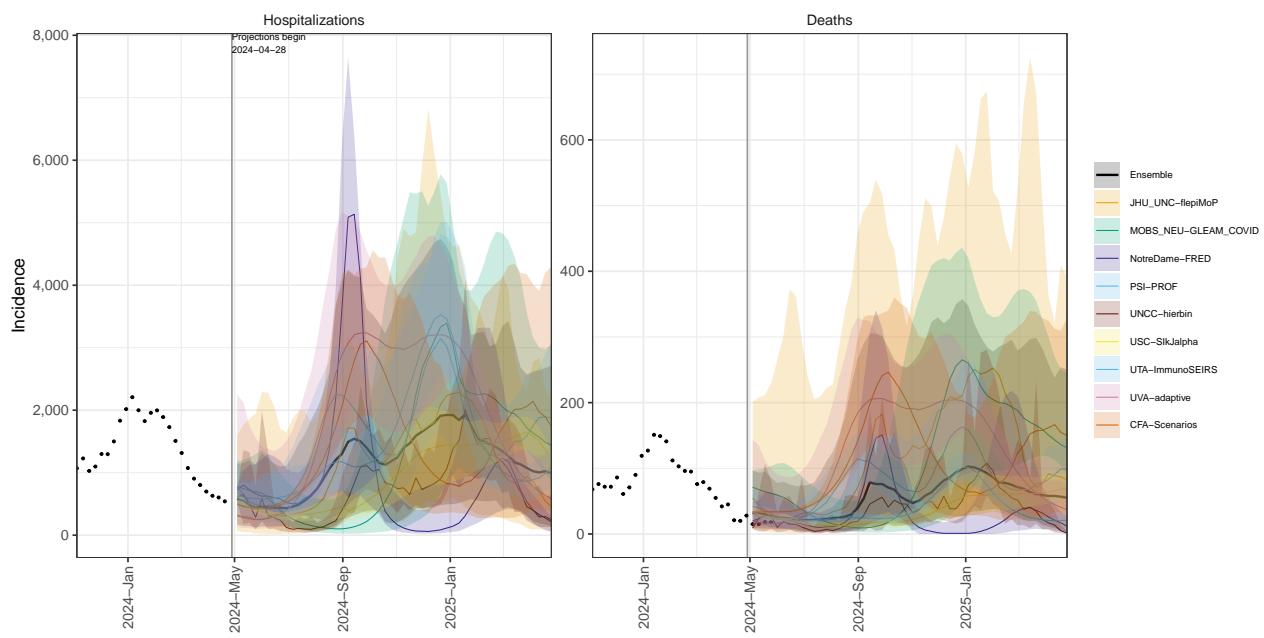
SD model variance & 95% projection intervals – No booster, High immune escape



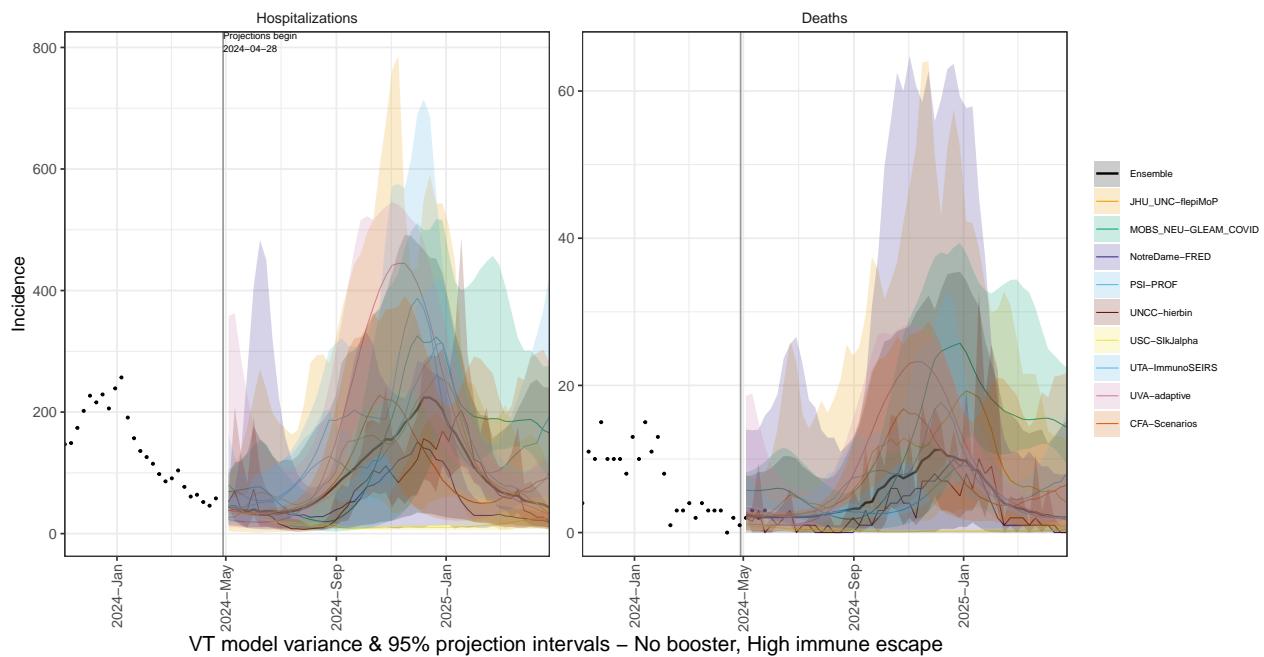
TN model variance & 95% projection intervals – No booster, High immune escape



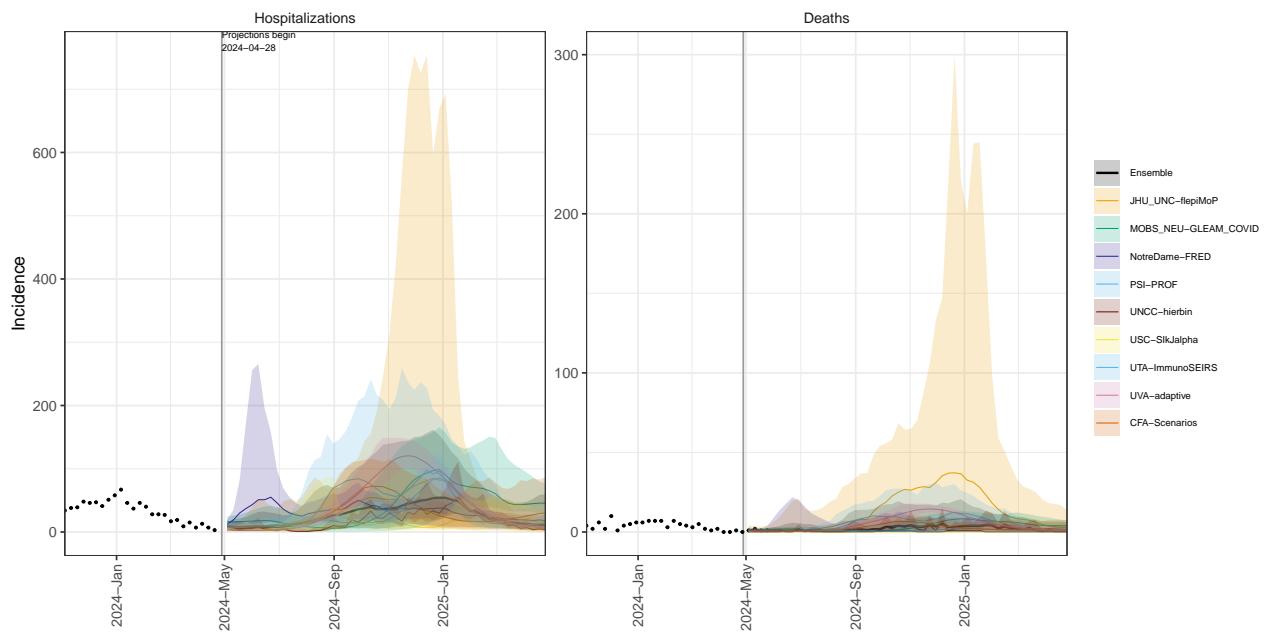
TX model variance & 95% projection intervals – No booster, High immune escape



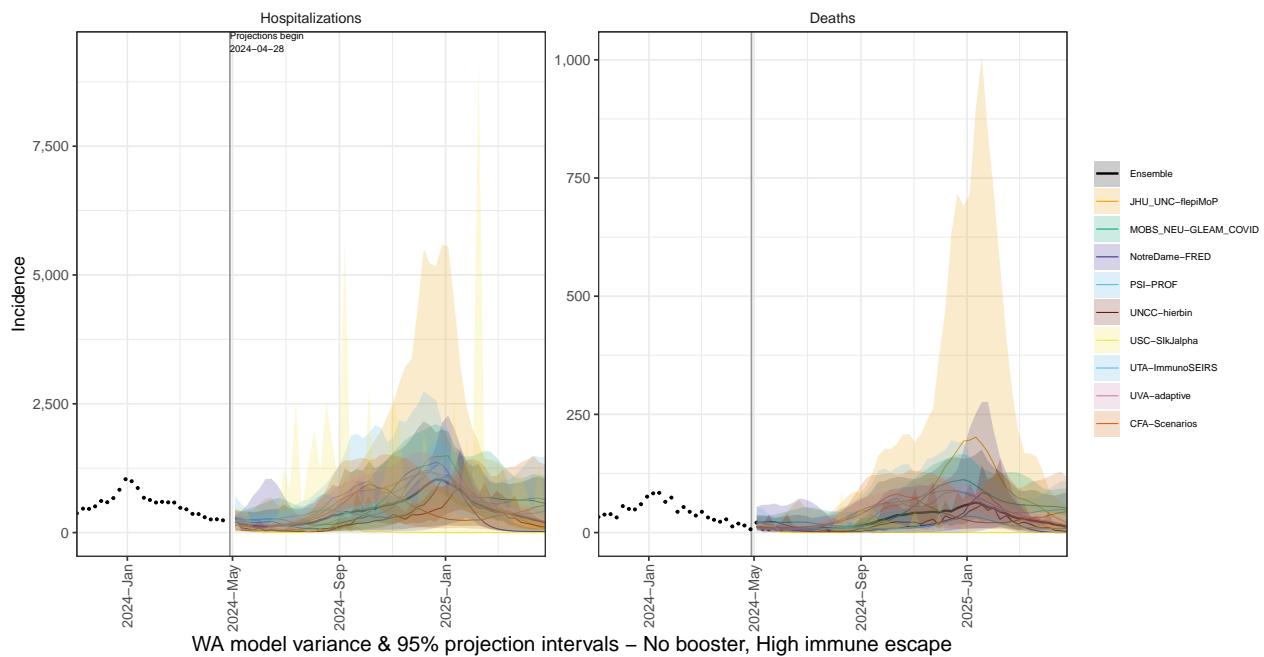
UT model variance & 95% projection intervals – No booster, High immune escape



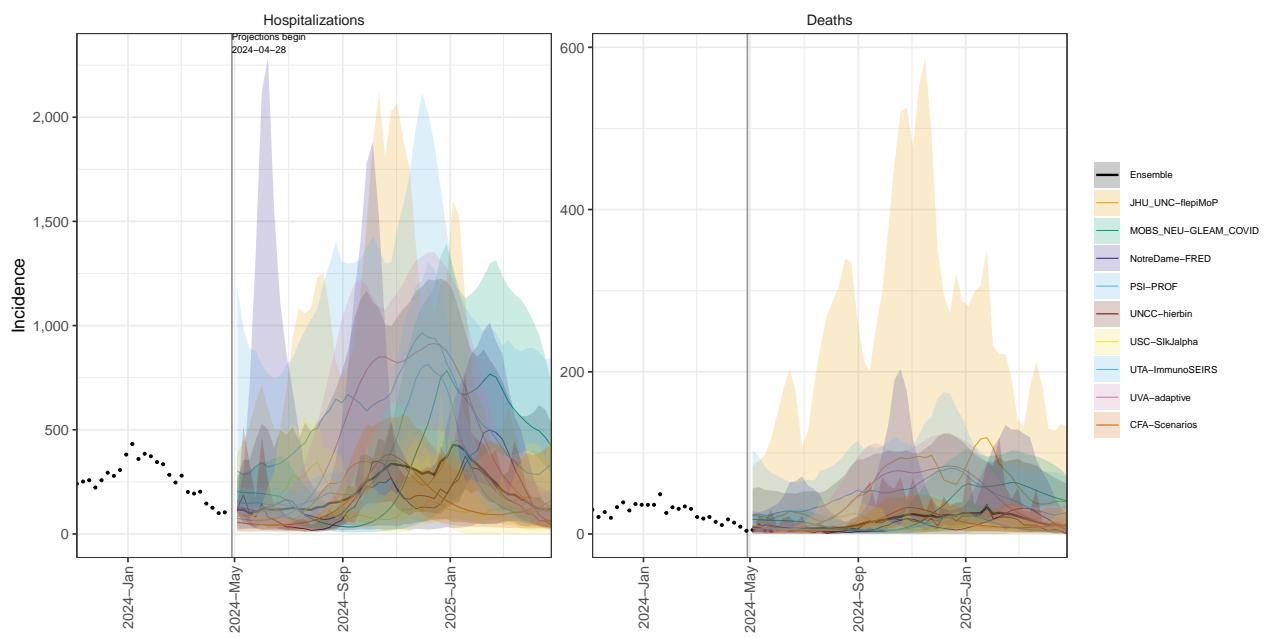
VT model variance & 95% projection intervals – No booster, High immune escape



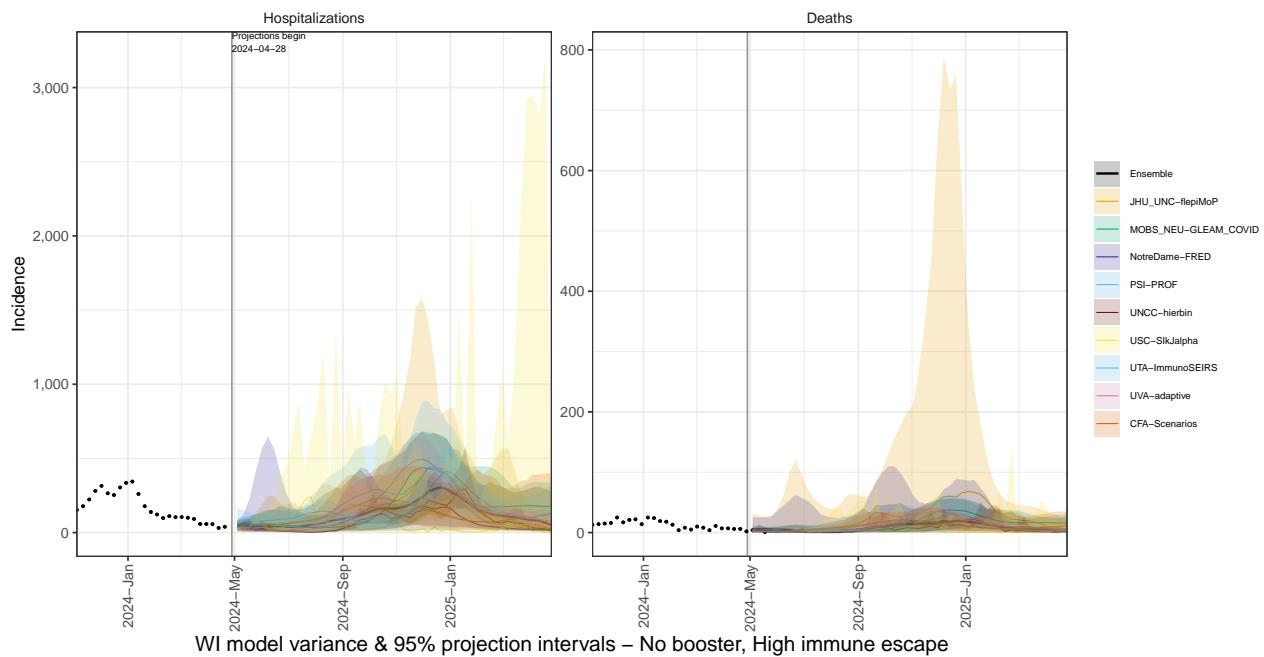
VA model variance & 95% projection intervals – No booster, High immune escape



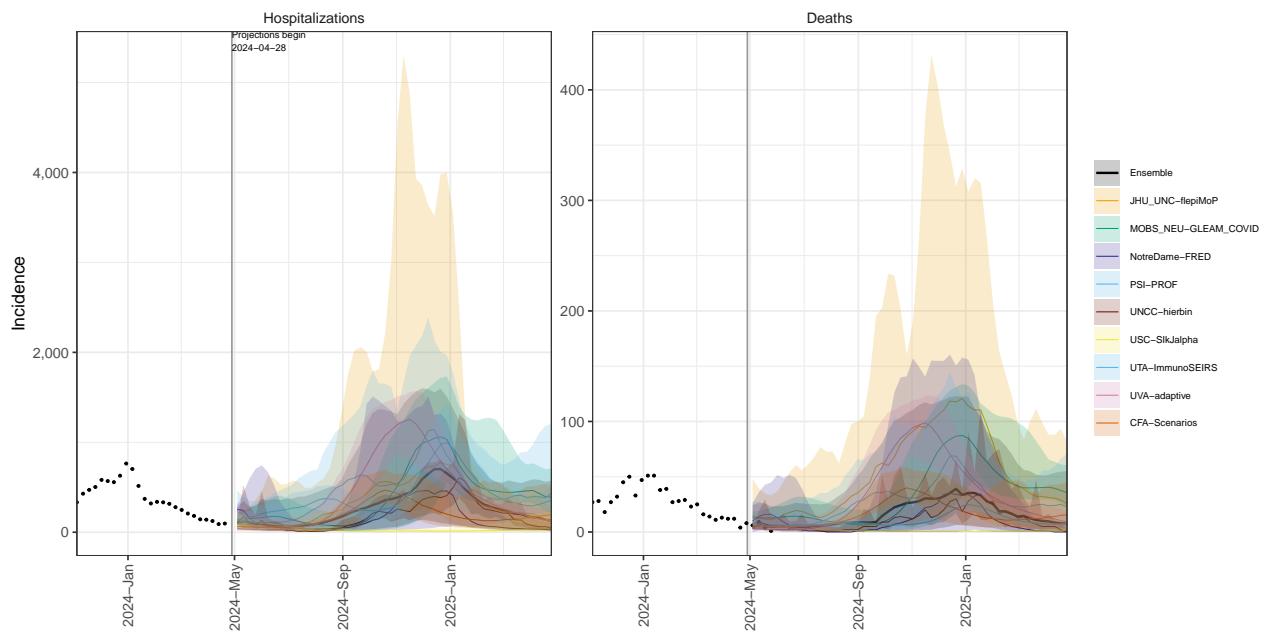
WA model variance & 95% projection intervals – No booster, High immune escape



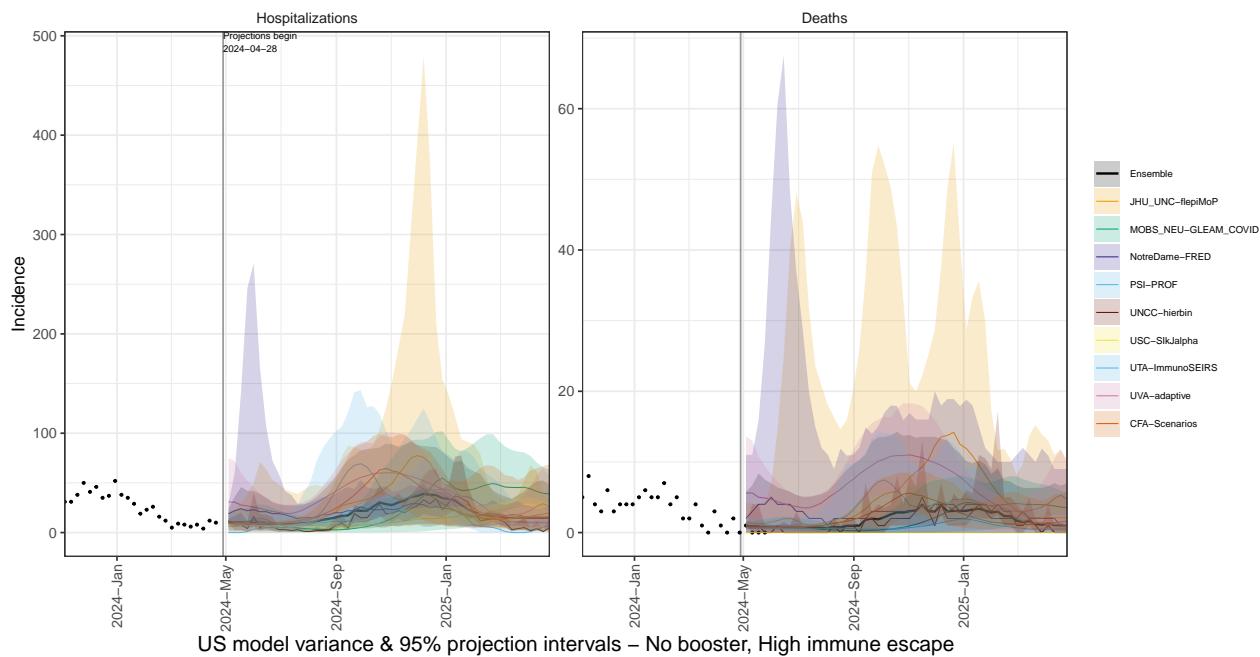
WV model variance & 95% projection intervals – No booster, High immune escape



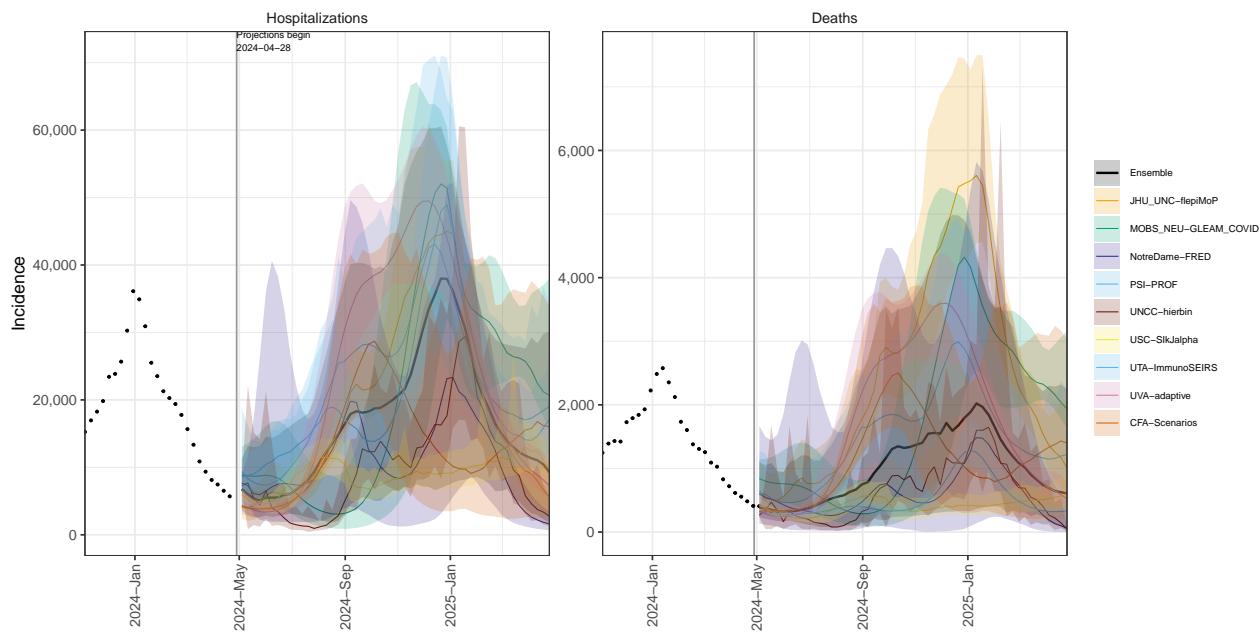
WI model variance & 95% projection intervals – No booster, High immune escape



WY model variance & 95% projection intervals – No booster, High immune escape

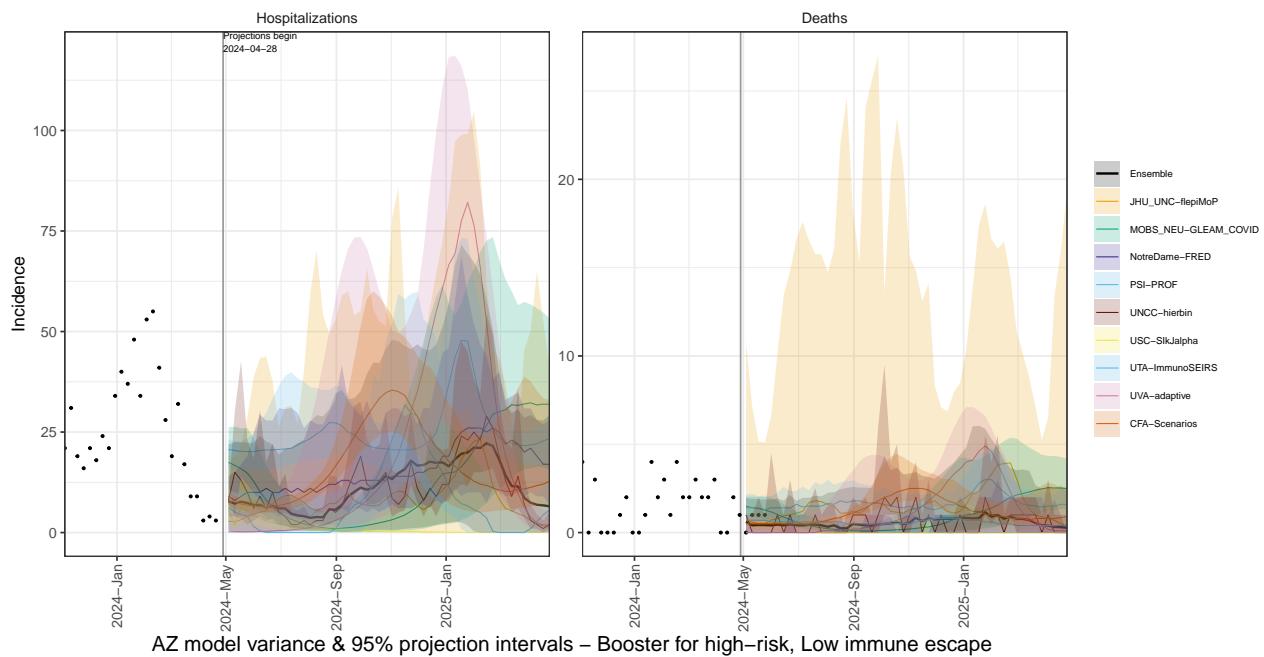


US model variance & 95% projection intervals – No booster, High immune escape

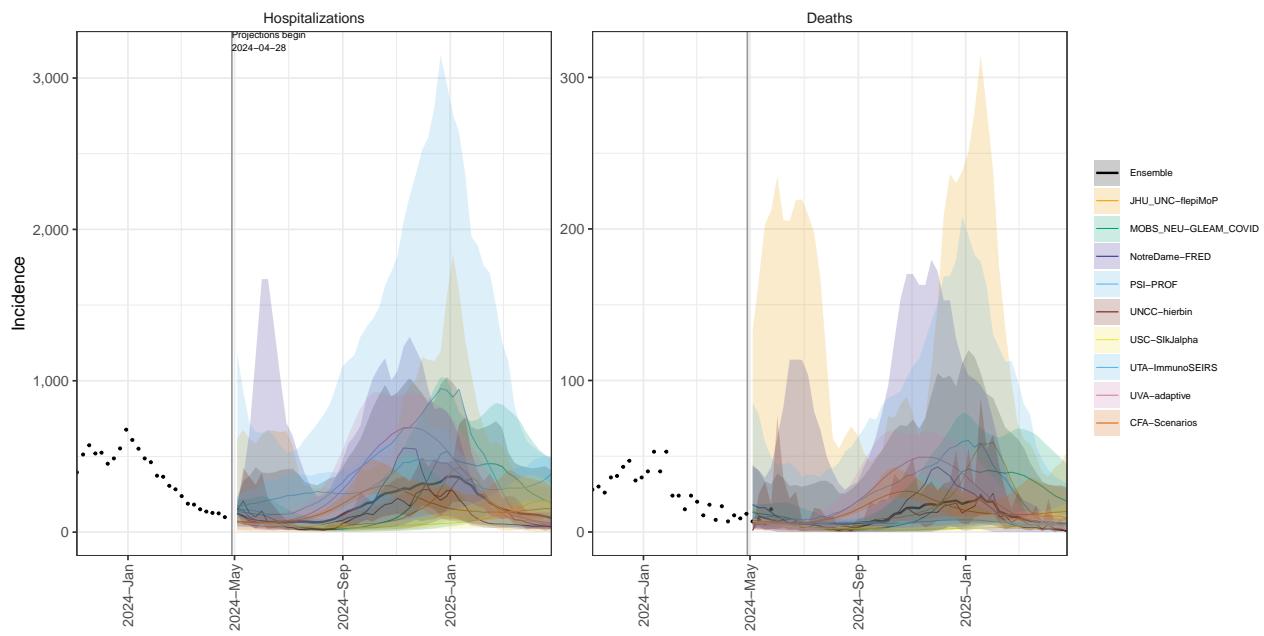


Model variation for the Booster for high-risk, Low immune escape scenario.

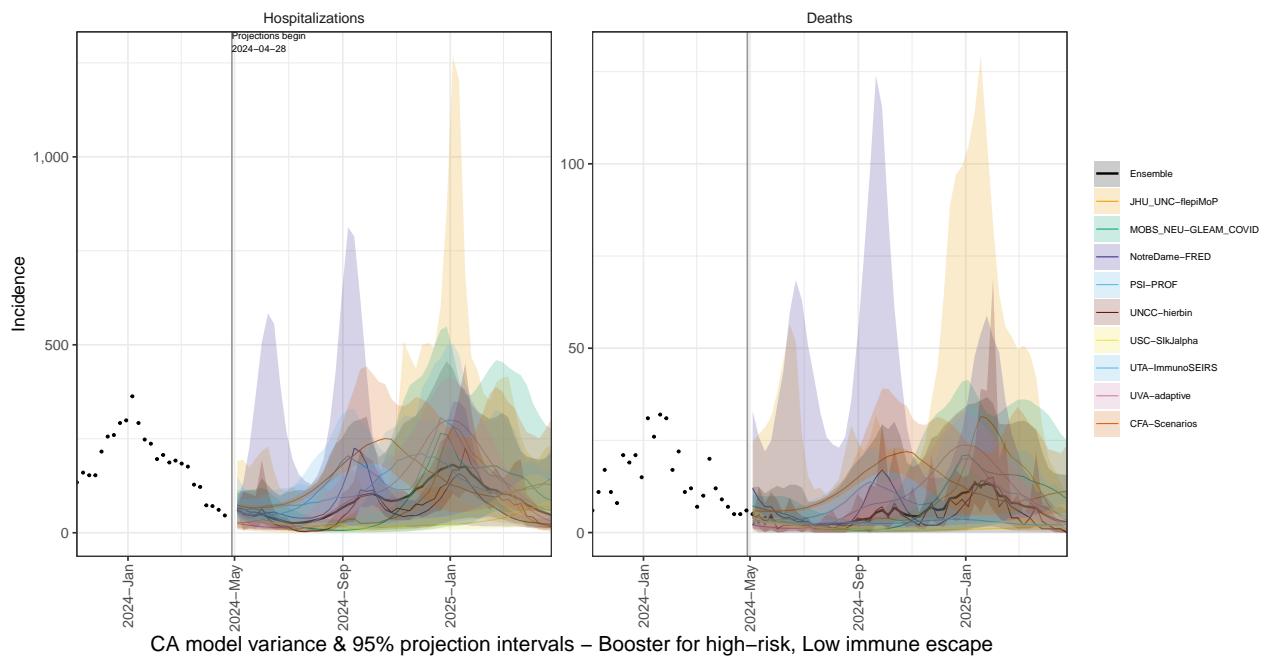
AK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



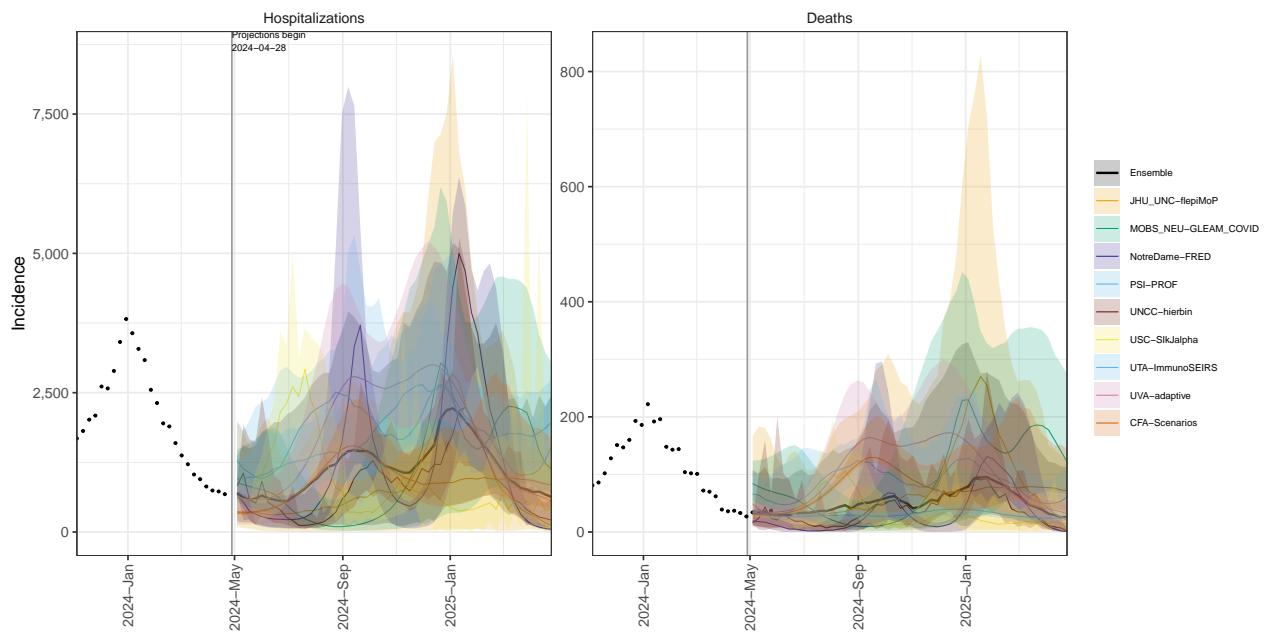
AZ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



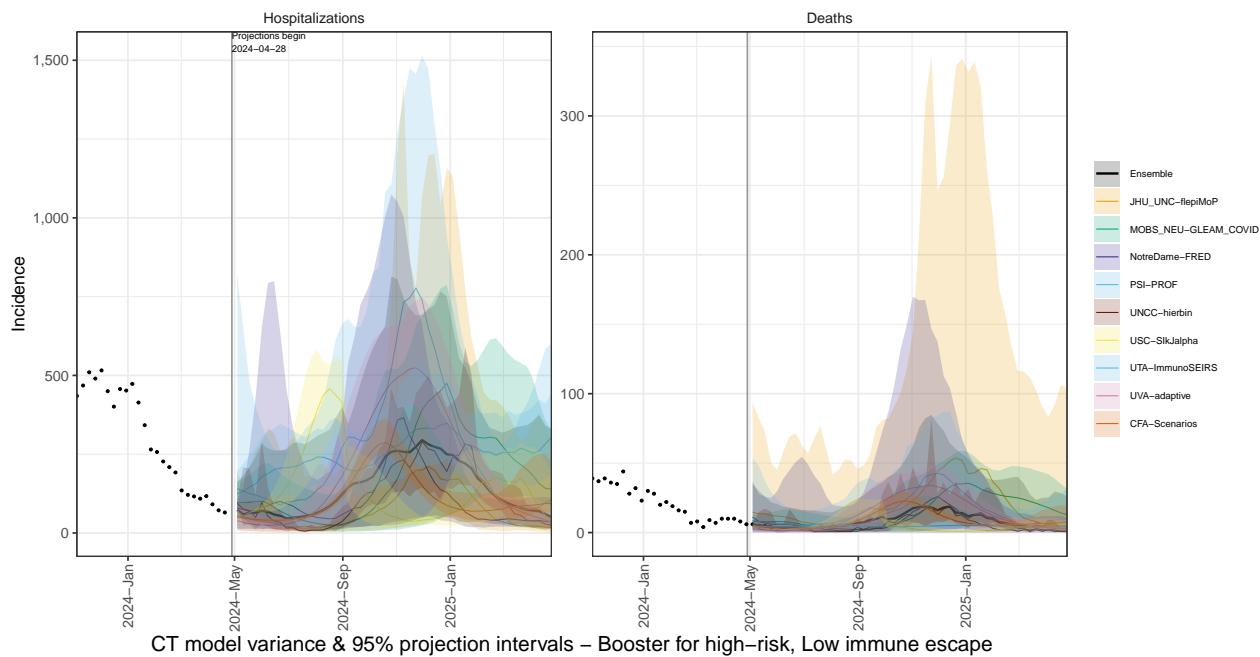
AR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



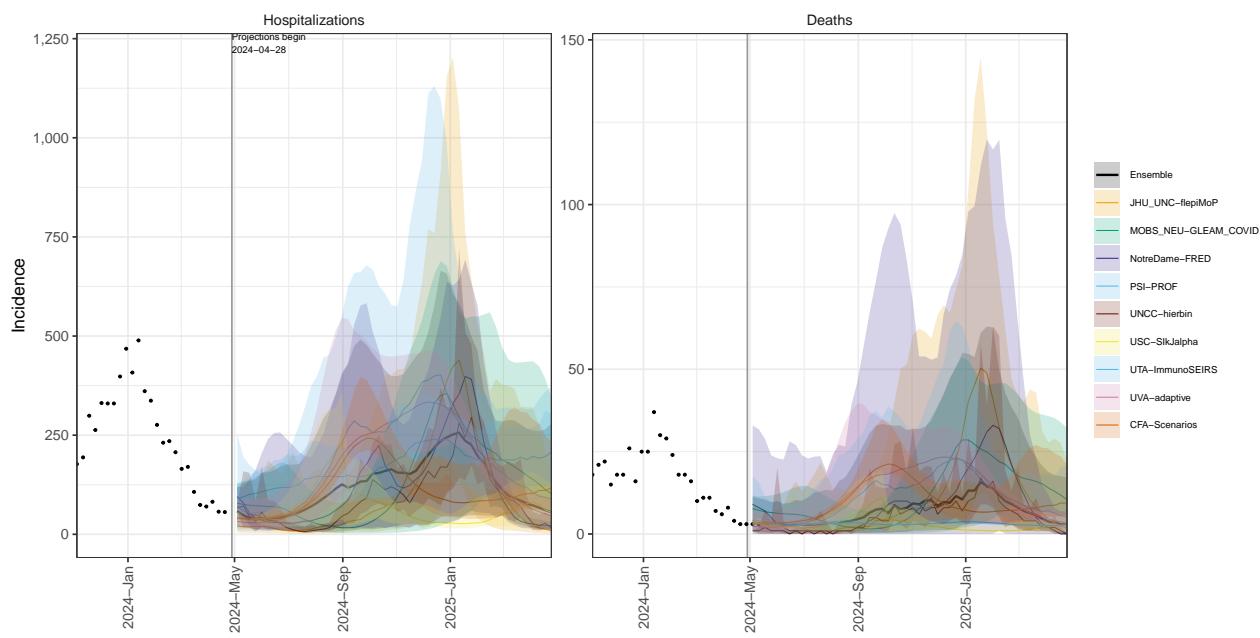
CA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



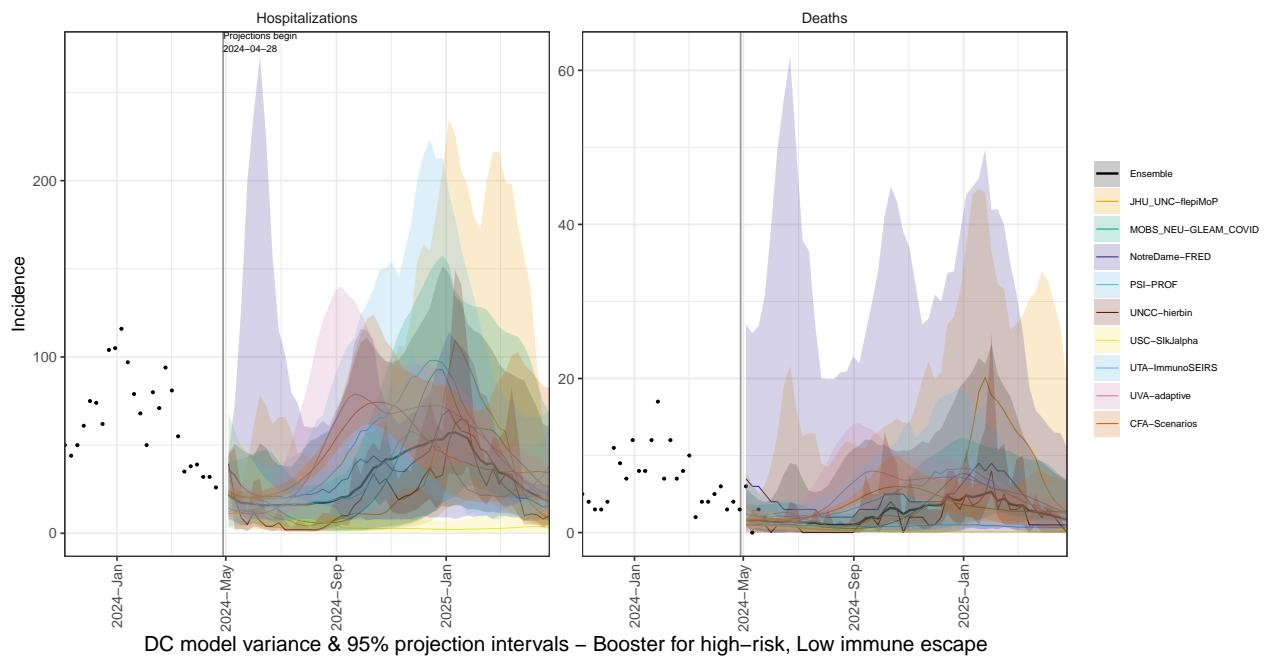
CO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



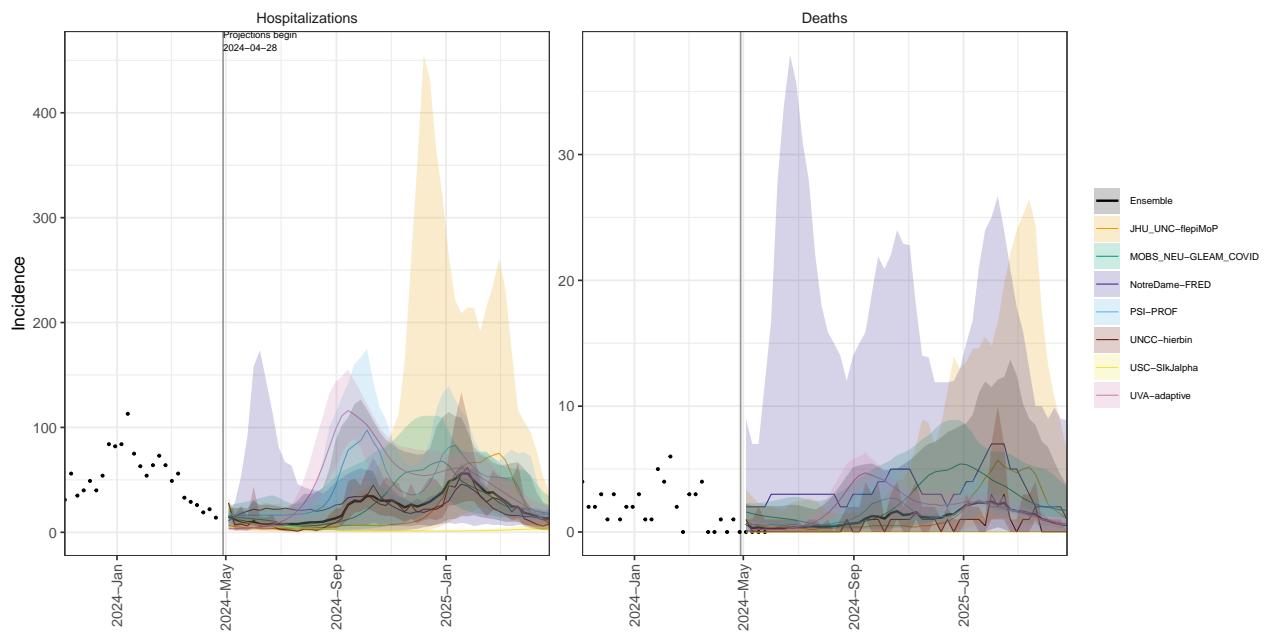
CT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



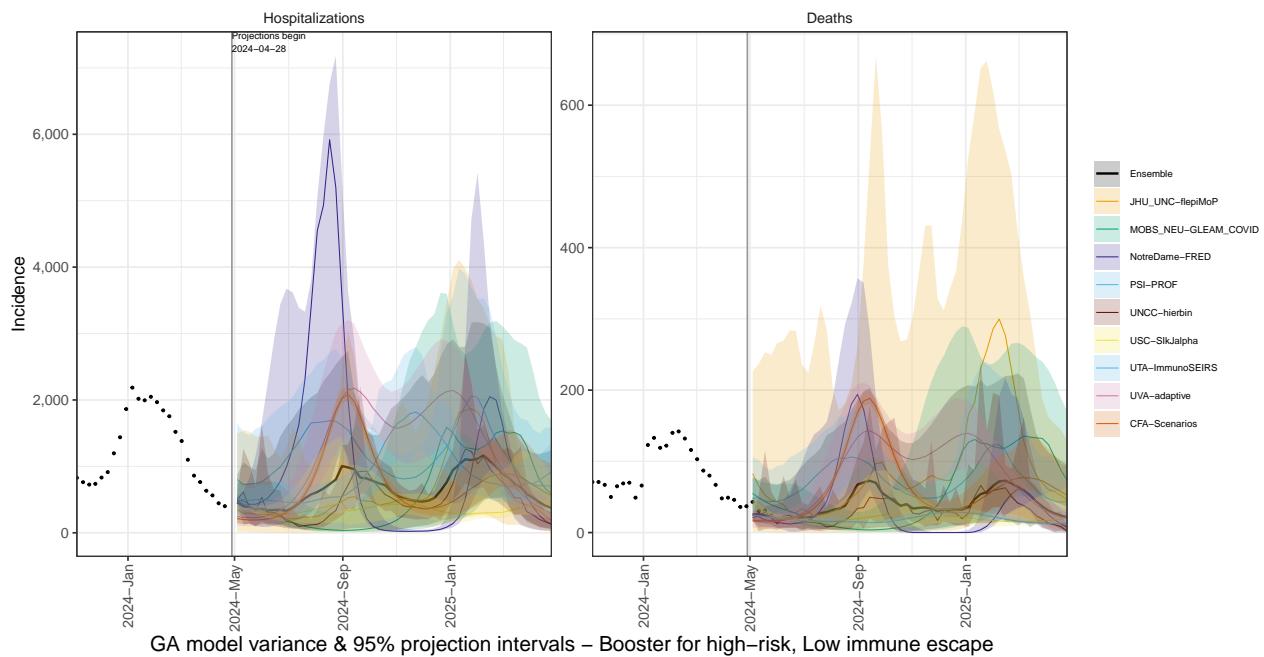
DE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



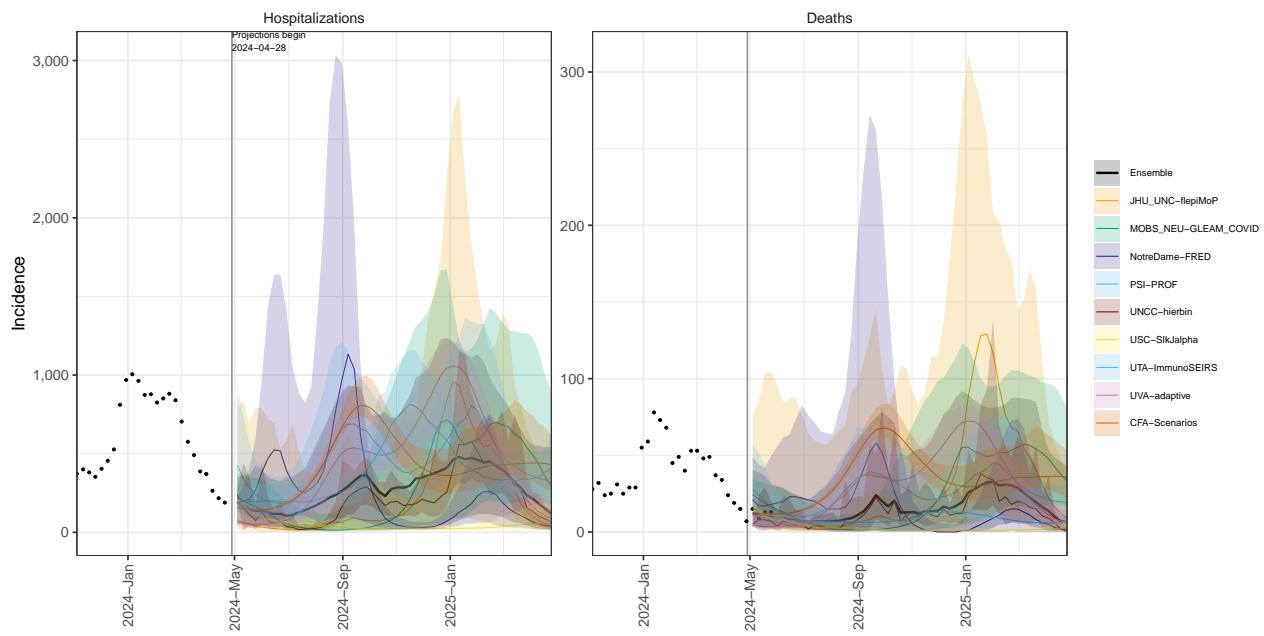
DC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



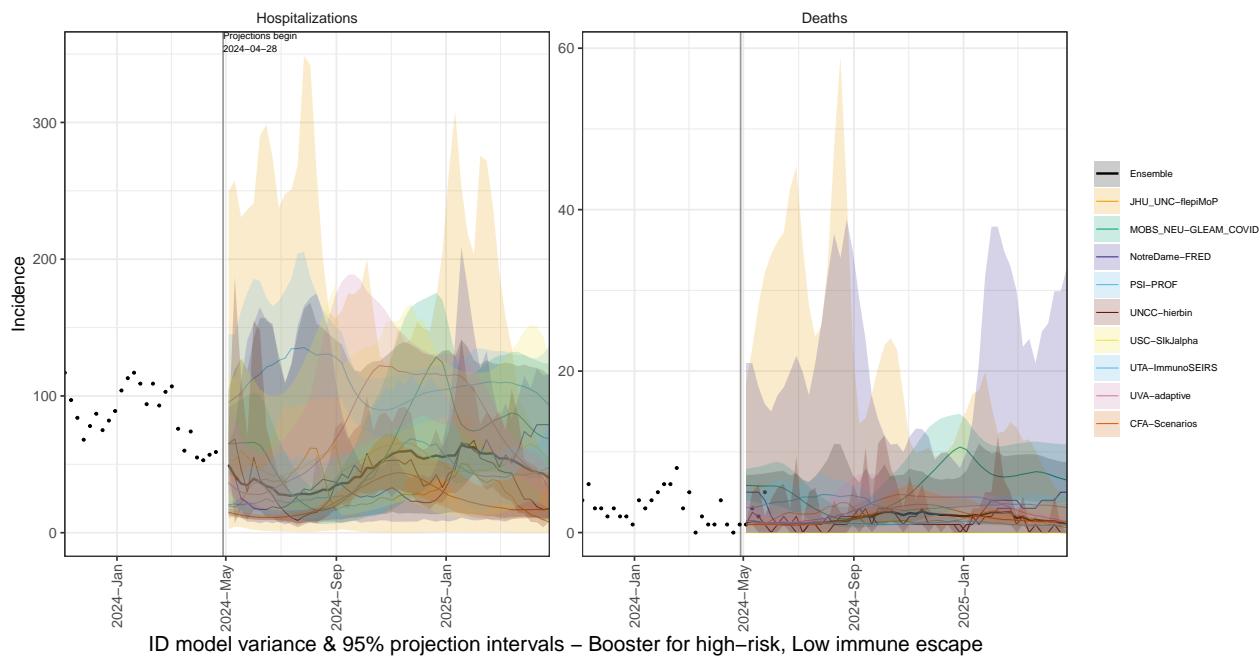
FL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



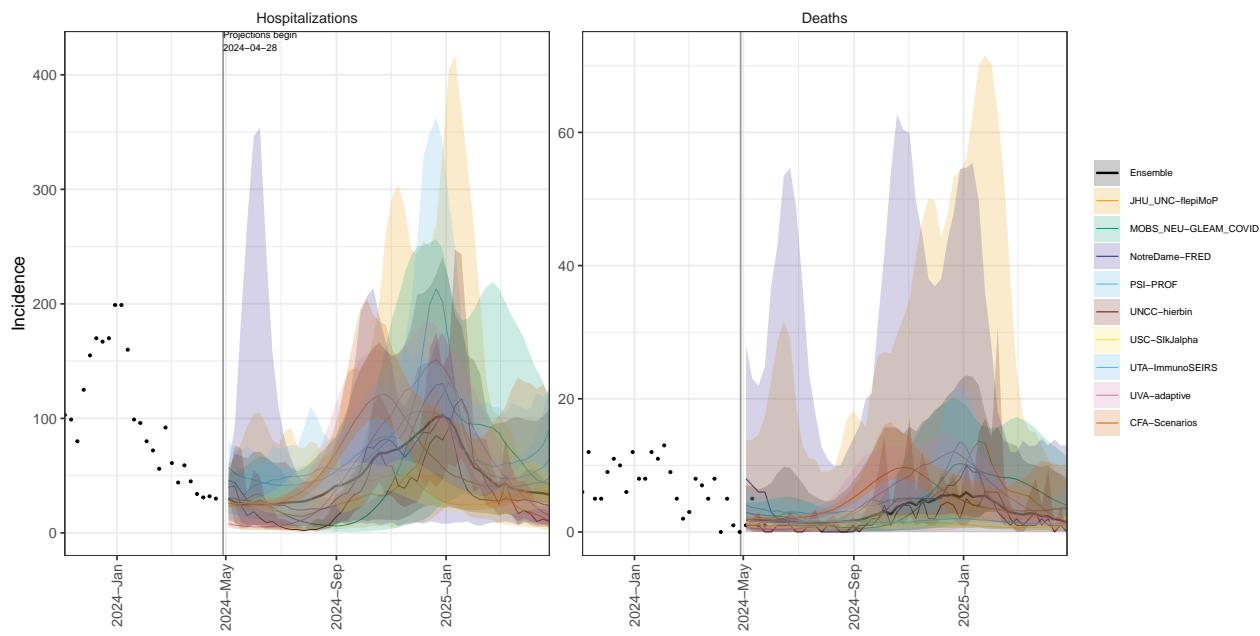
GA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



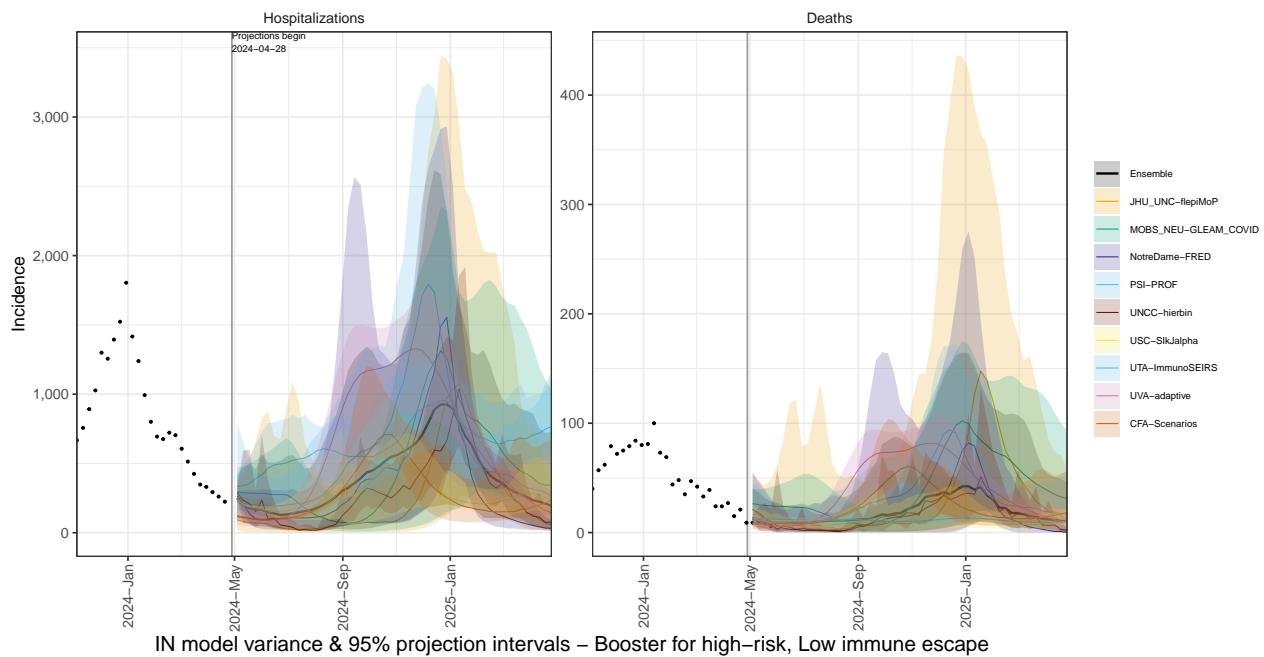
HI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



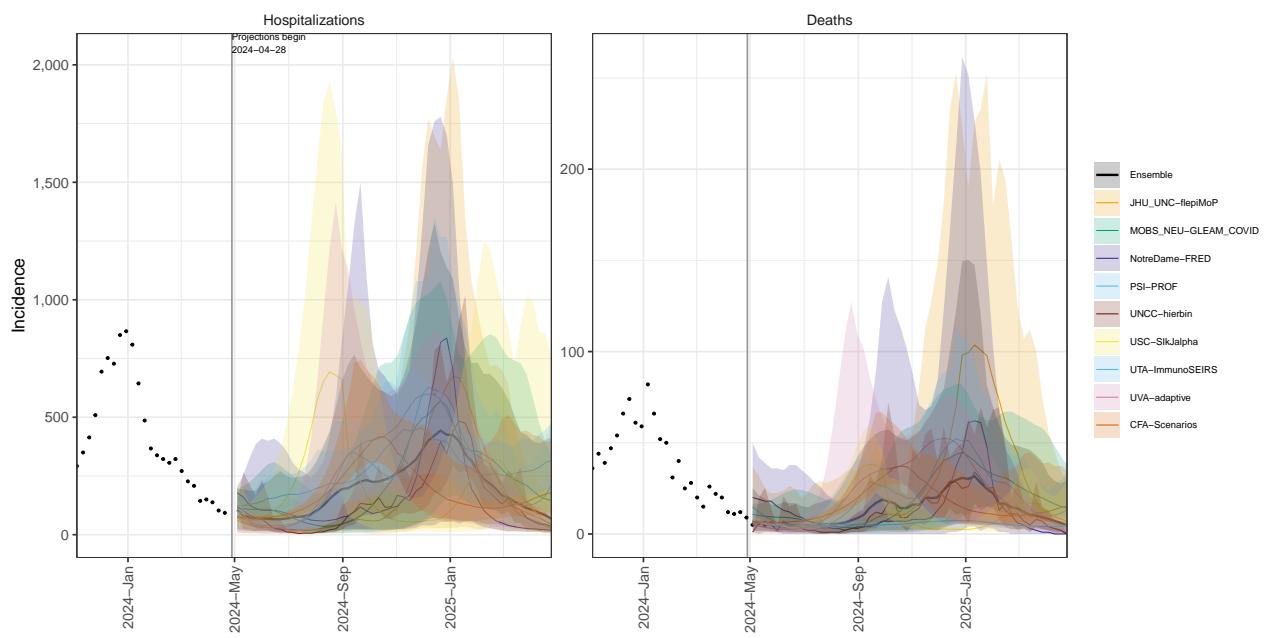
ID model variance & 95% projection intervals – Booster for high-risk, Low immune escape



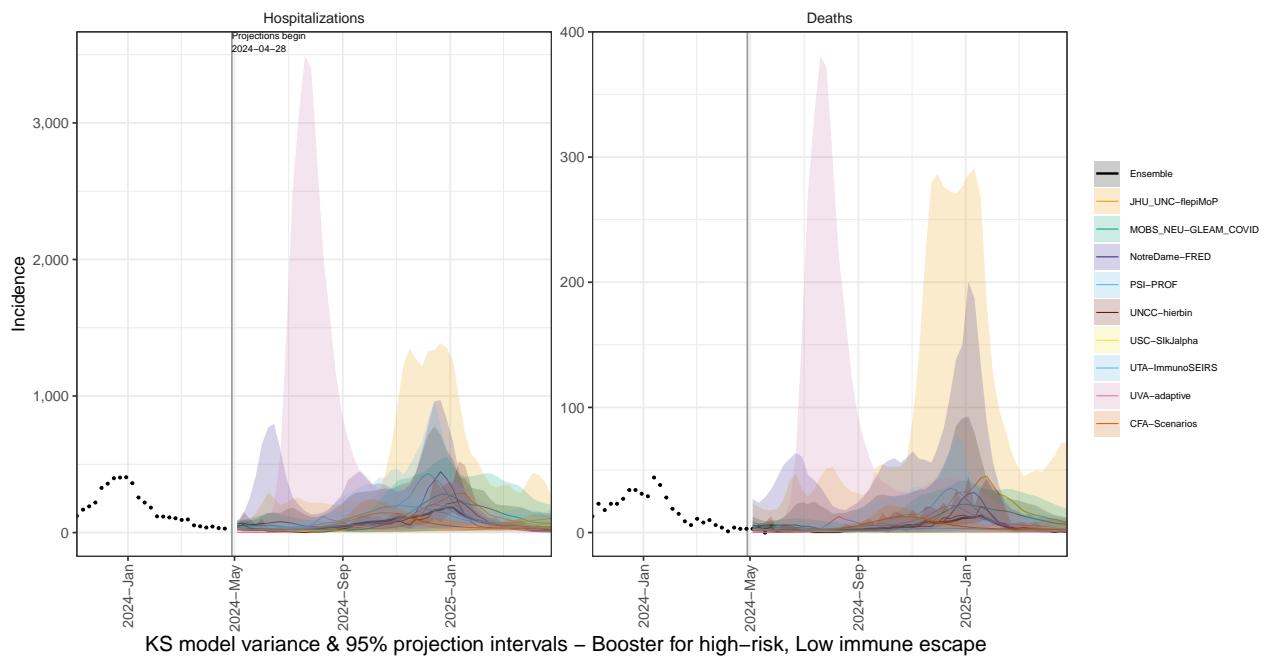
IL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



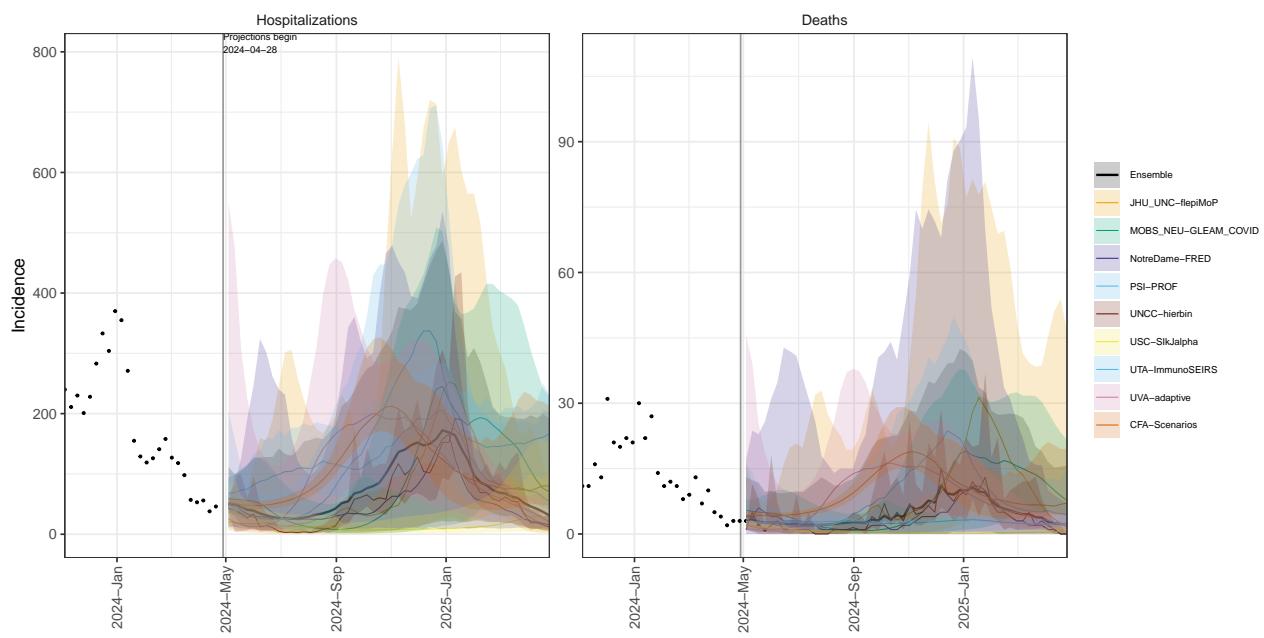
IN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



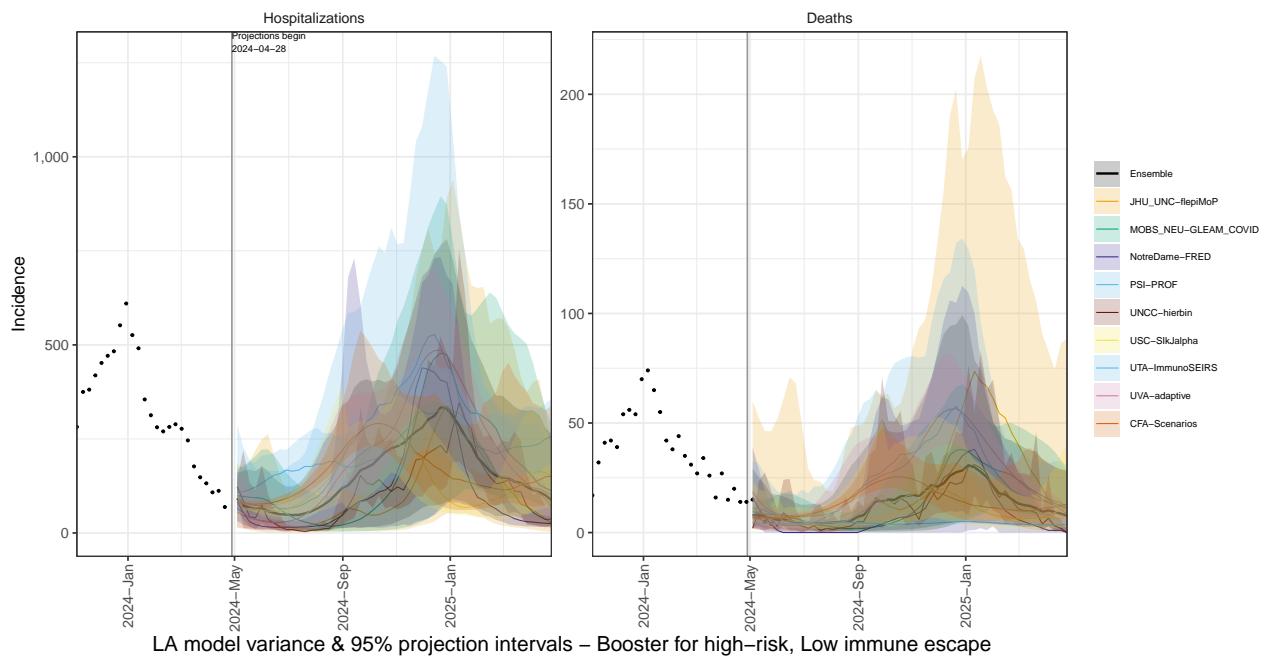
IA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



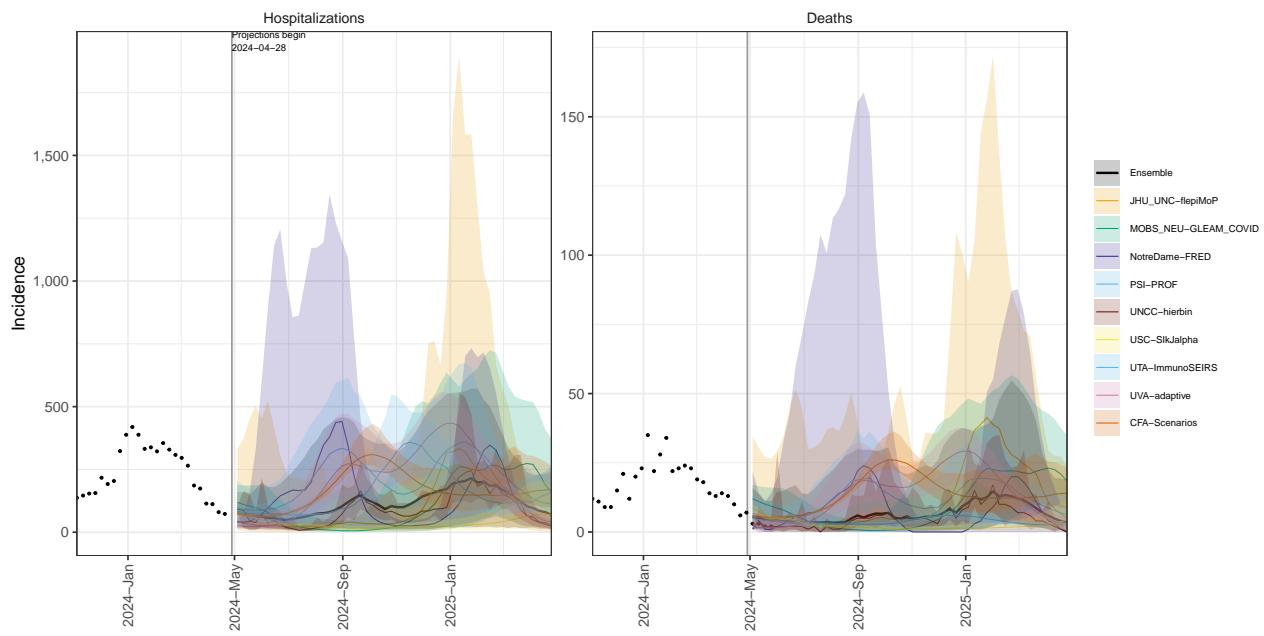
KS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



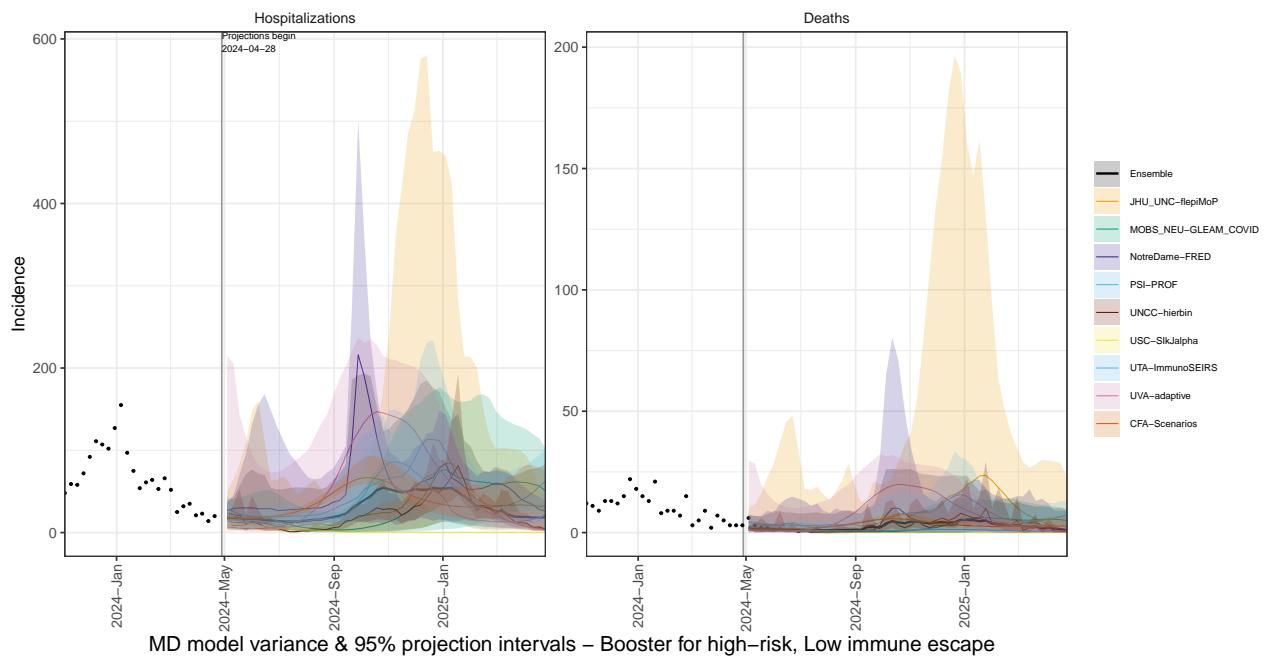
KY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



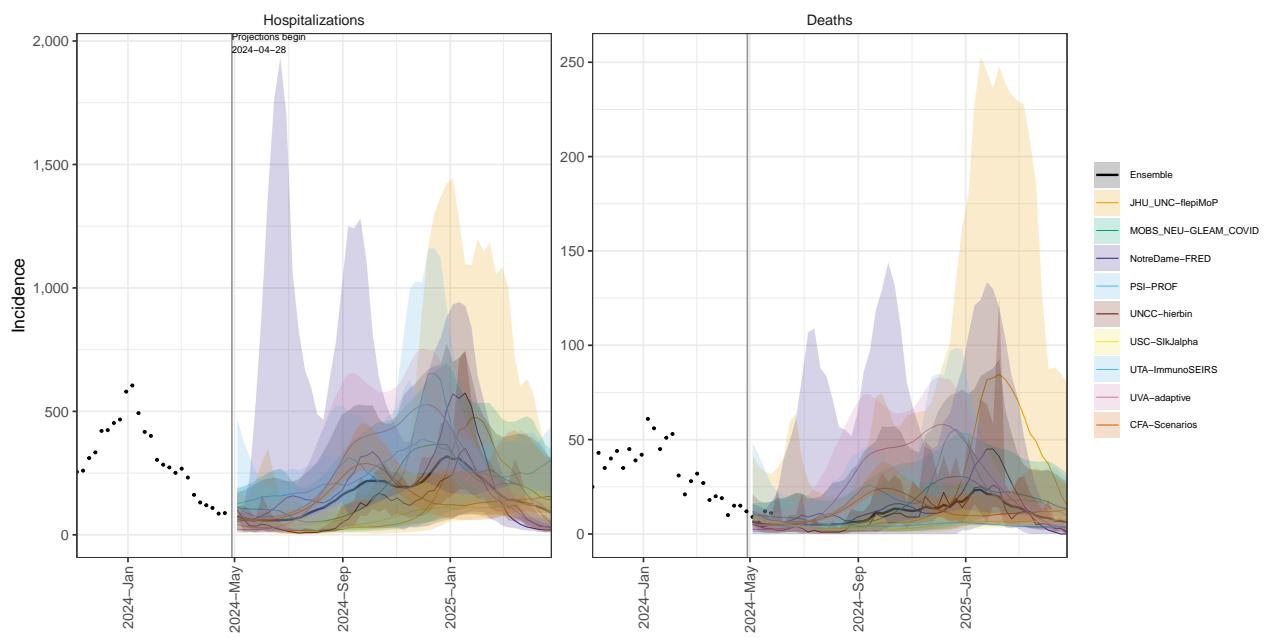
LA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



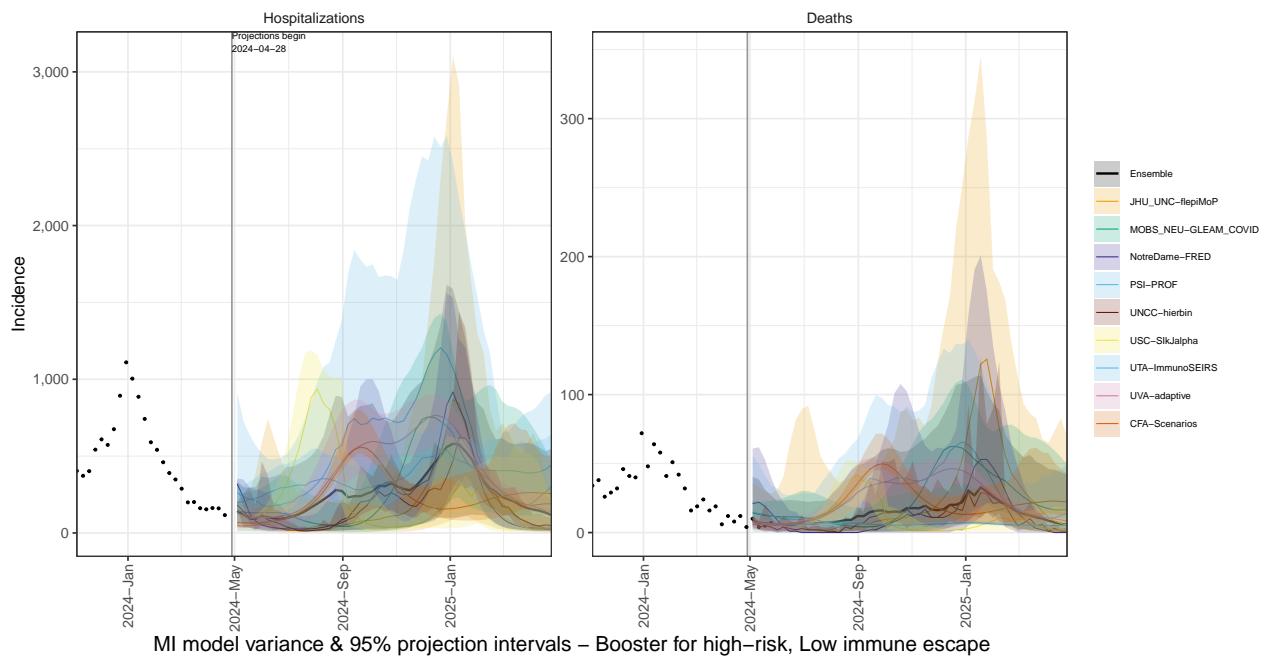
ME model variance & 95% projection intervals – Booster for high-risk, Low immune escape



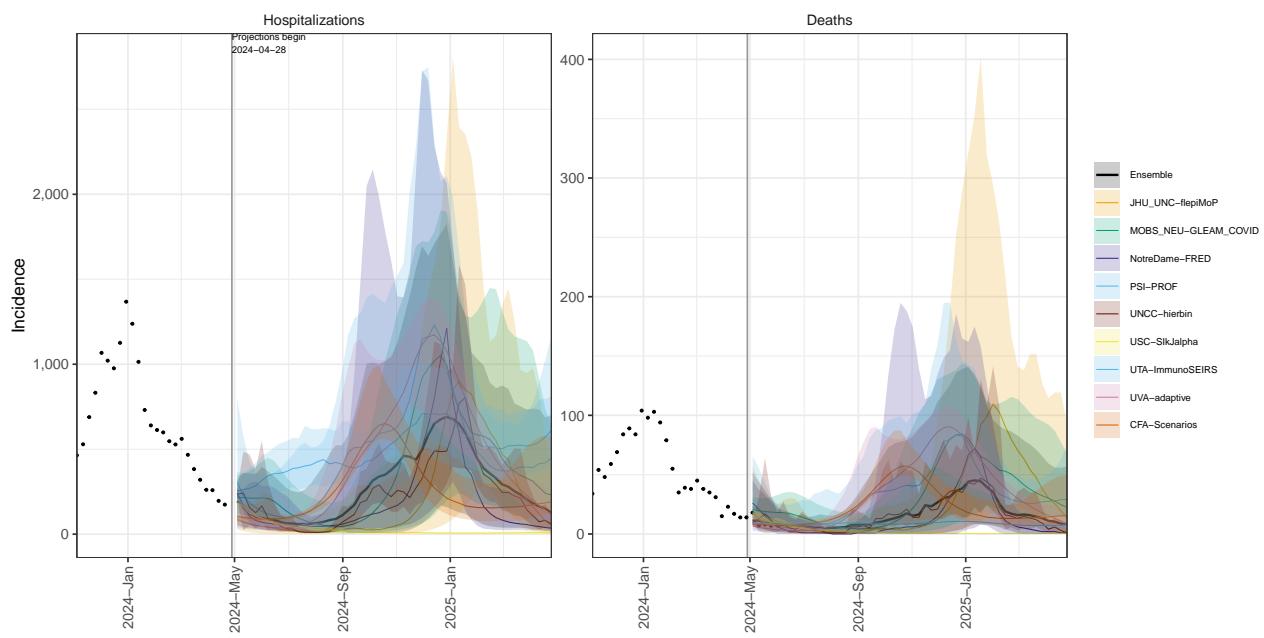
MD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



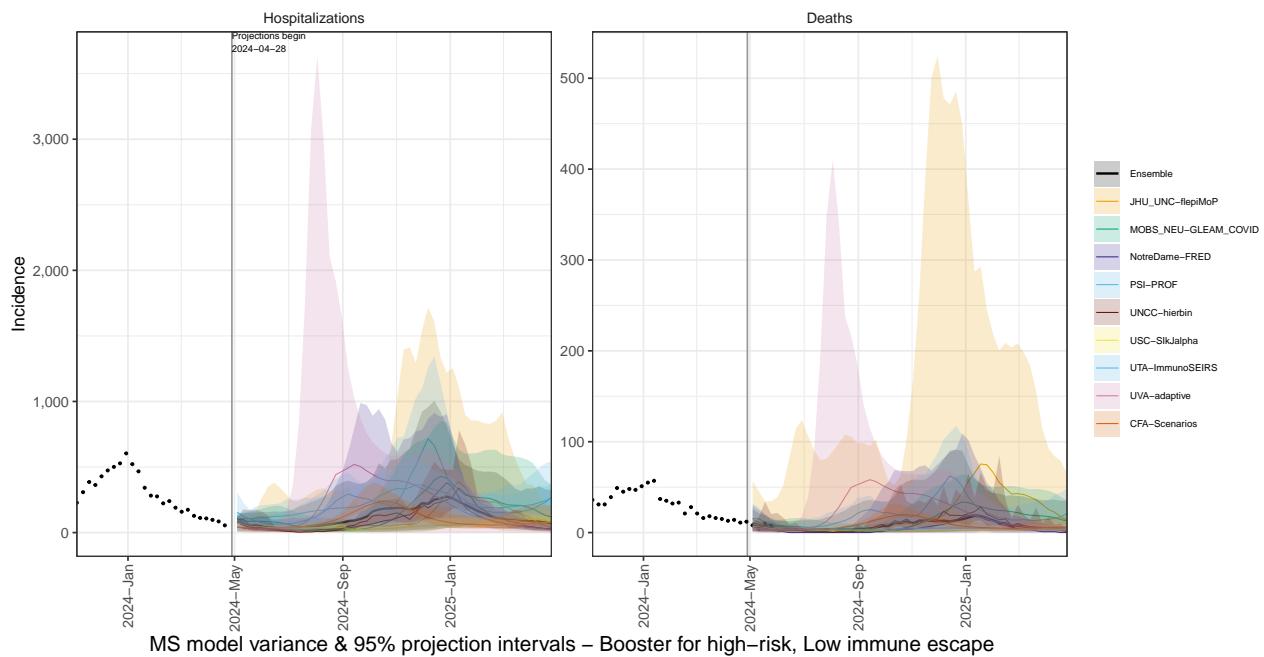
MA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



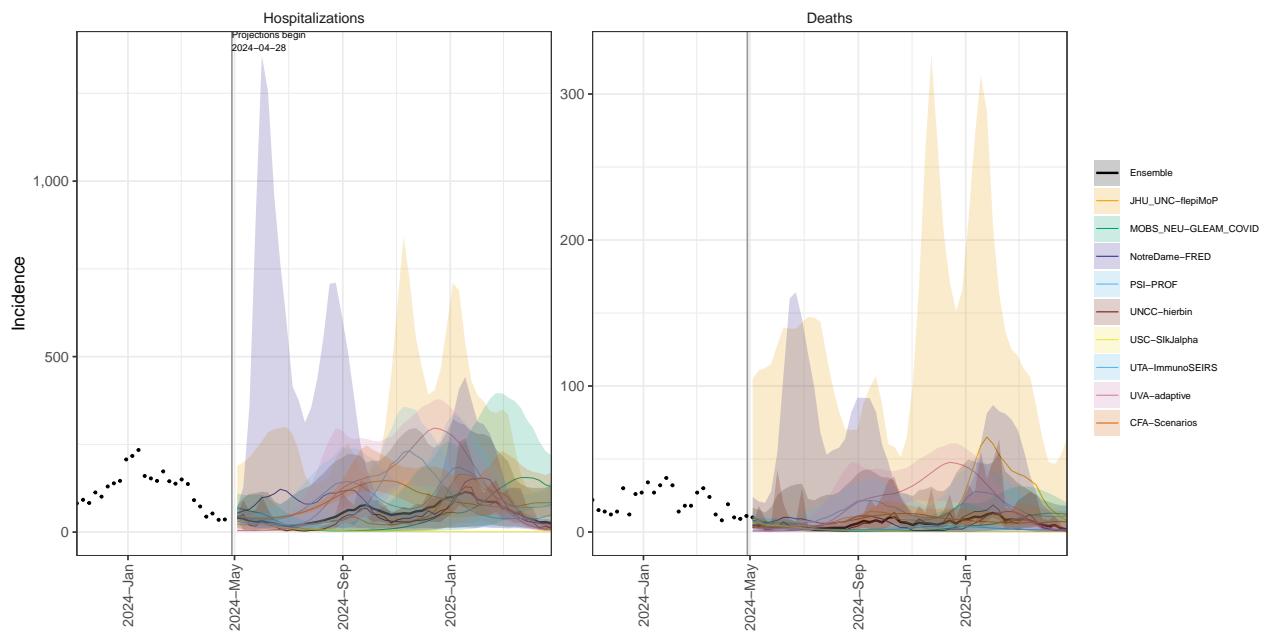
MI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



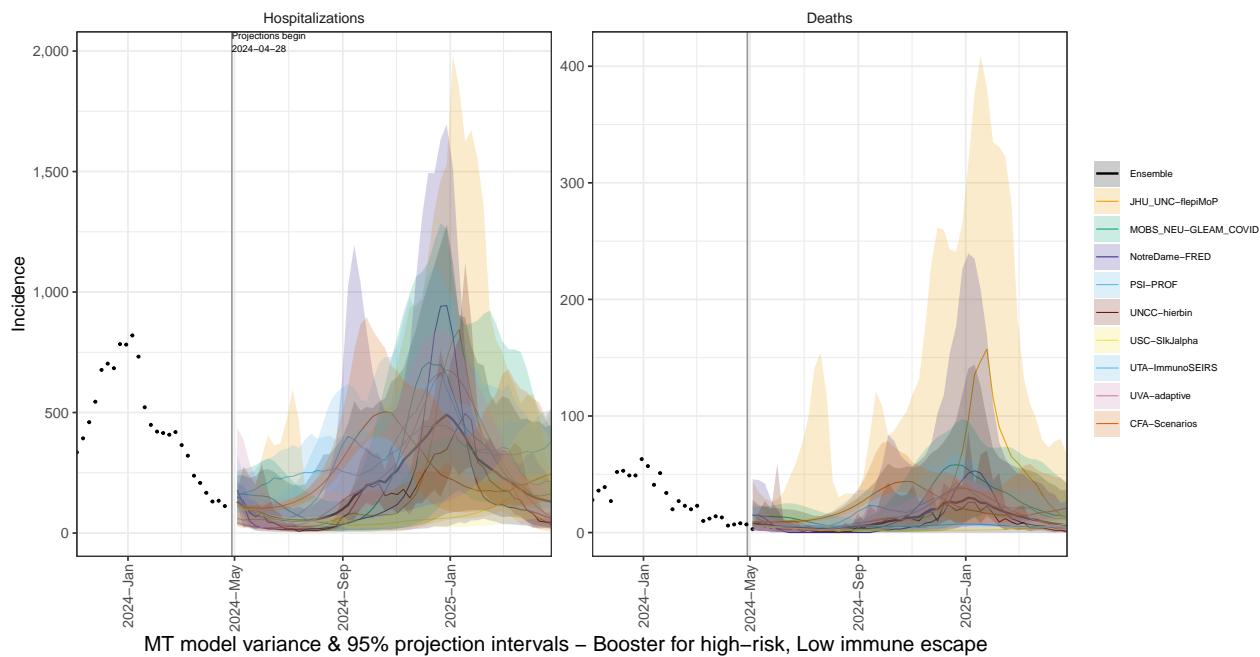
MN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



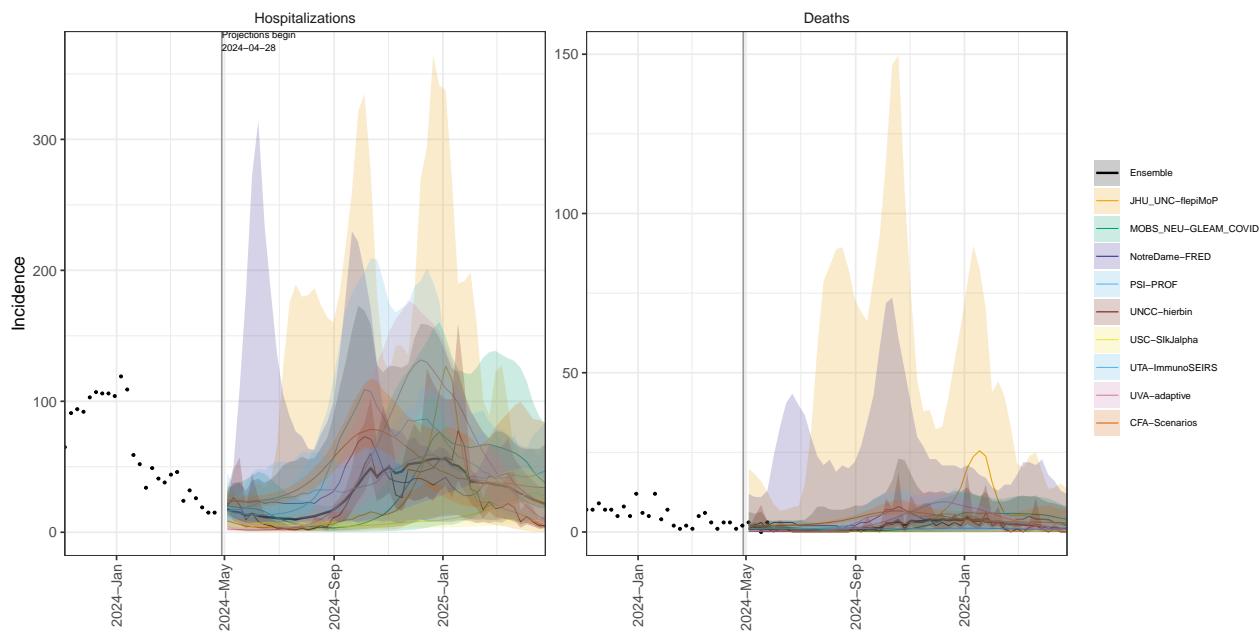
MS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



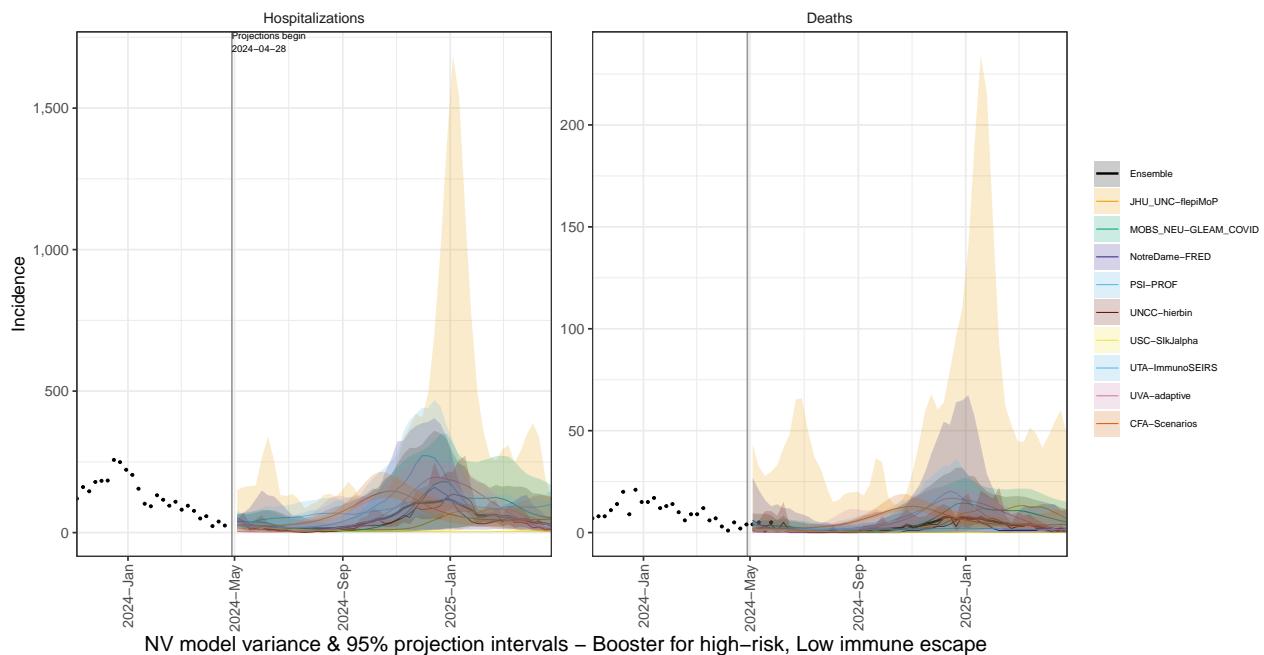
MO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



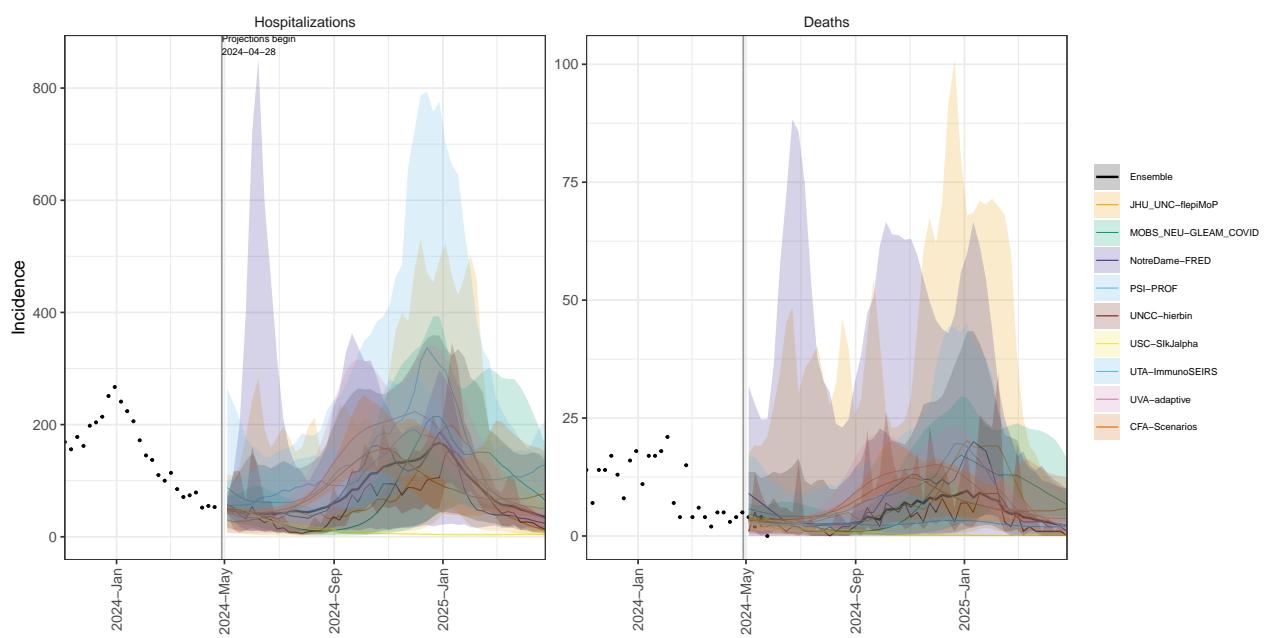
MT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



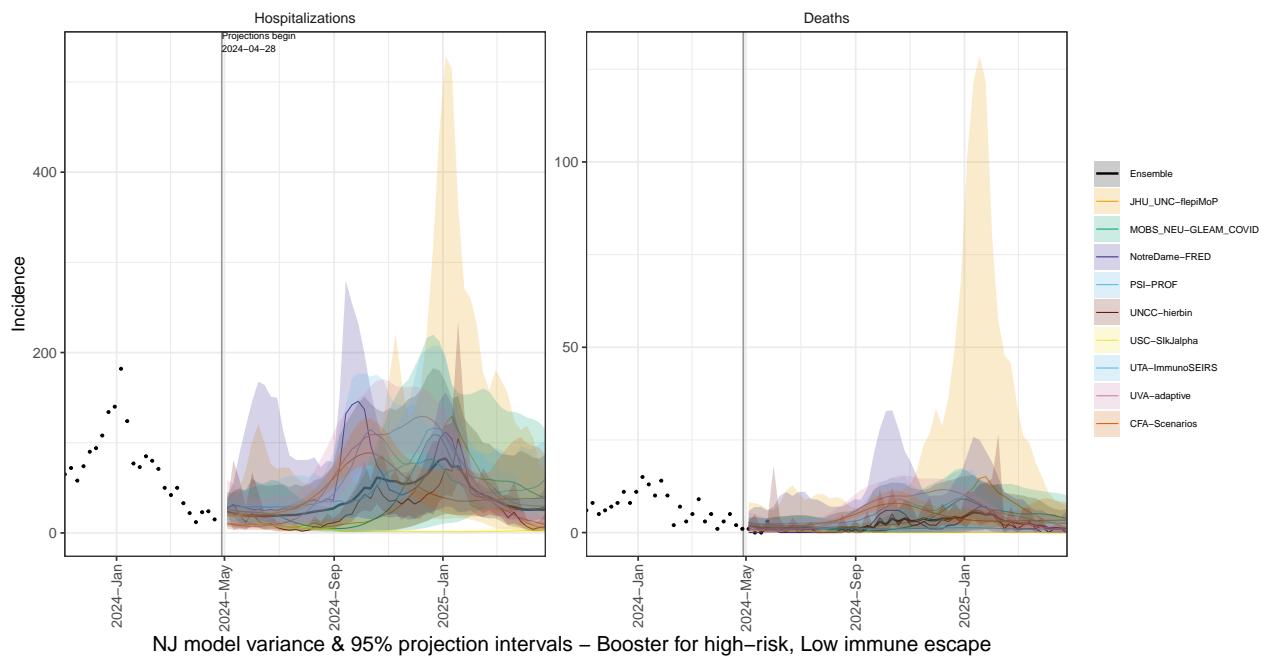
NE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



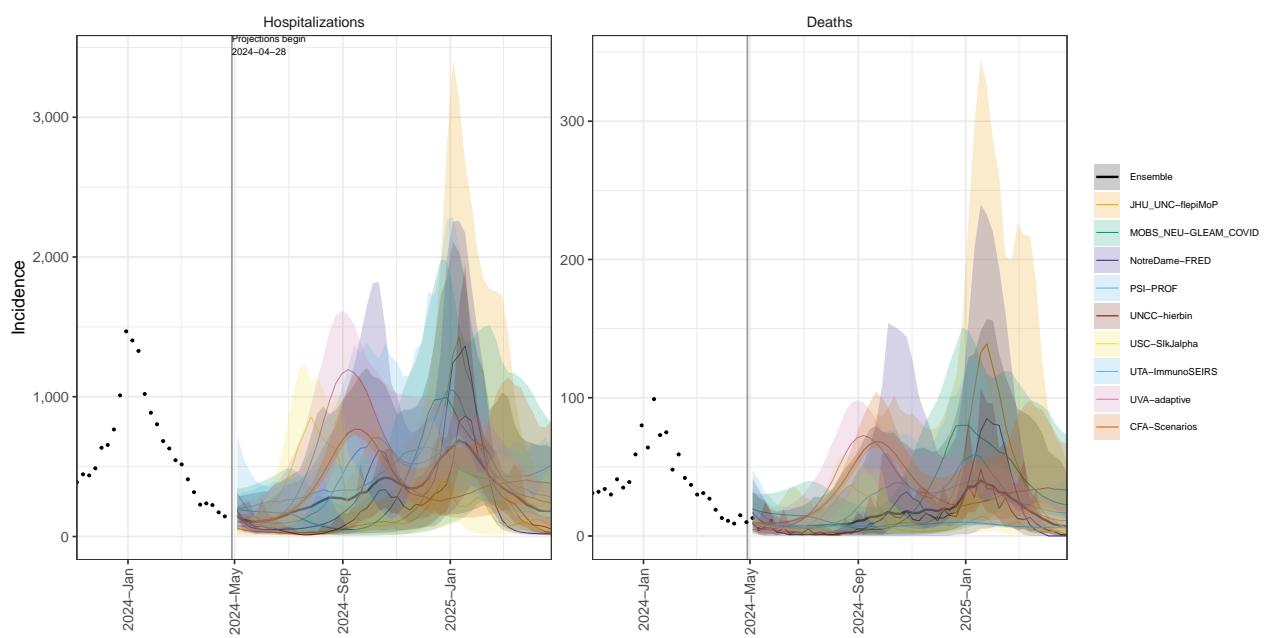
NV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



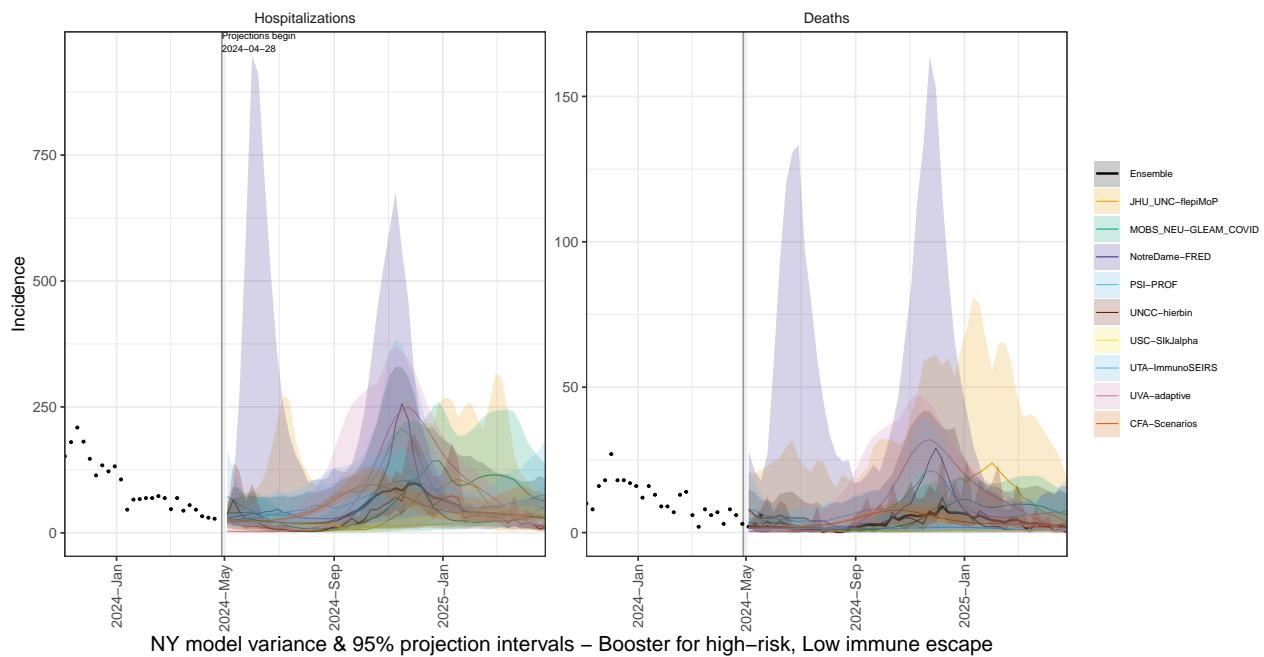
NH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



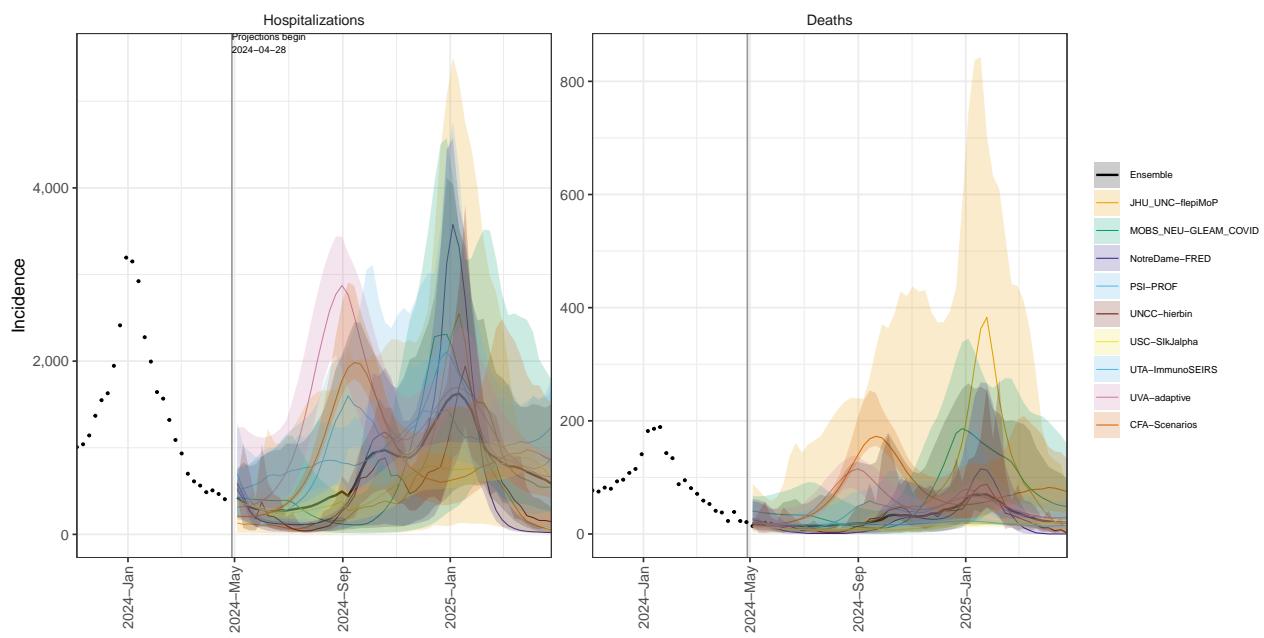
NJ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



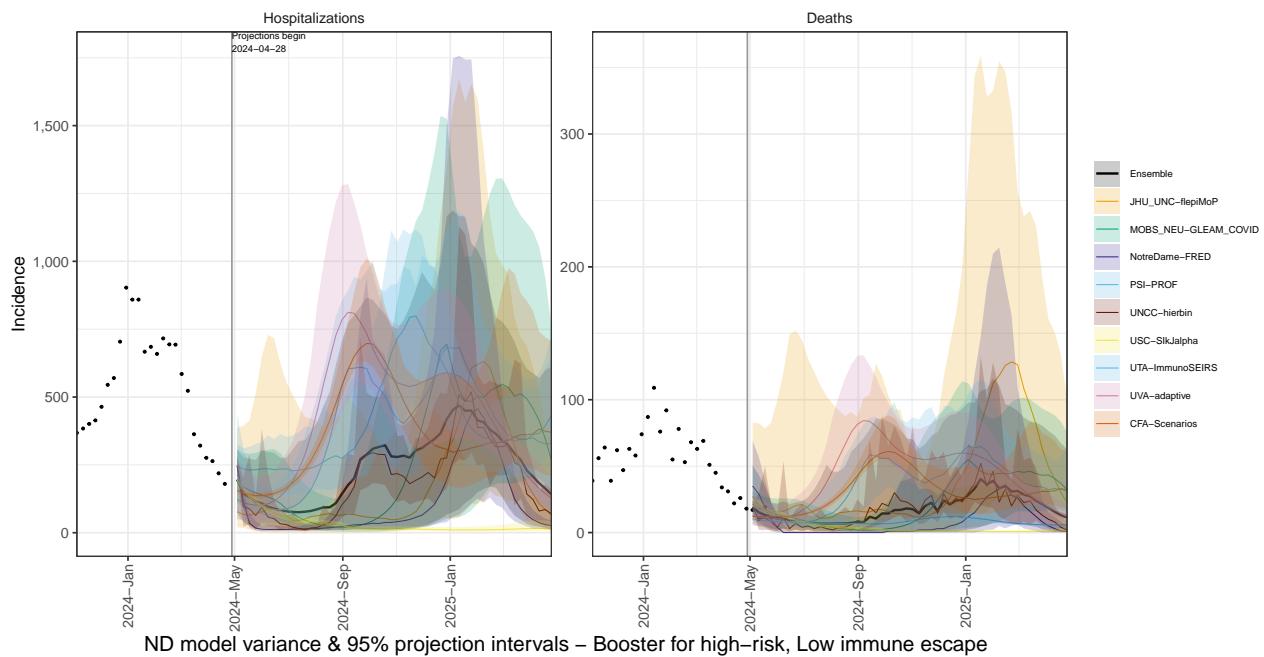
NM model variance & 95% projection intervals – Booster for high-risk, Low immune escape



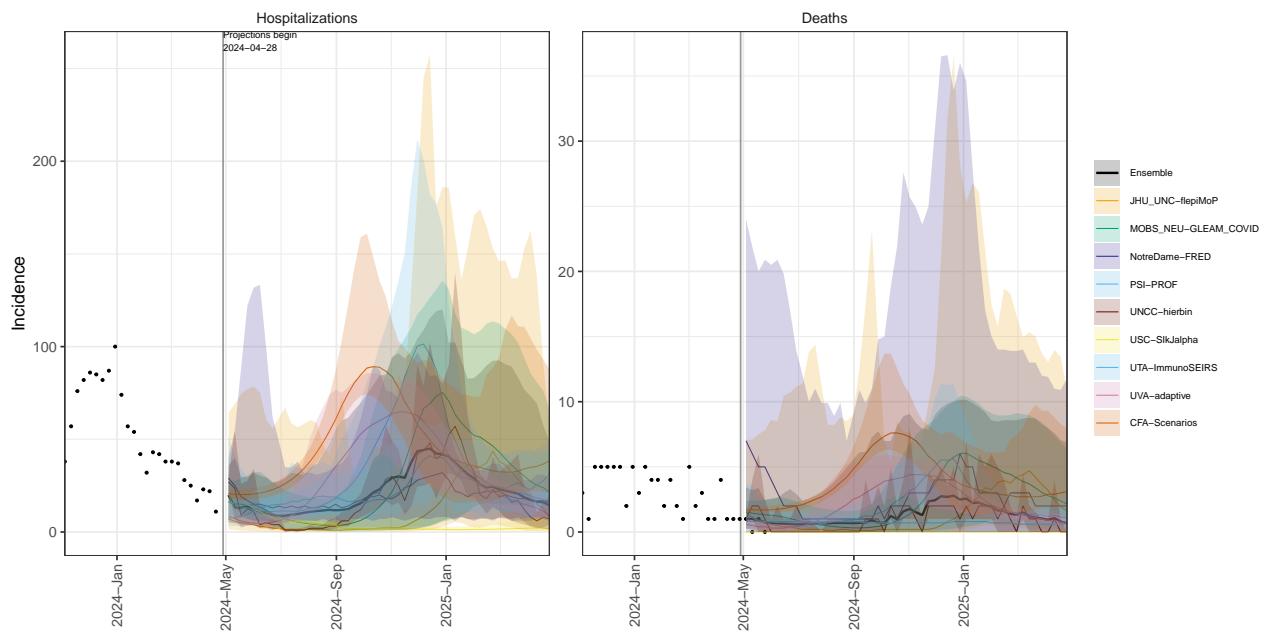
NY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



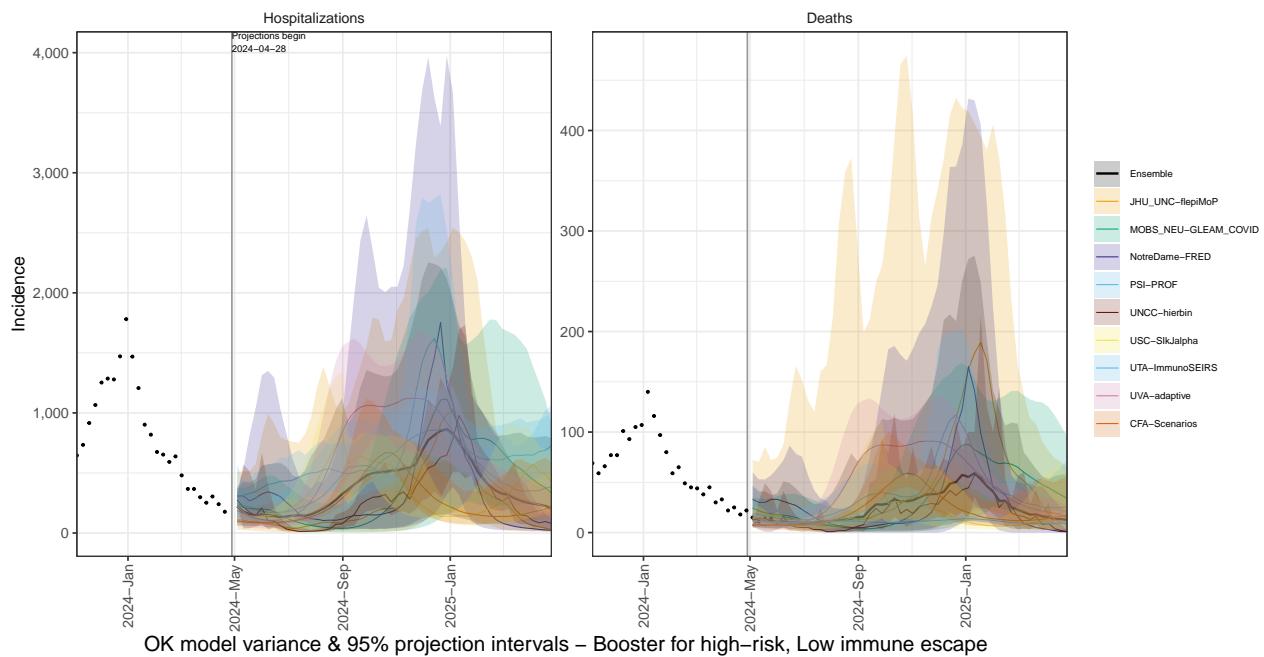
NC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



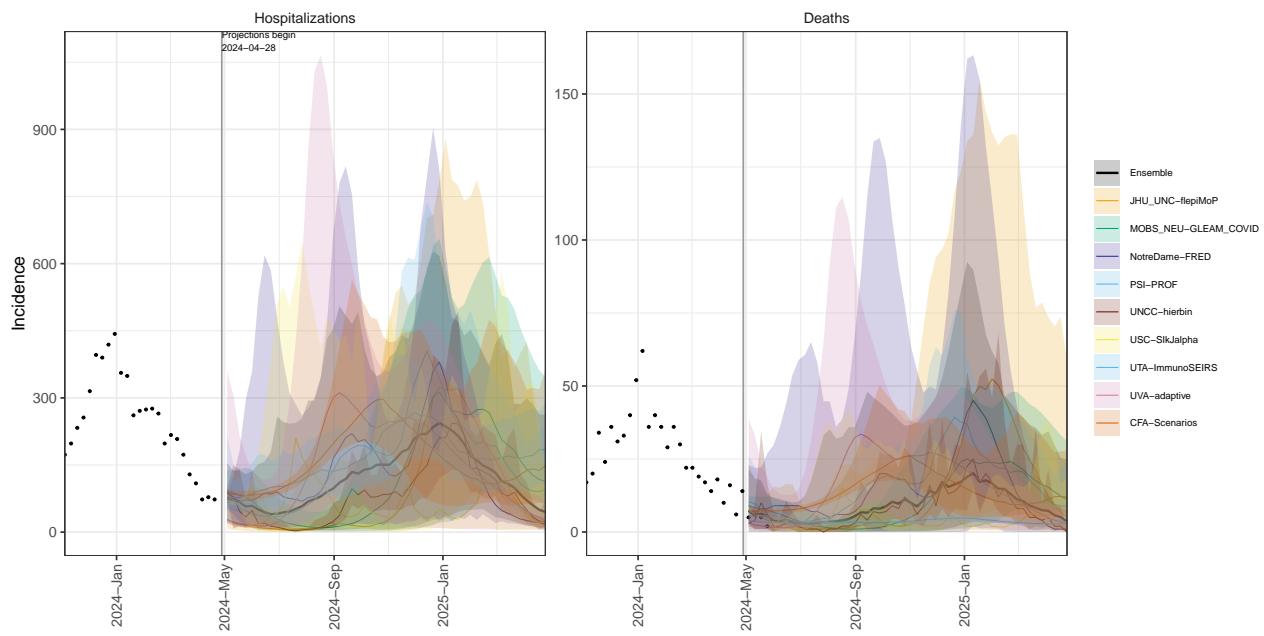
ND model variance & 95% projection intervals – Booster for high-risk, Low immune escape



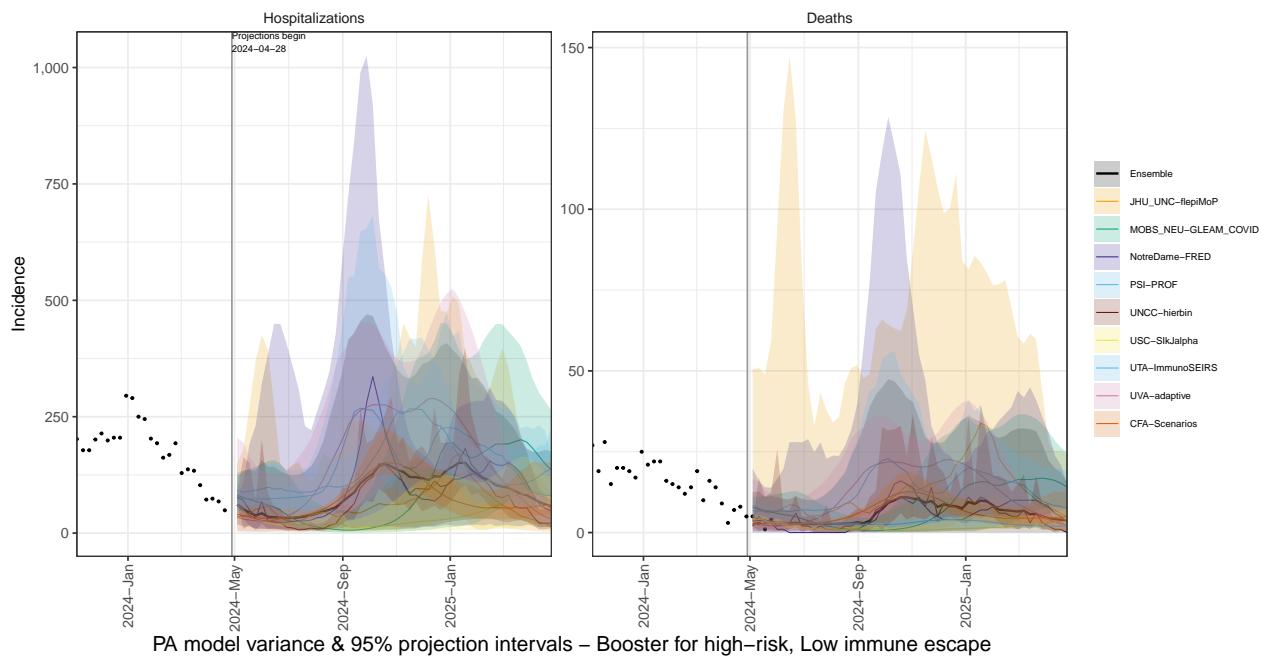
OH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



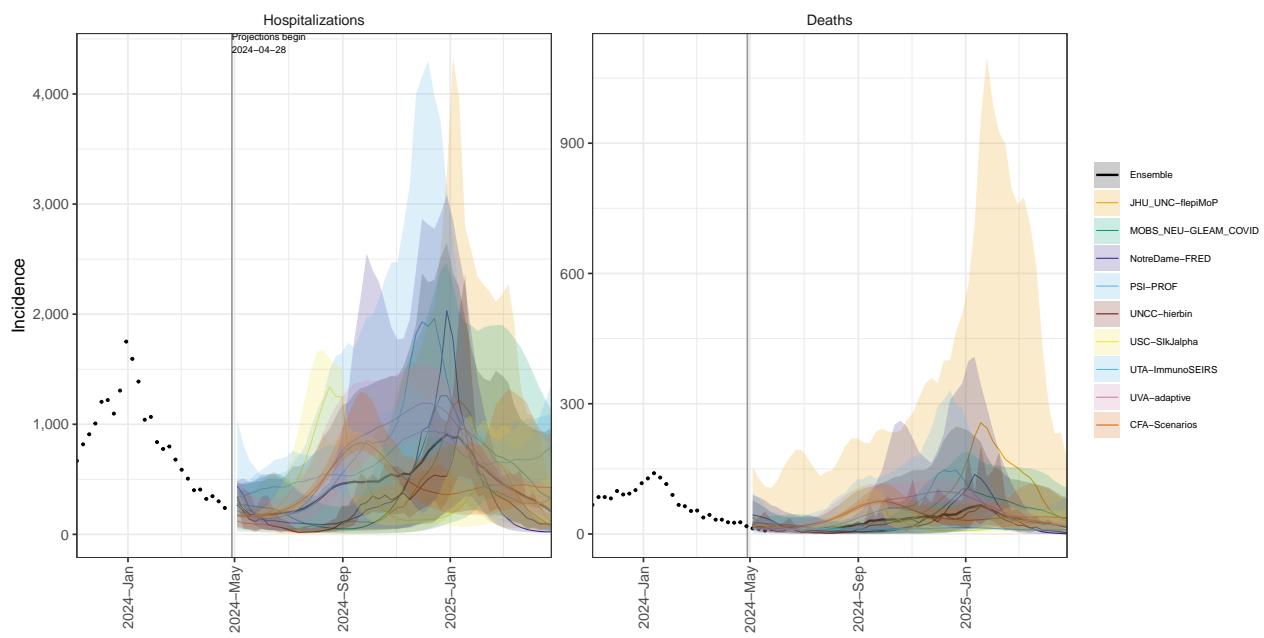
OK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



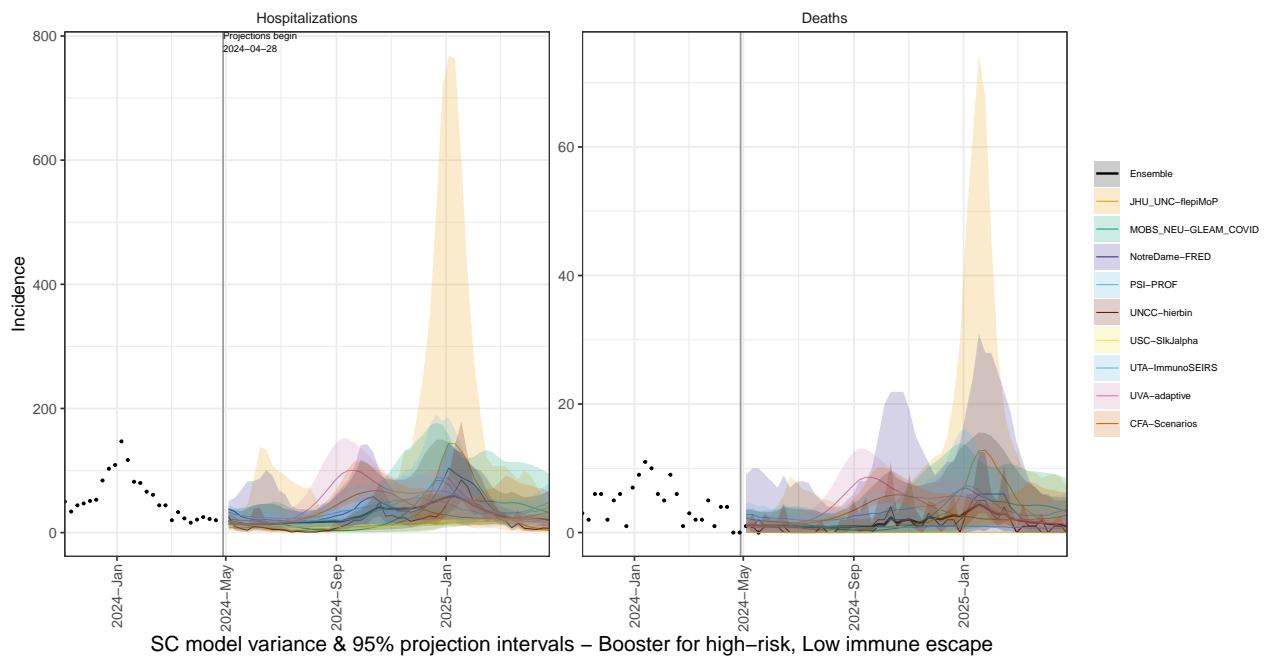
OR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



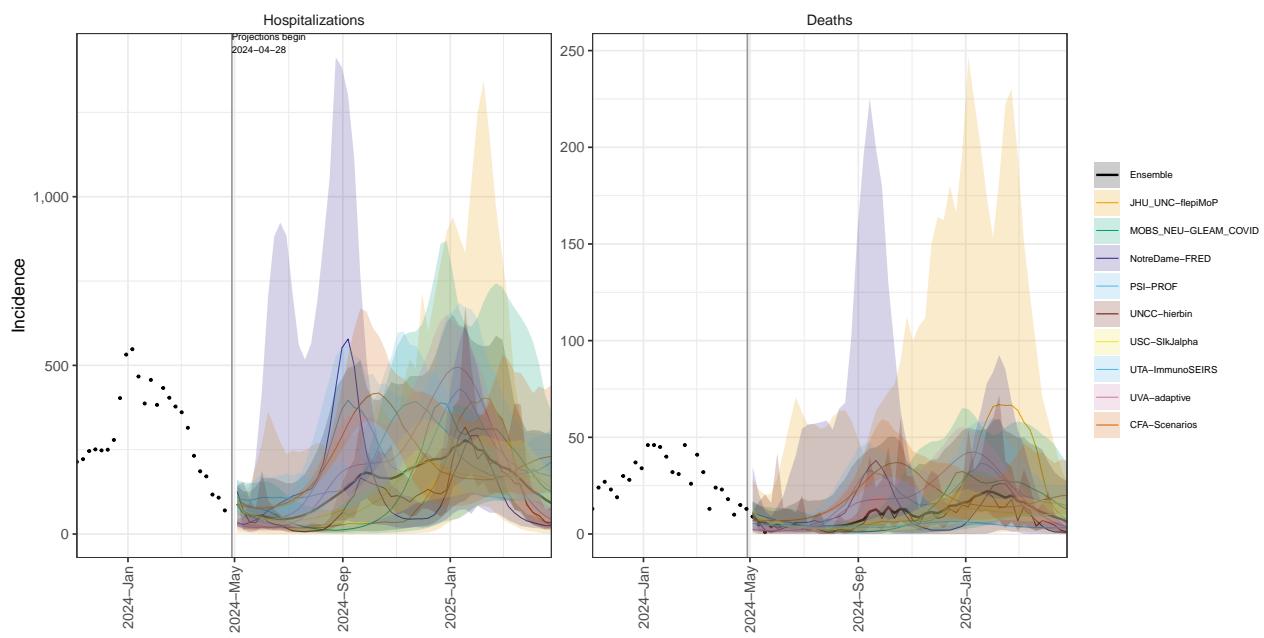
PA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



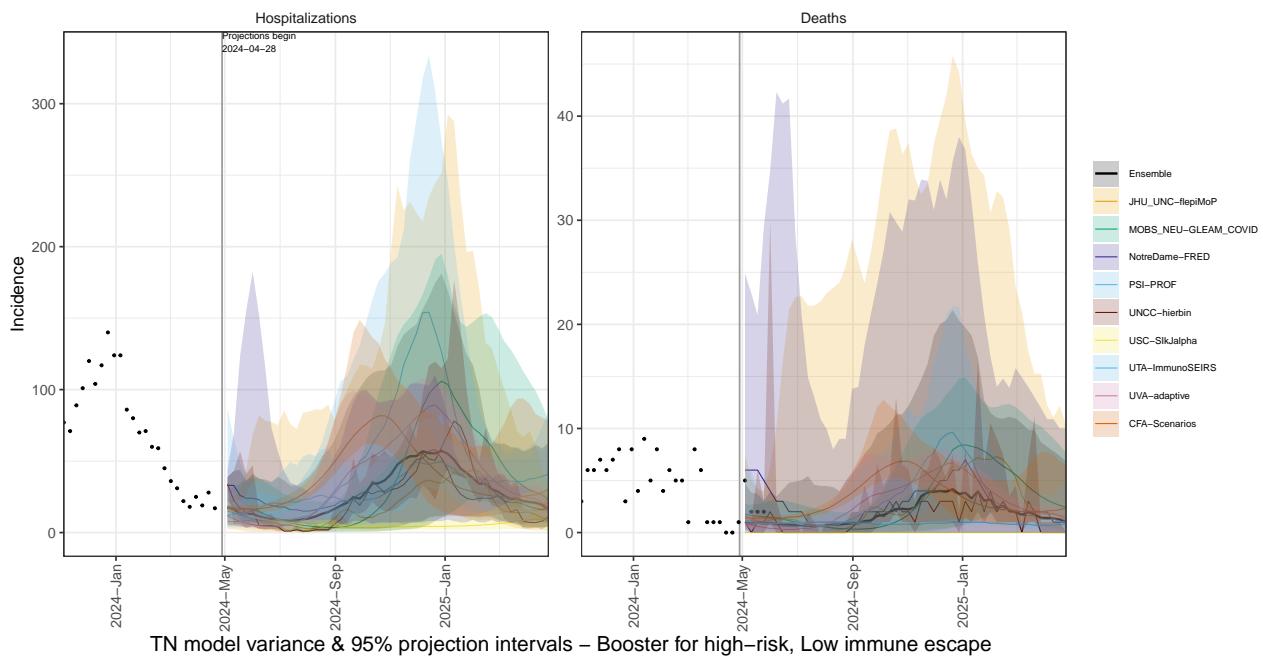
RI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



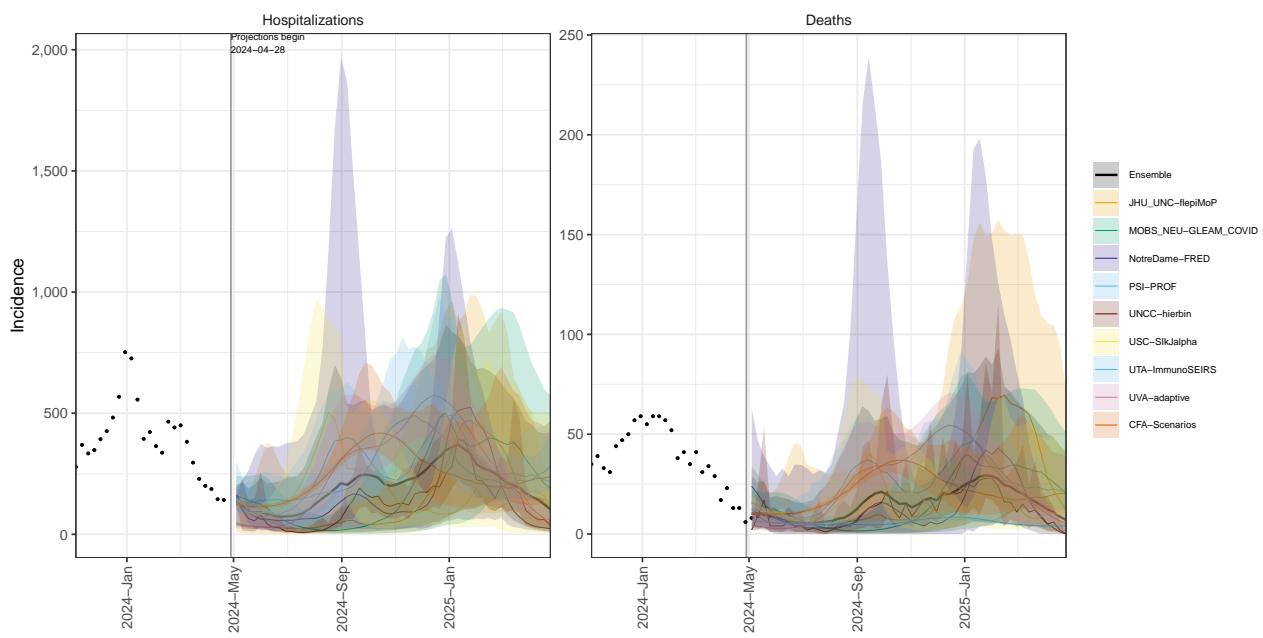
SC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



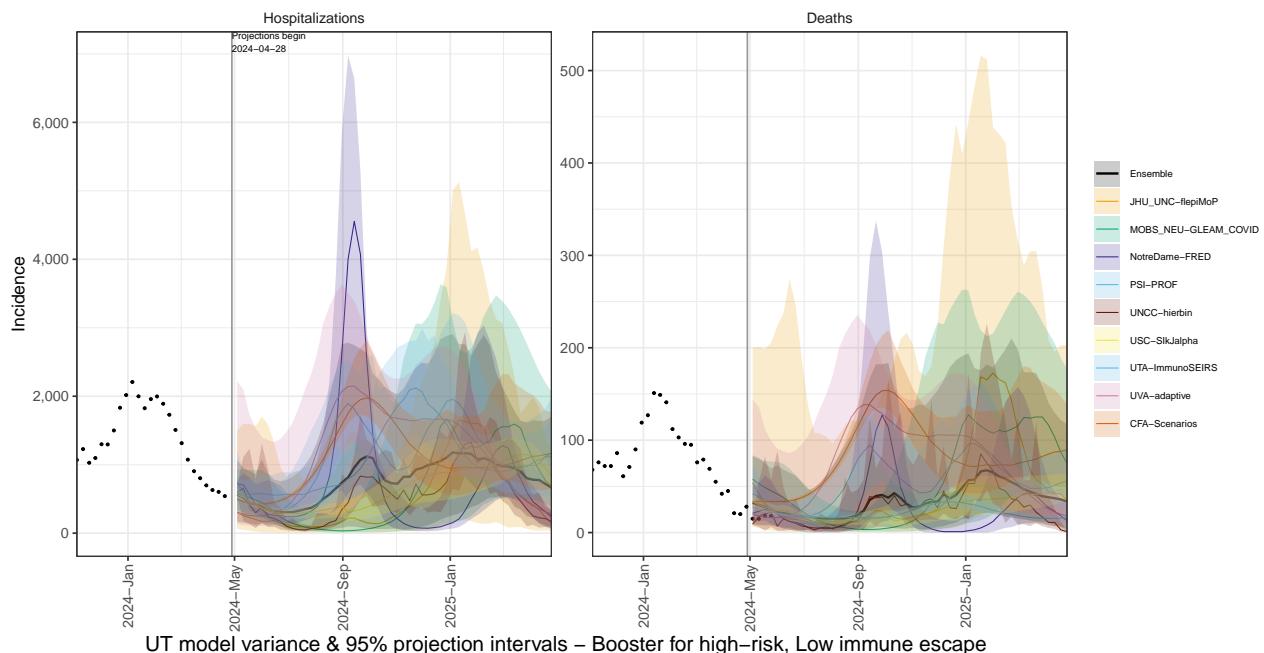
SD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



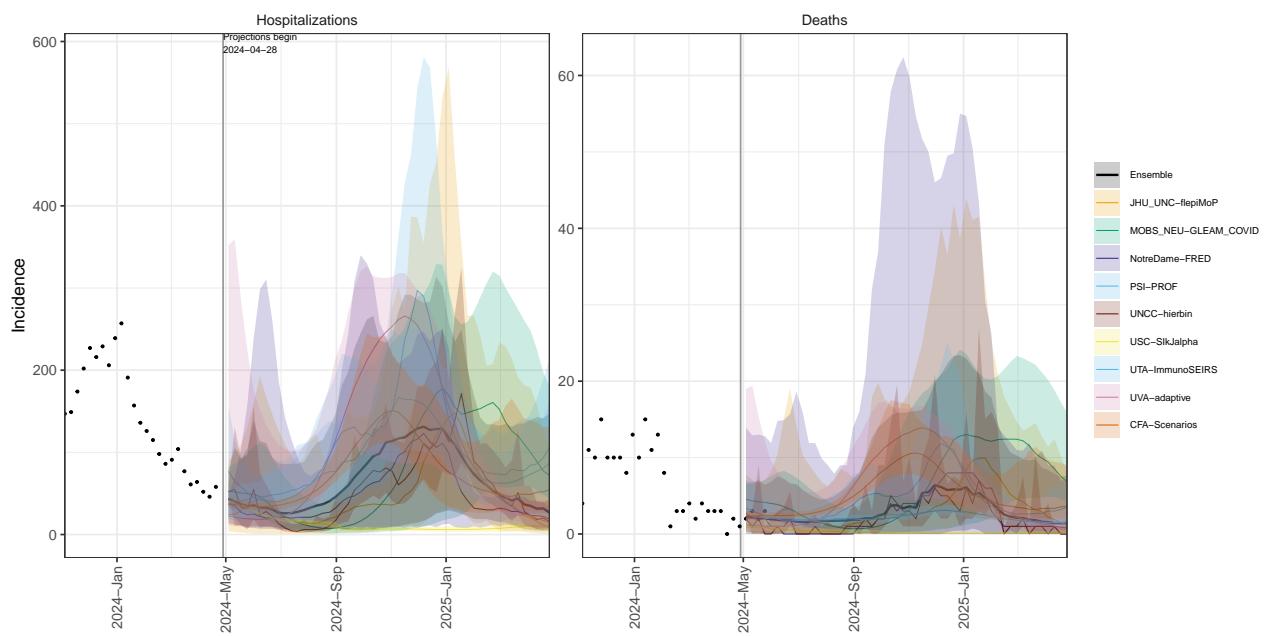
TN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



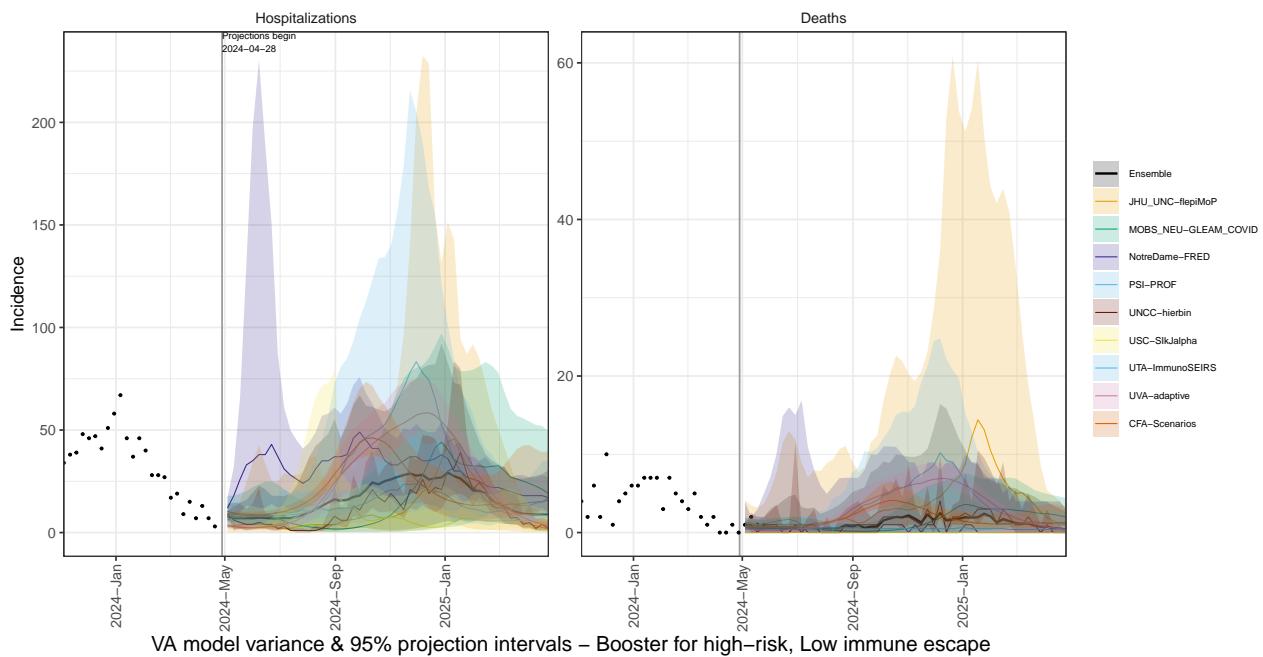
TX model variance & 95% projection intervals – Booster for high-risk, Low immune escape



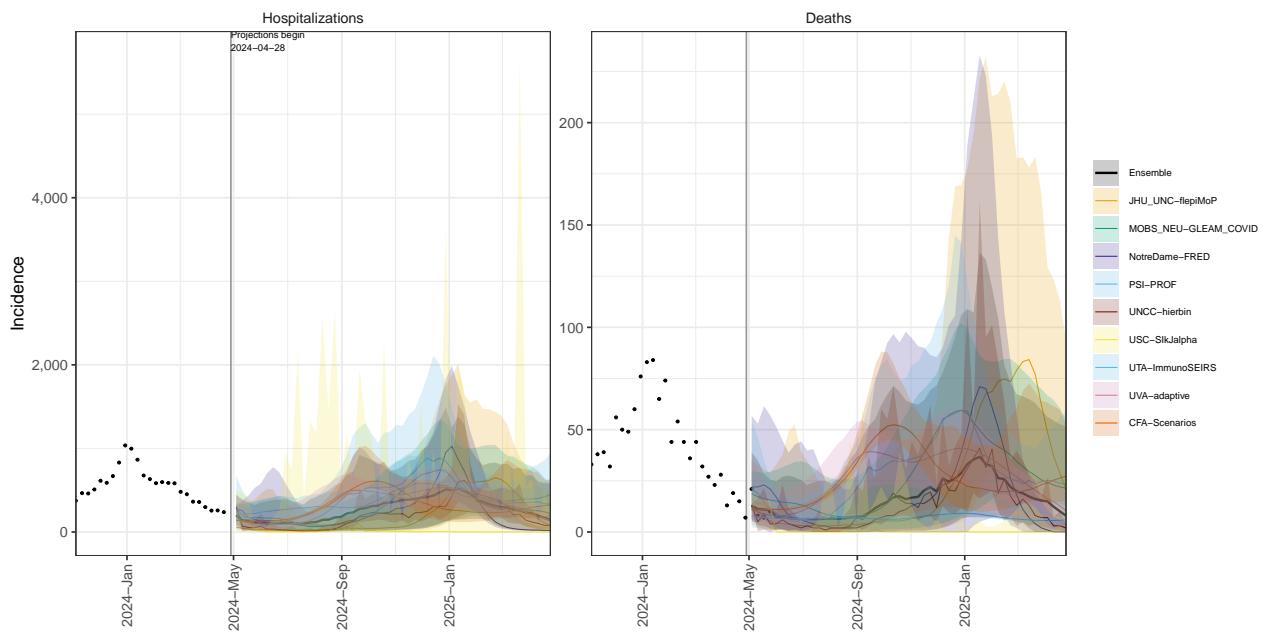
UT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



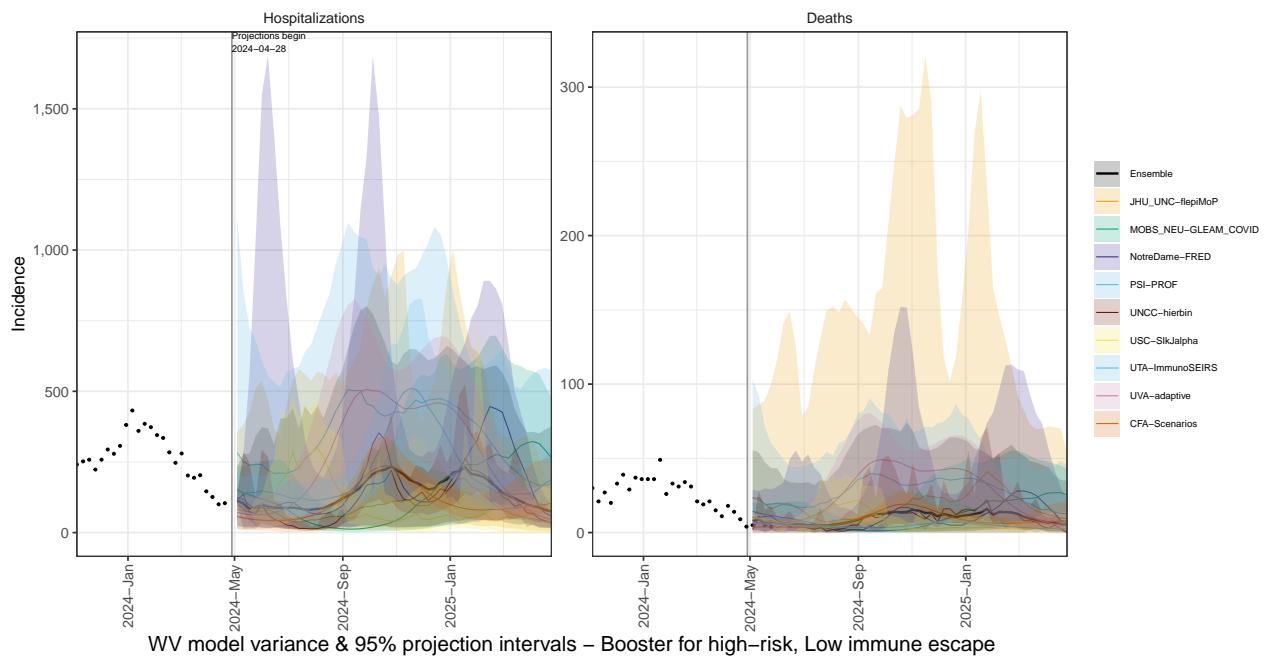
VT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



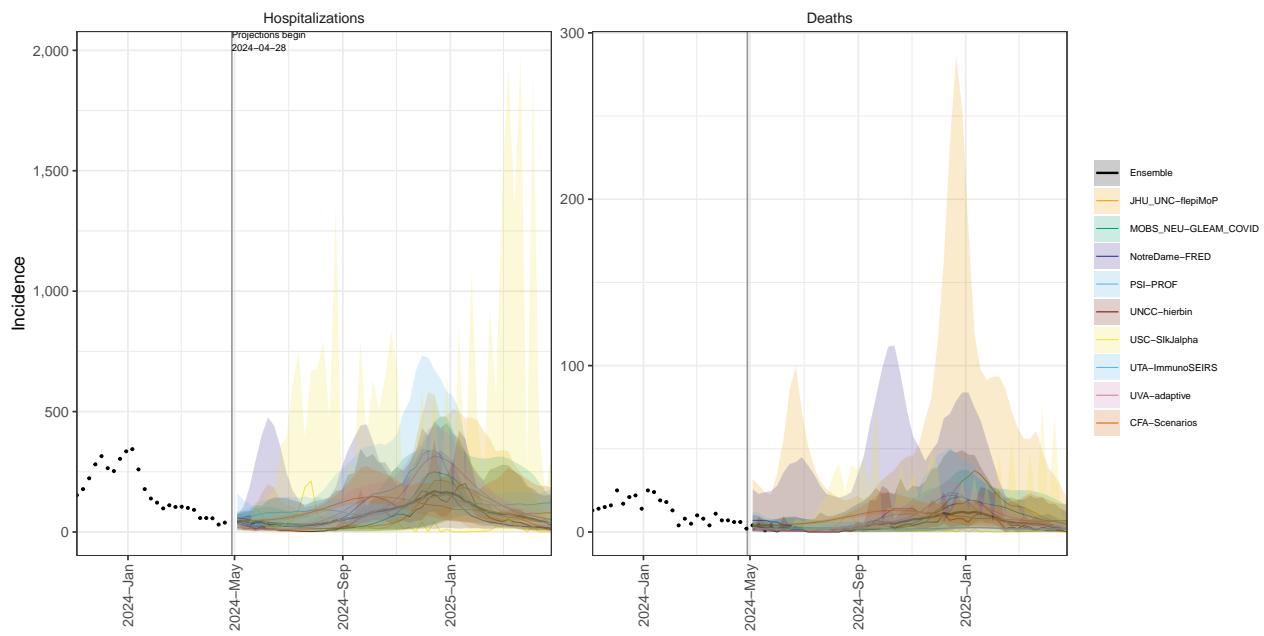
VA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



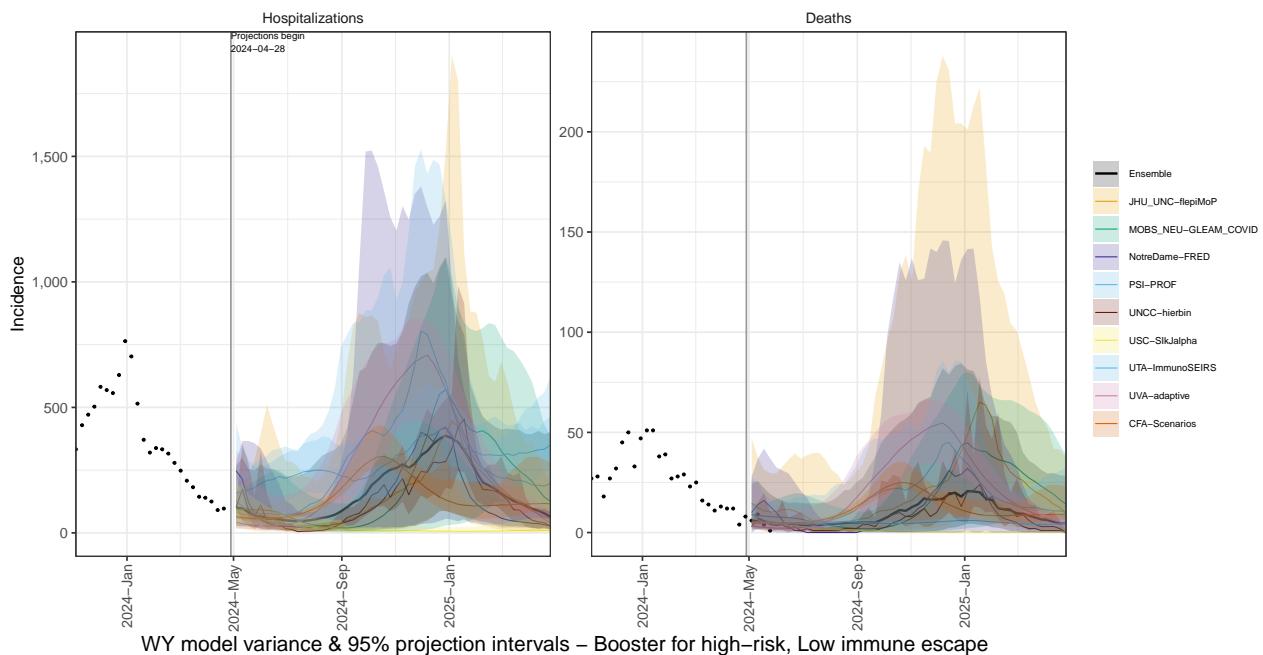
WA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



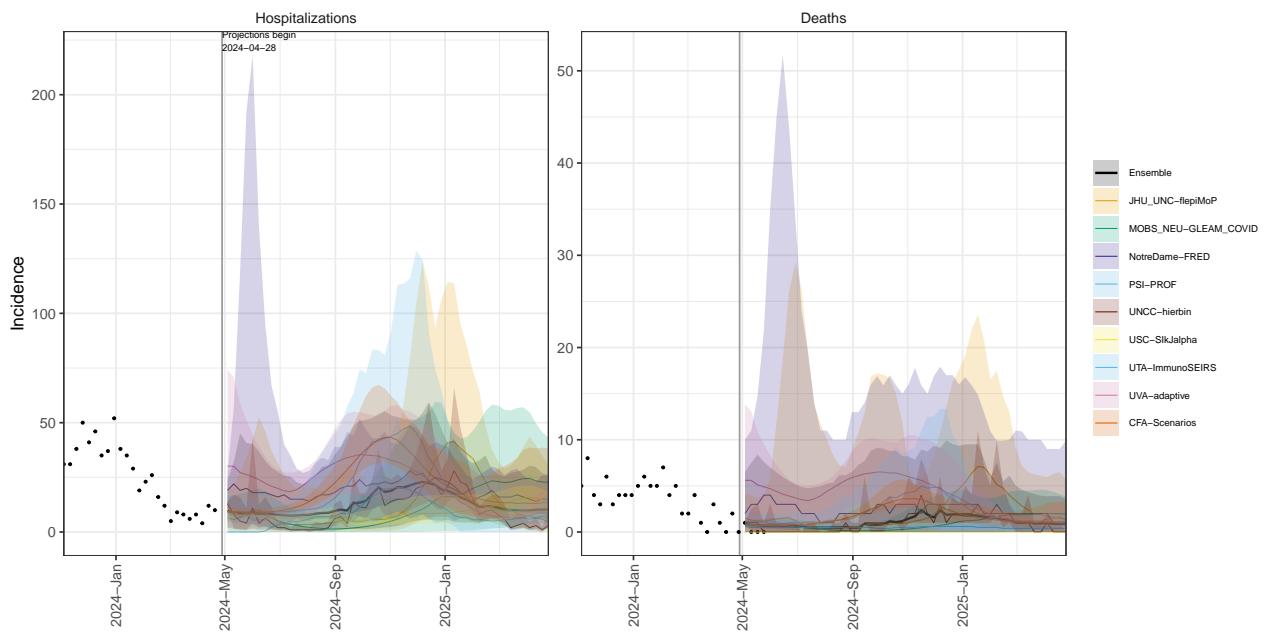
WV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



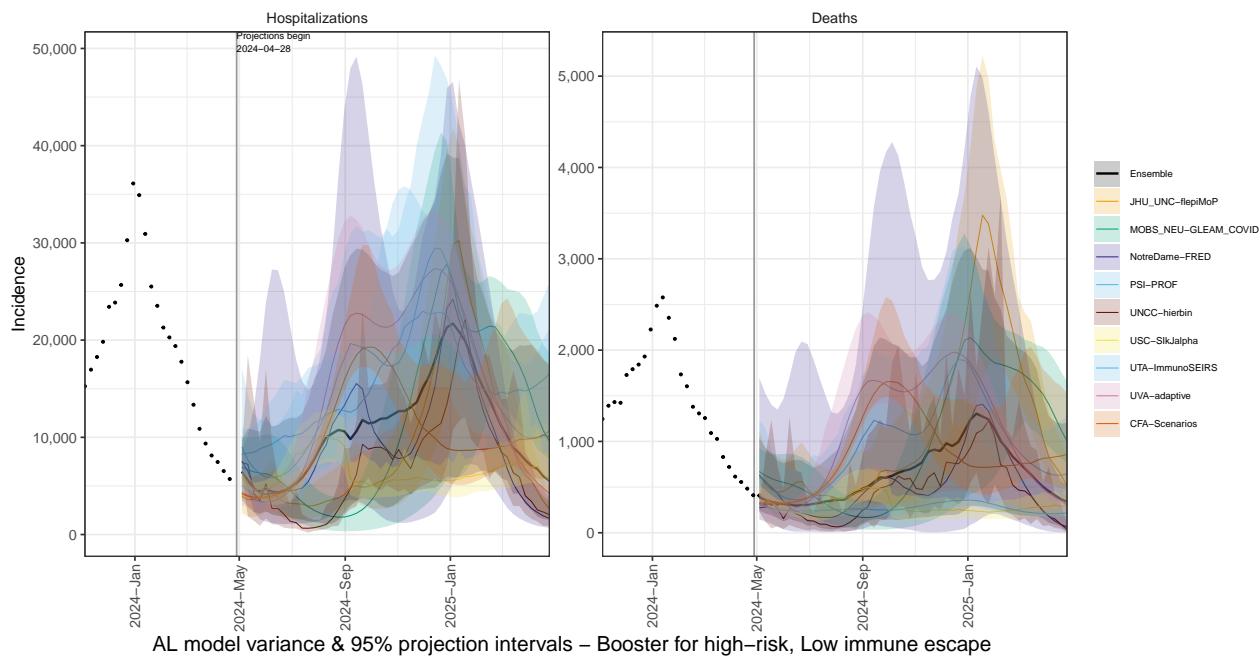
WI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



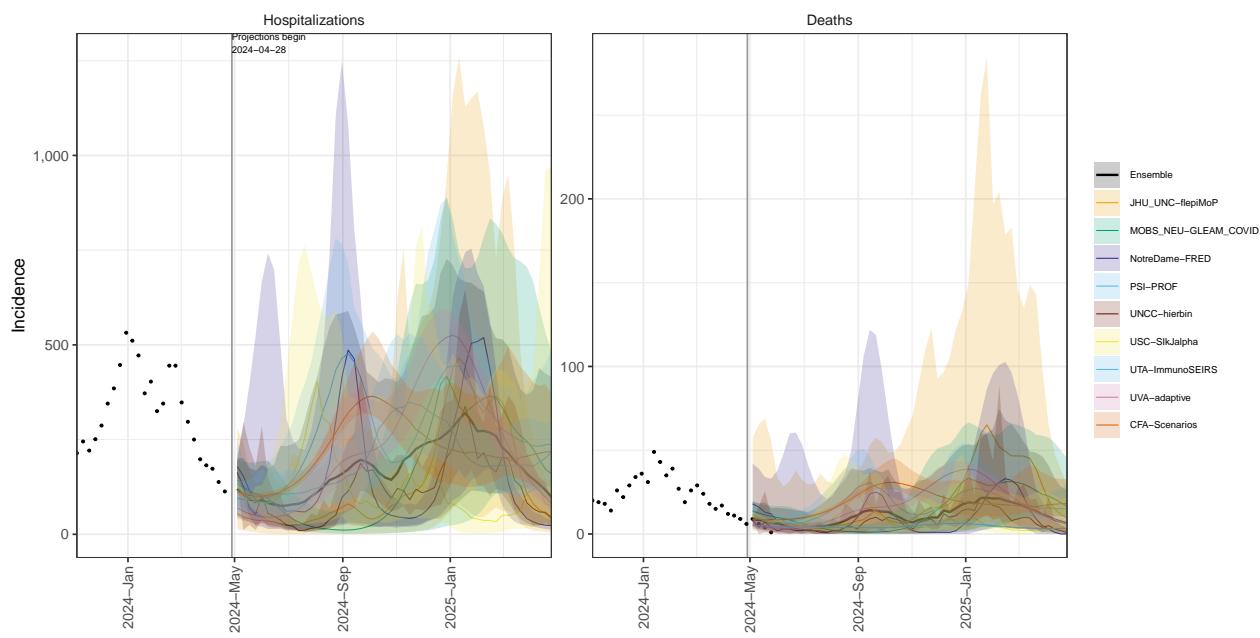
WY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



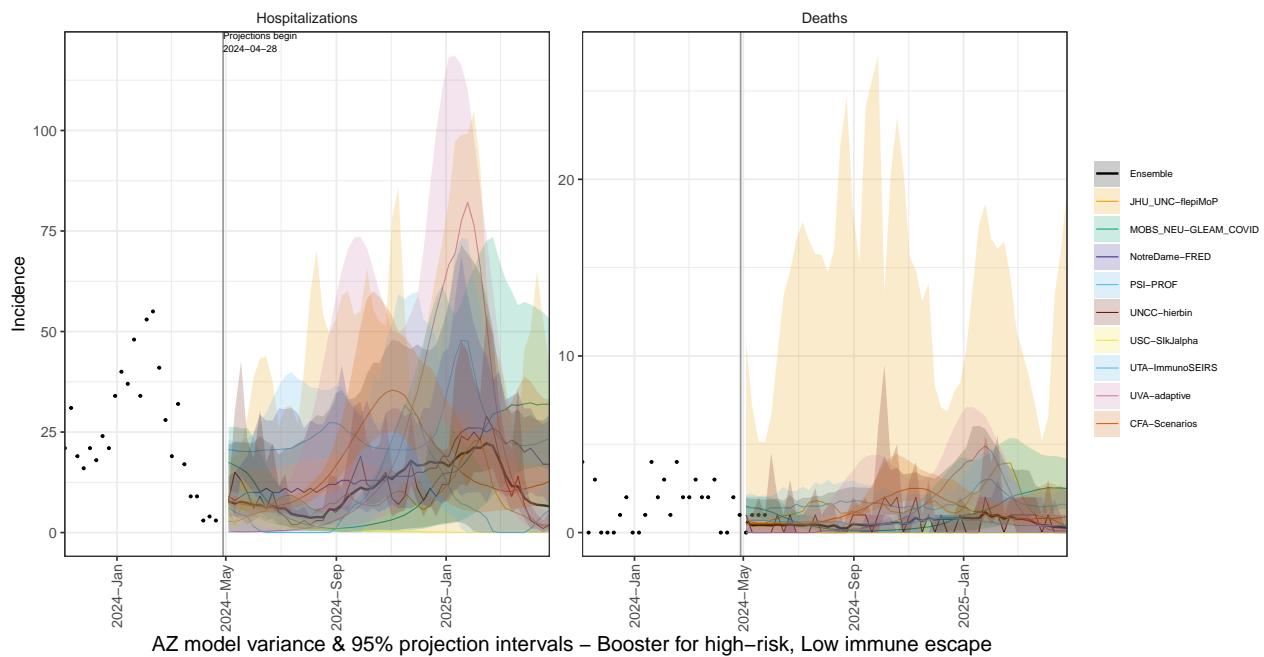
US model variance & 95% projection intervals – Booster for high-risk, Low immune escape



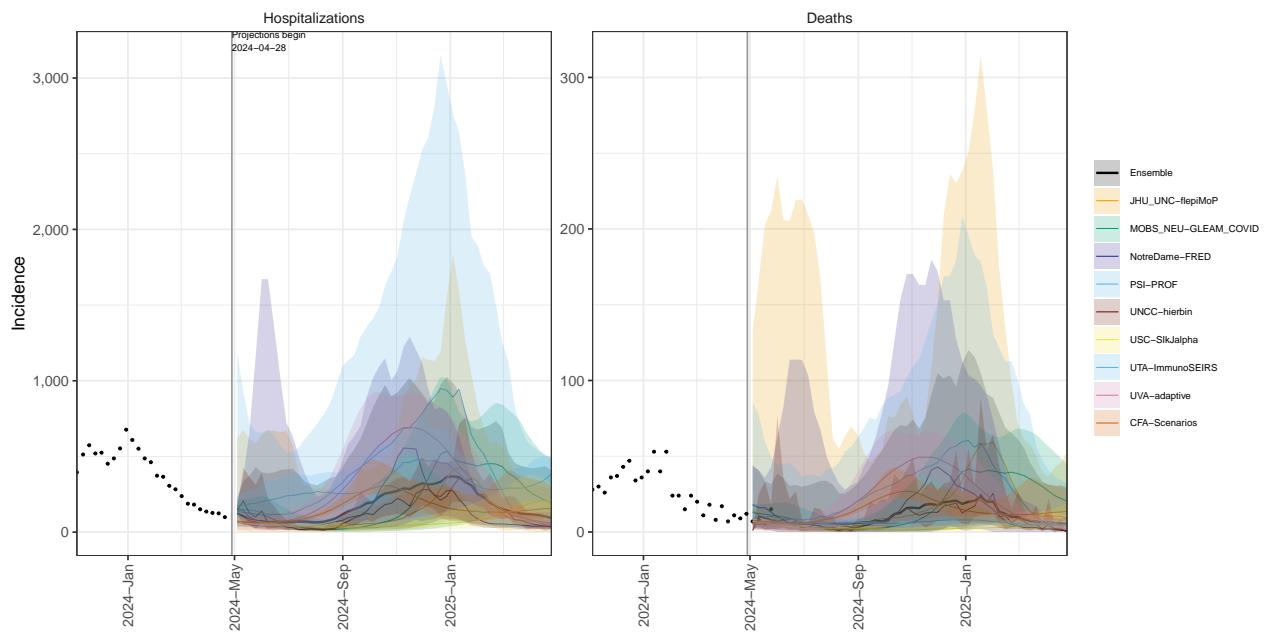
AL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



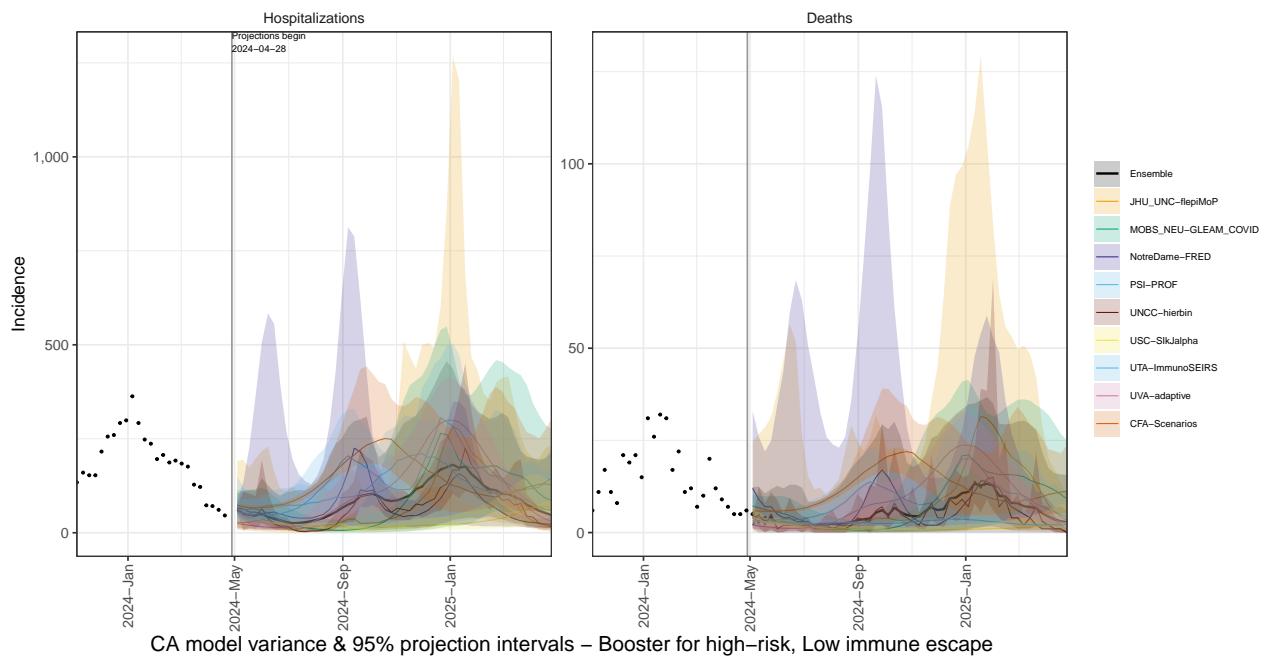
AK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



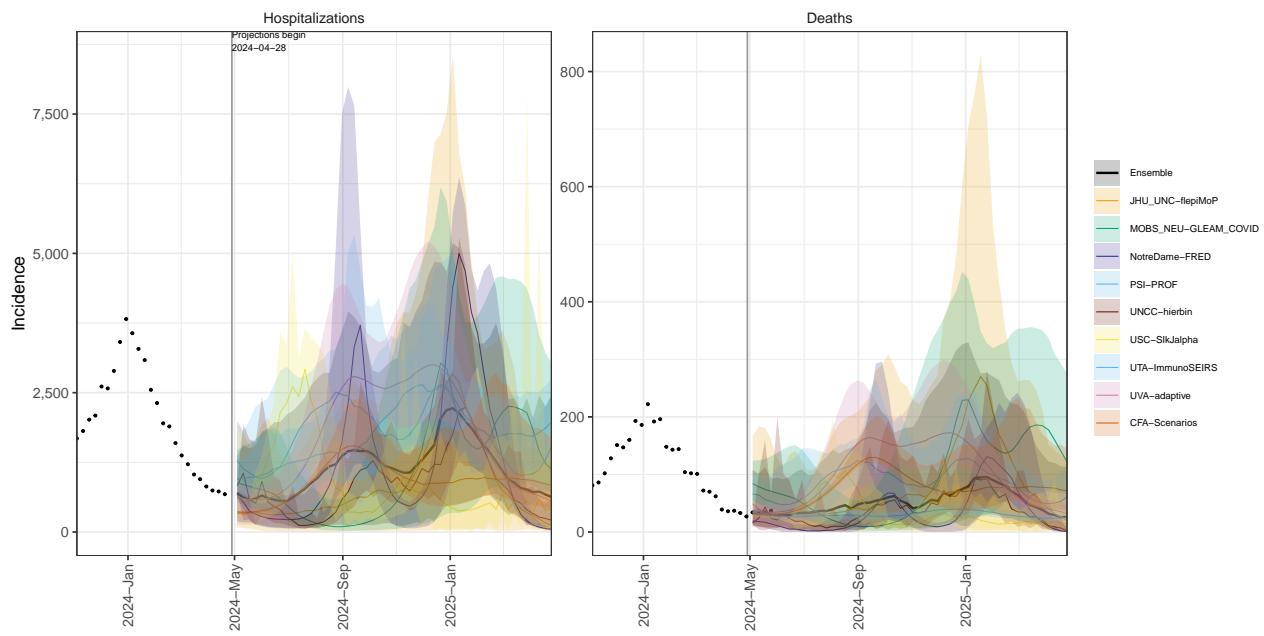
AZ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



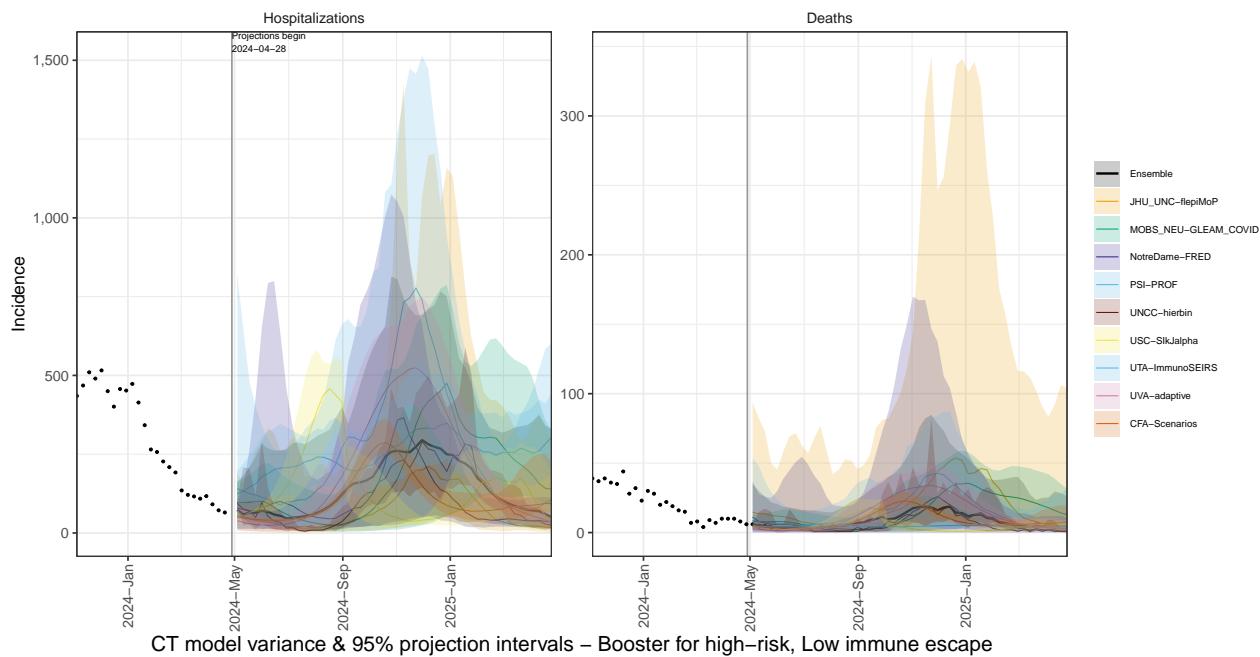
AR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



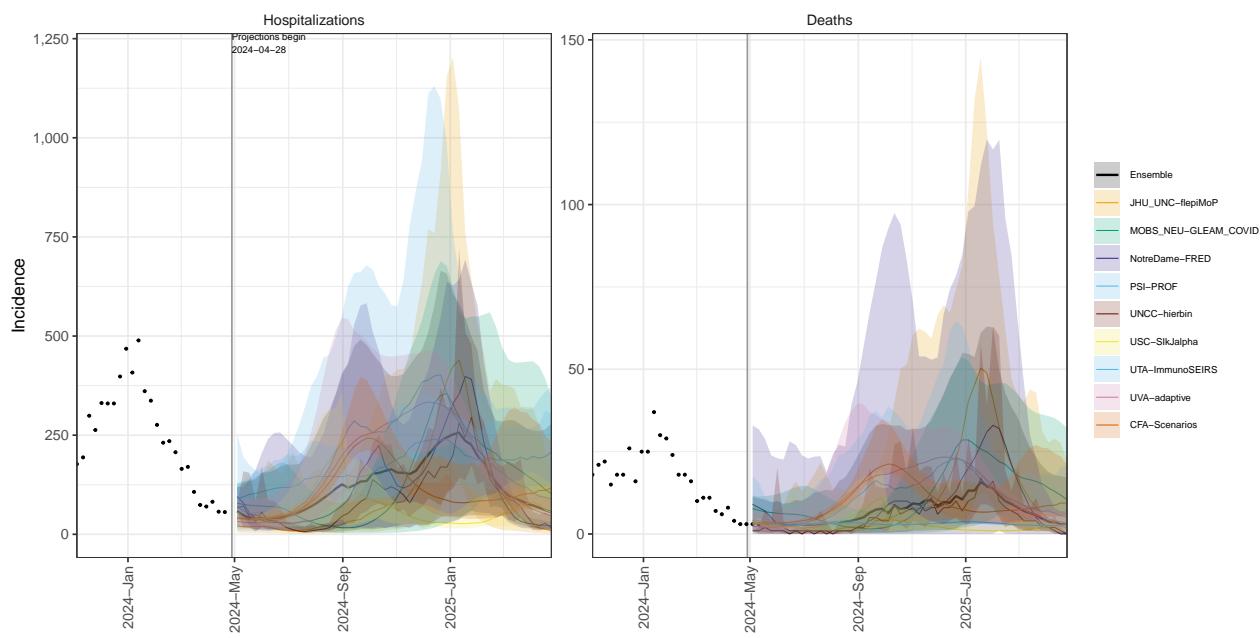
CA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



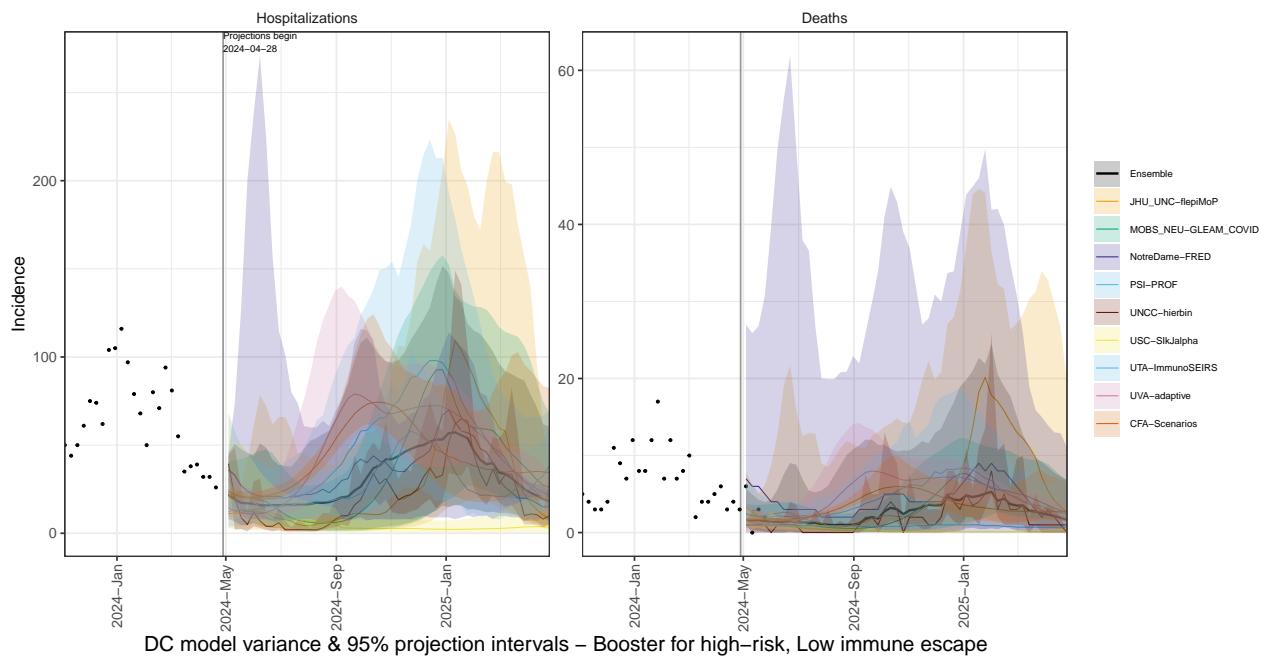
CO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



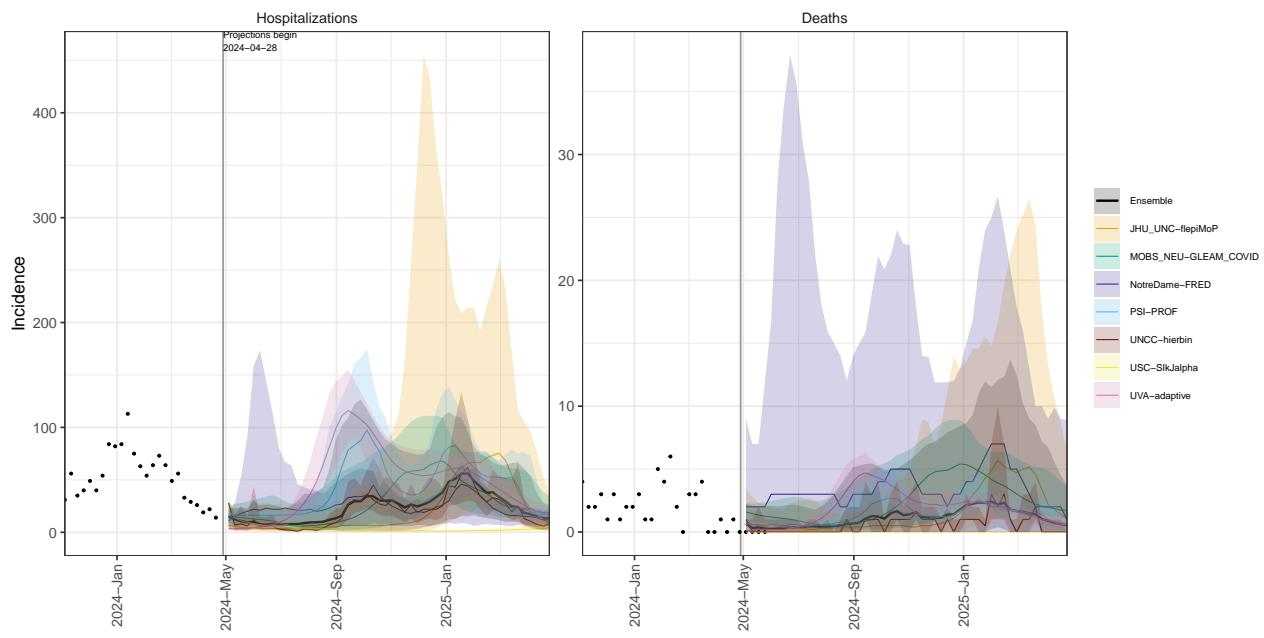
CT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



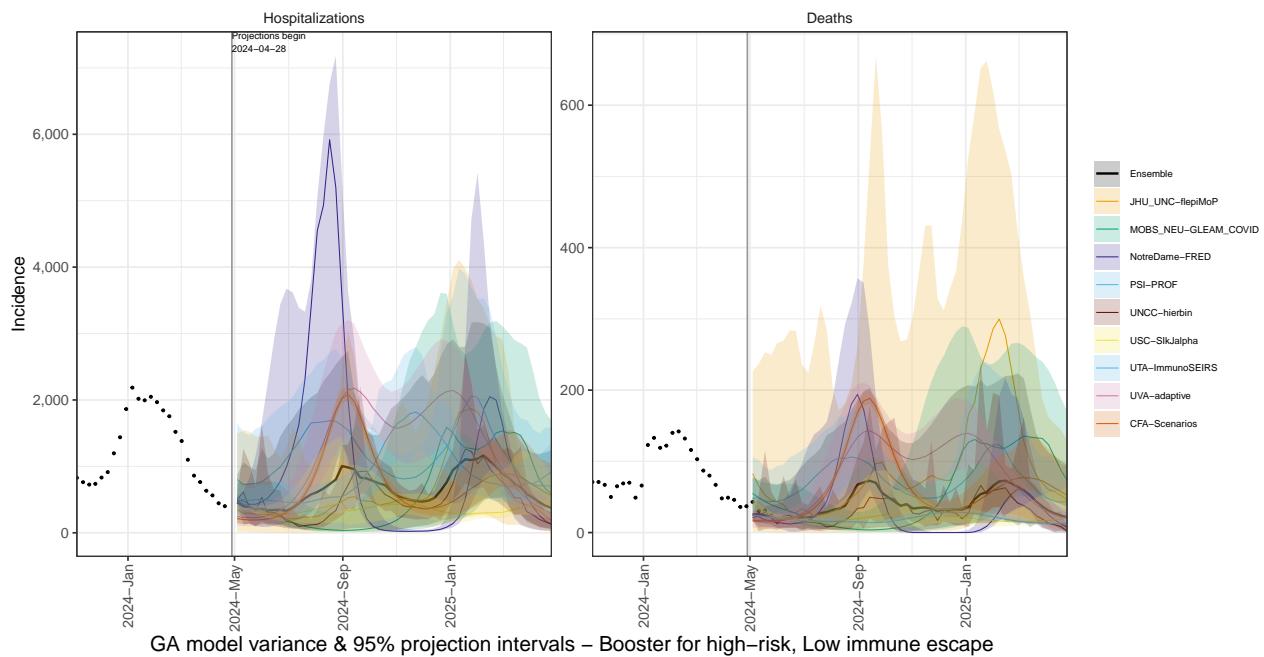
DE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



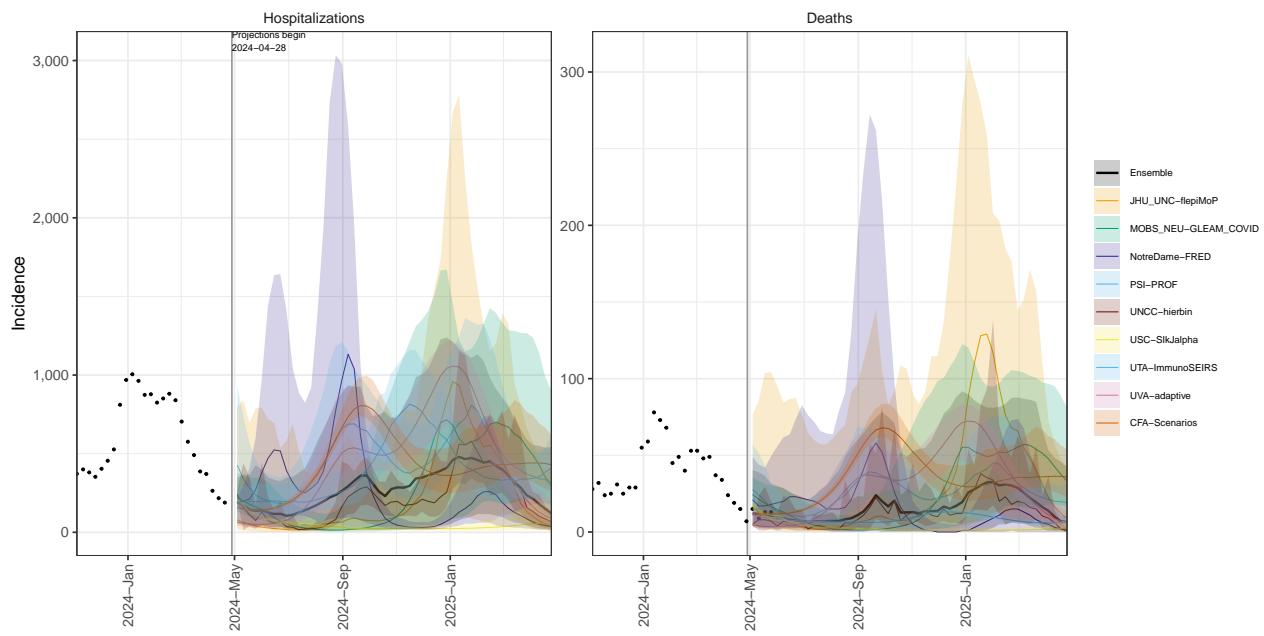
DC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



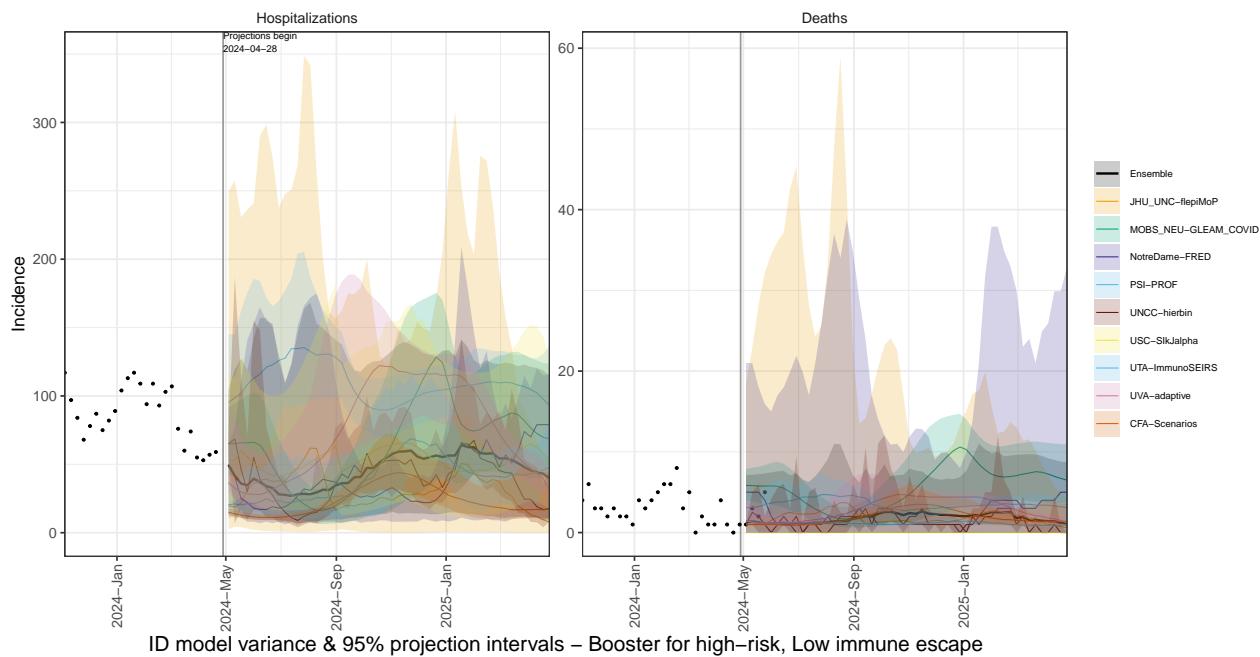
FL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



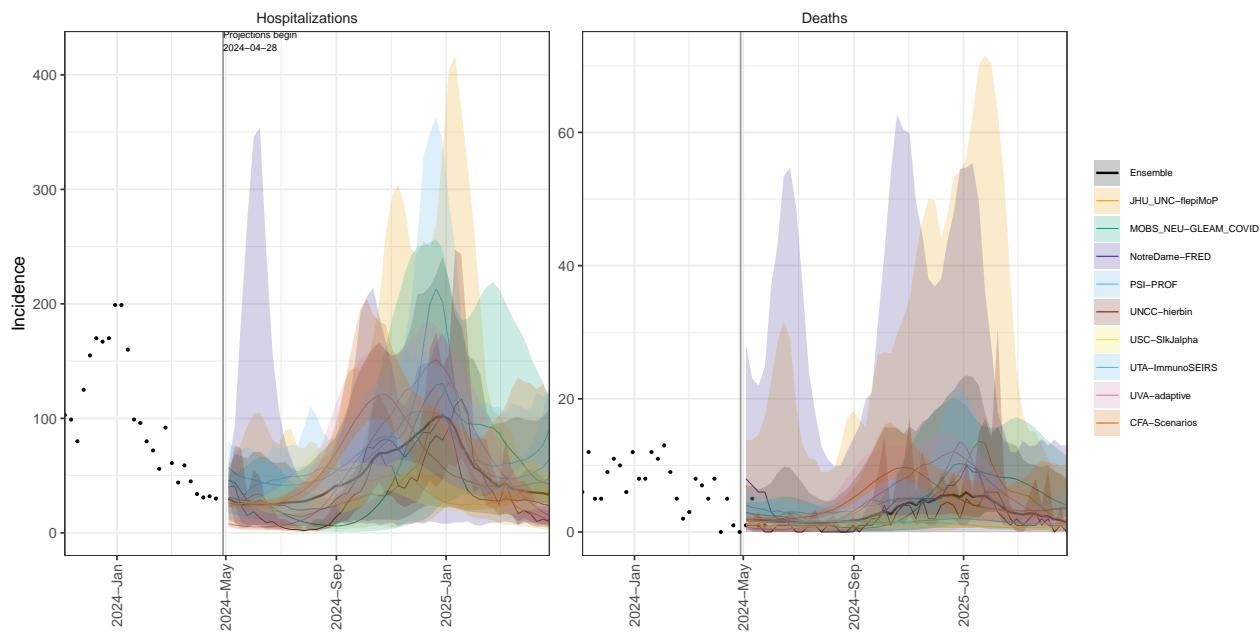
GA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



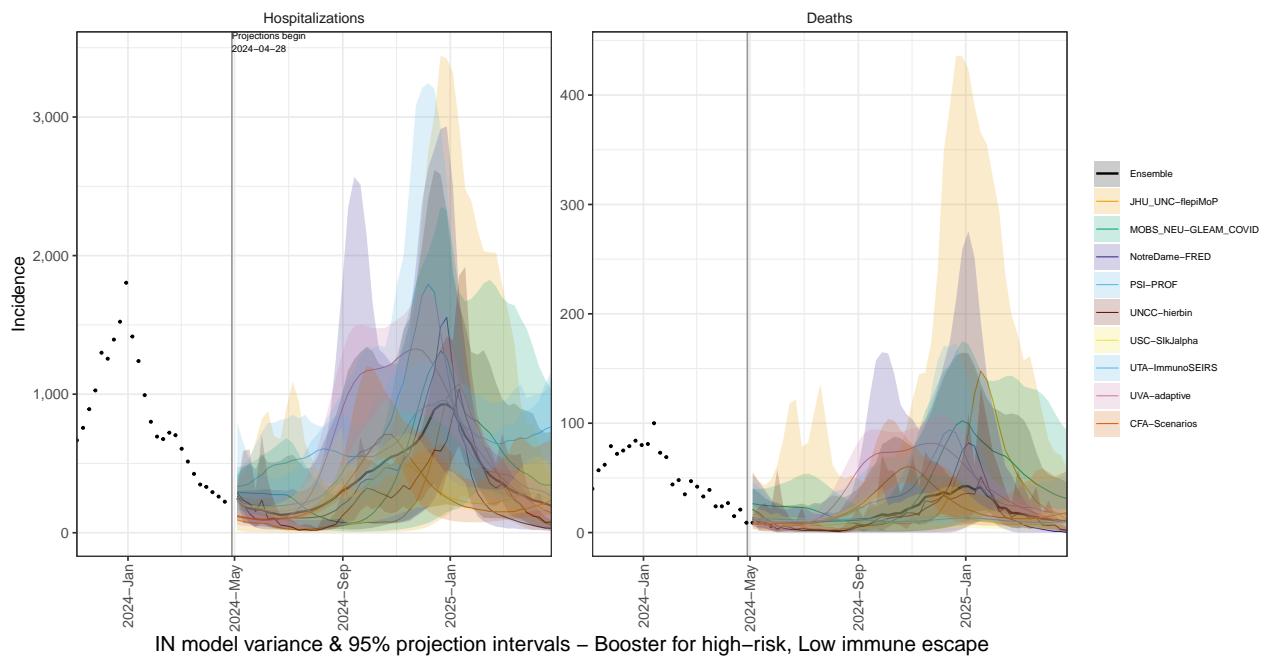
HI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



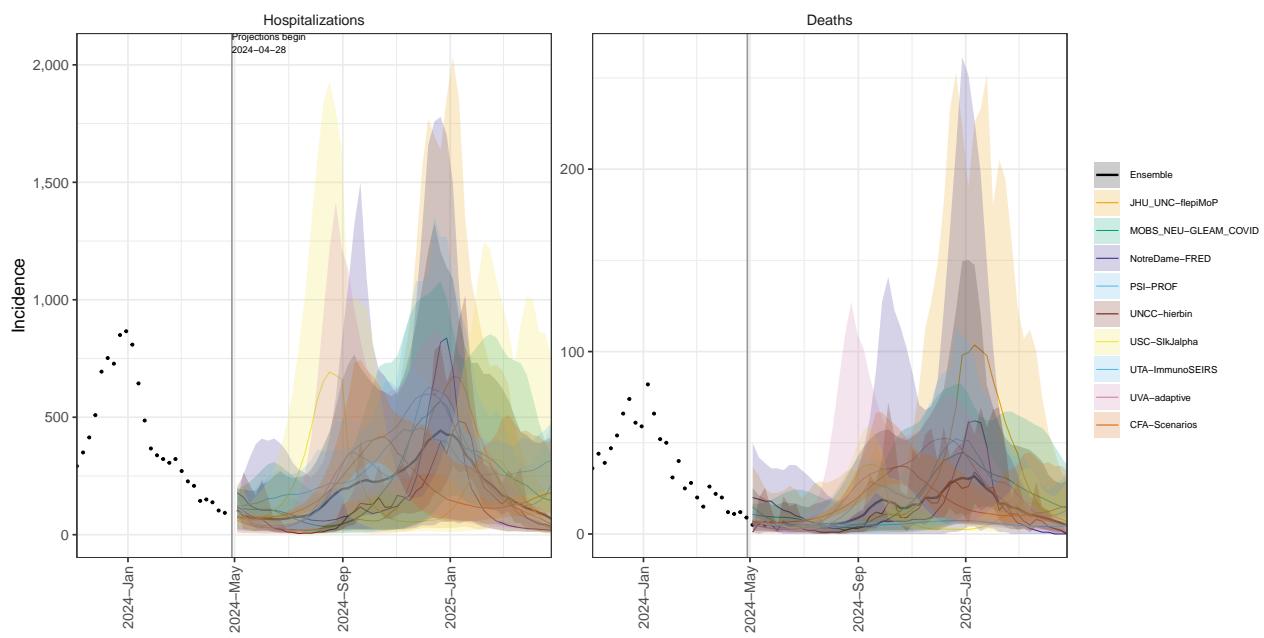
ID model variance & 95% projection intervals – Booster for high-risk, Low immune escape



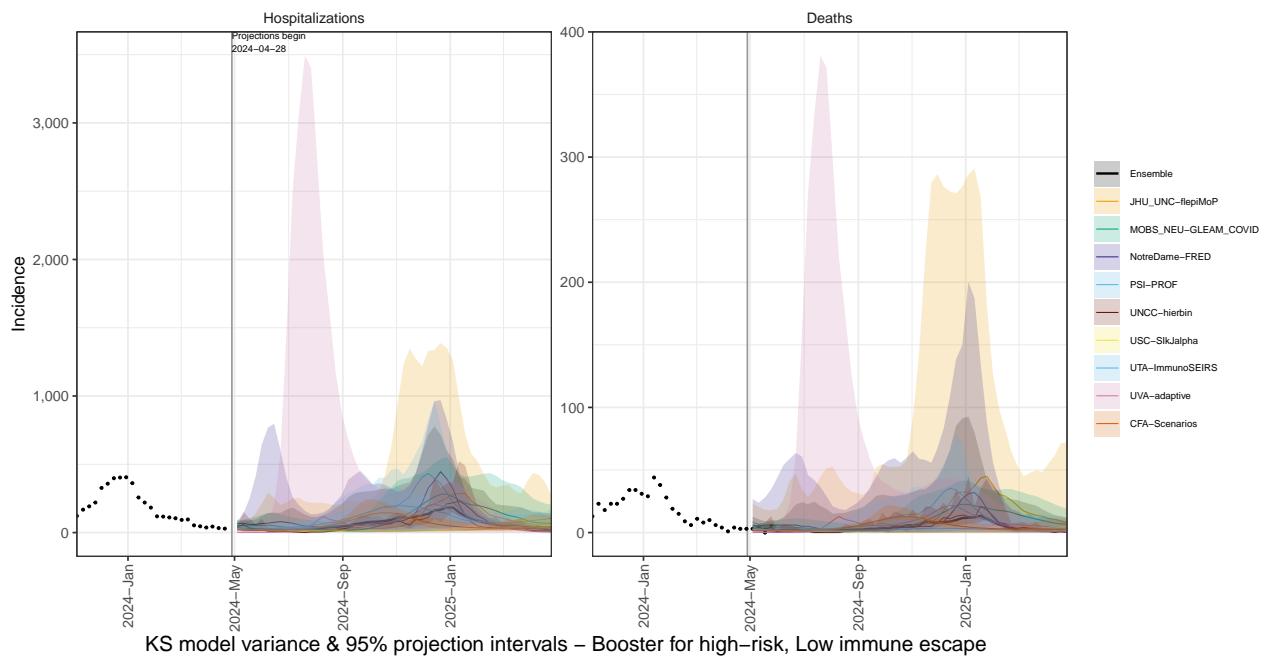
IL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



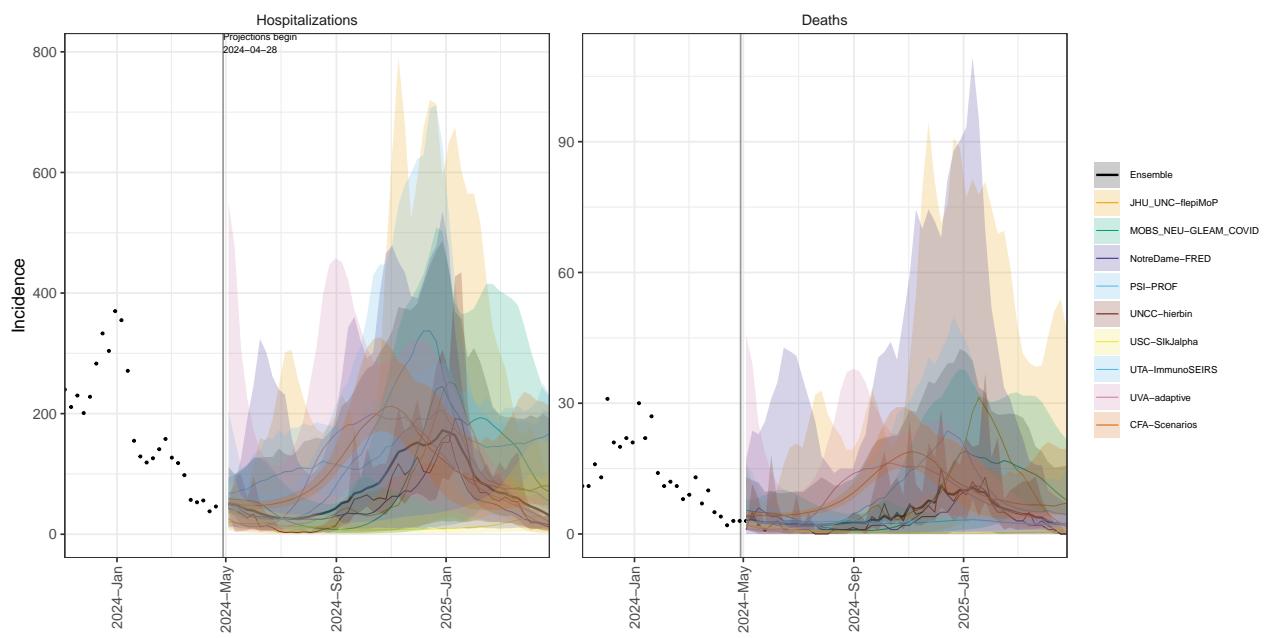
IN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



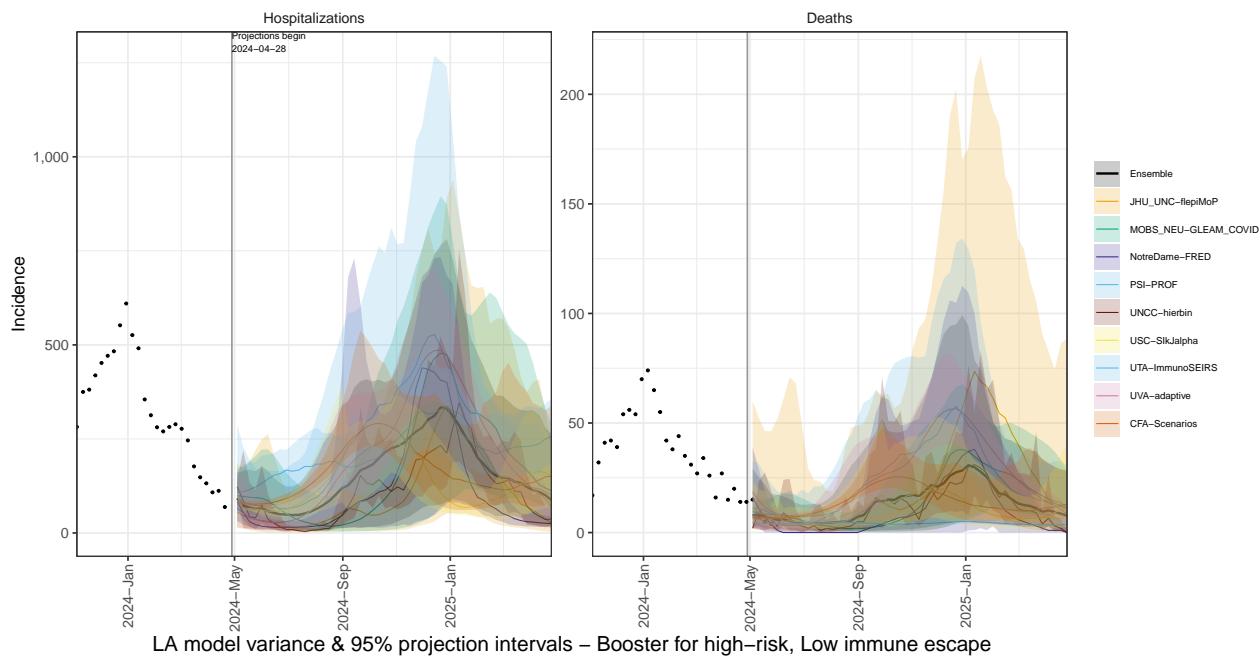
IA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



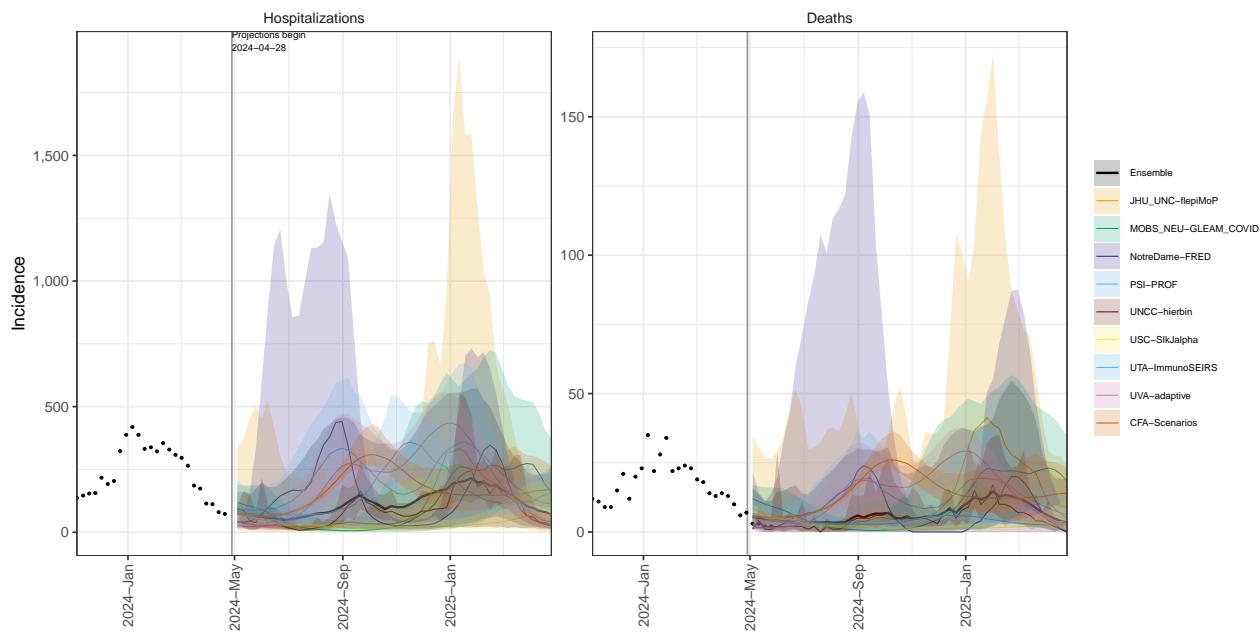
KS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



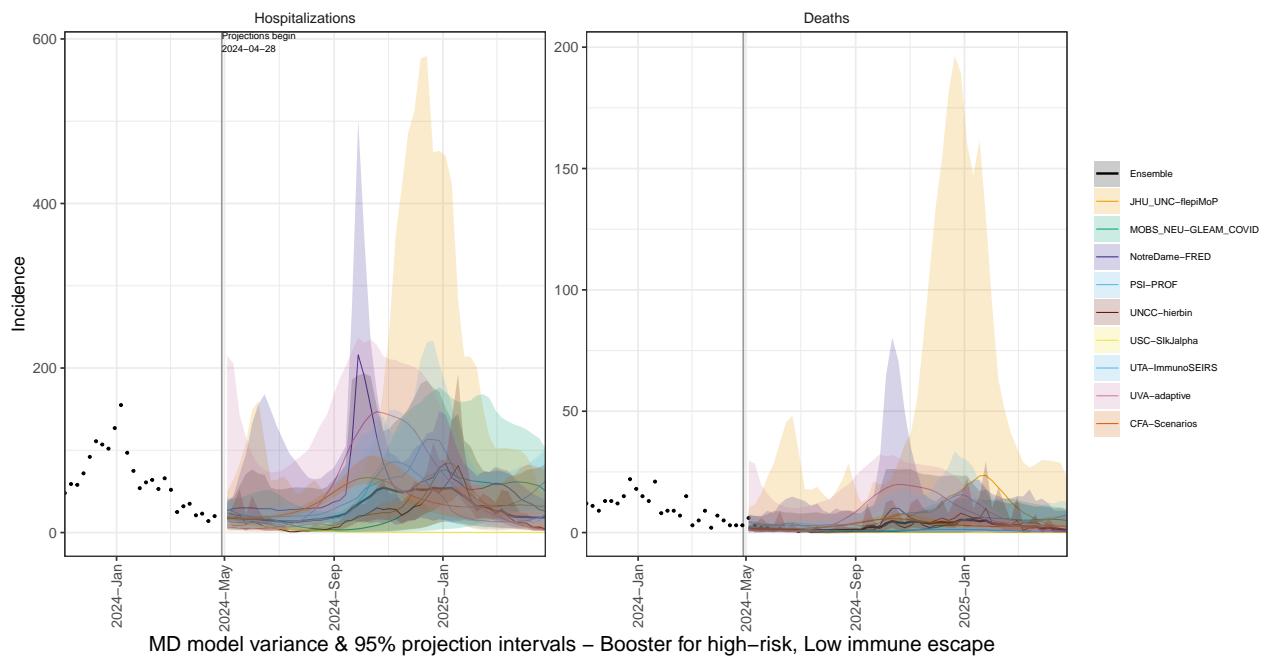
KY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



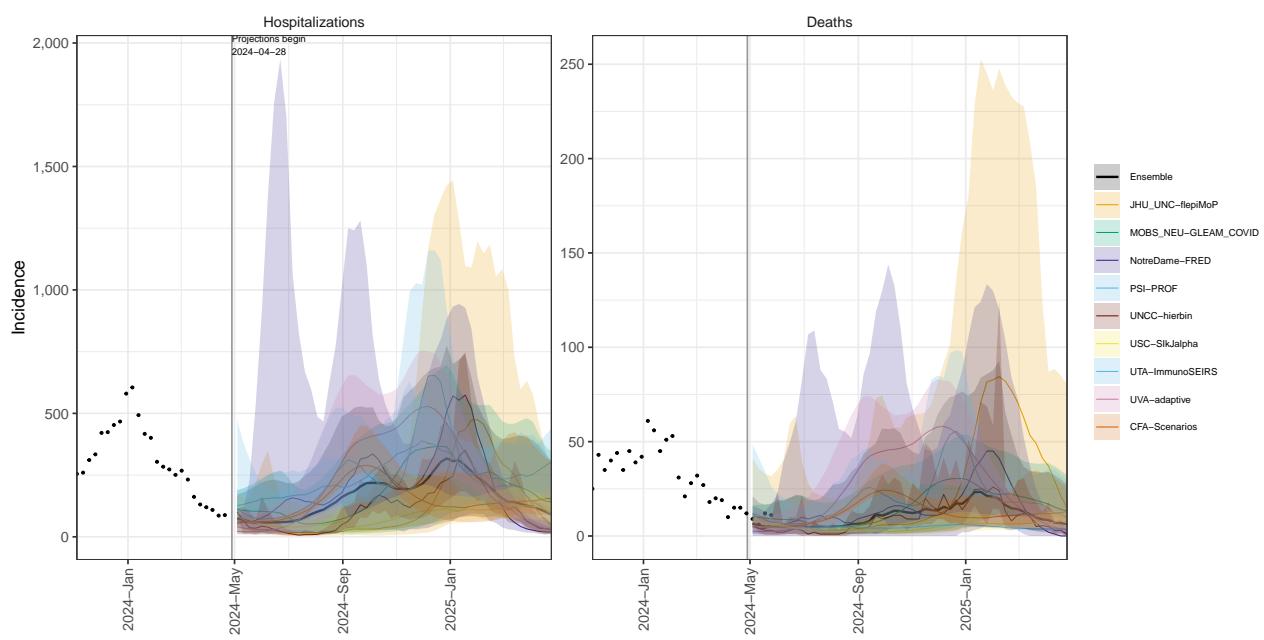
LA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



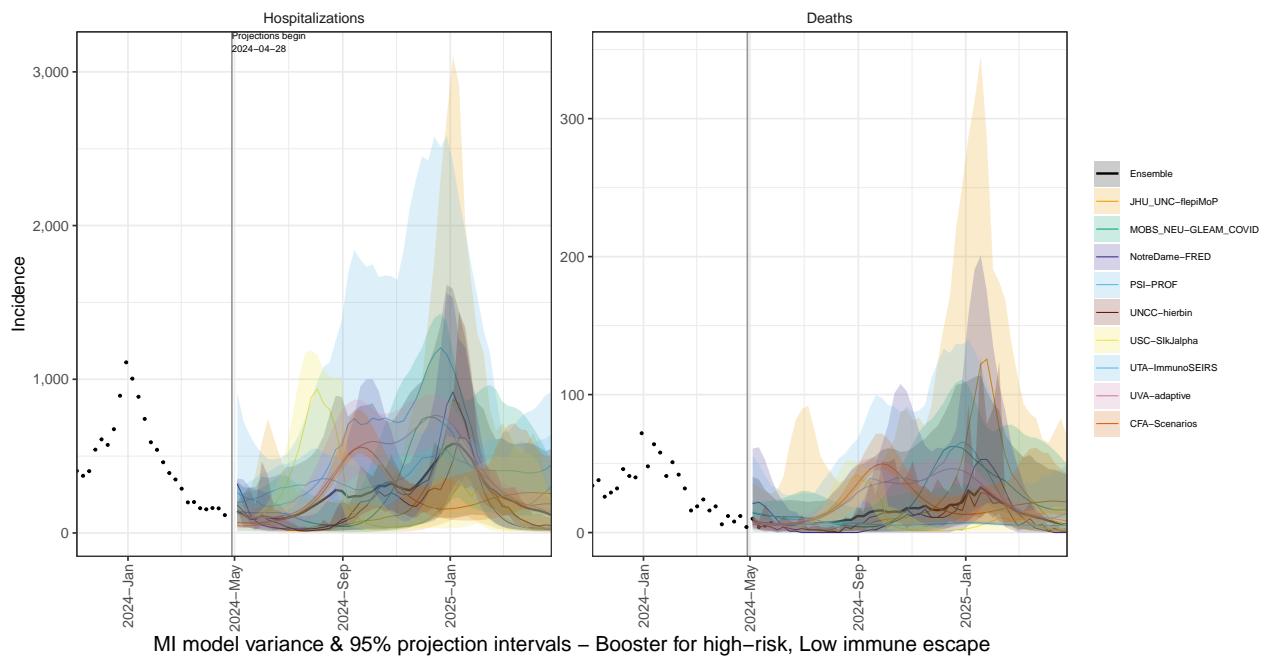
ME model variance & 95% projection intervals – Booster for high-risk, Low immune escape



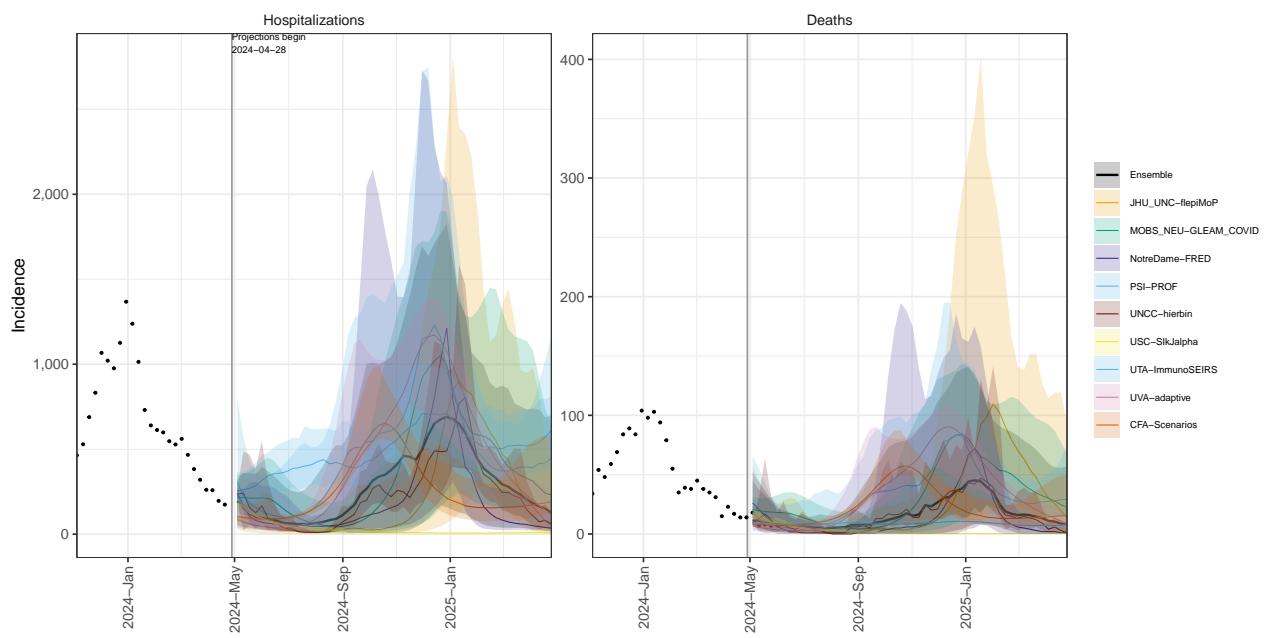
MD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



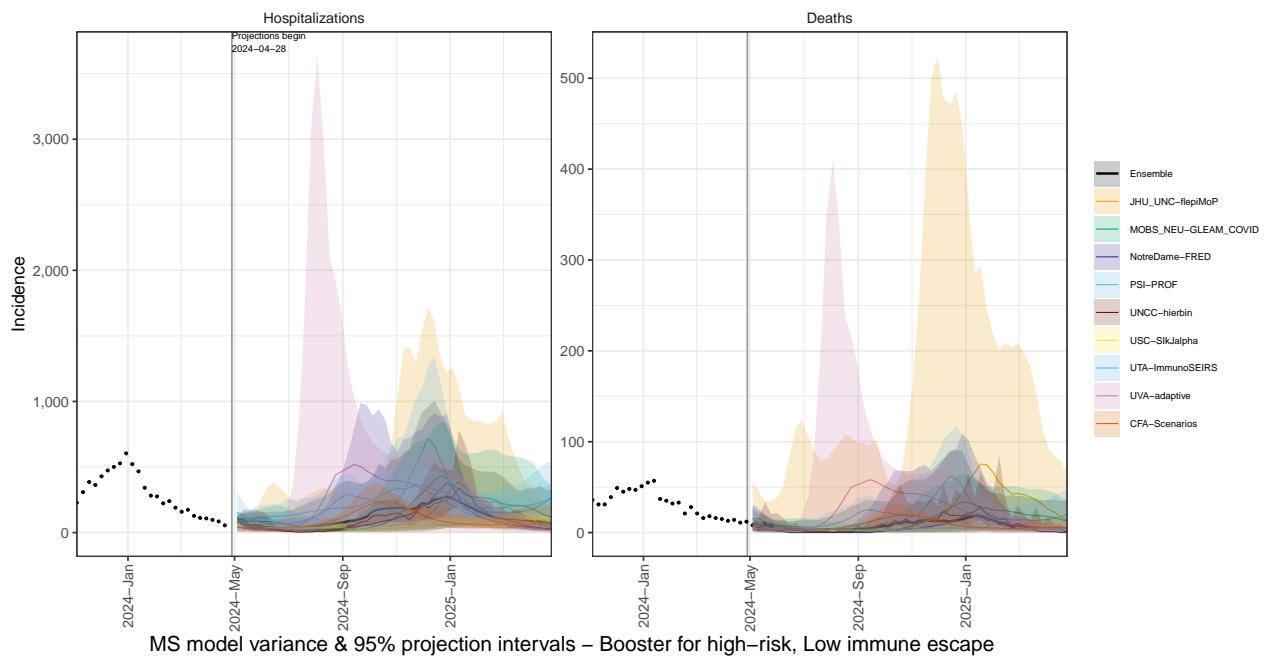
MA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



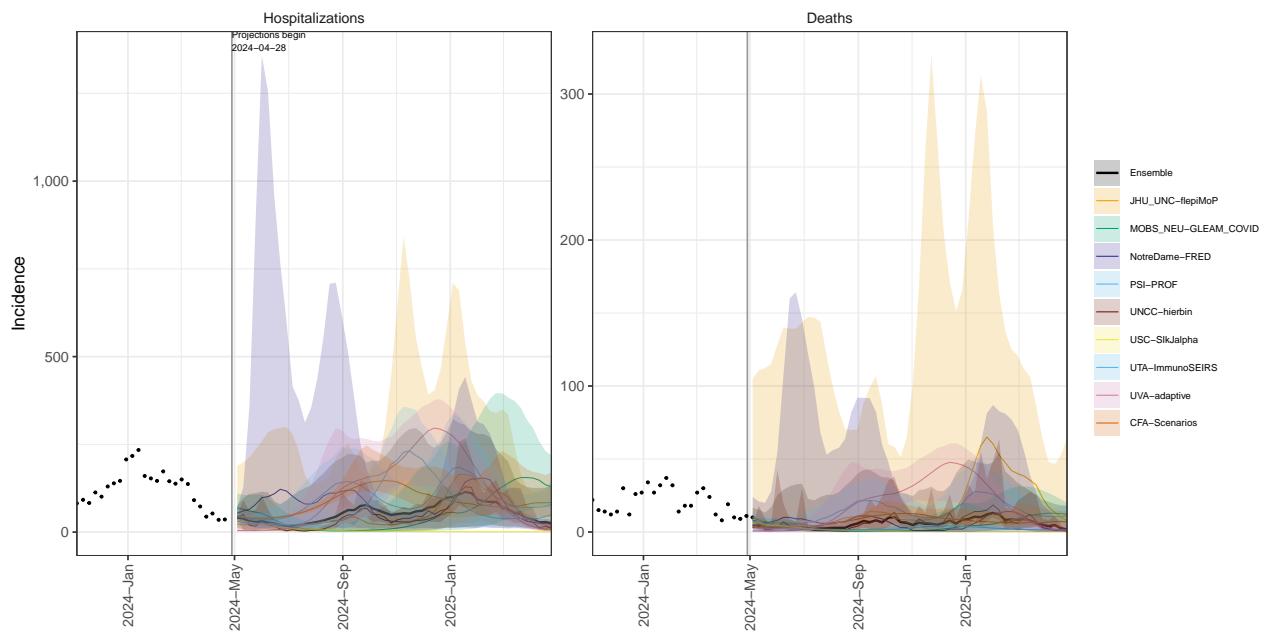
MI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



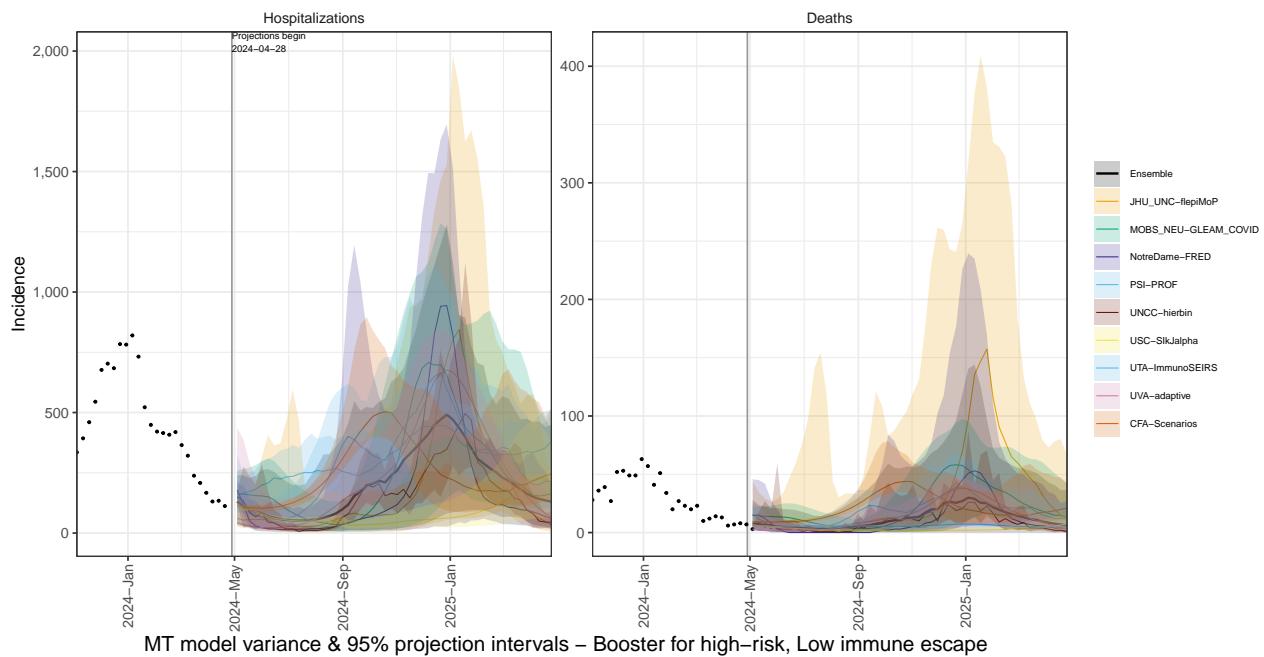
MN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



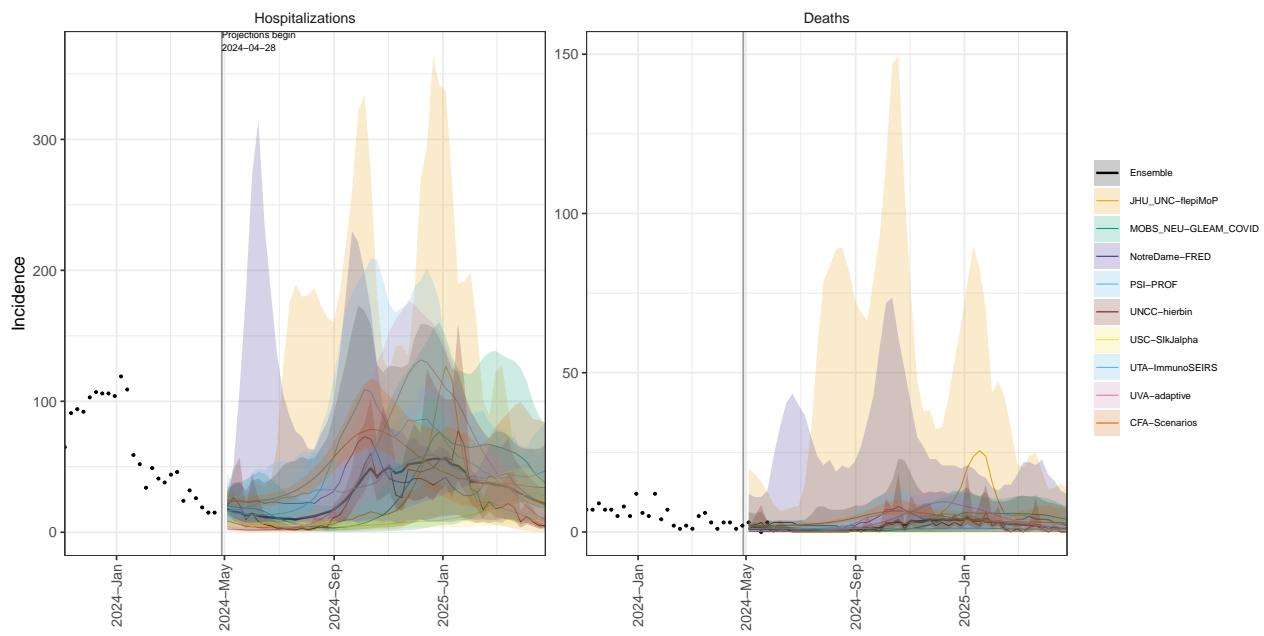
MS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



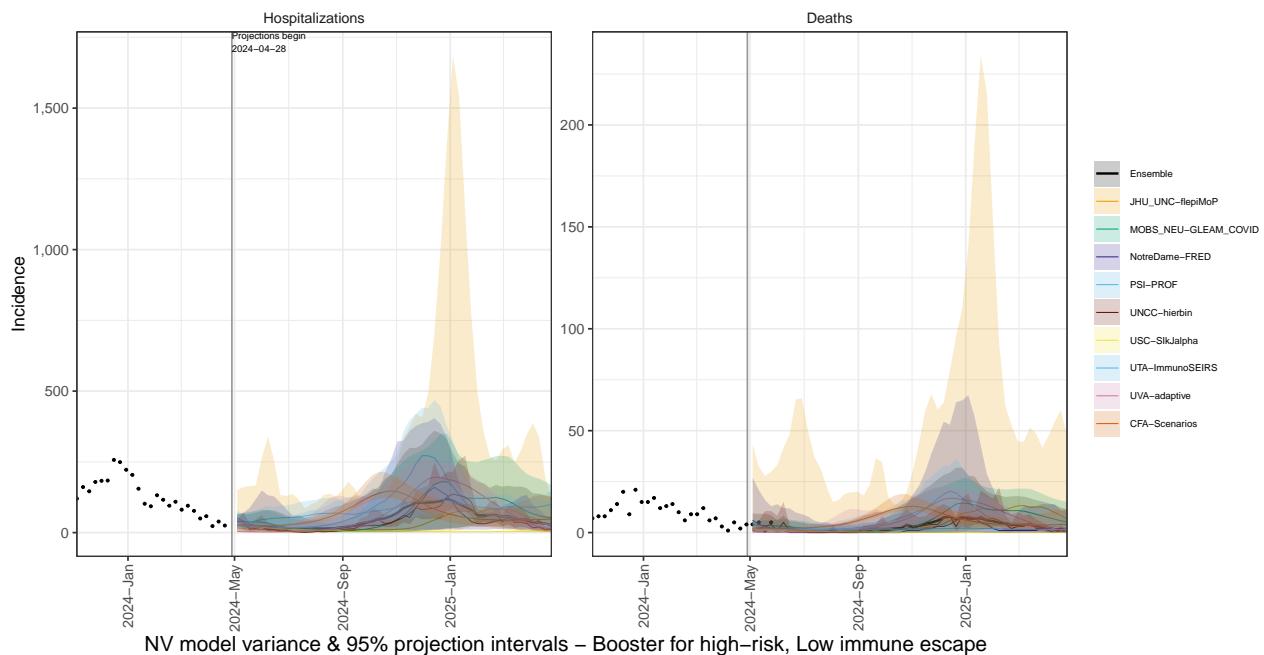
MO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



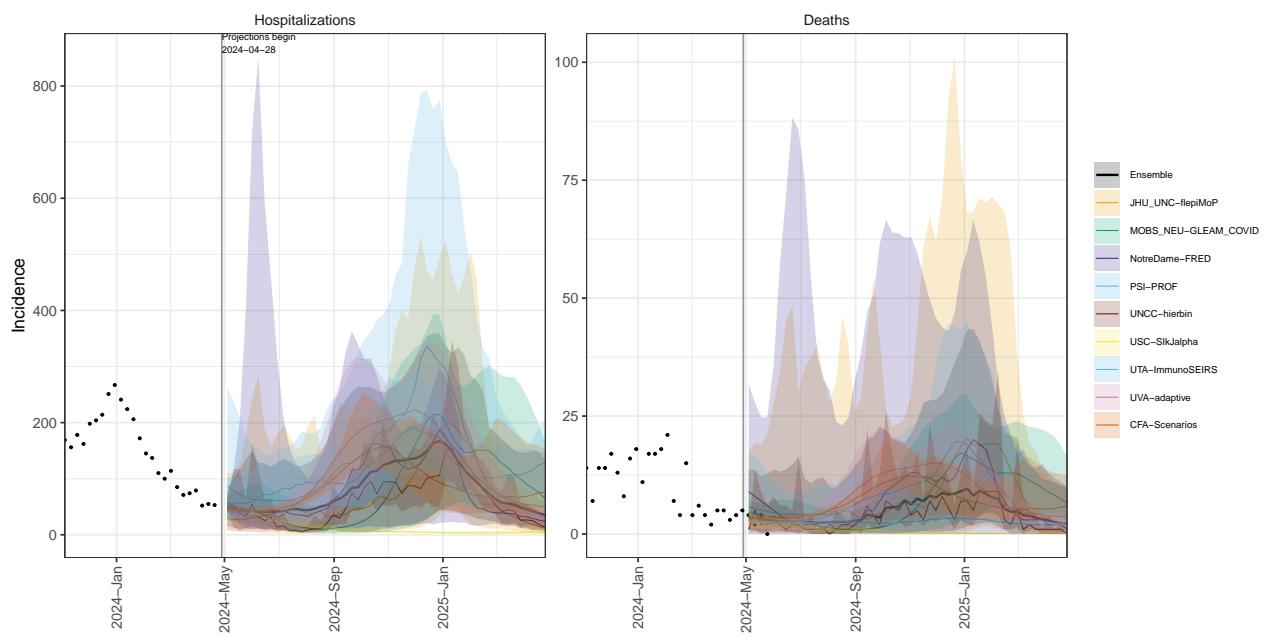
MT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



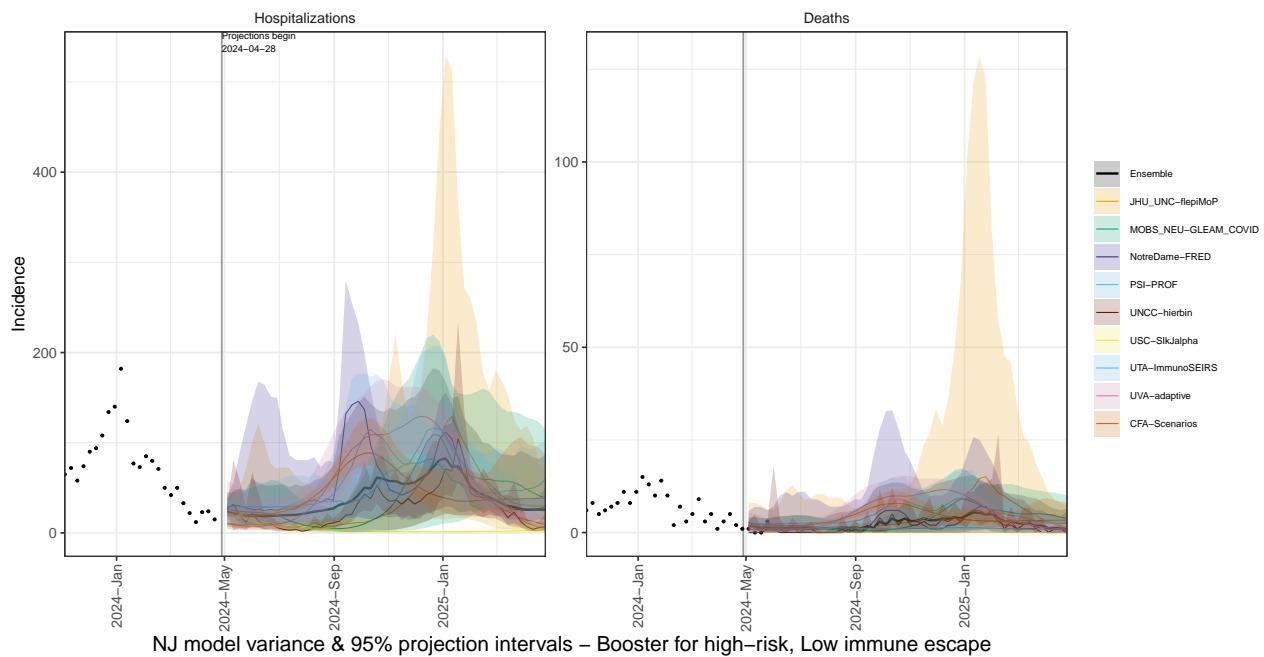
NE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



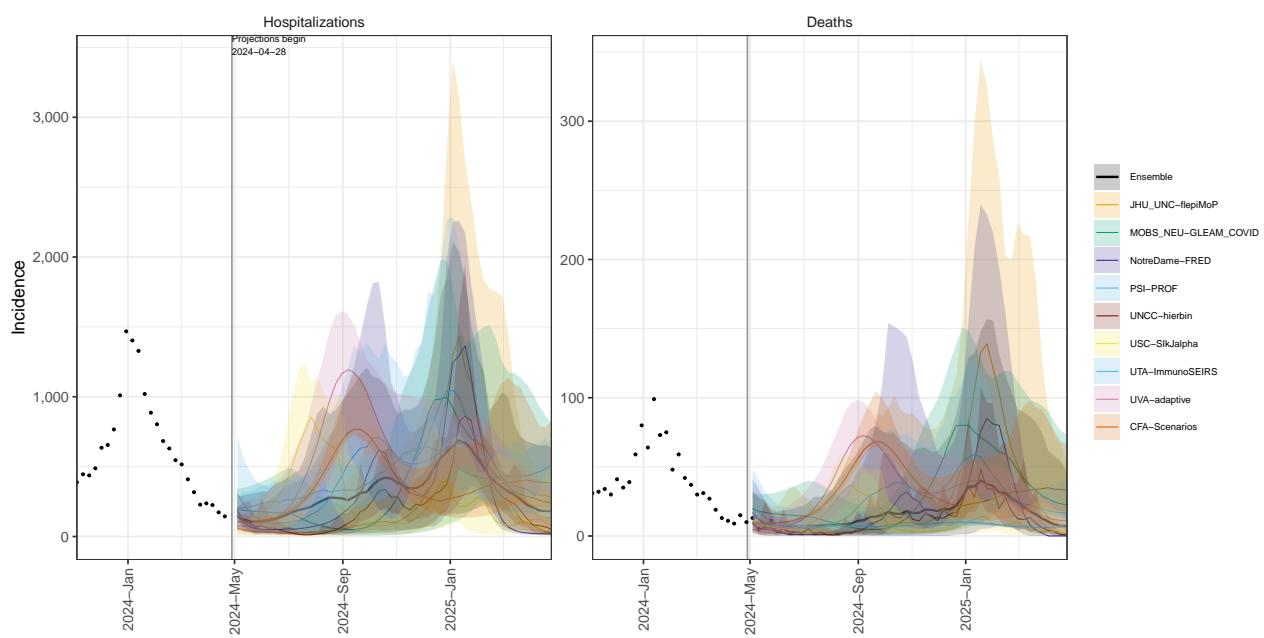
NV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



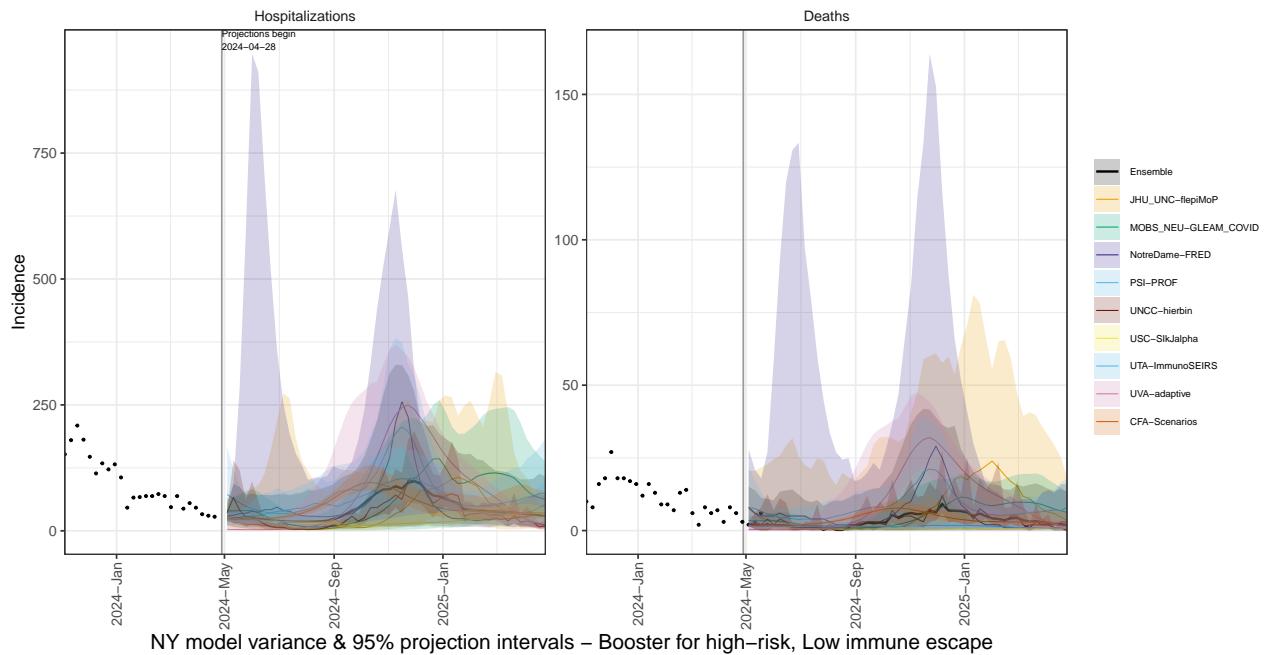
NH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



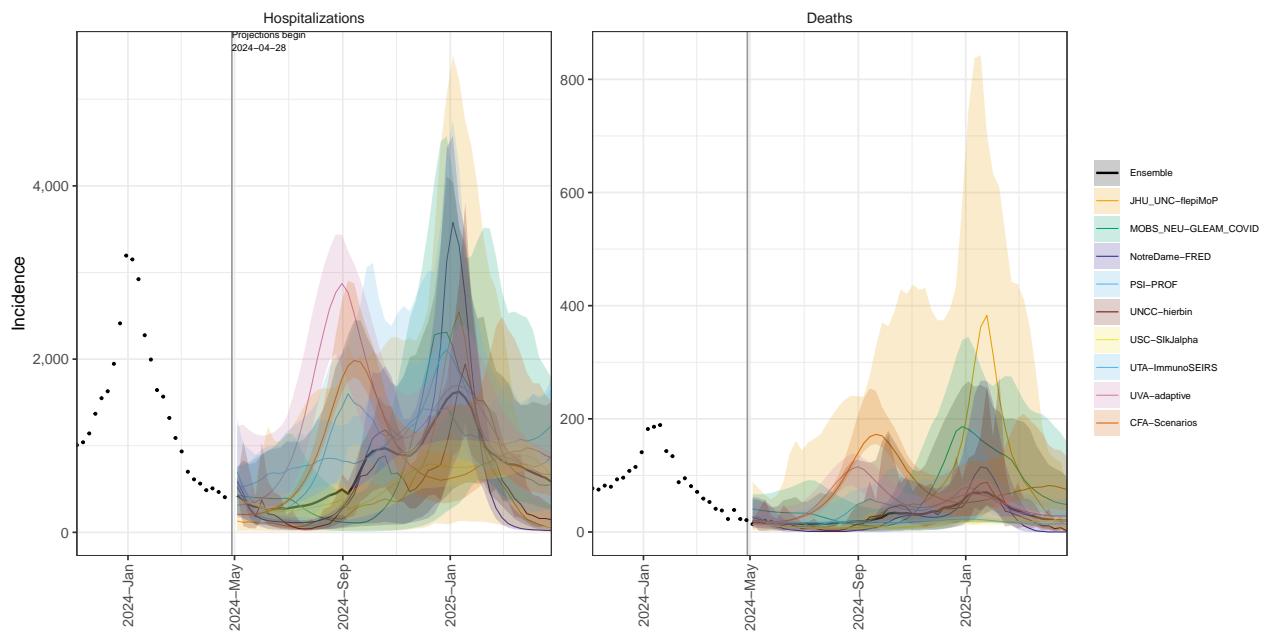
NJ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



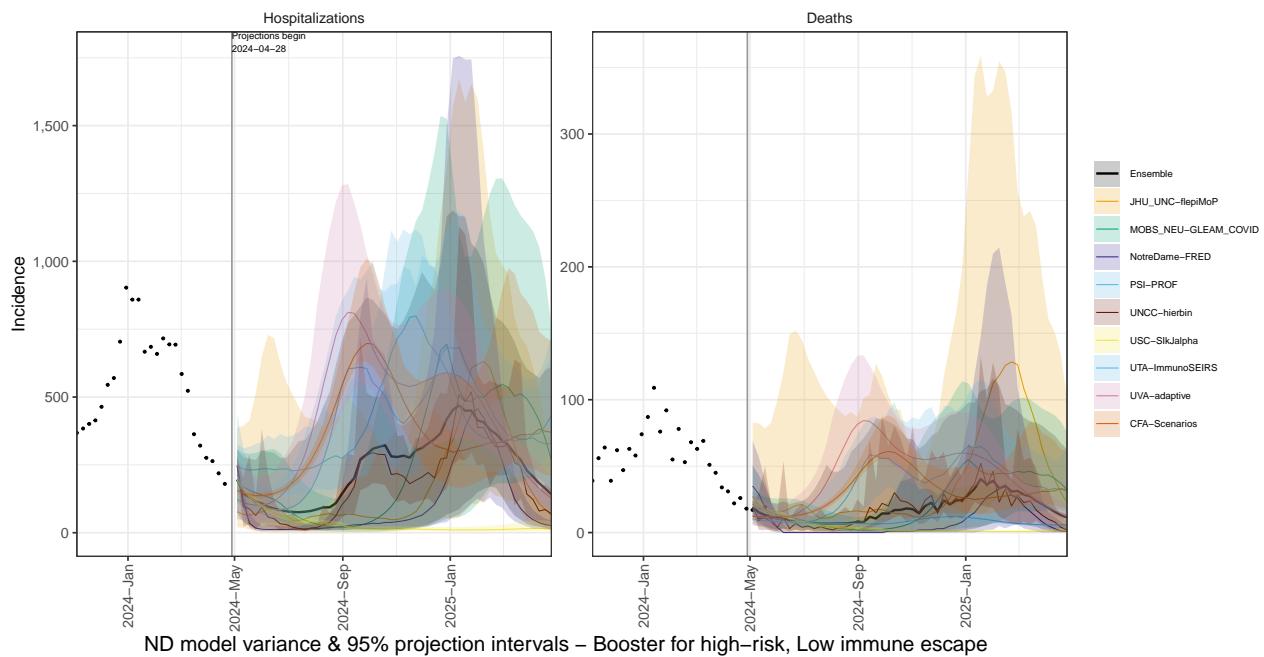
NM model variance & 95% projection intervals – Booster for high-risk, Low immune escape



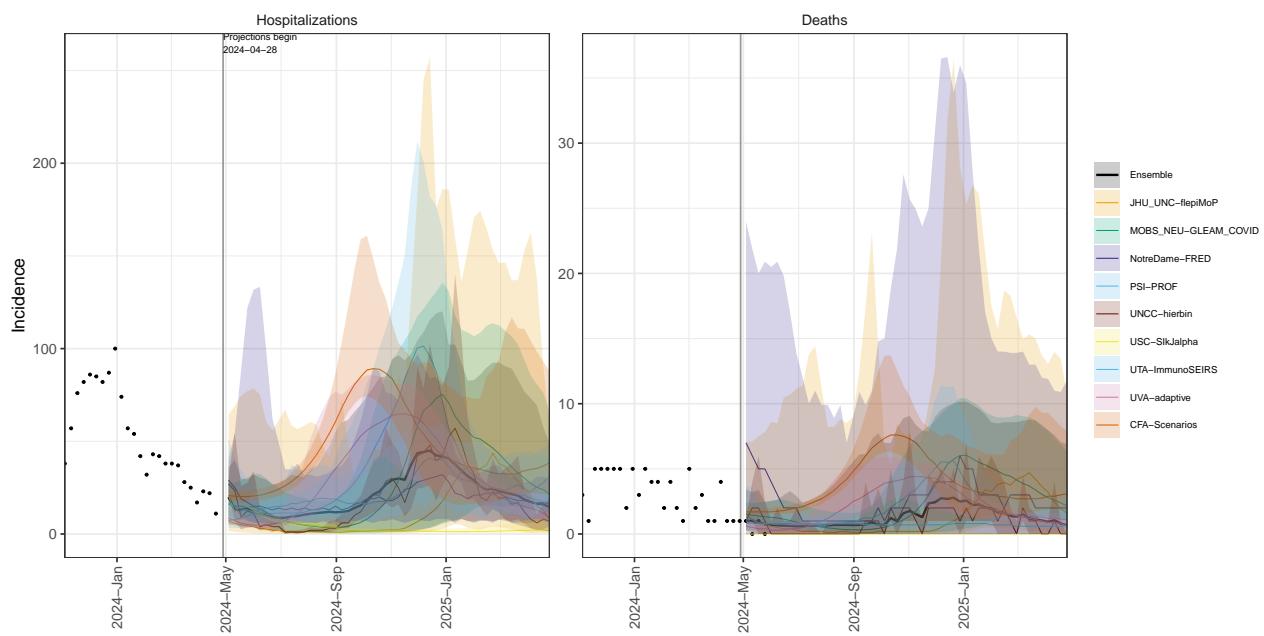
NY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



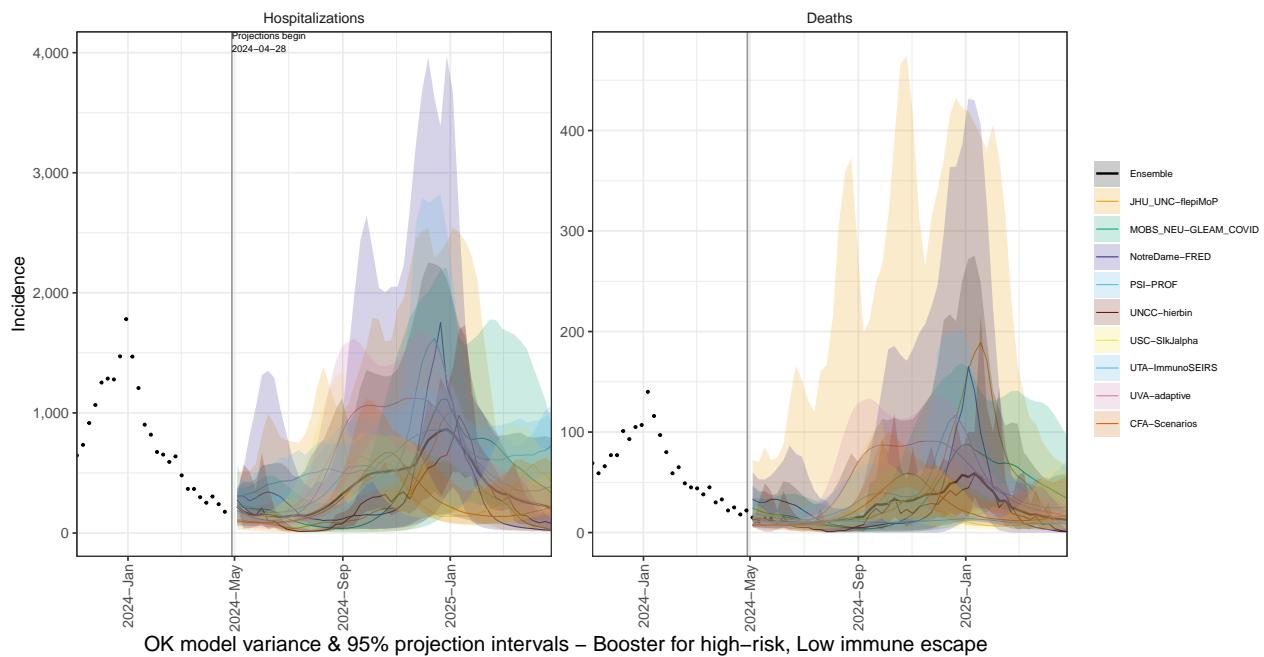
NC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



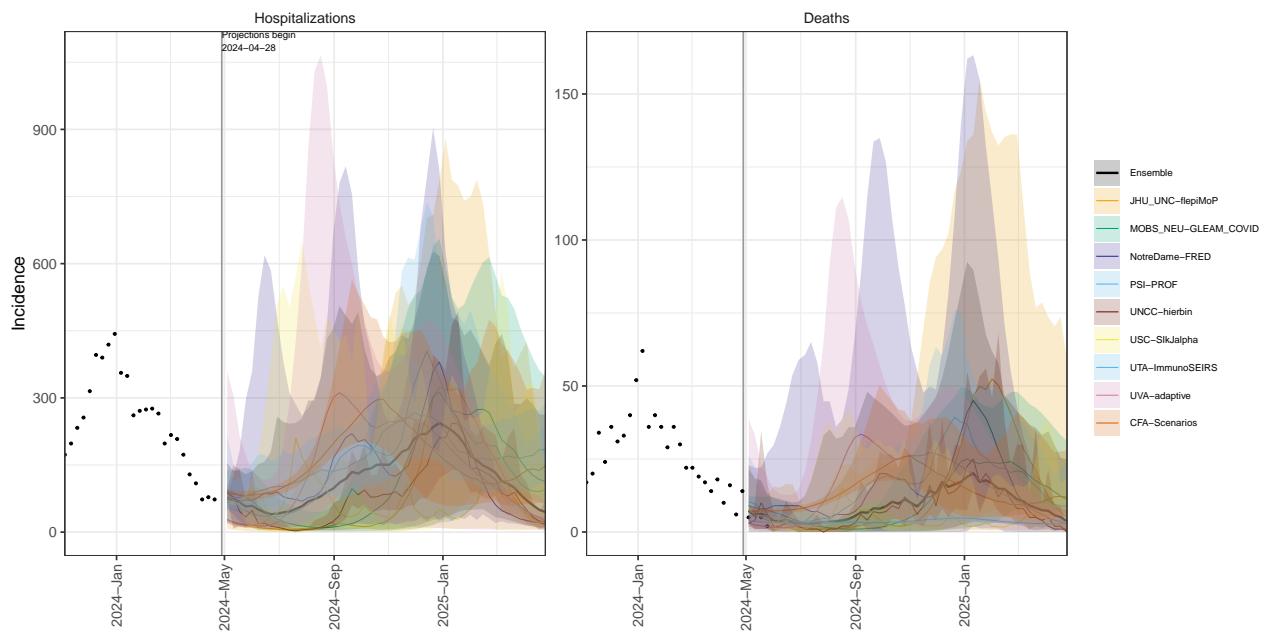
ND model variance & 95% projection intervals – Booster for high-risk, Low immune escape



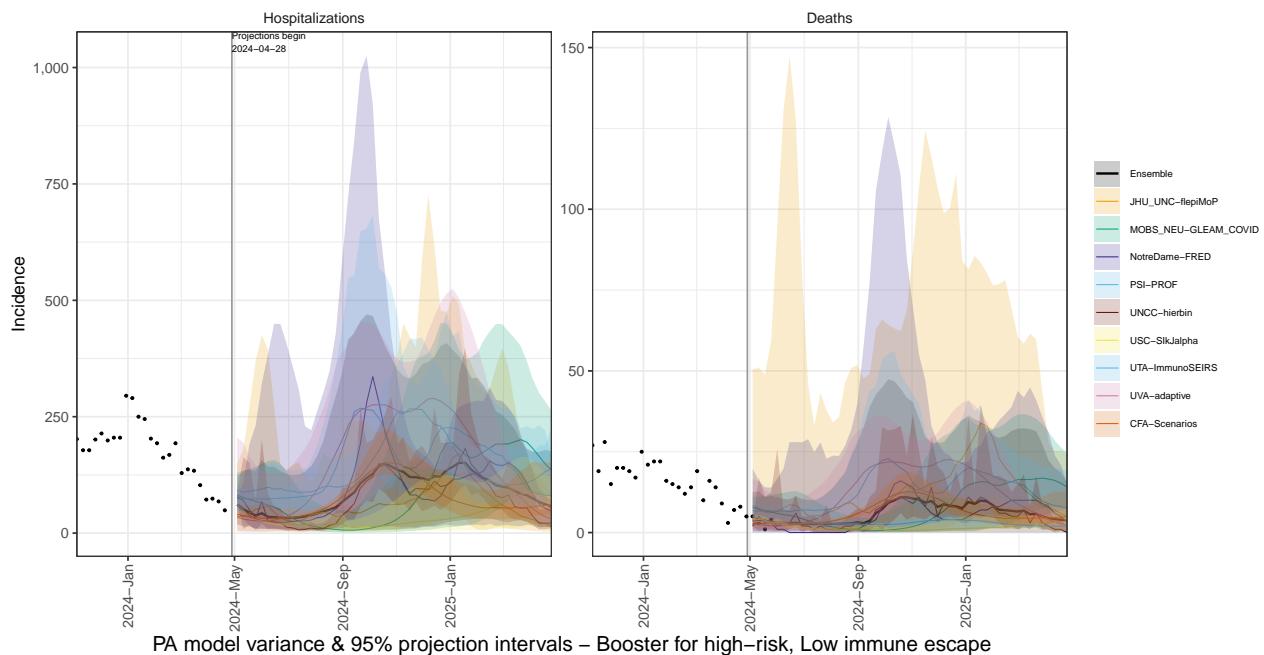
OH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



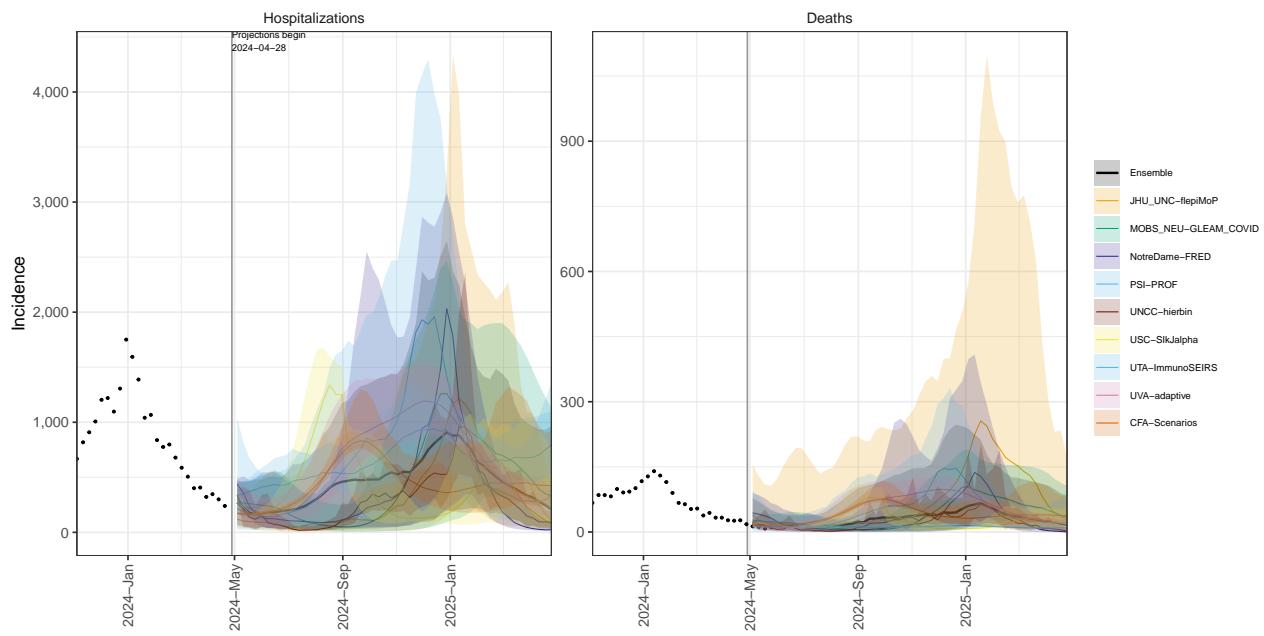
OK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



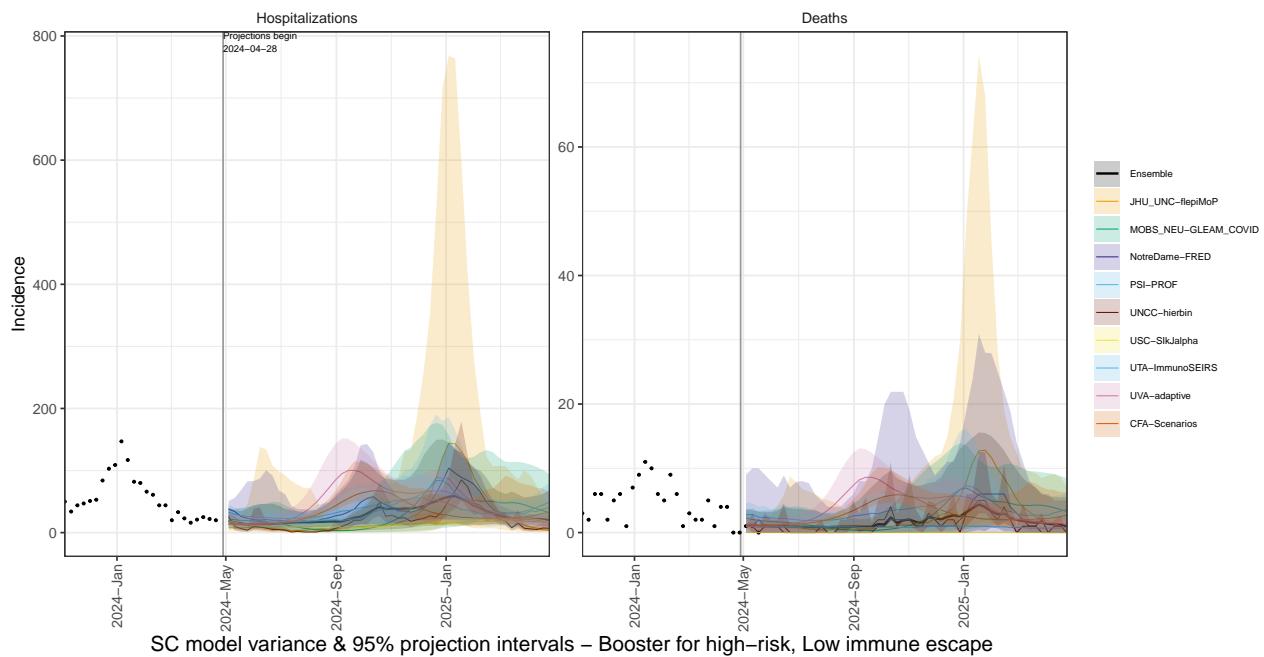
OR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



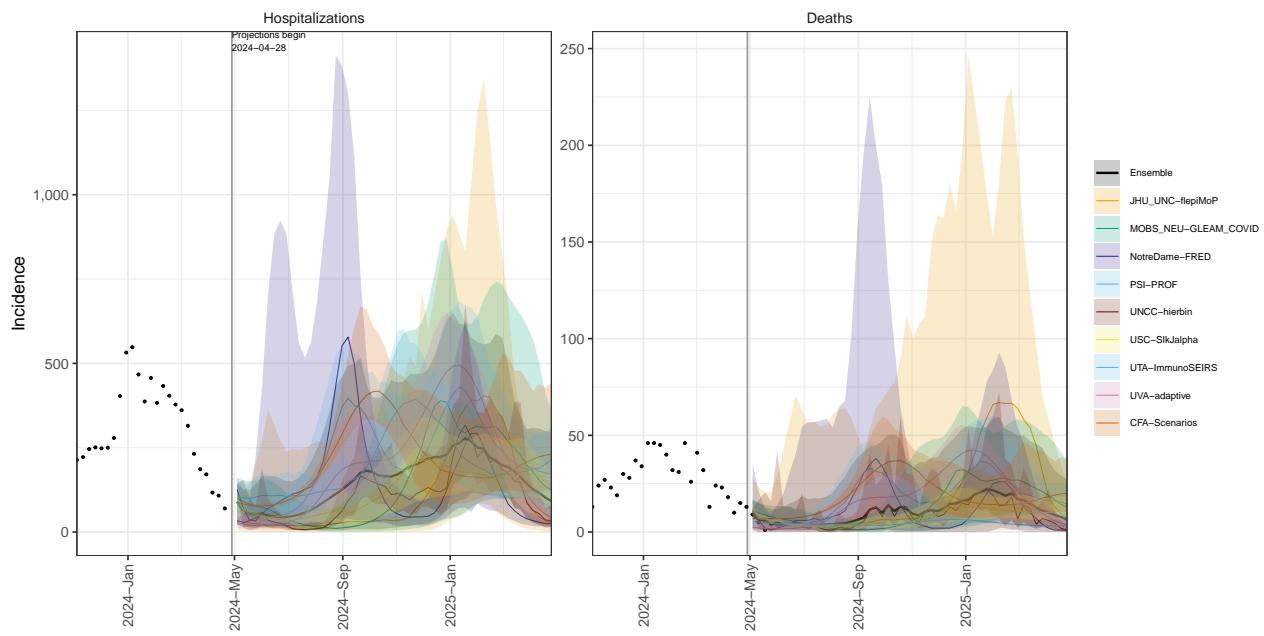
PA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



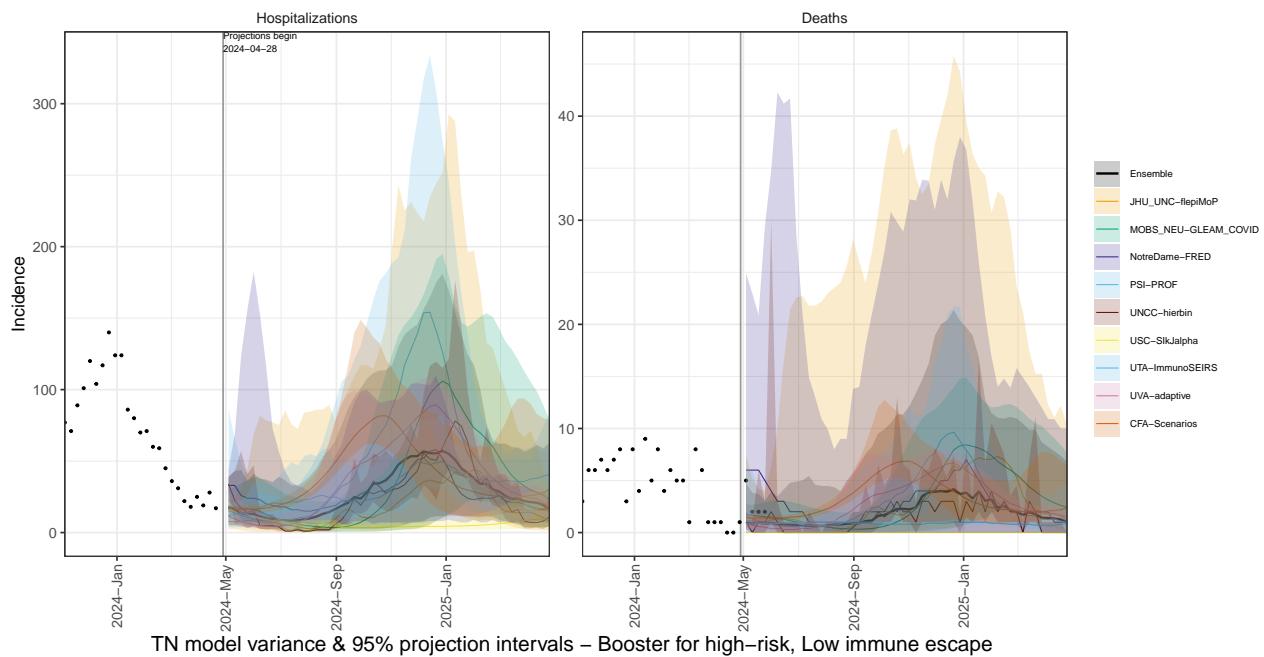
RI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



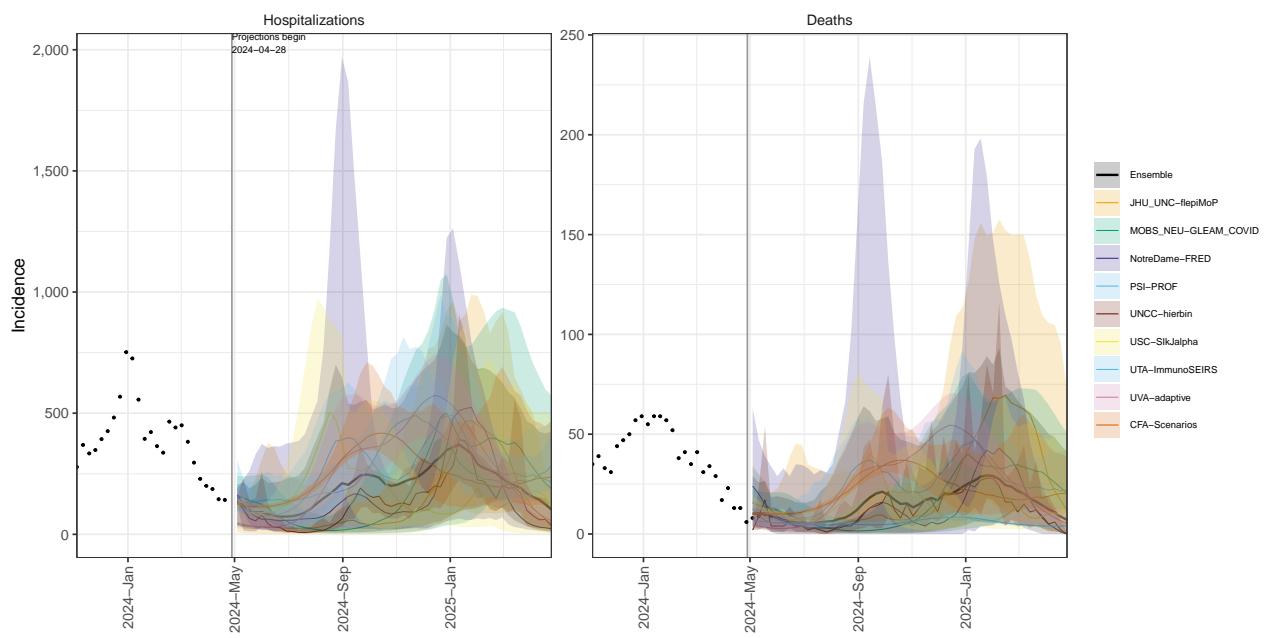
SC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



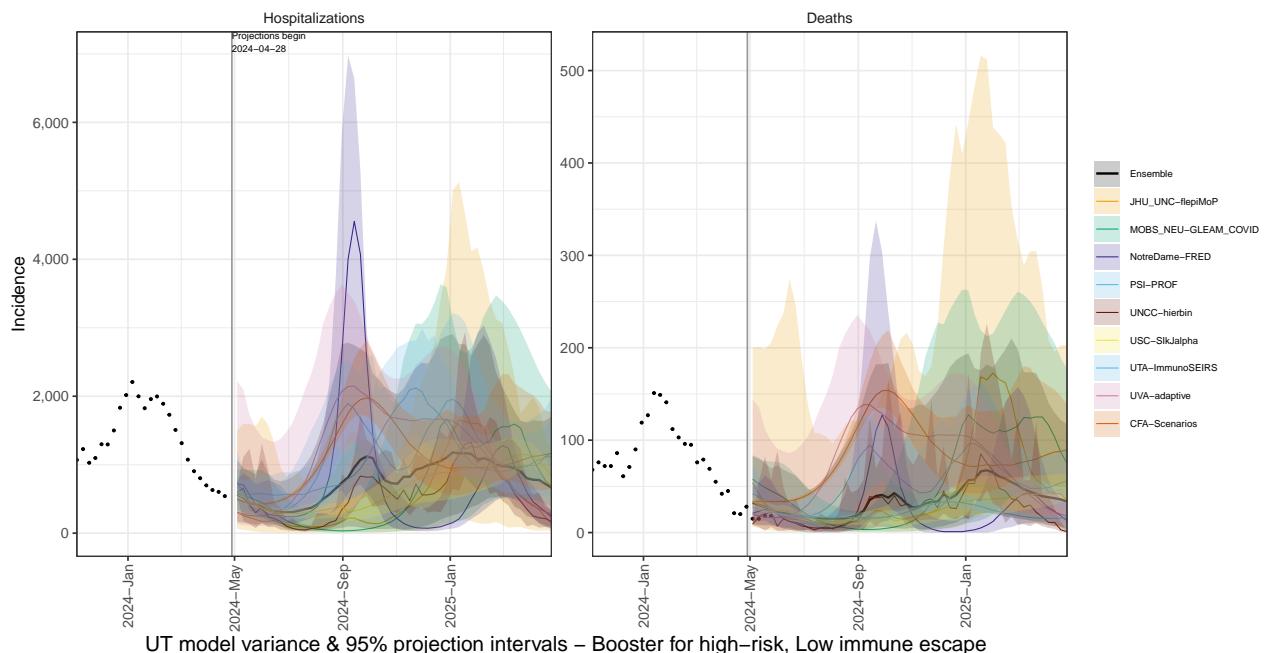
SD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



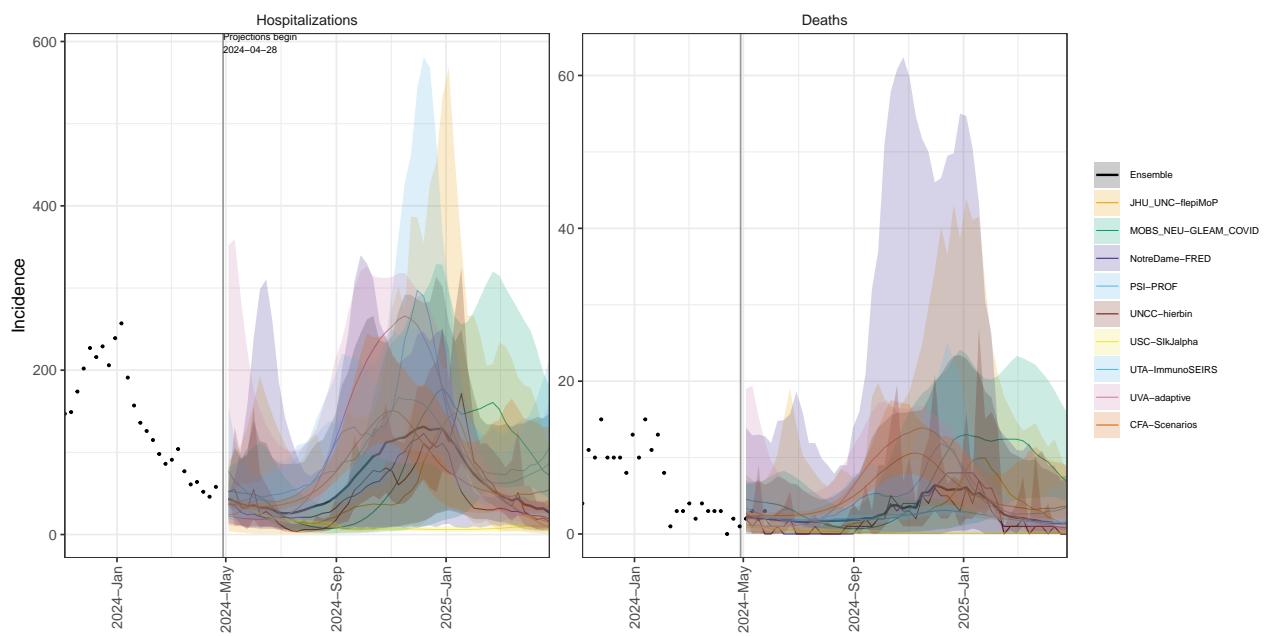
TN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



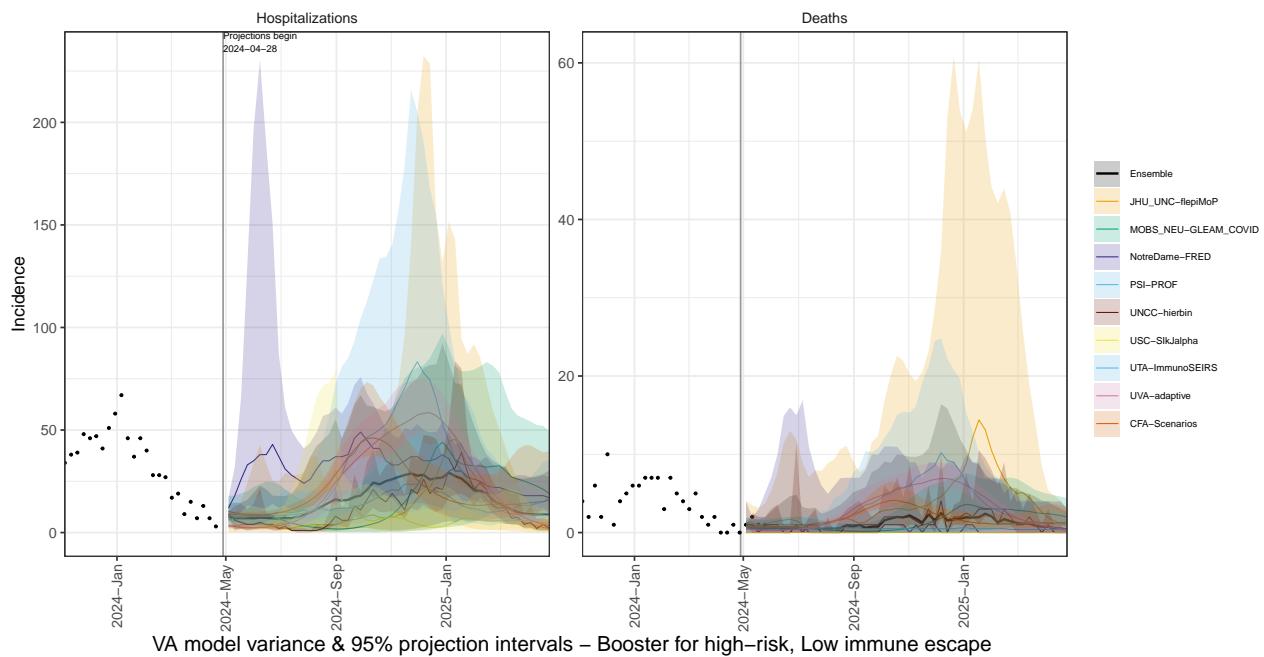
TX model variance & 95% projection intervals – Booster for high-risk, Low immune escape



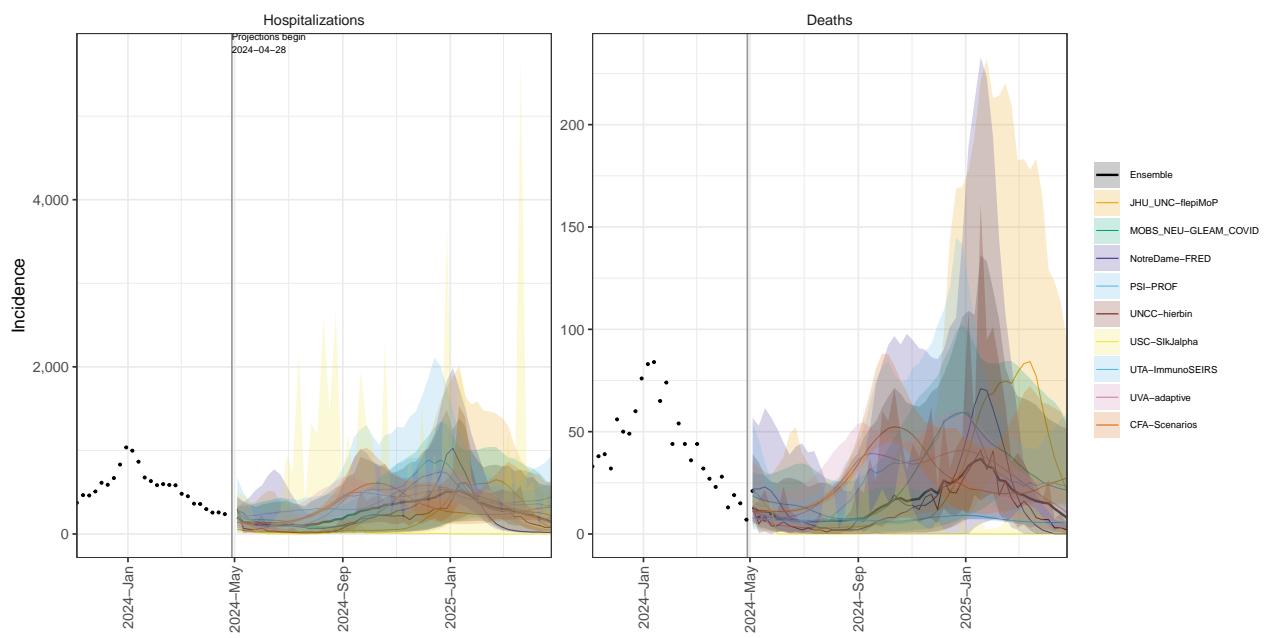
UT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



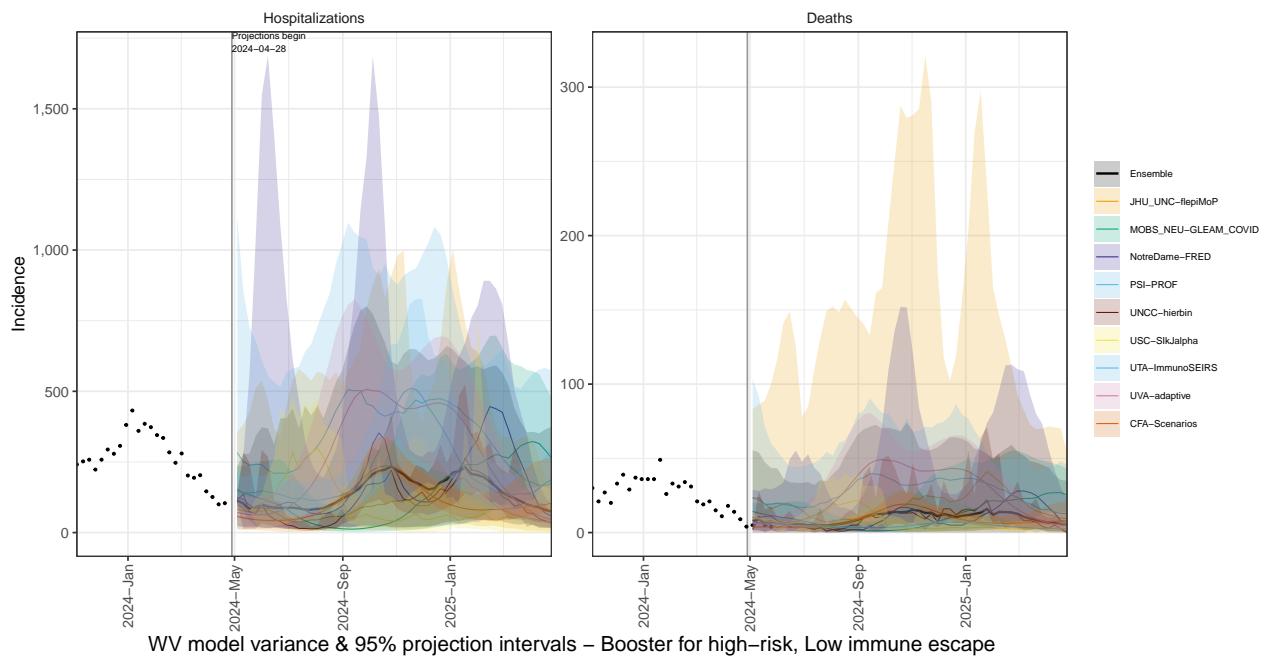
VT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



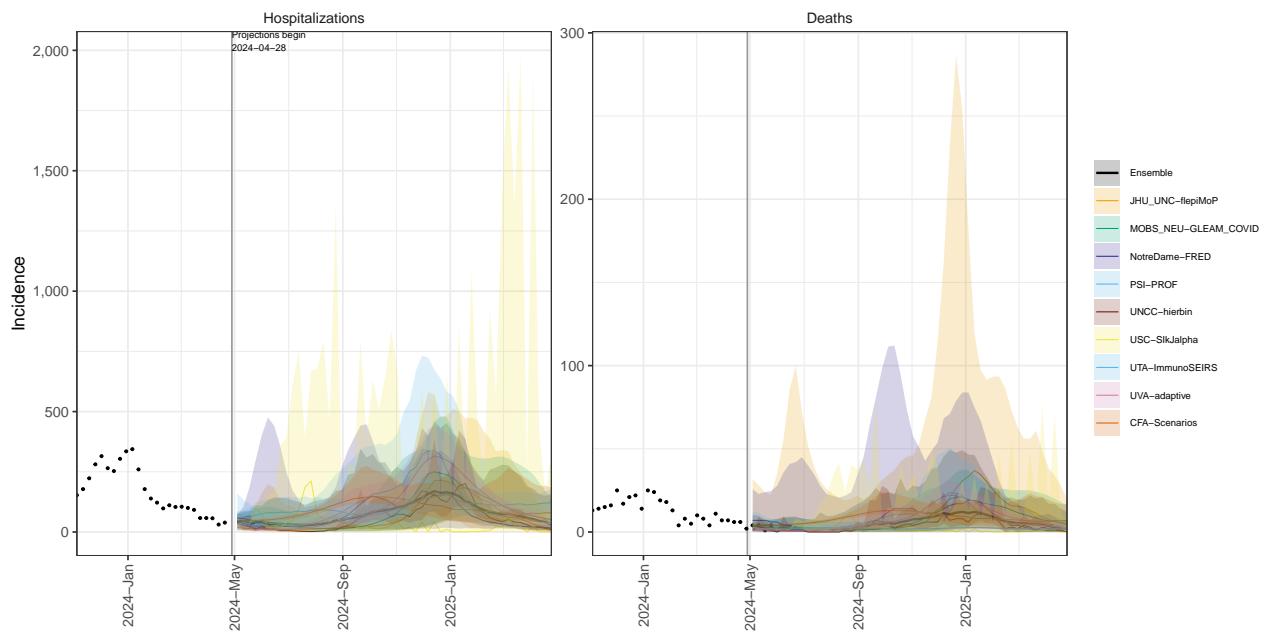
VA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



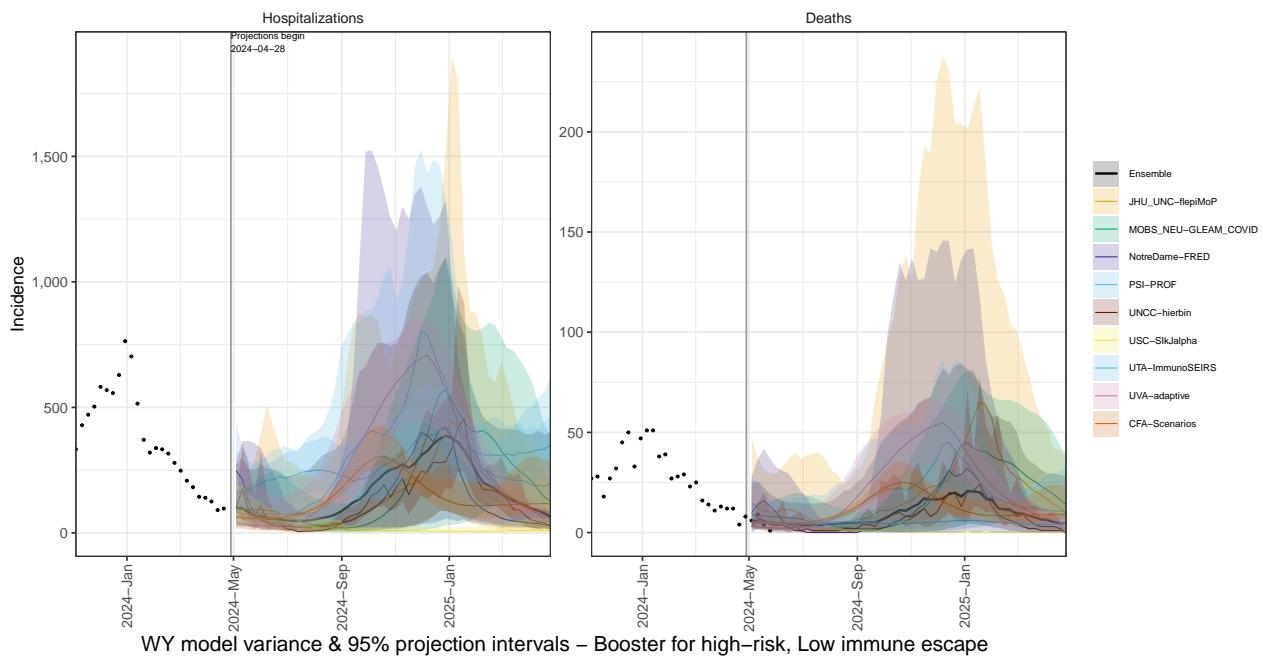
WA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



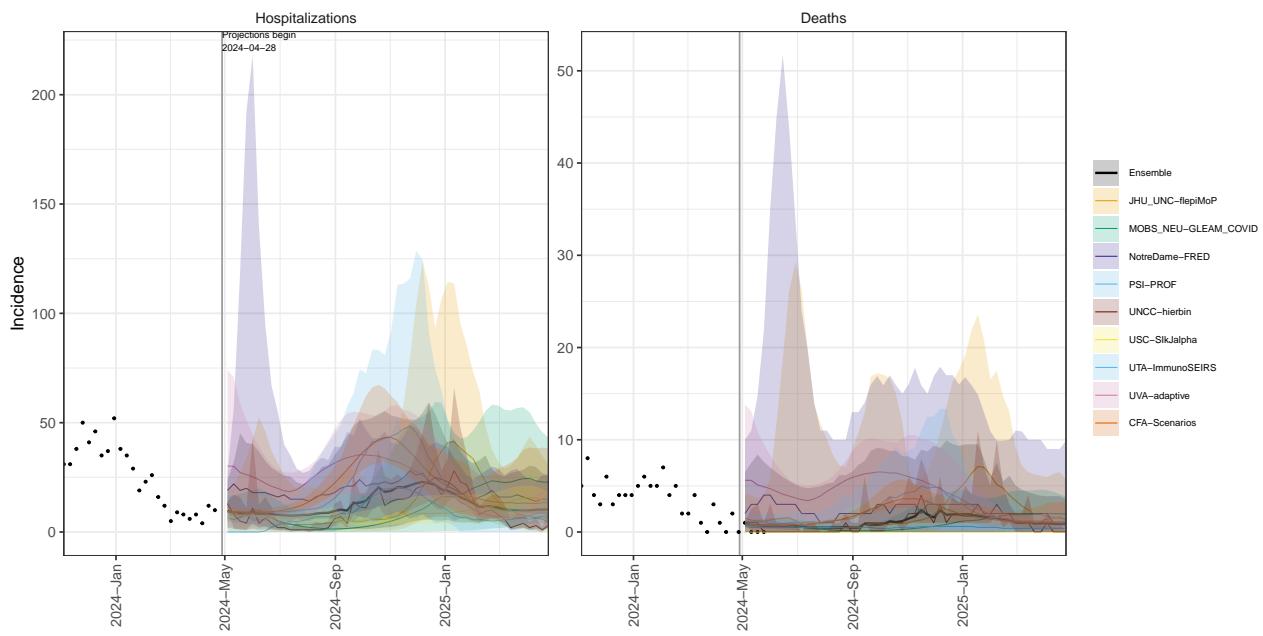
WV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



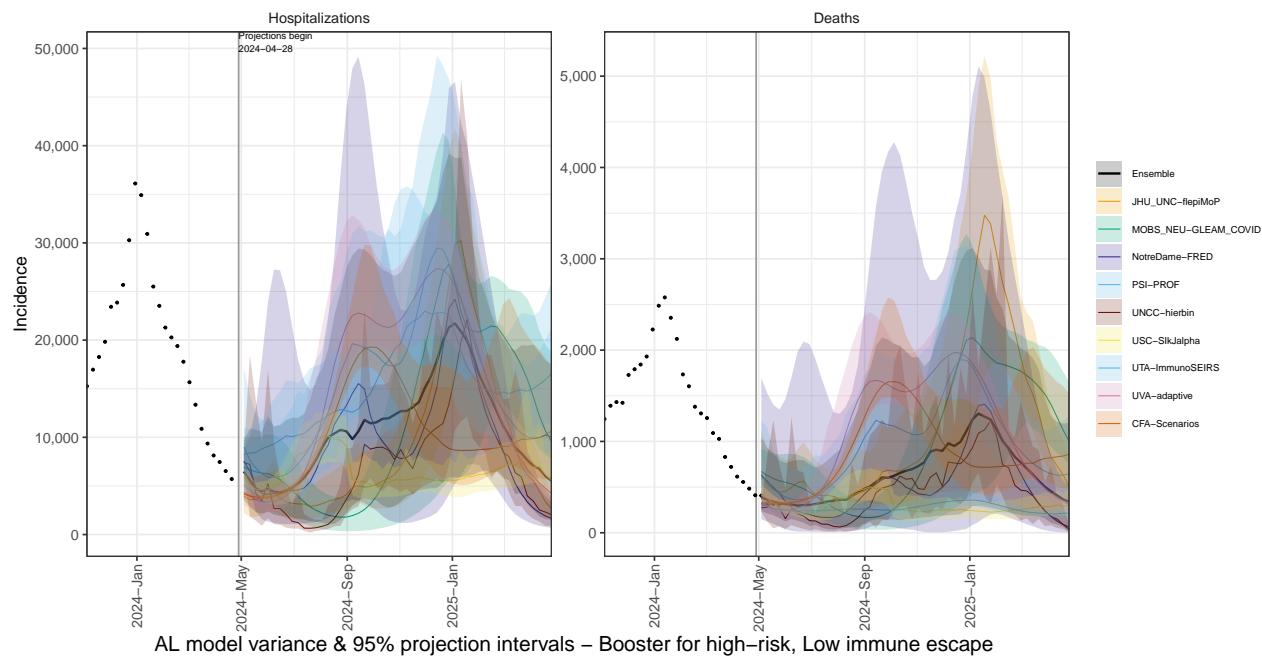
WI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



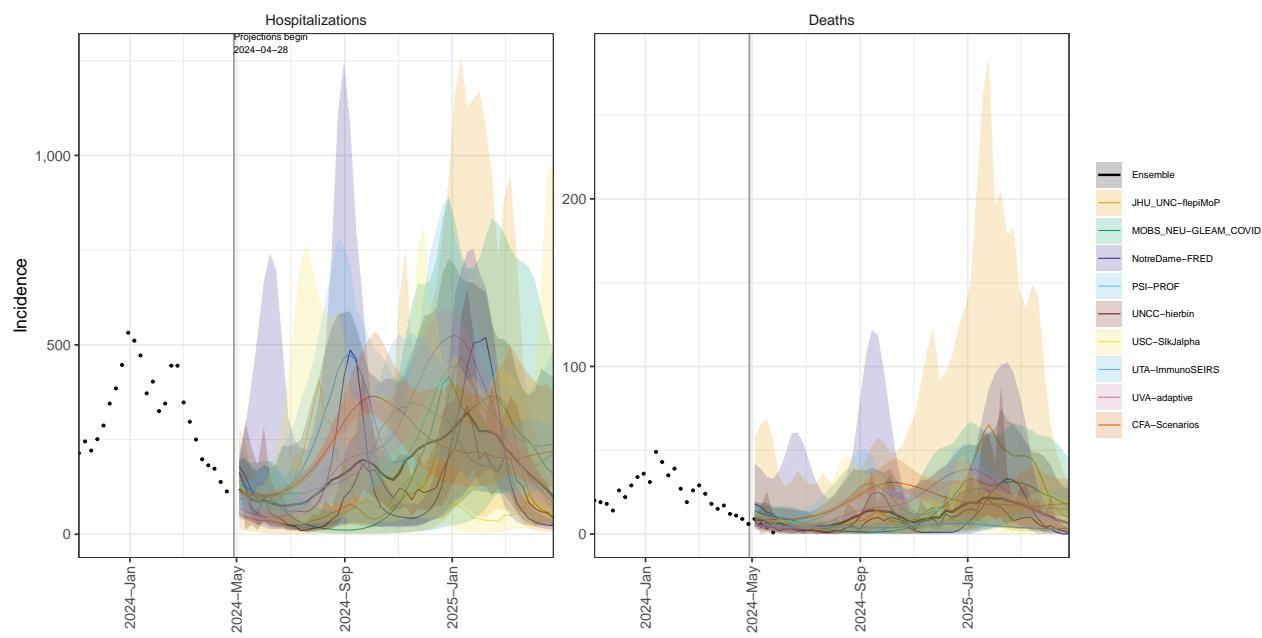
WY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



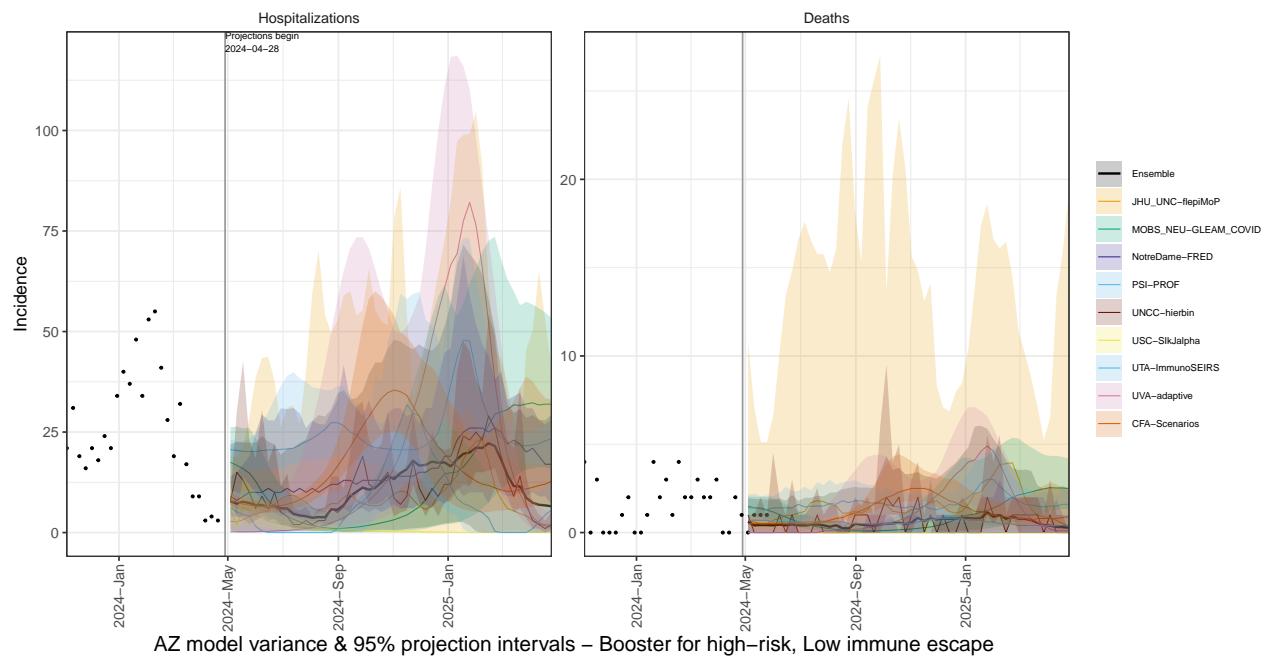
US model variance & 95% projection intervals – Booster for high-risk, Low immune escape



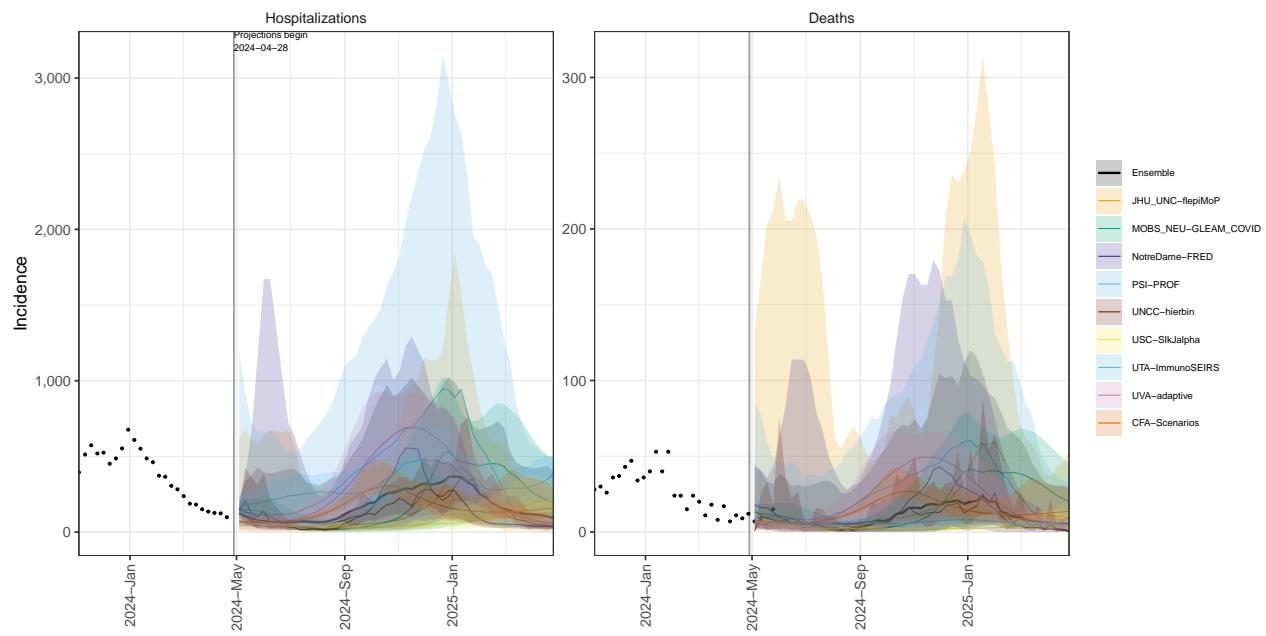
AL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



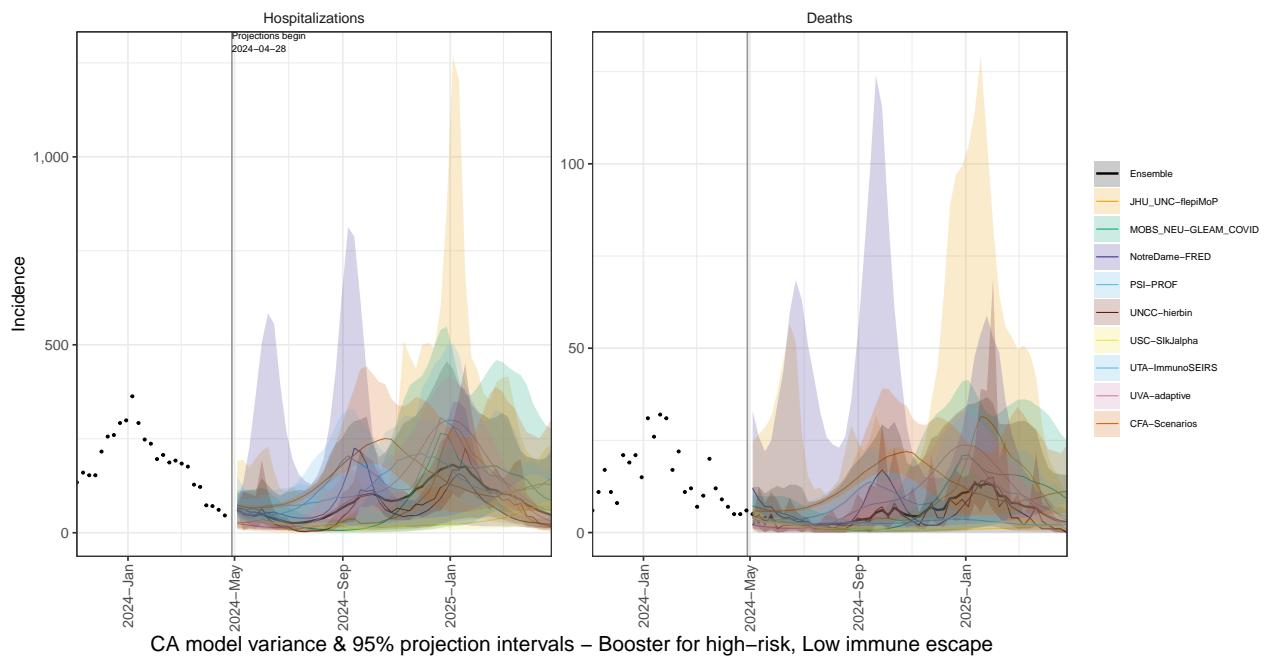
AK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



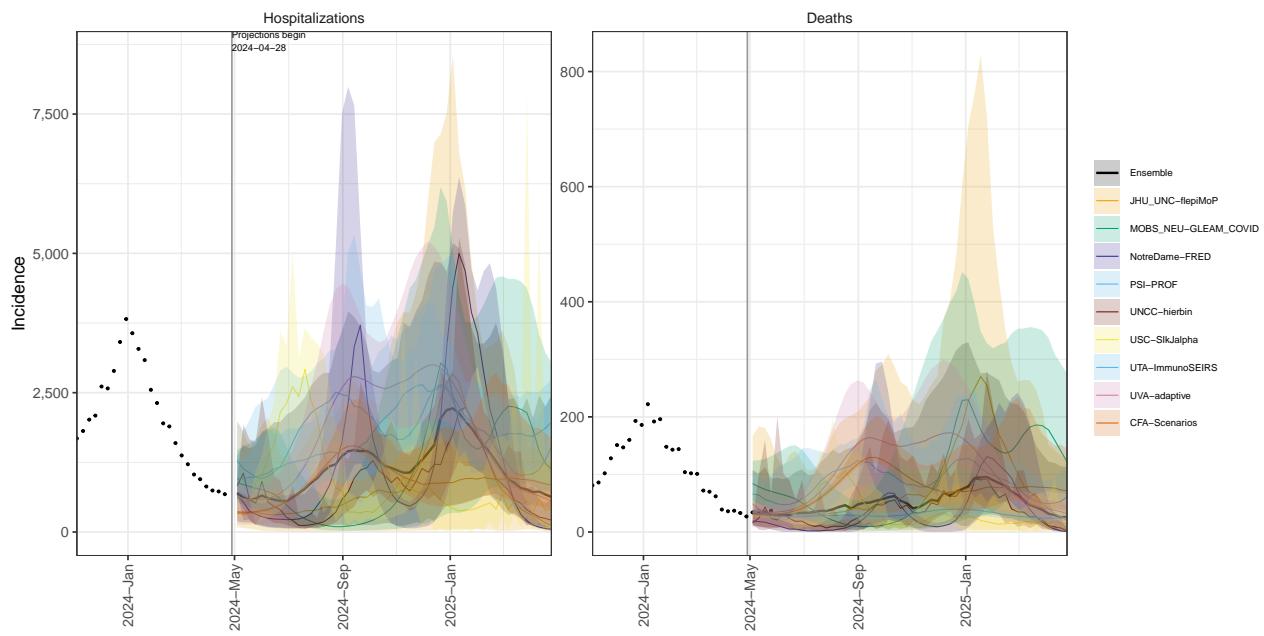
AZ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



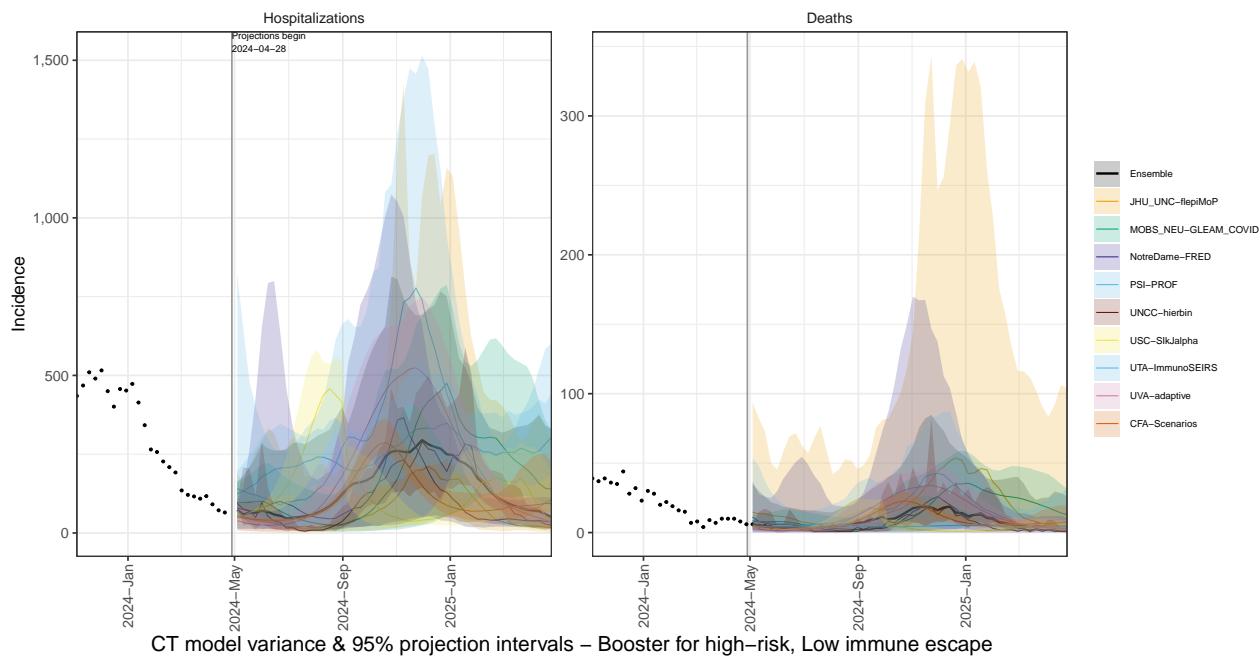
AR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



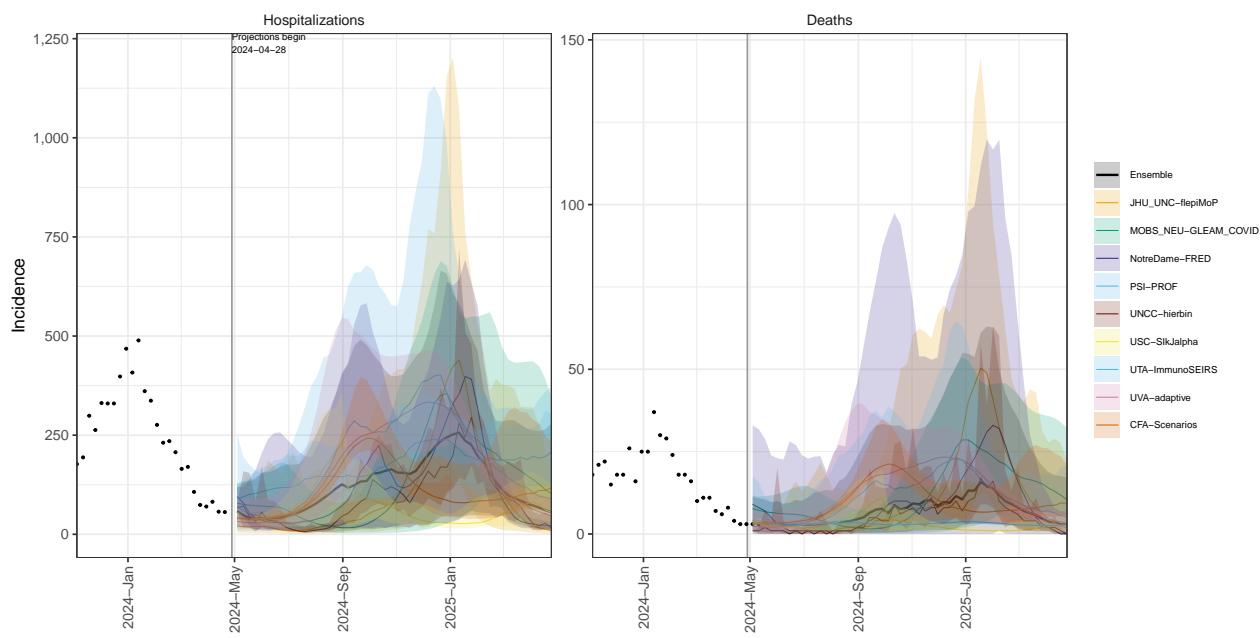
CA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



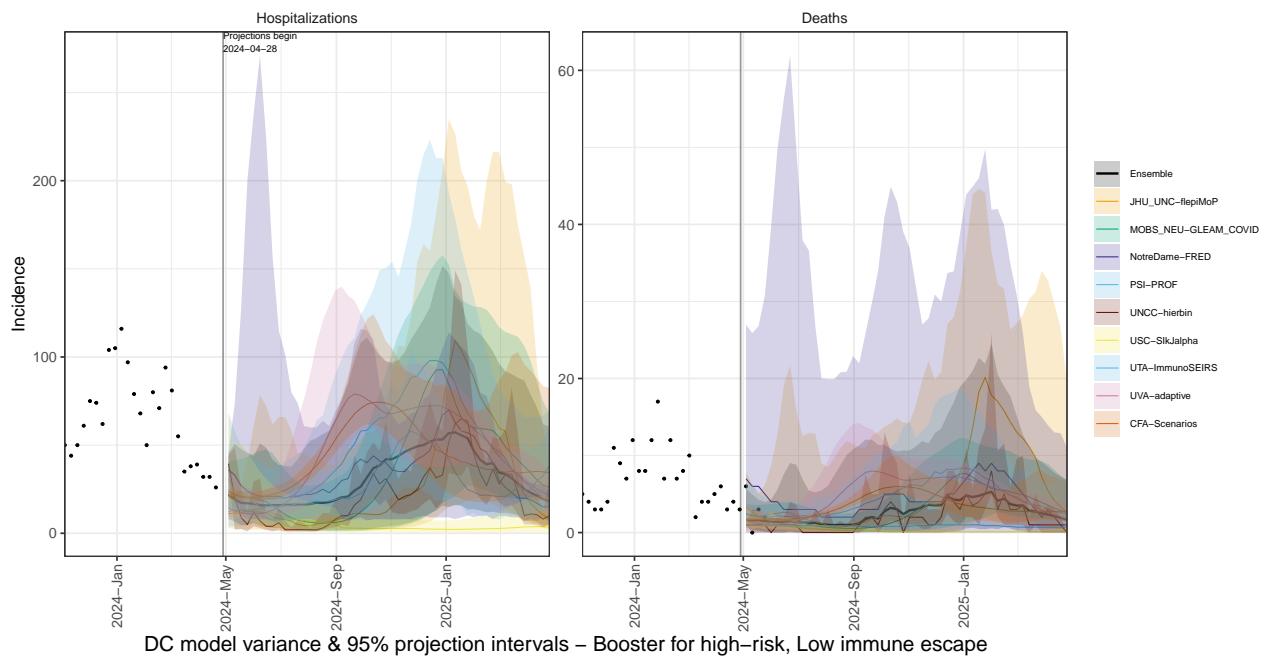
CO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



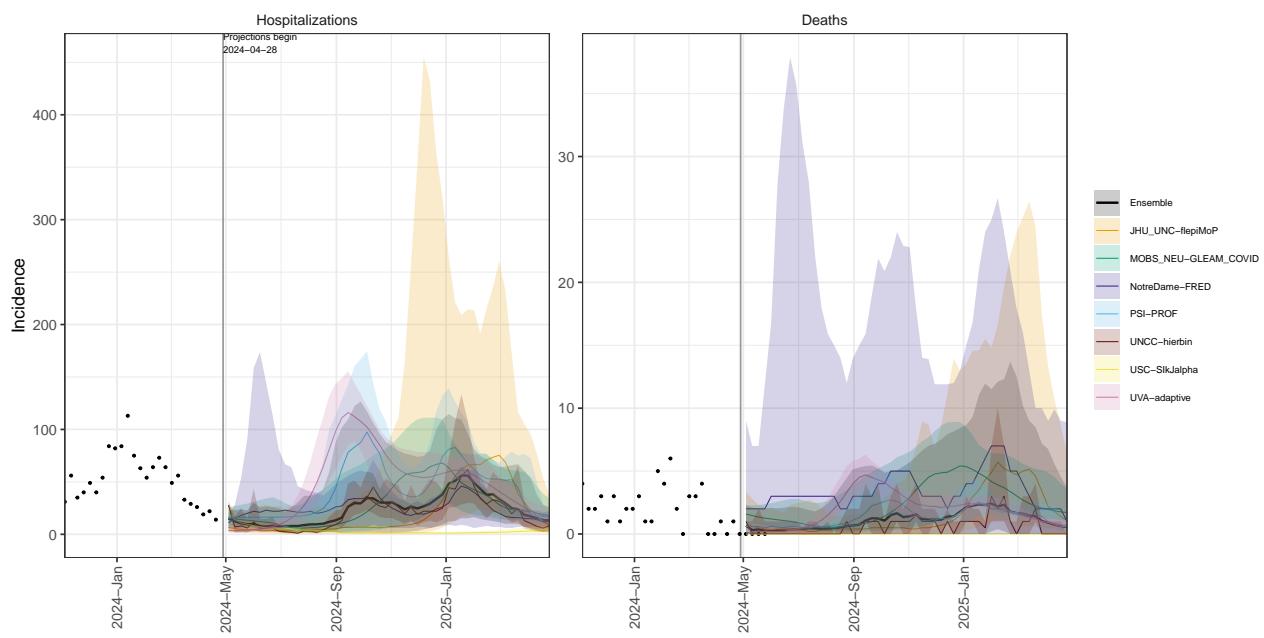
CT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



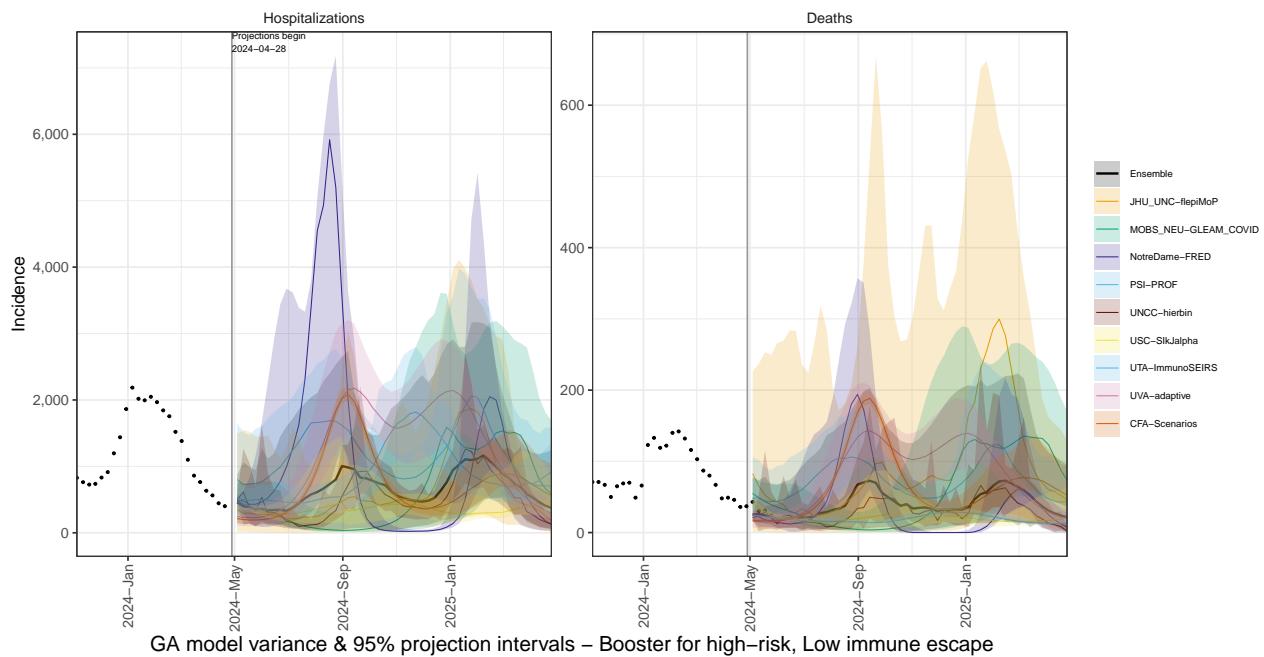
DE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



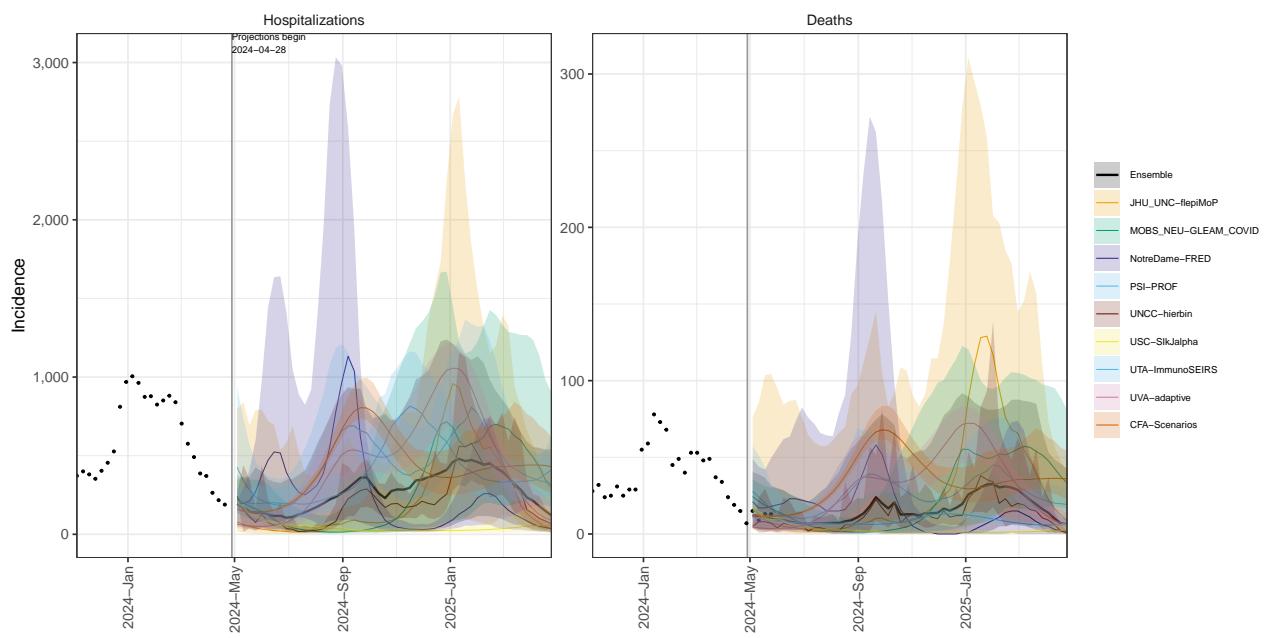
DC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



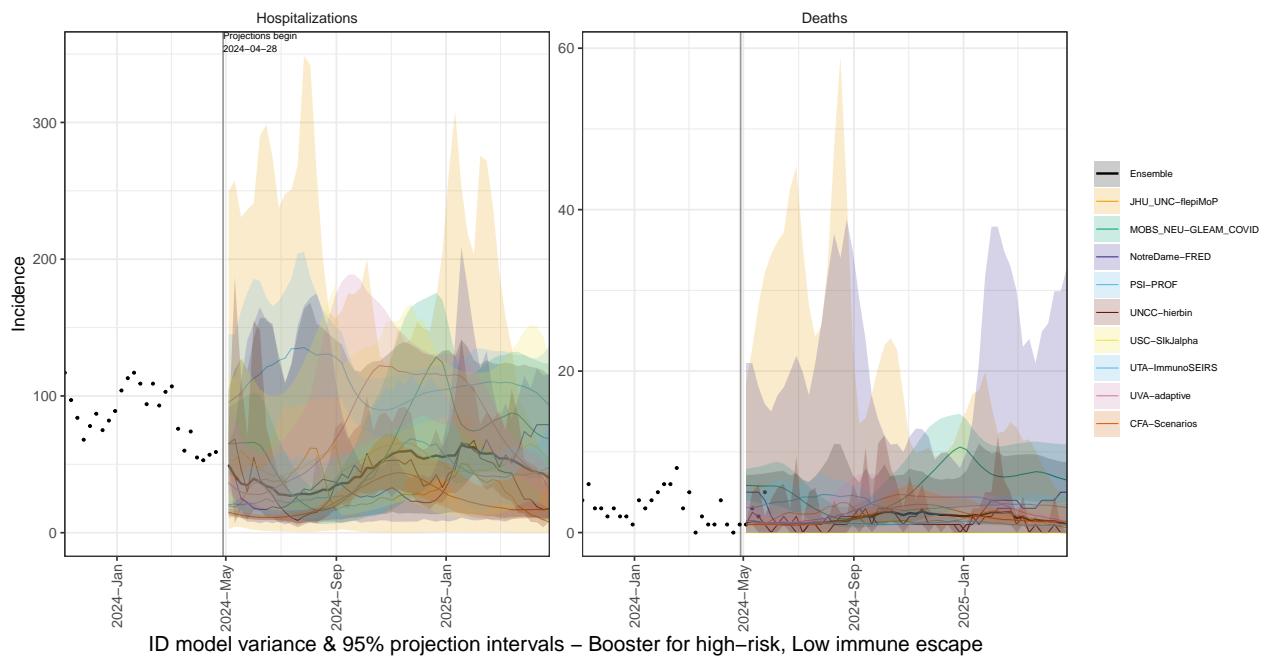
FL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



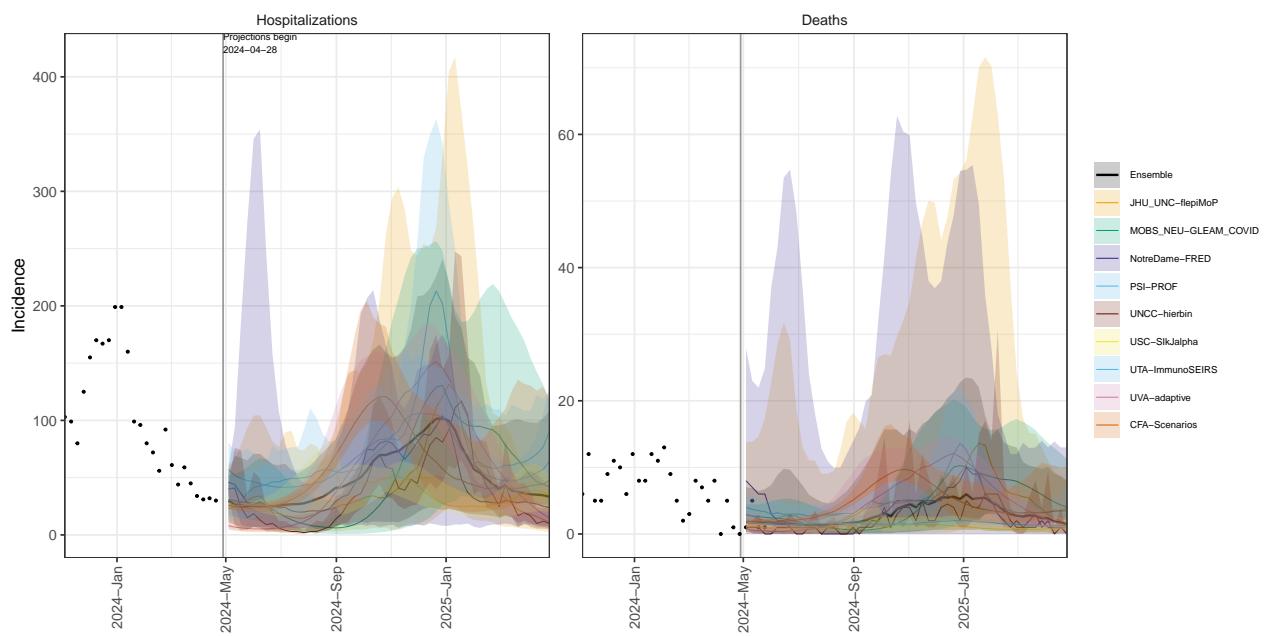
GA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



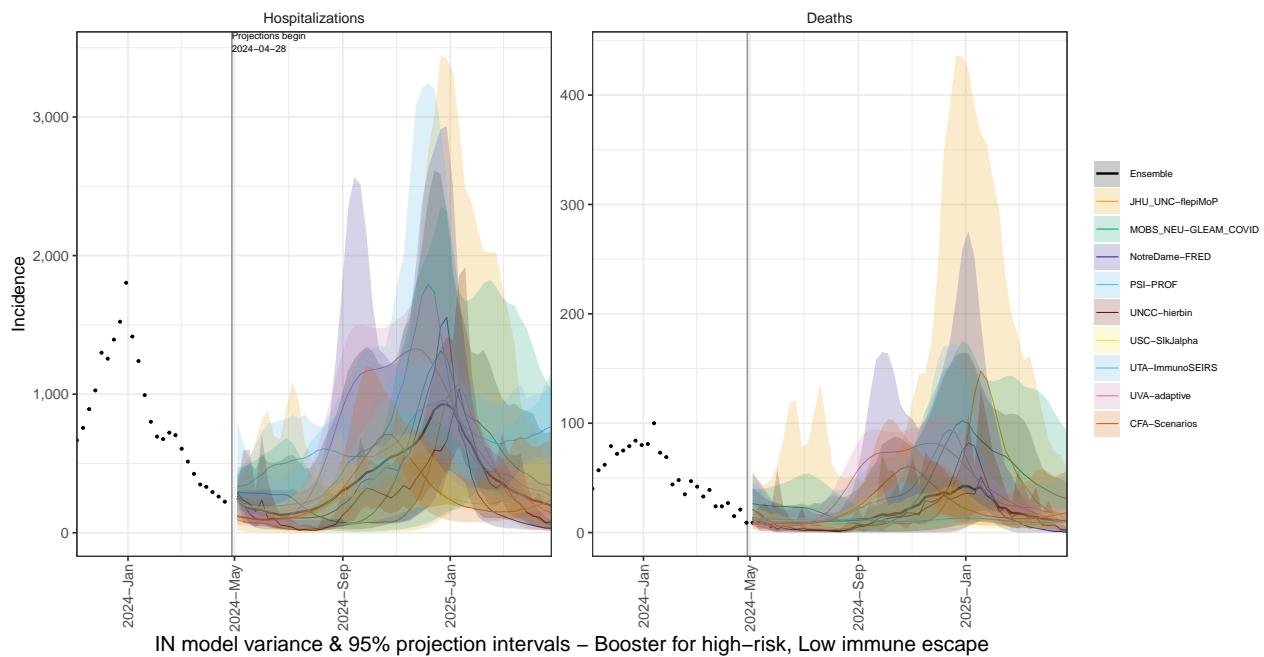
HI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



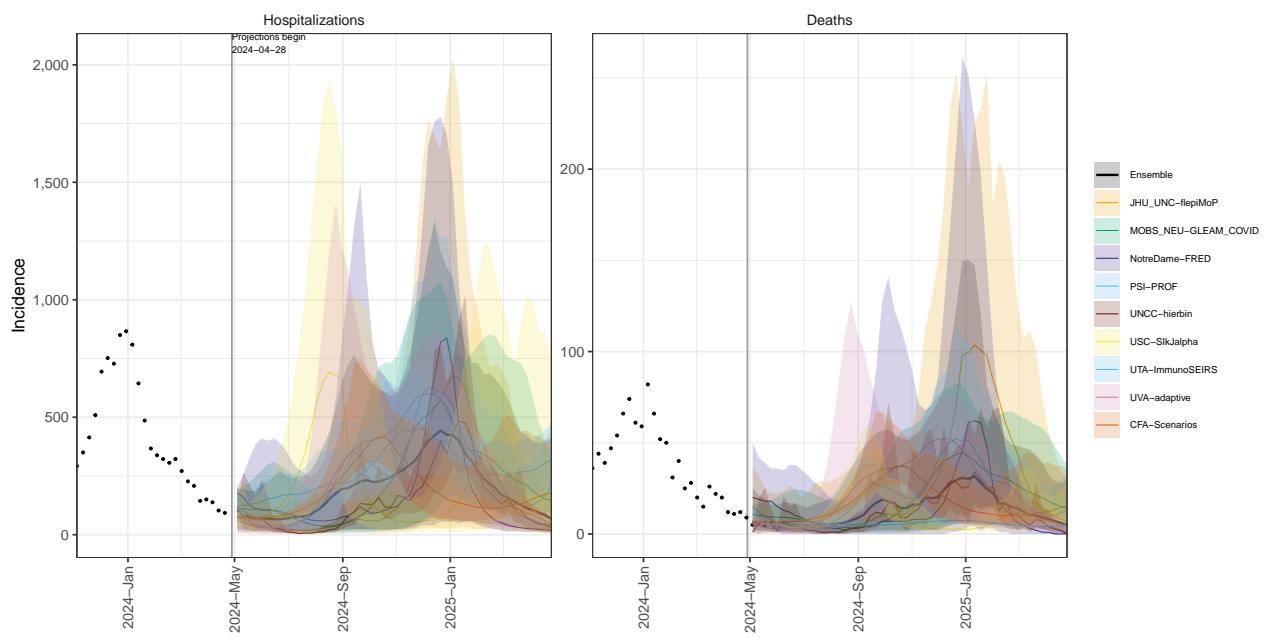
ID model variance & 95% projection intervals – Booster for high-risk, Low immune escape



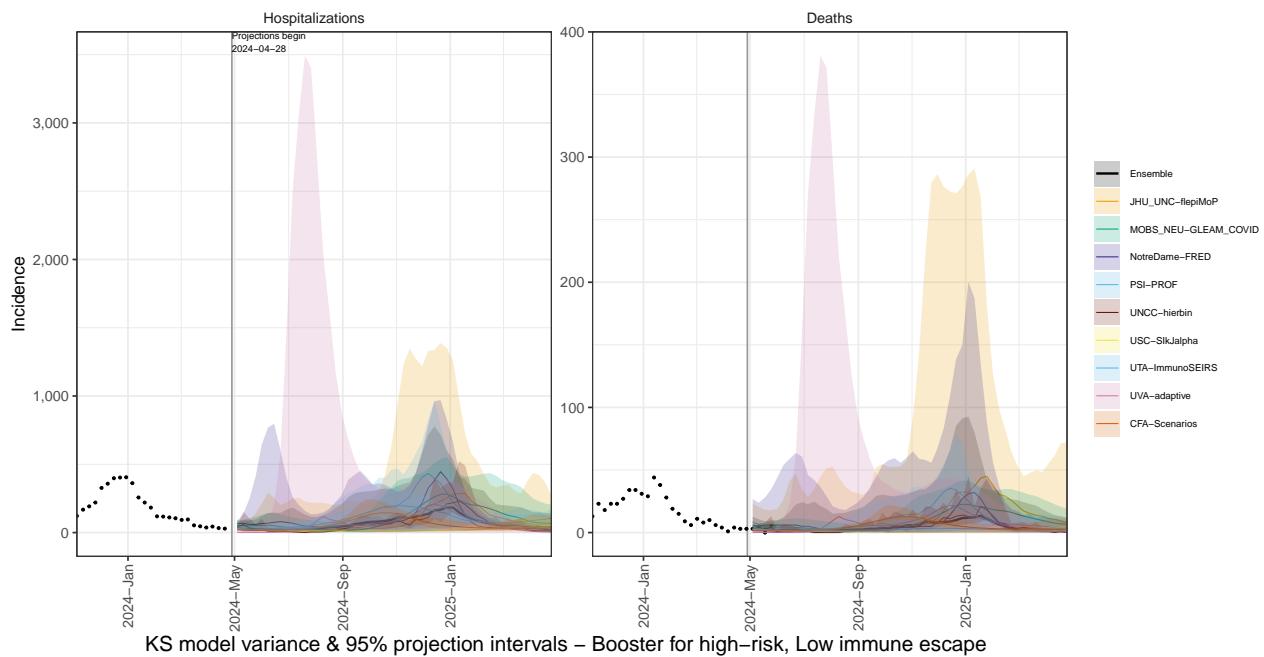
IL model variance & 95% projection intervals – Booster for high-risk, Low immune escape



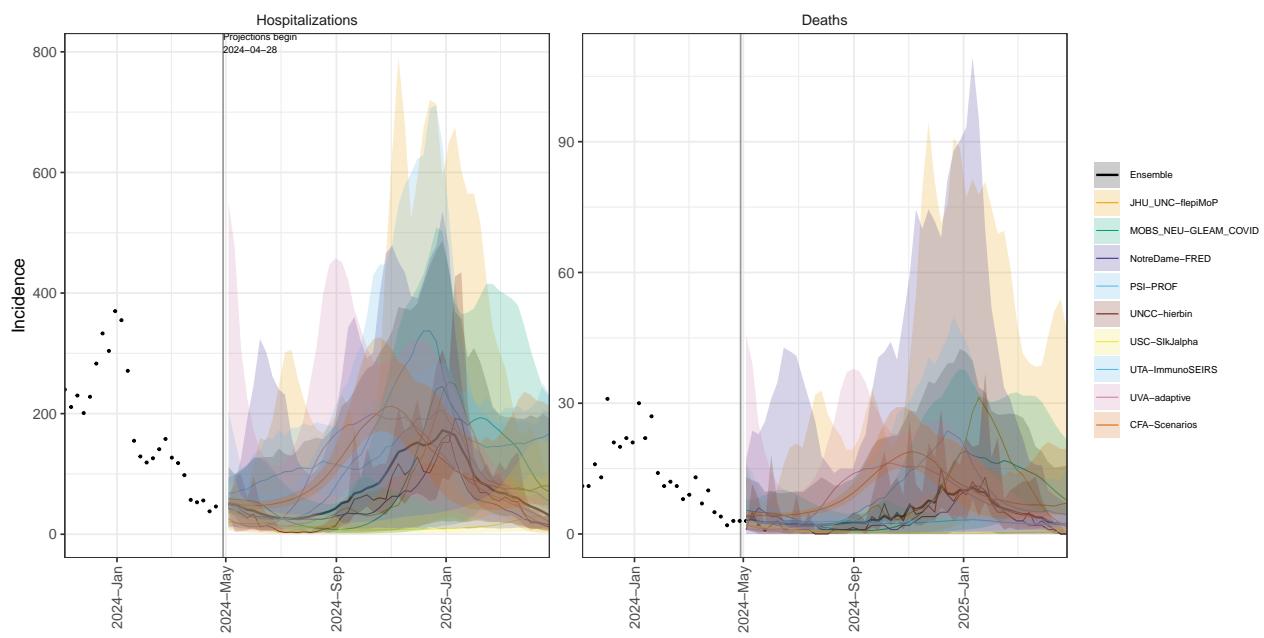
IN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



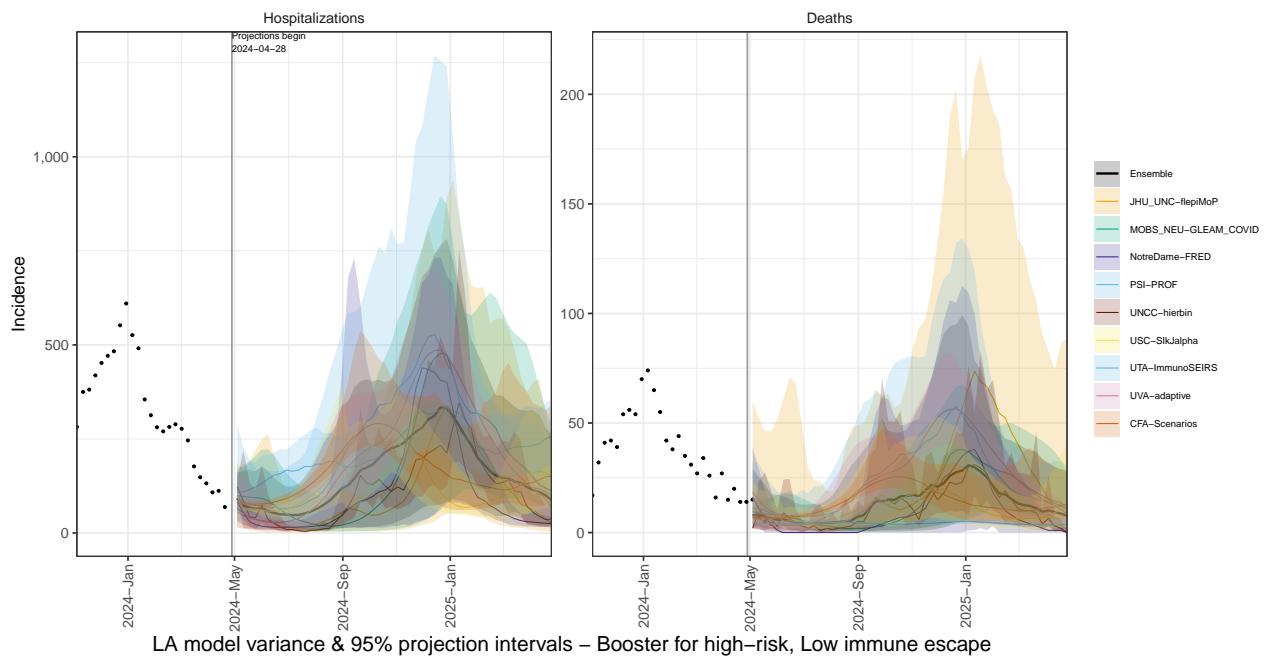
IA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



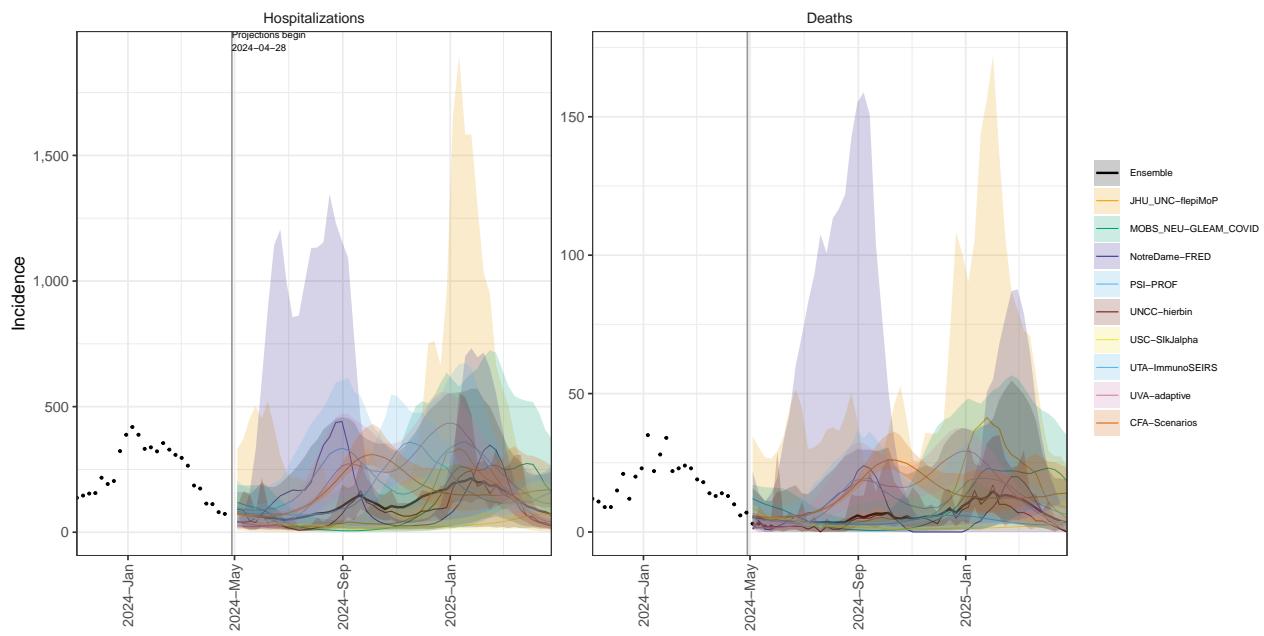
KS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



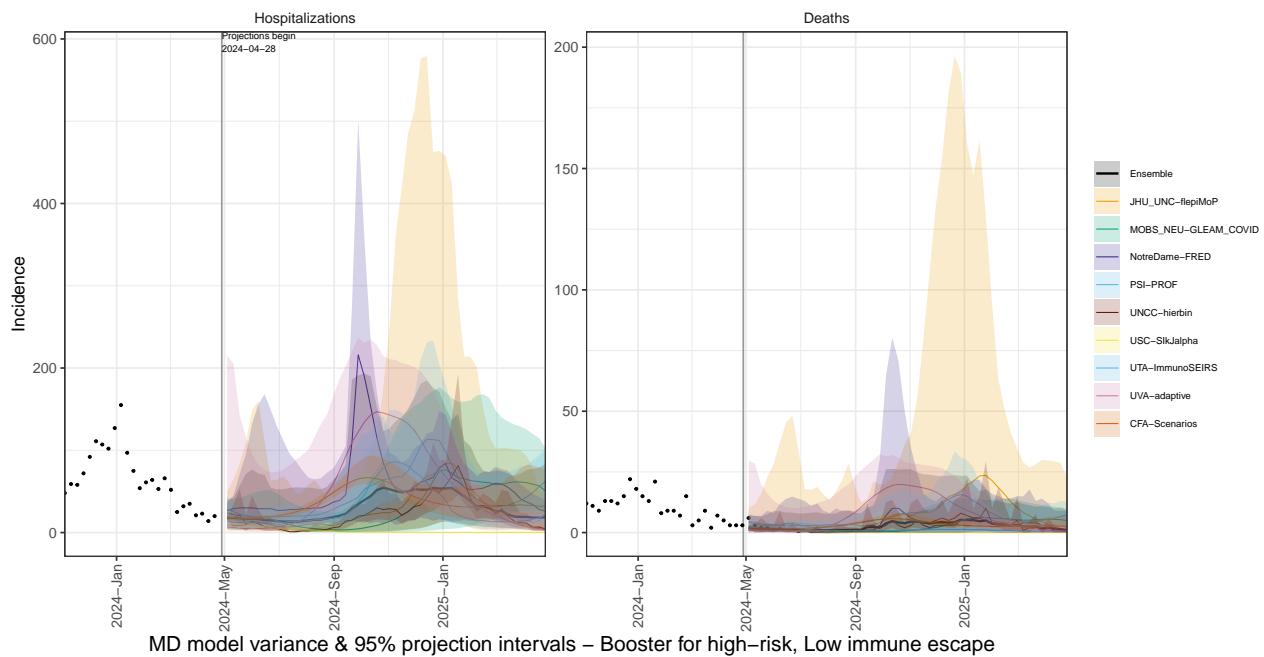
KY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



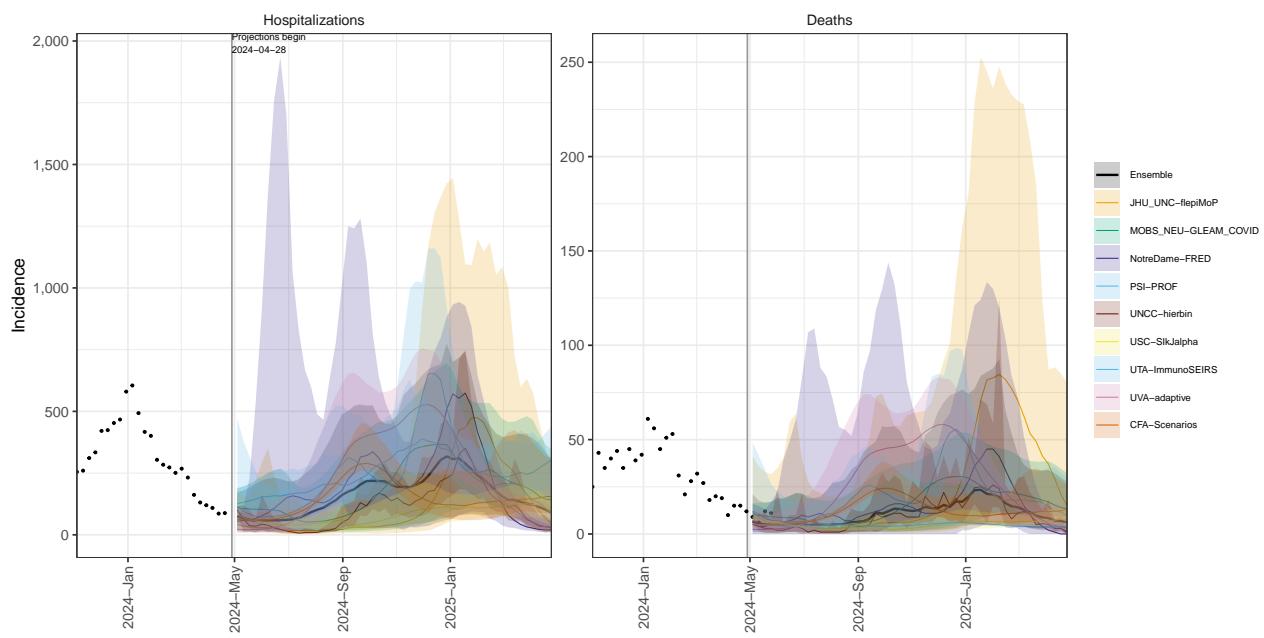
LA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



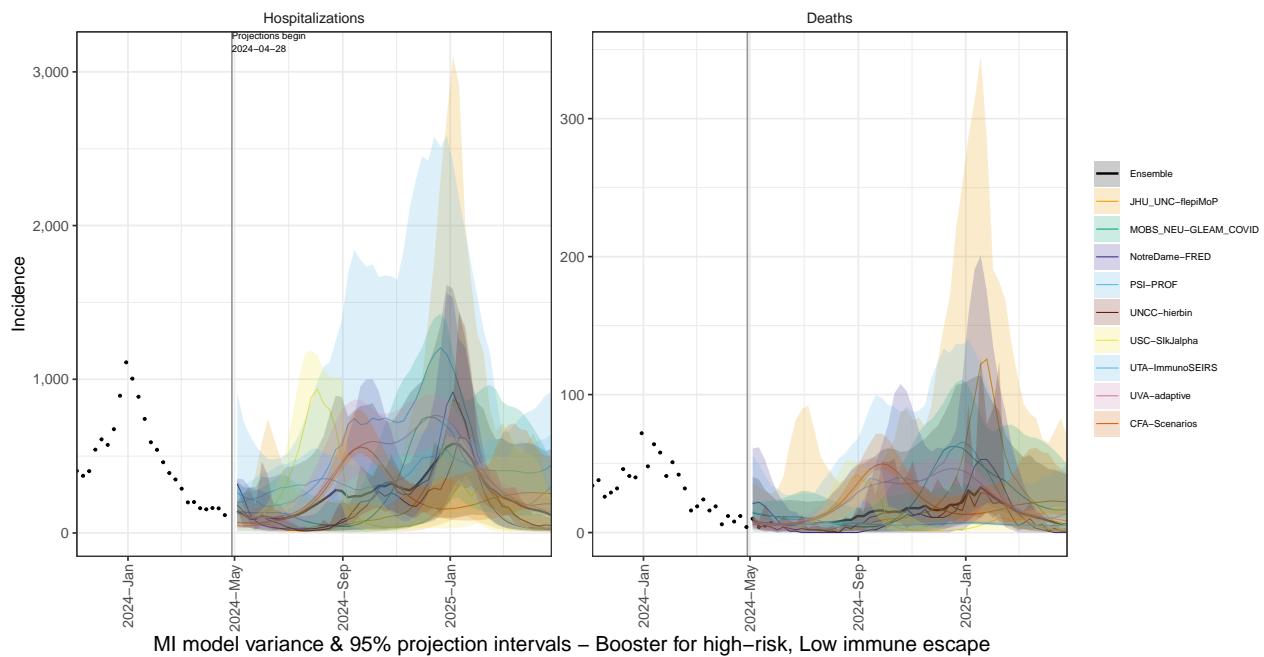
ME model variance & 95% projection intervals – Booster for high-risk, Low immune escape



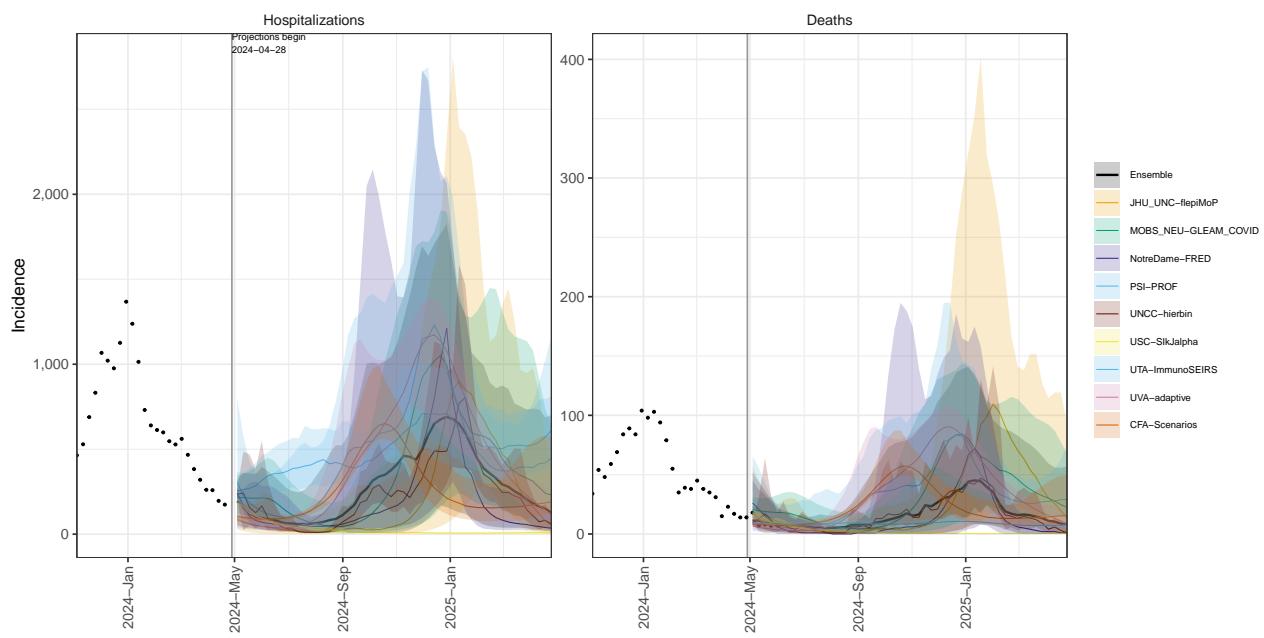
MD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



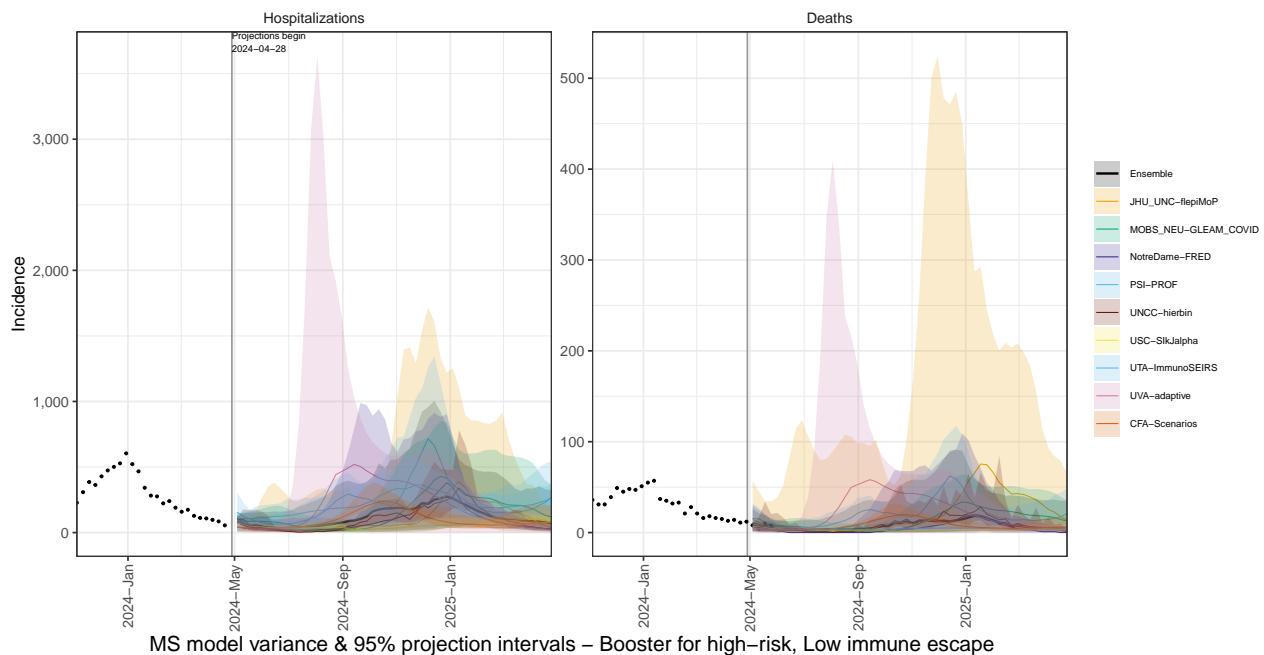
MA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



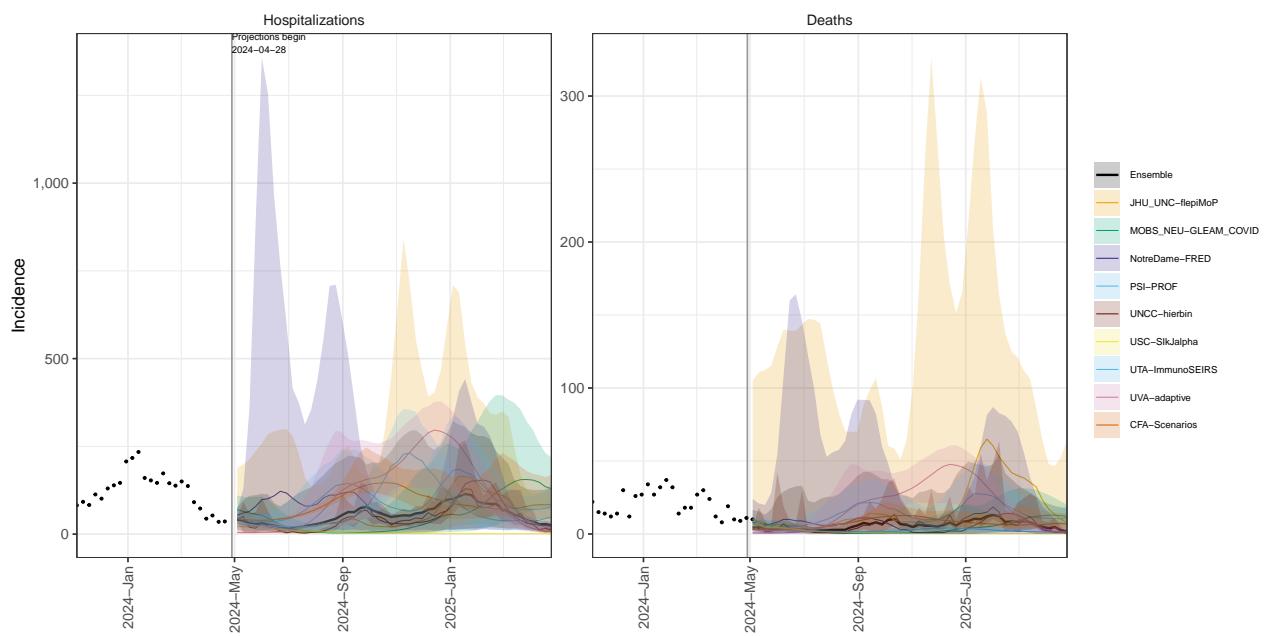
MI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



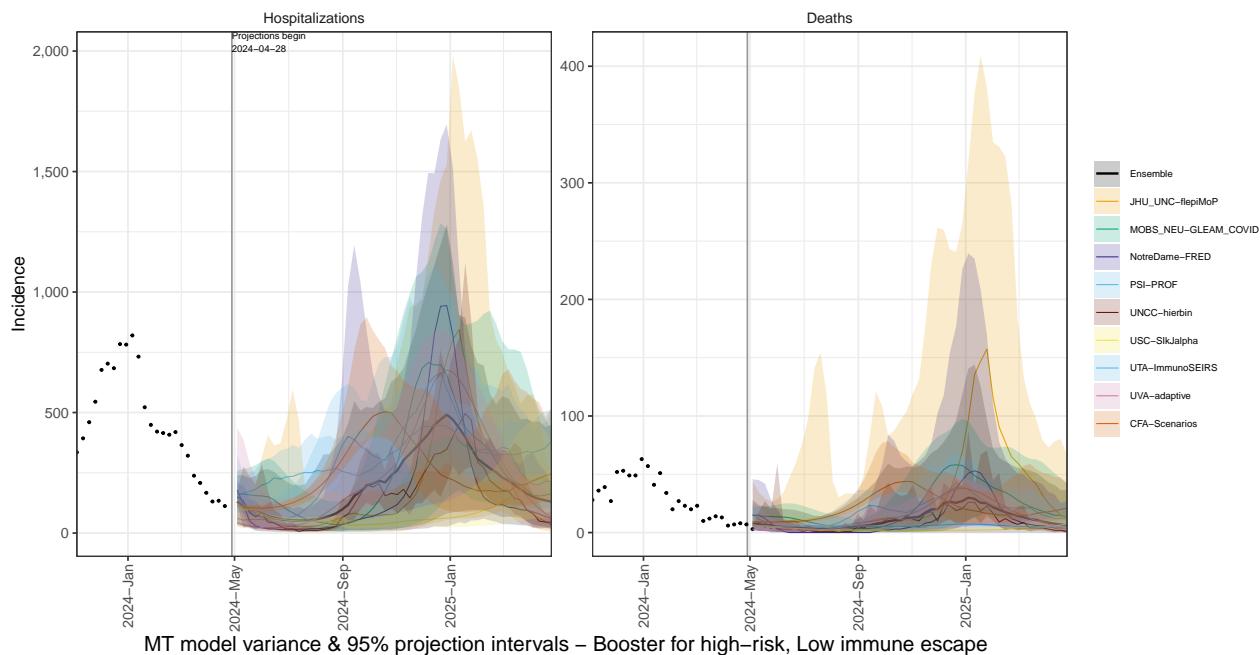
MN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



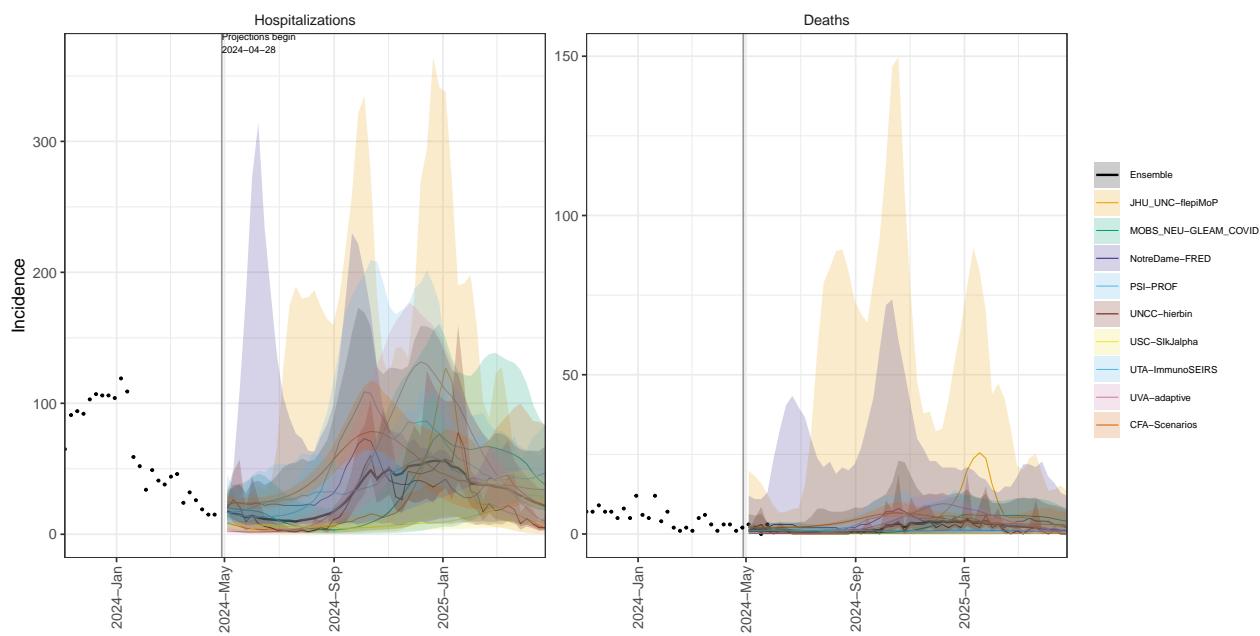
MS model variance & 95% projection intervals – Booster for high-risk, Low immune escape



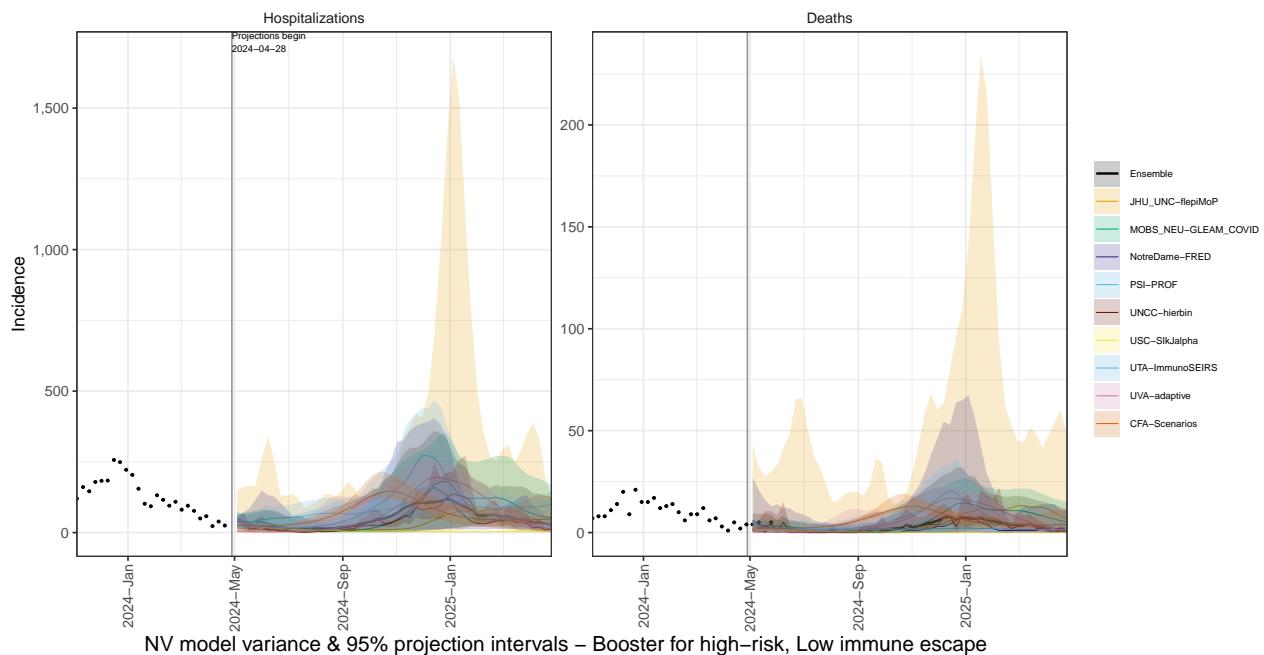
MO model variance & 95% projection intervals – Booster for high-risk, Low immune escape



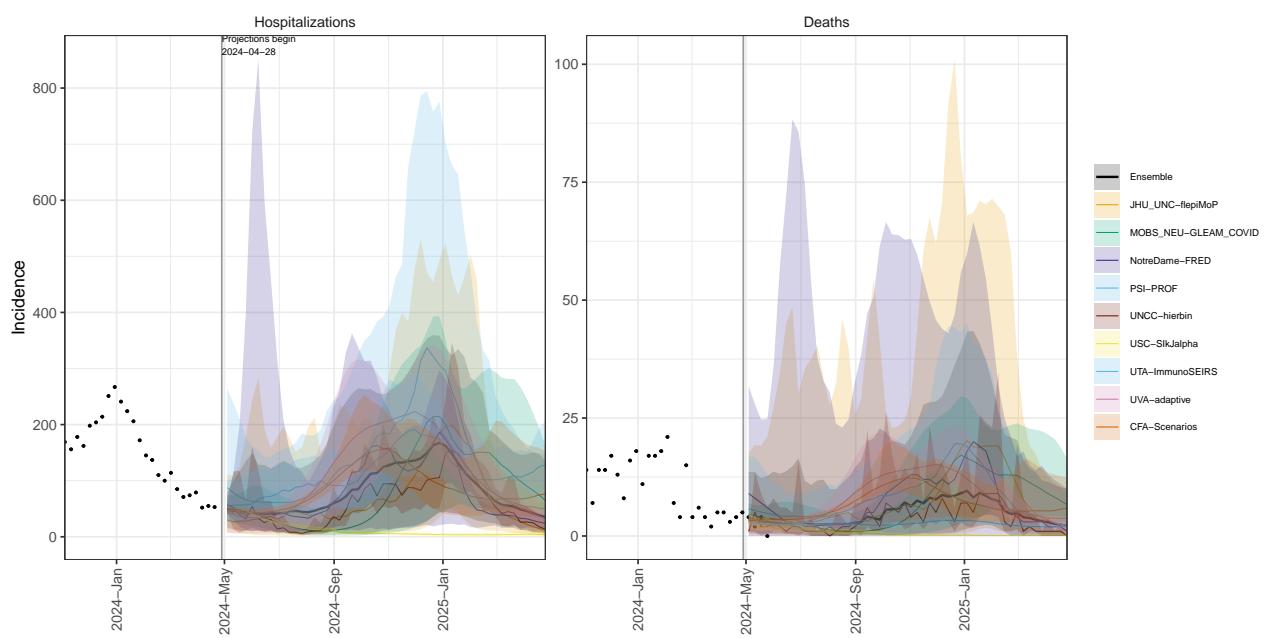
MT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



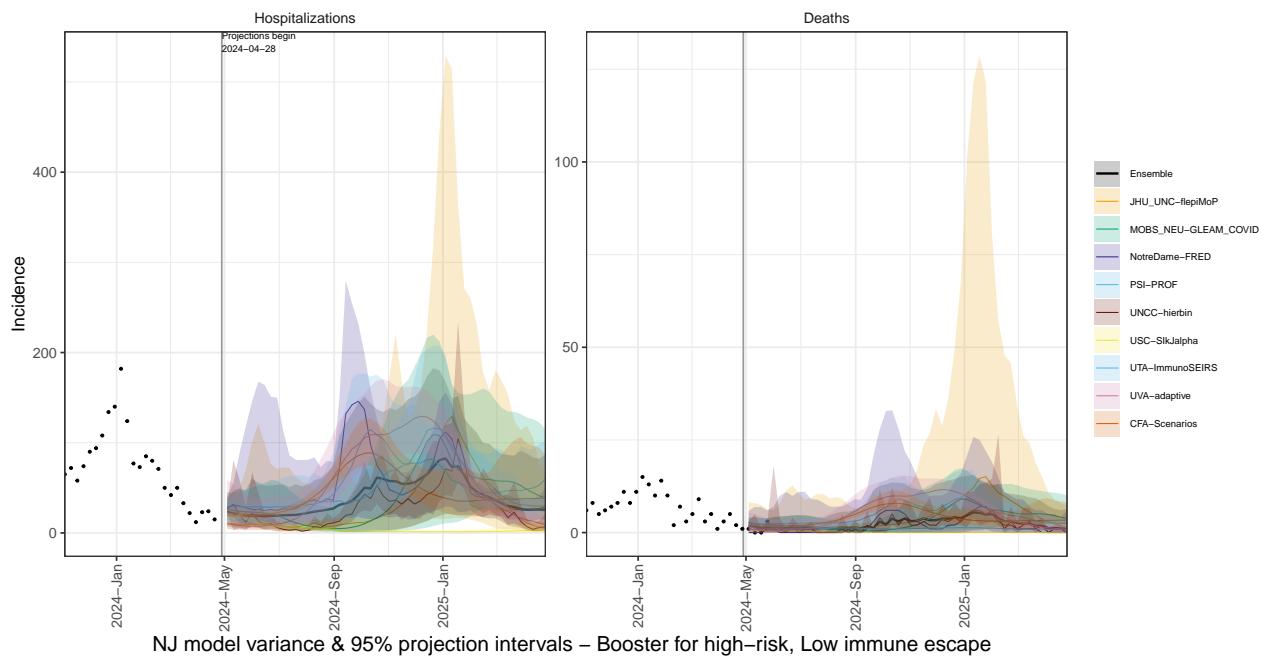
NE model variance & 95% projection intervals – Booster for high-risk, Low immune escape



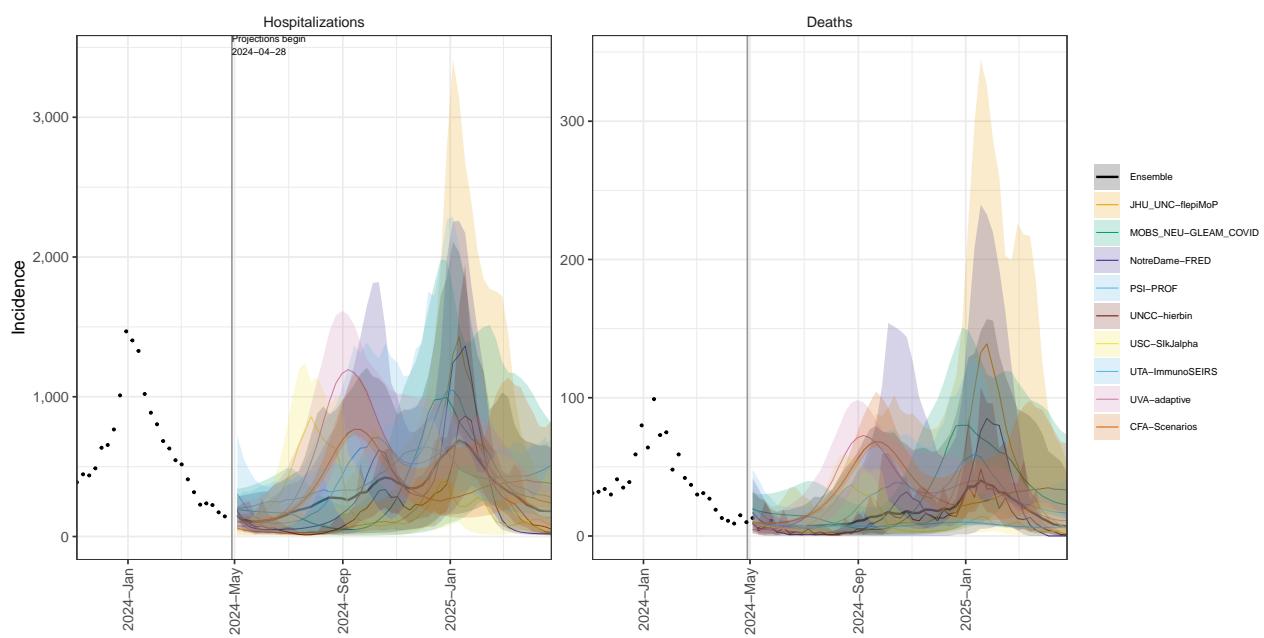
NV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



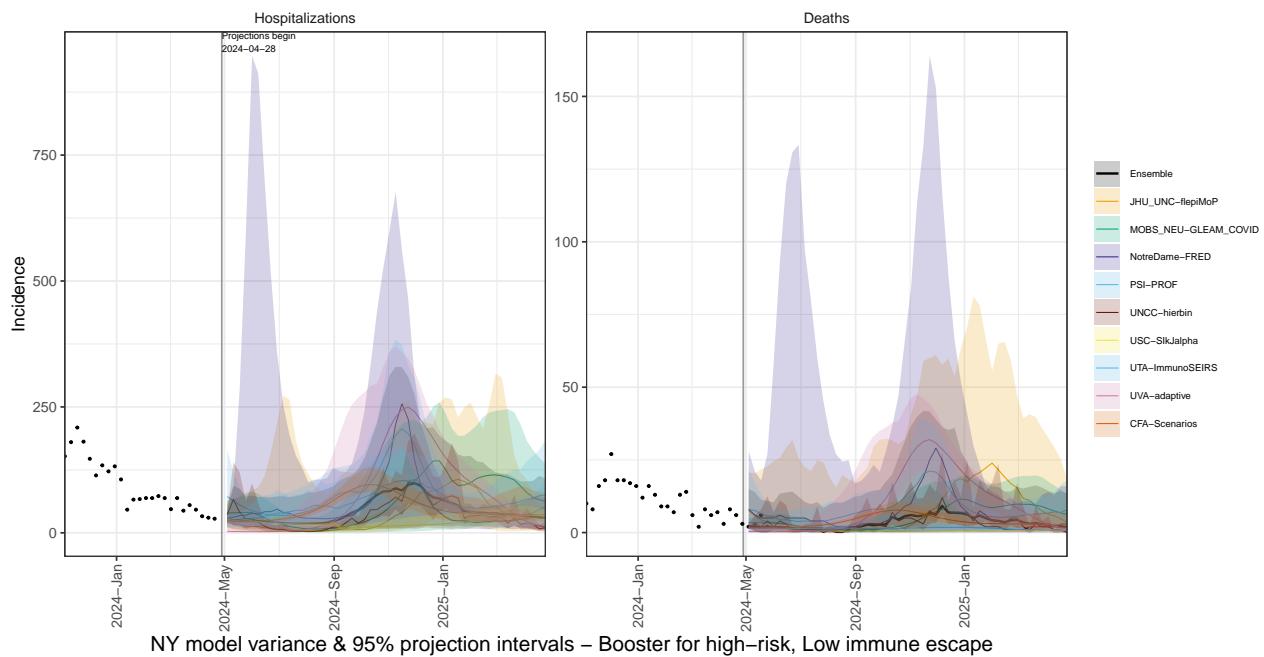
NH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



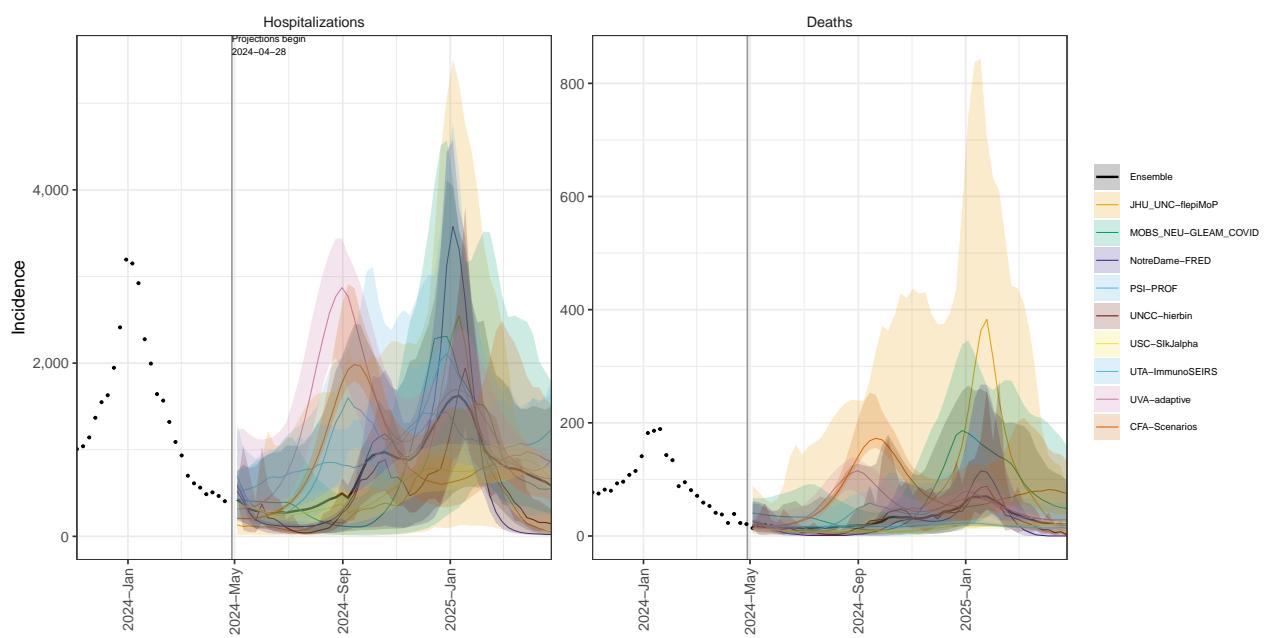
NJ model variance & 95% projection intervals – Booster for high-risk, Low immune escape



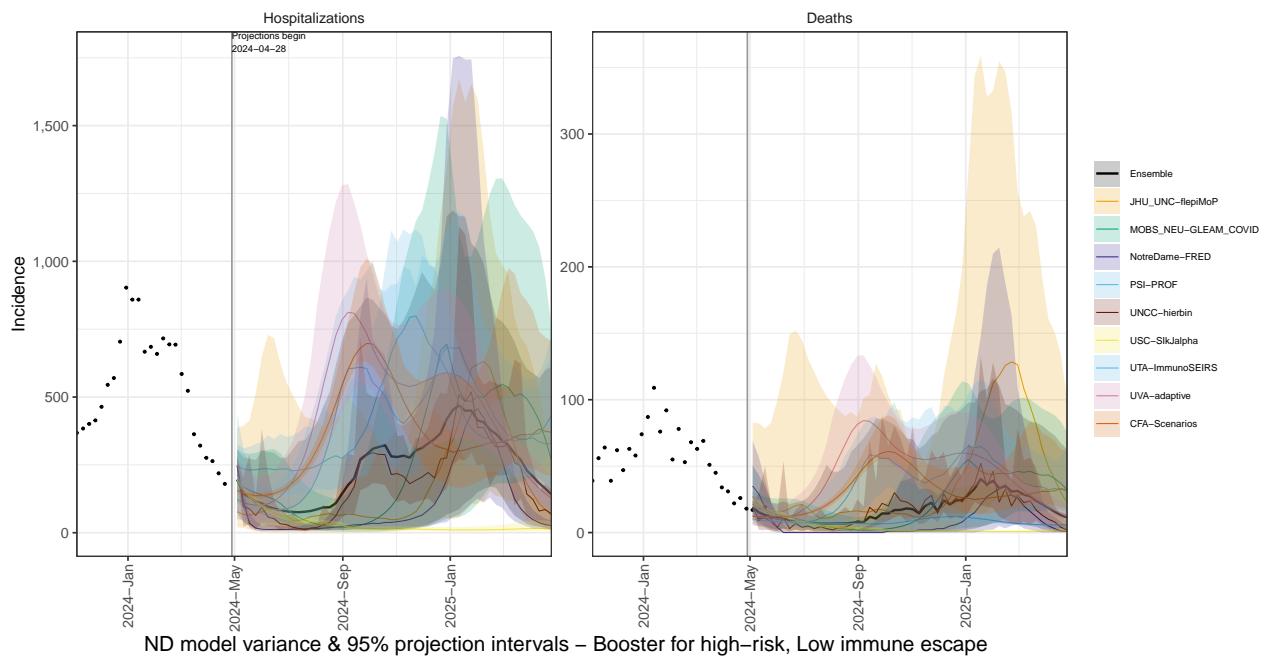
NM model variance & 95% projection intervals – Booster for high-risk, Low immune escape



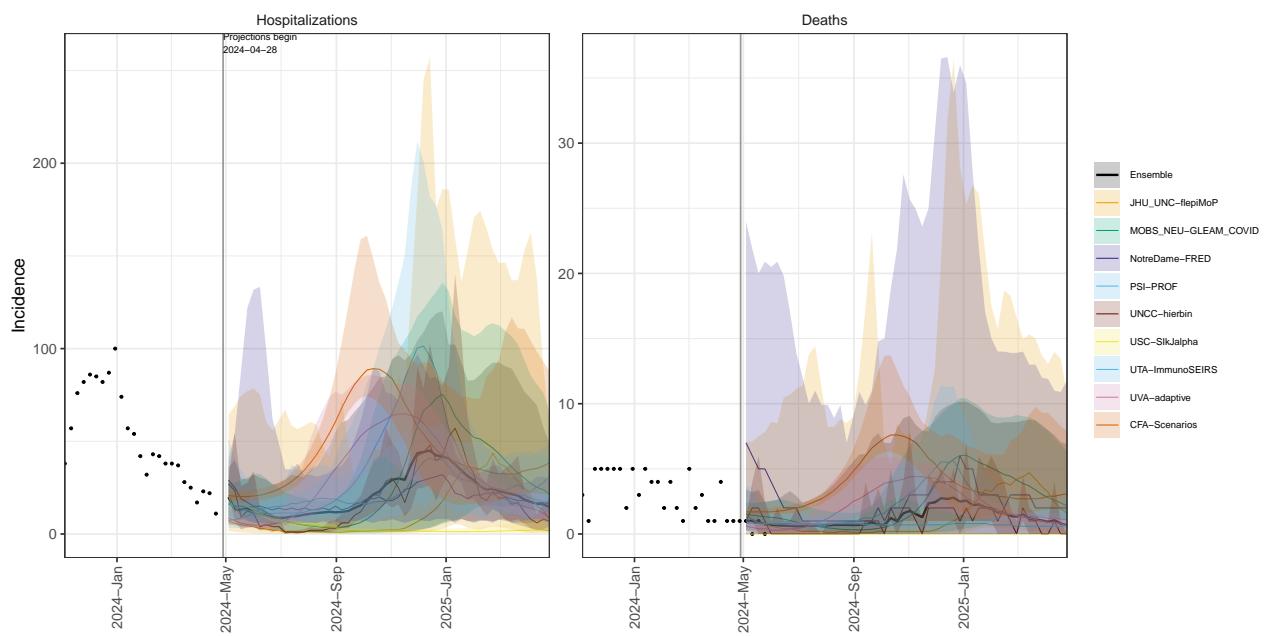
NY model variance & 95% projection intervals – Booster for high-risk, Low immune escape



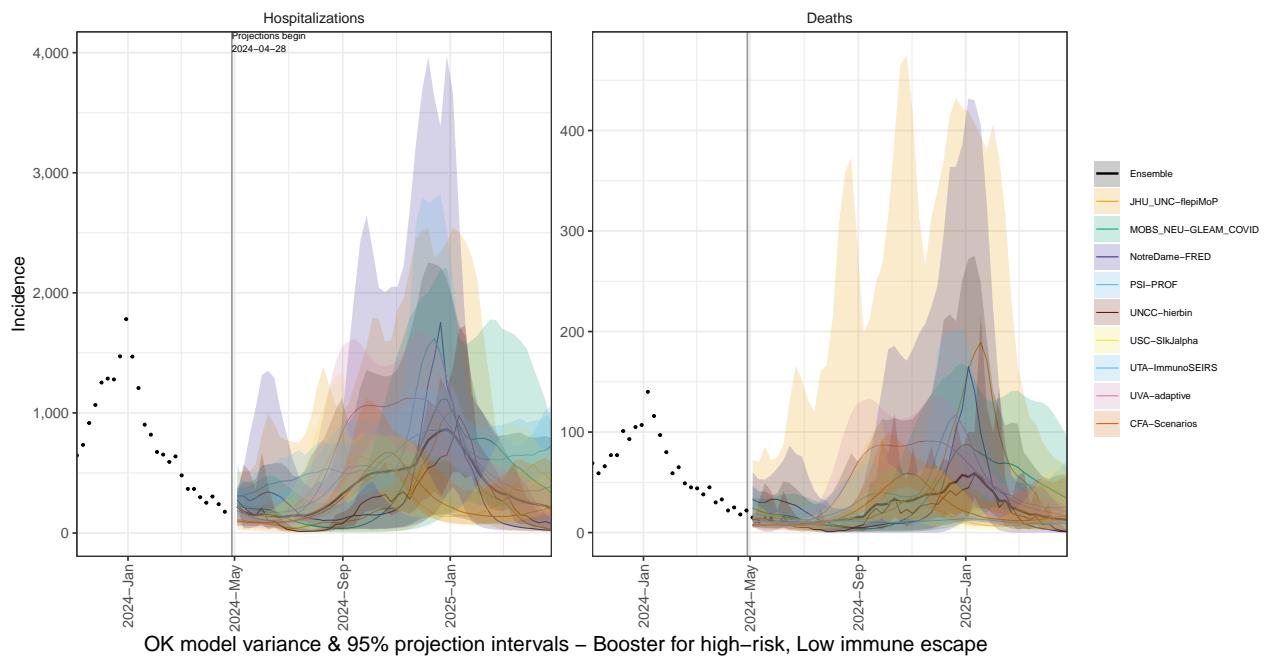
NC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



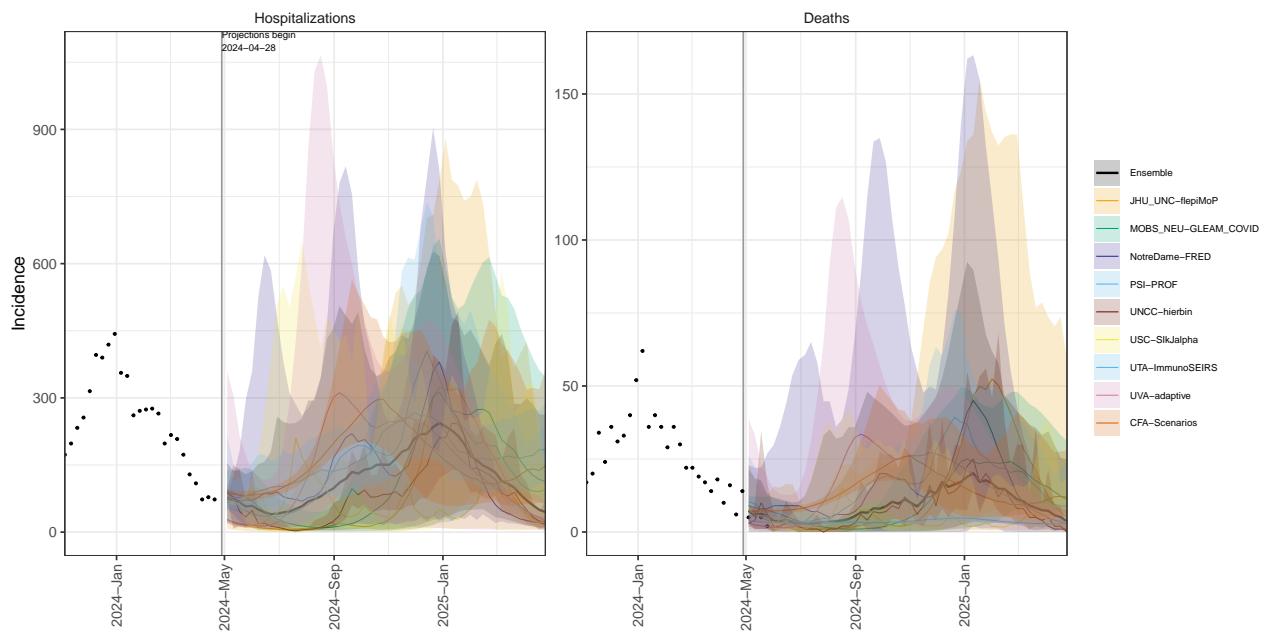
ND model variance & 95% projection intervals – Booster for high-risk, Low immune escape



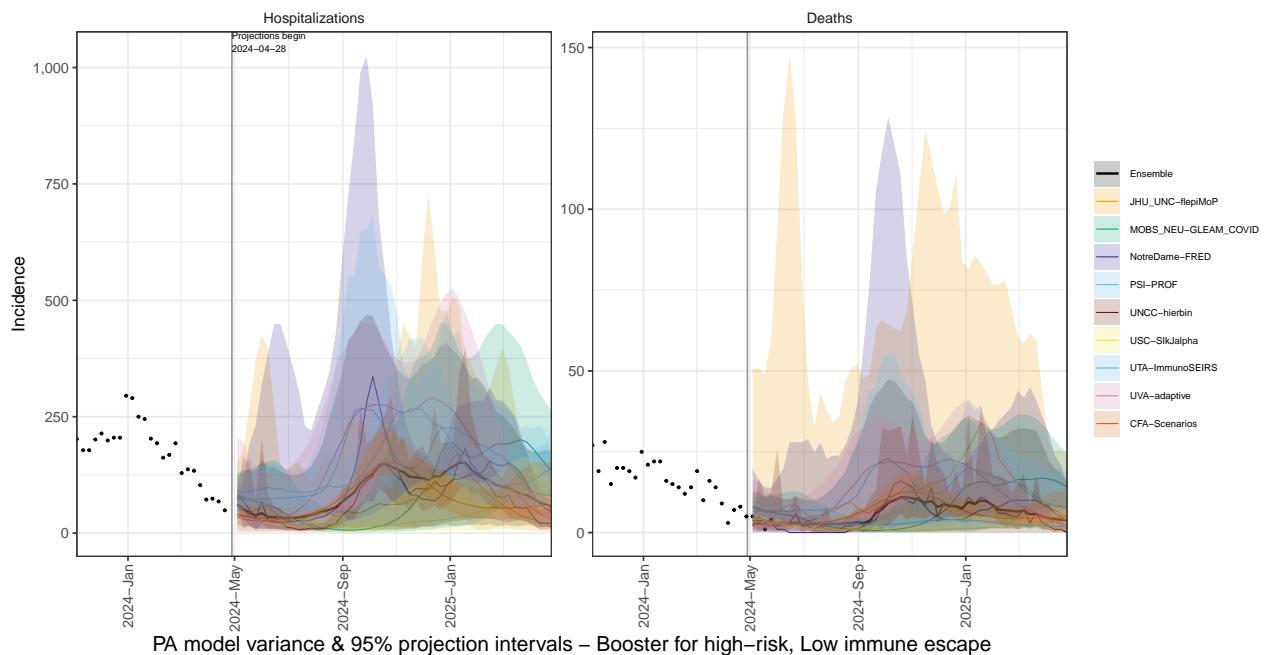
OH model variance & 95% projection intervals – Booster for high-risk, Low immune escape



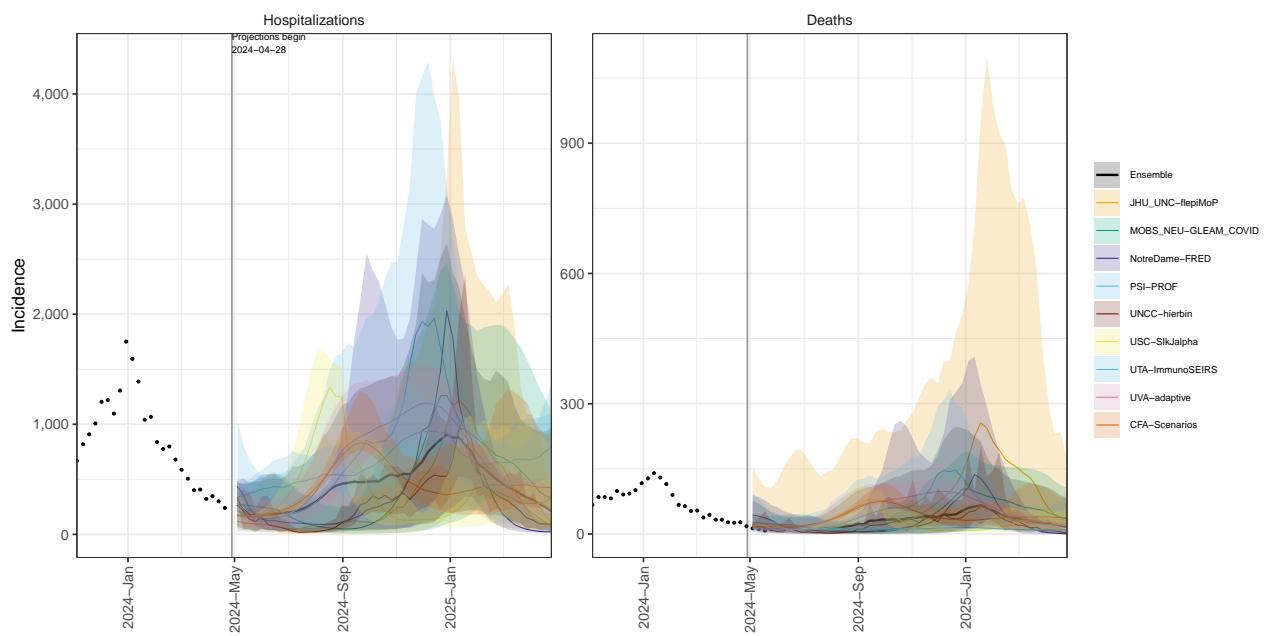
OK model variance & 95% projection intervals – Booster for high-risk, Low immune escape



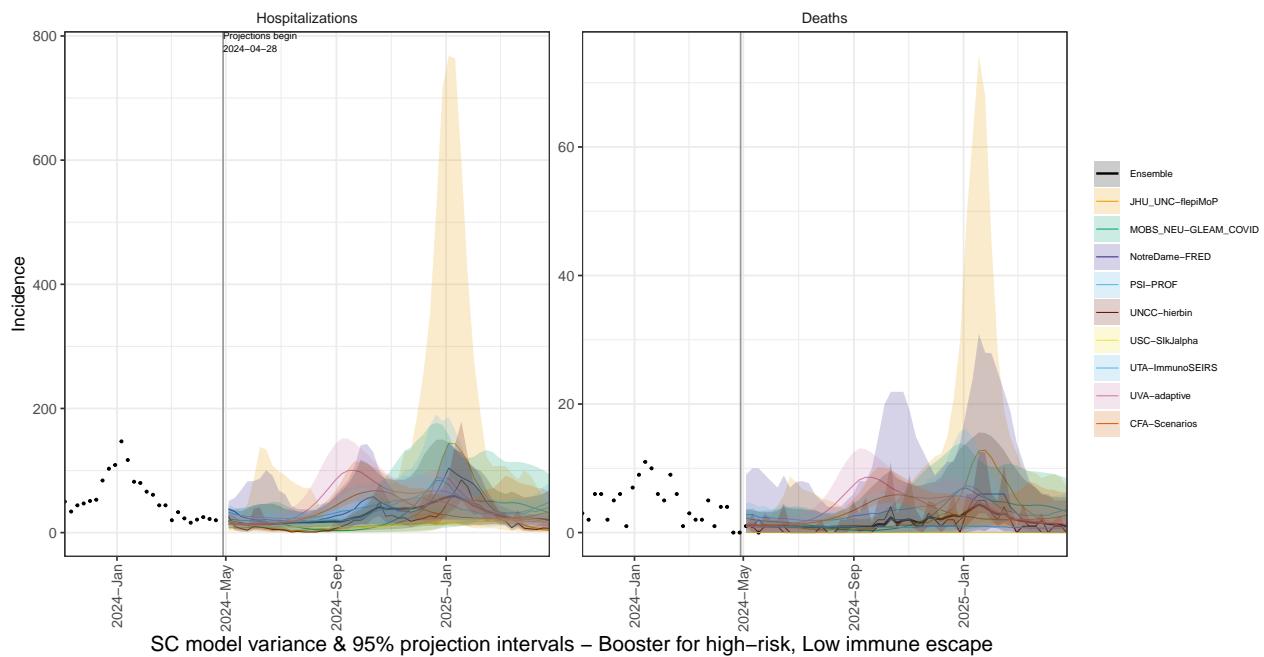
OR model variance & 95% projection intervals – Booster for high-risk, Low immune escape



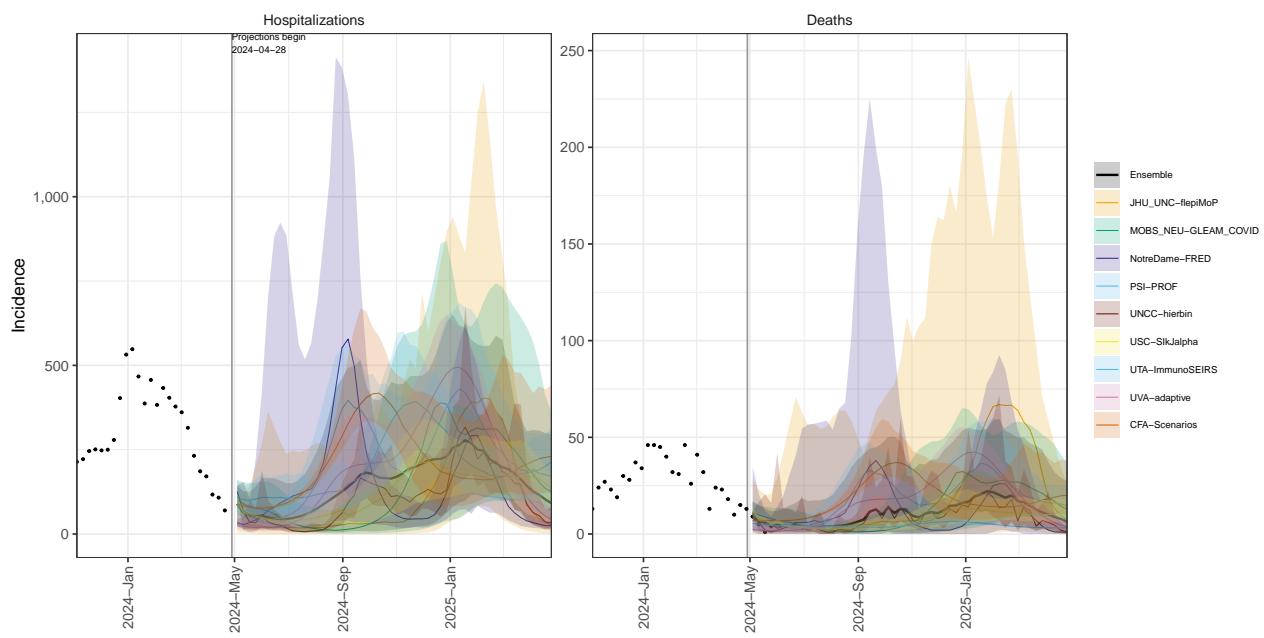
PA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



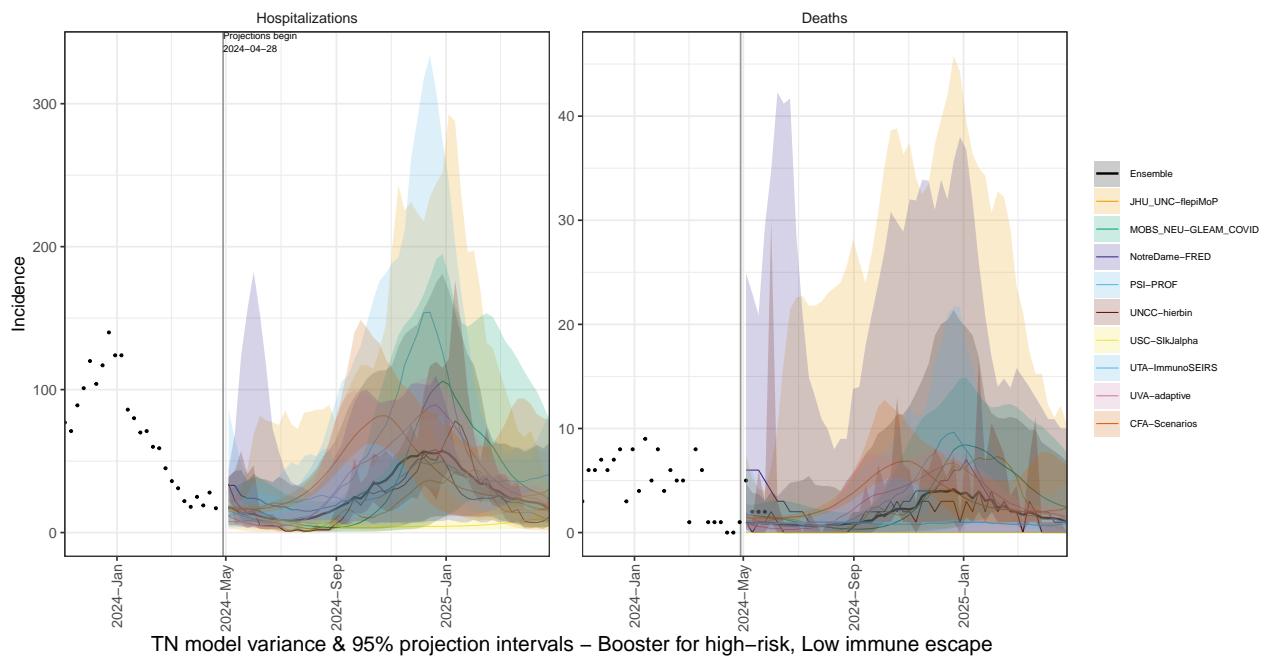
RI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



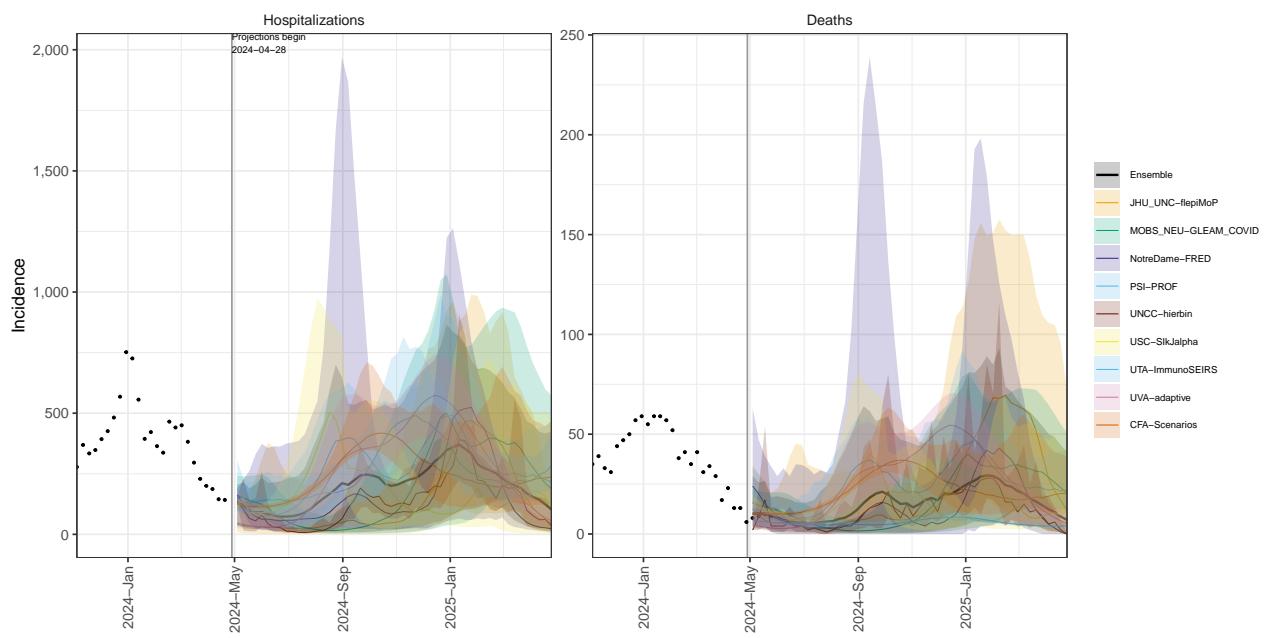
SC model variance & 95% projection intervals – Booster for high-risk, Low immune escape



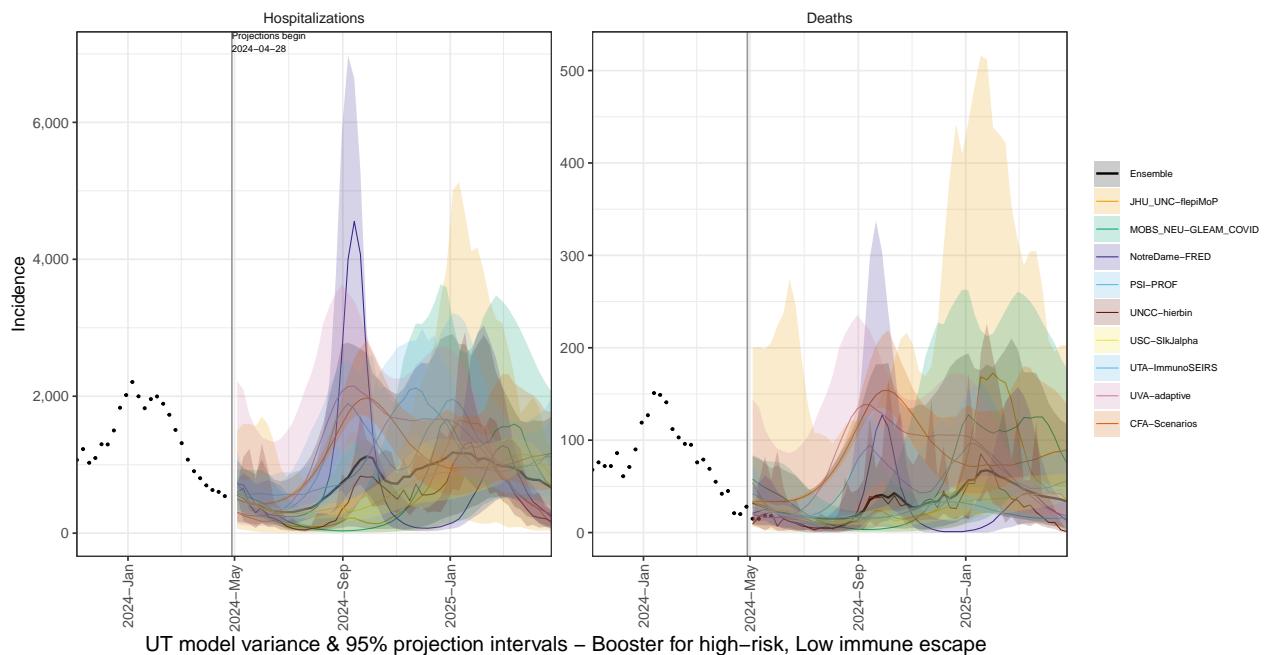
SD model variance & 95% projection intervals – Booster for high-risk, Low immune escape



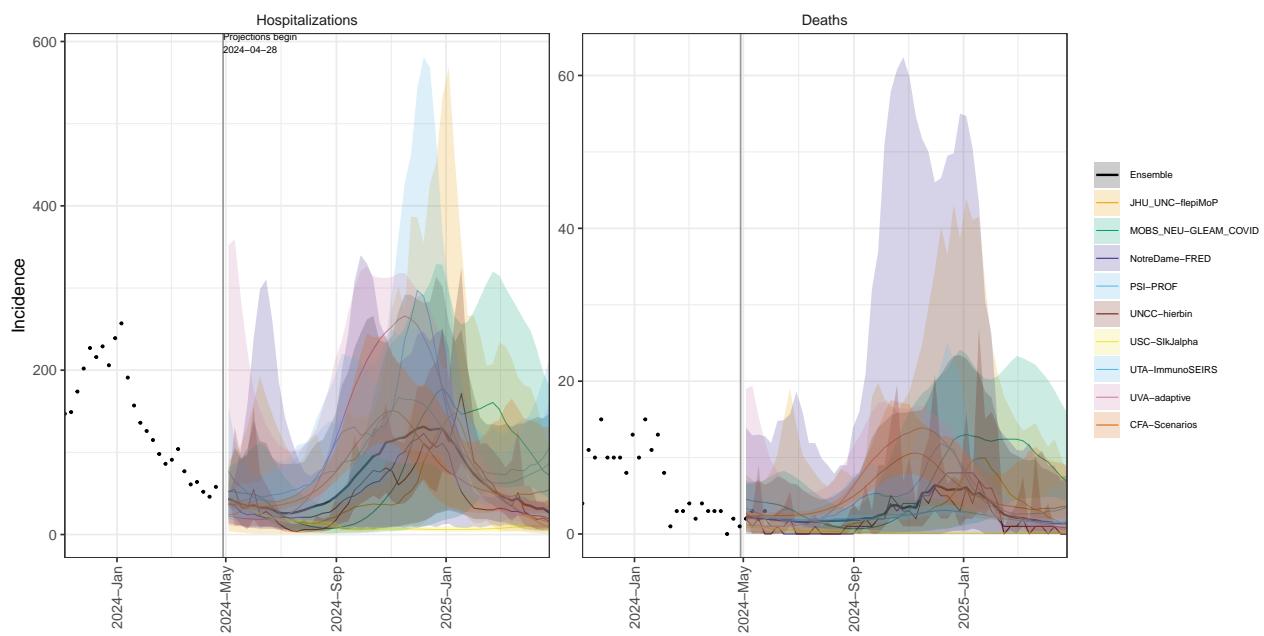
TN model variance & 95% projection intervals – Booster for high-risk, Low immune escape



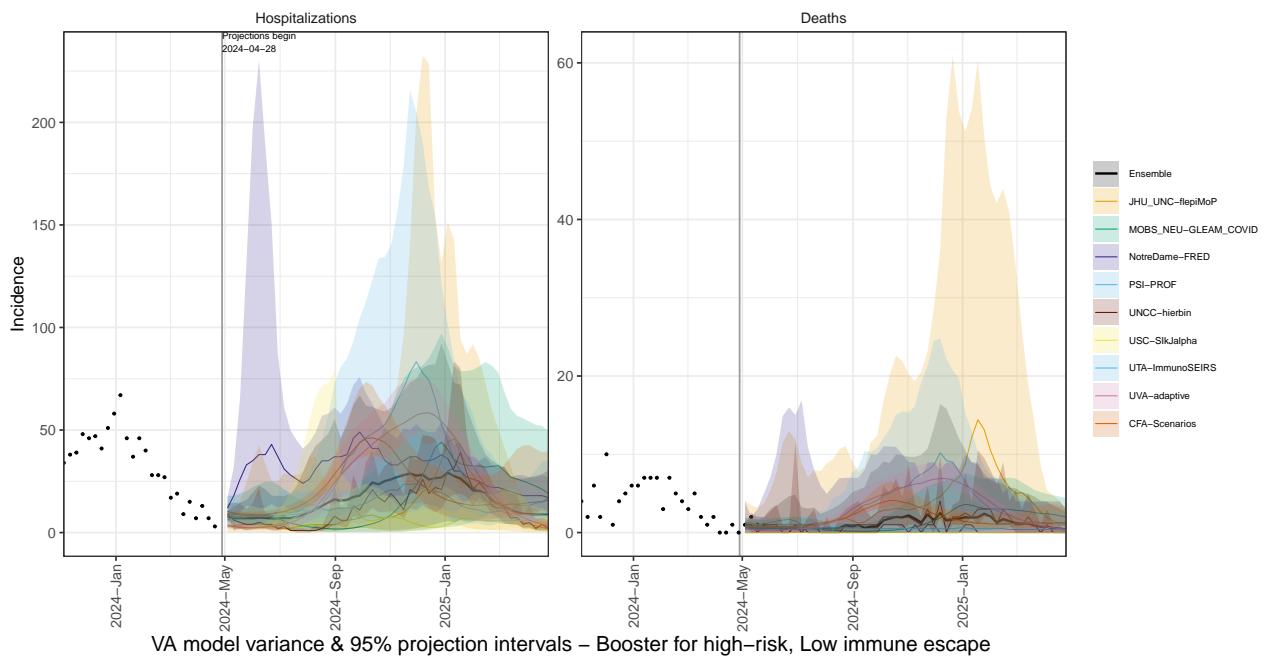
TX model variance & 95% projection intervals – Booster for high-risk, Low immune escape



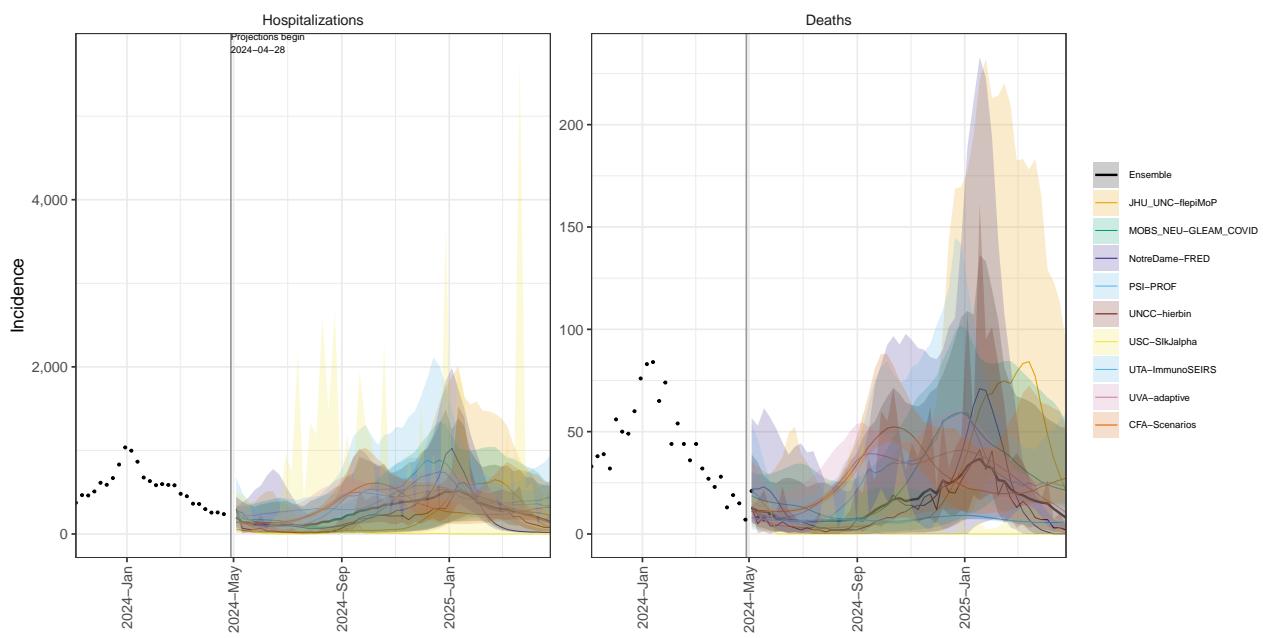
UT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



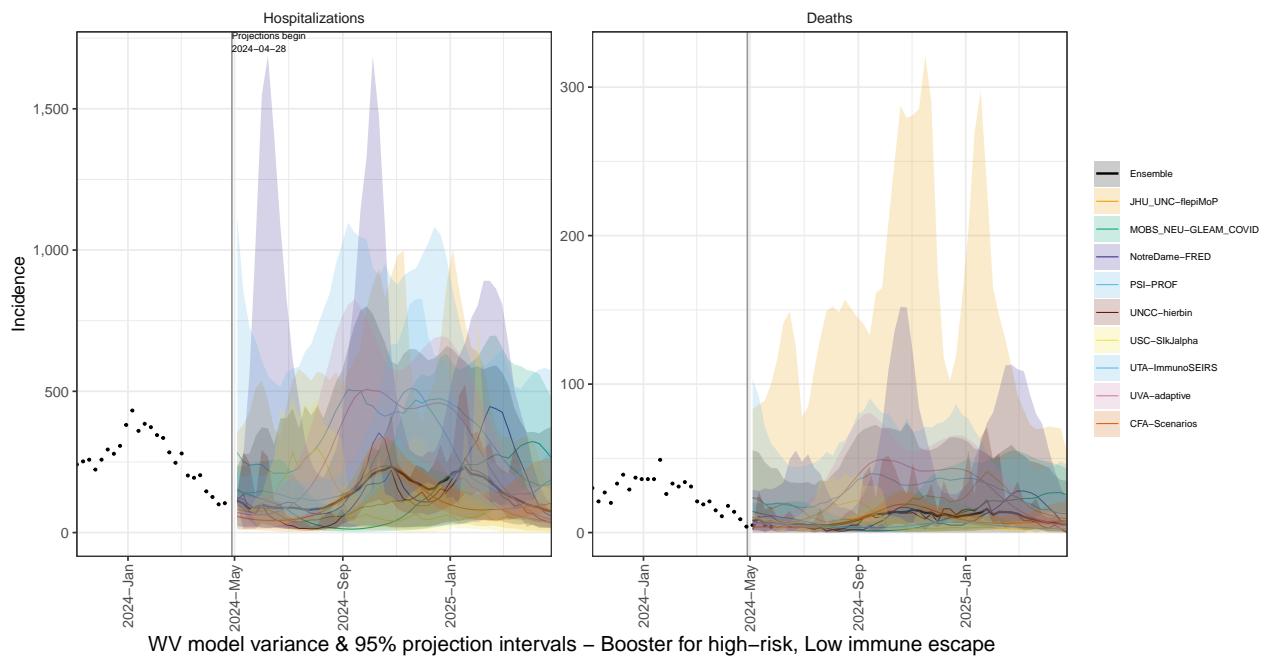
VT model variance & 95% projection intervals – Booster for high-risk, Low immune escape



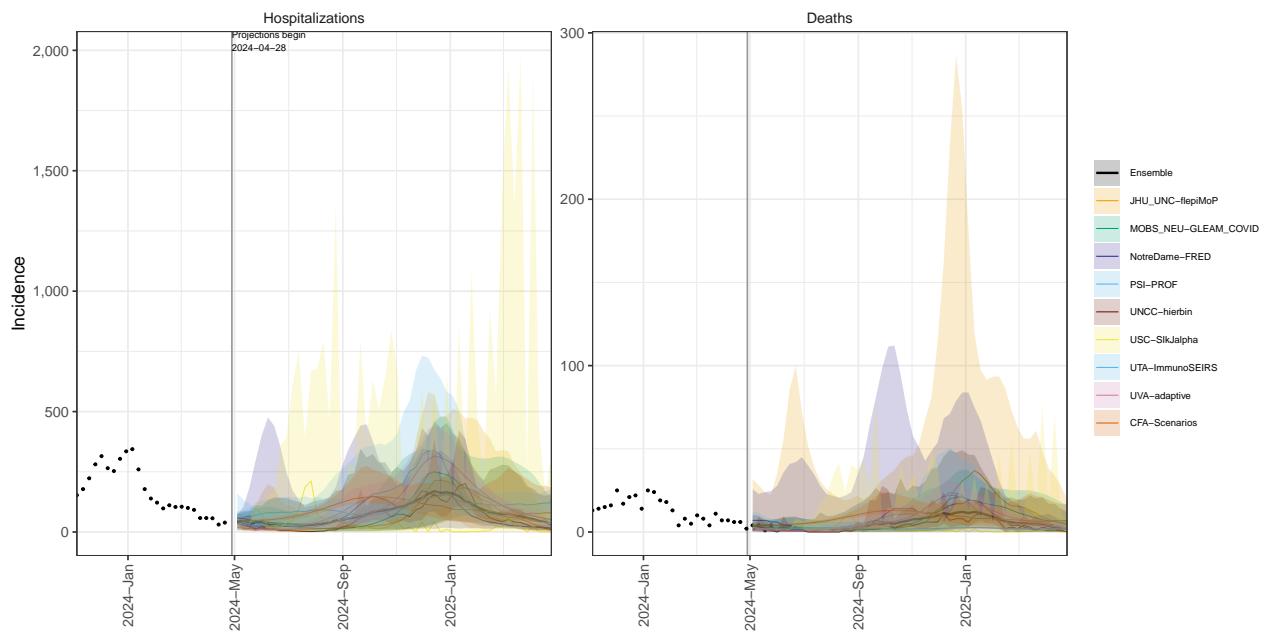
VA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



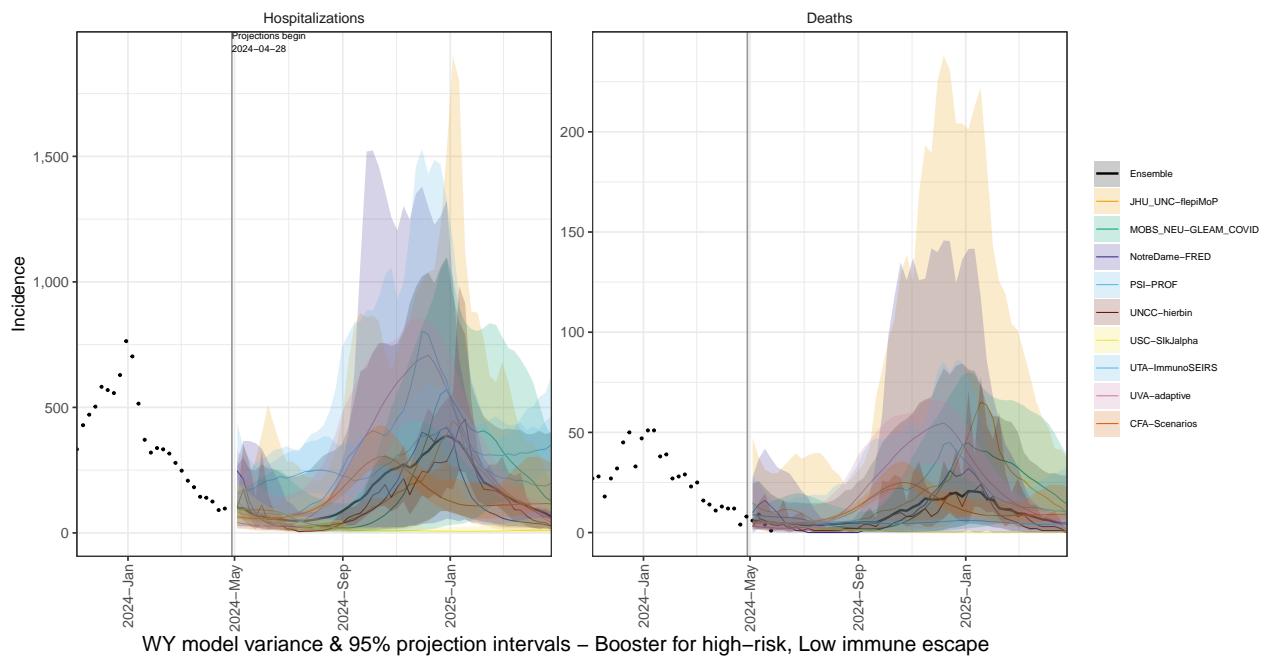
WA model variance & 95% projection intervals – Booster for high-risk, Low immune escape



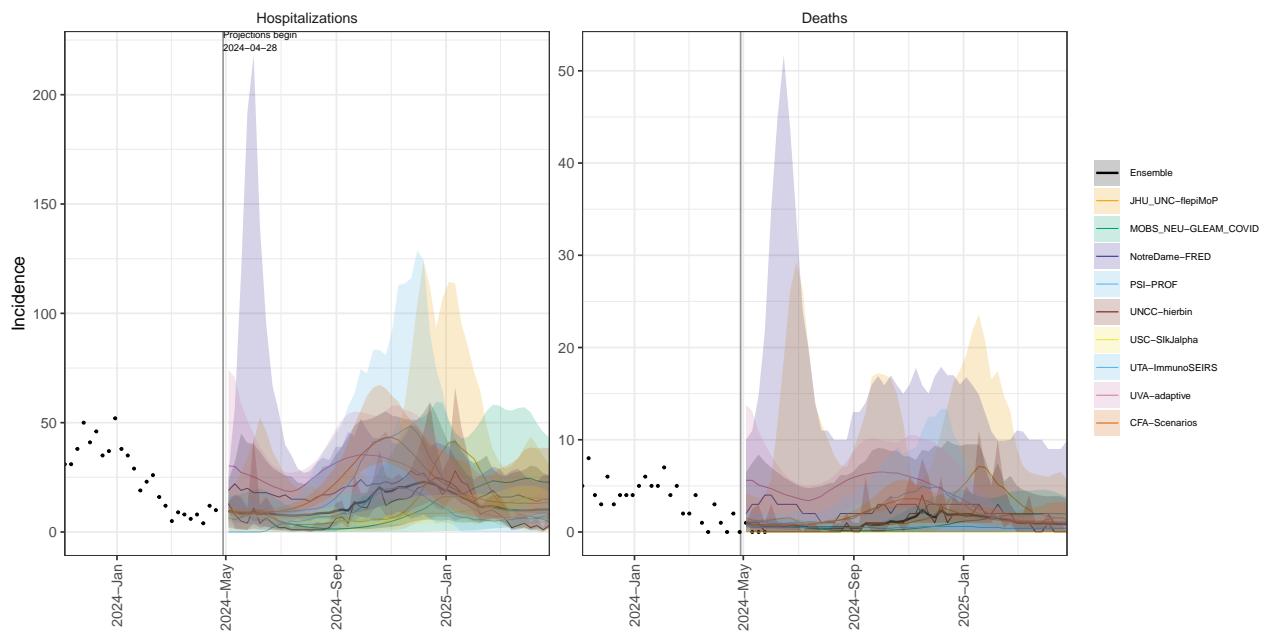
WV model variance & 95% projection intervals – Booster for high-risk, Low immune escape



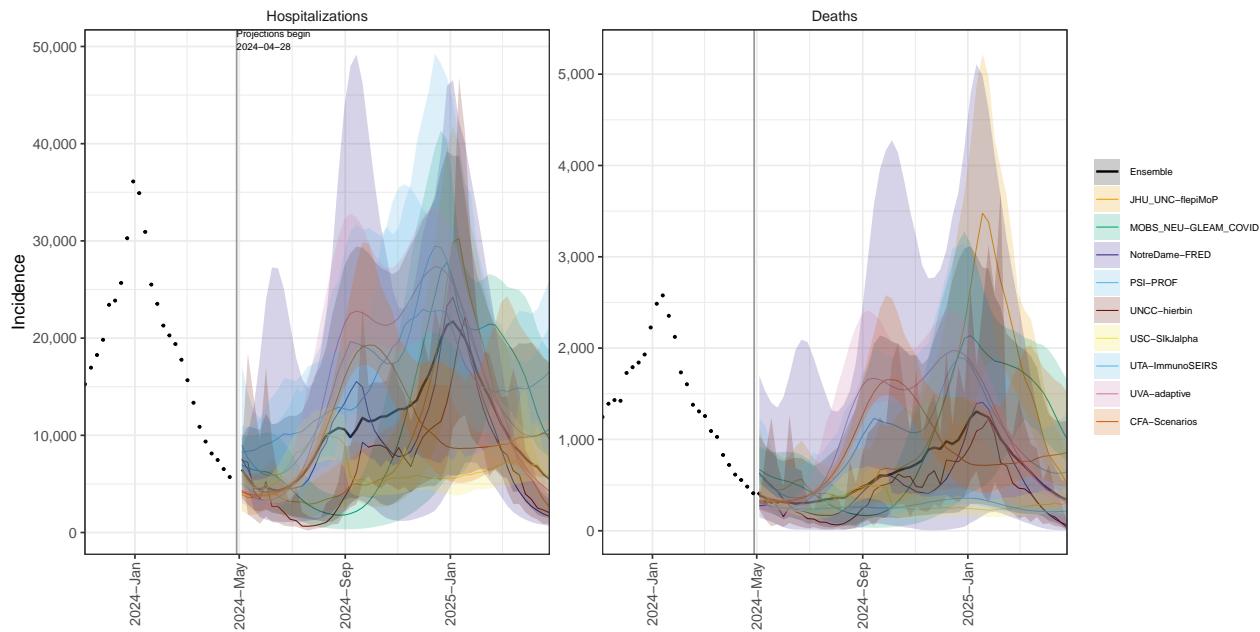
WI model variance & 95% projection intervals – Booster for high-risk, Low immune escape



WY model variance & 95% projection intervals – Booster for high-risk, Low immune escape

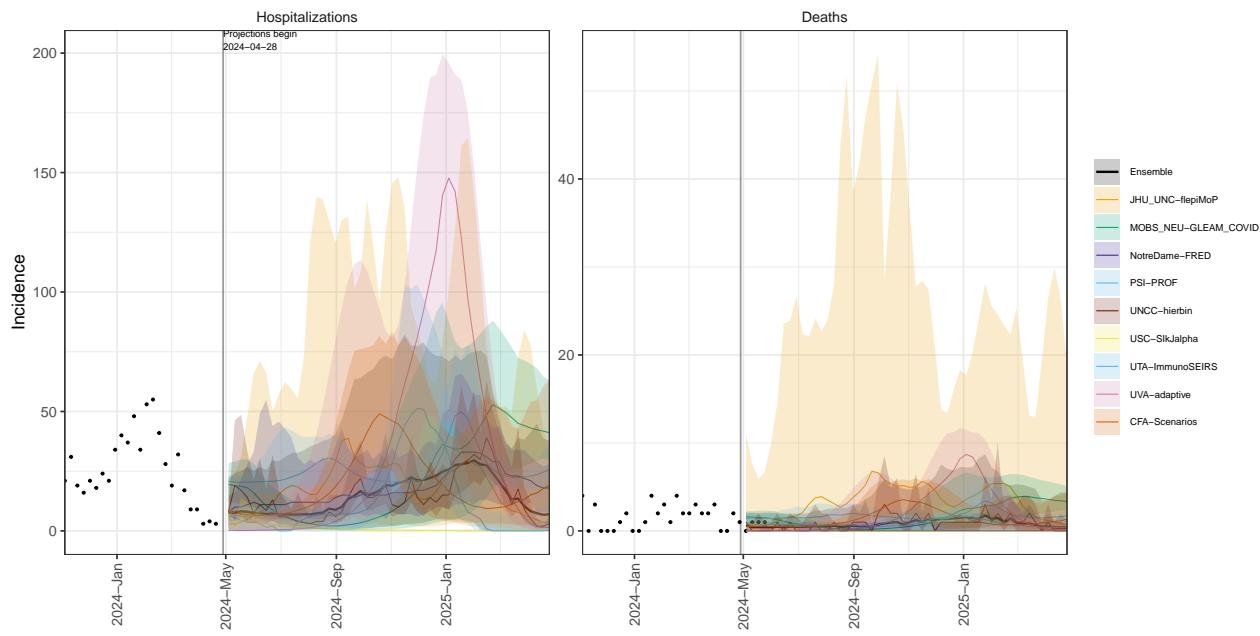


US model variance & 95% projection intervals – Booster for high-risk, Low immune escape

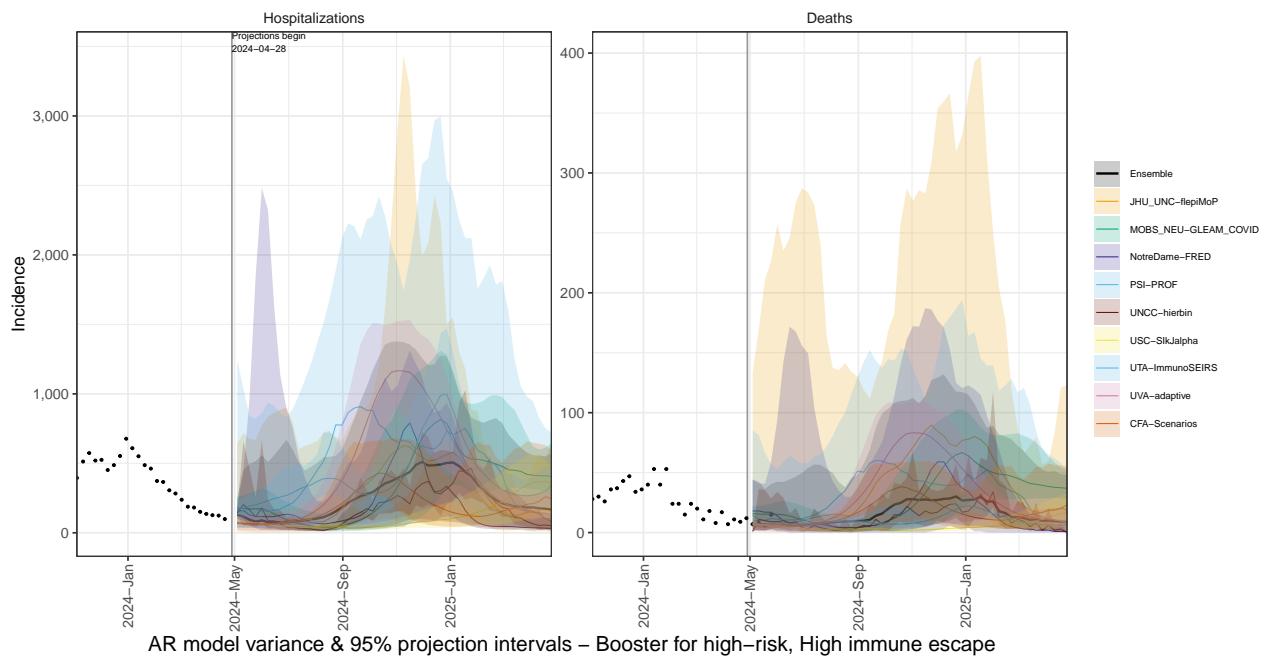


Model variation for the Booster for high-risk, High immune escape scenario.

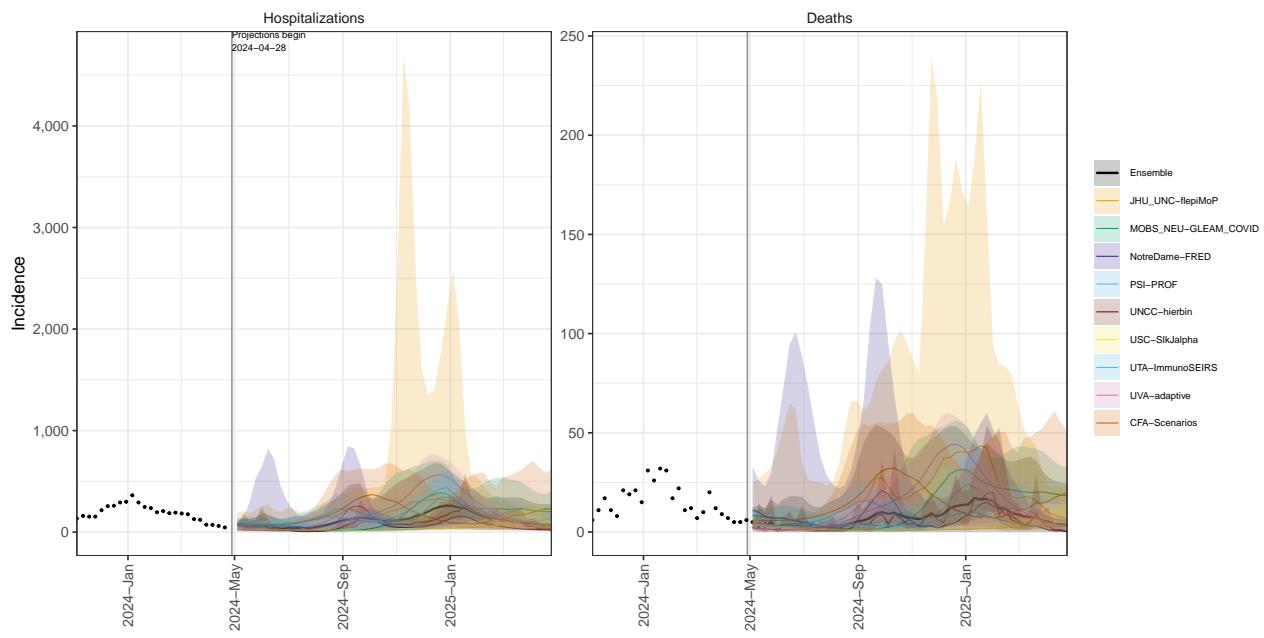
AK model variance & 95% projection intervals – Booster for high-risk, High immune escape



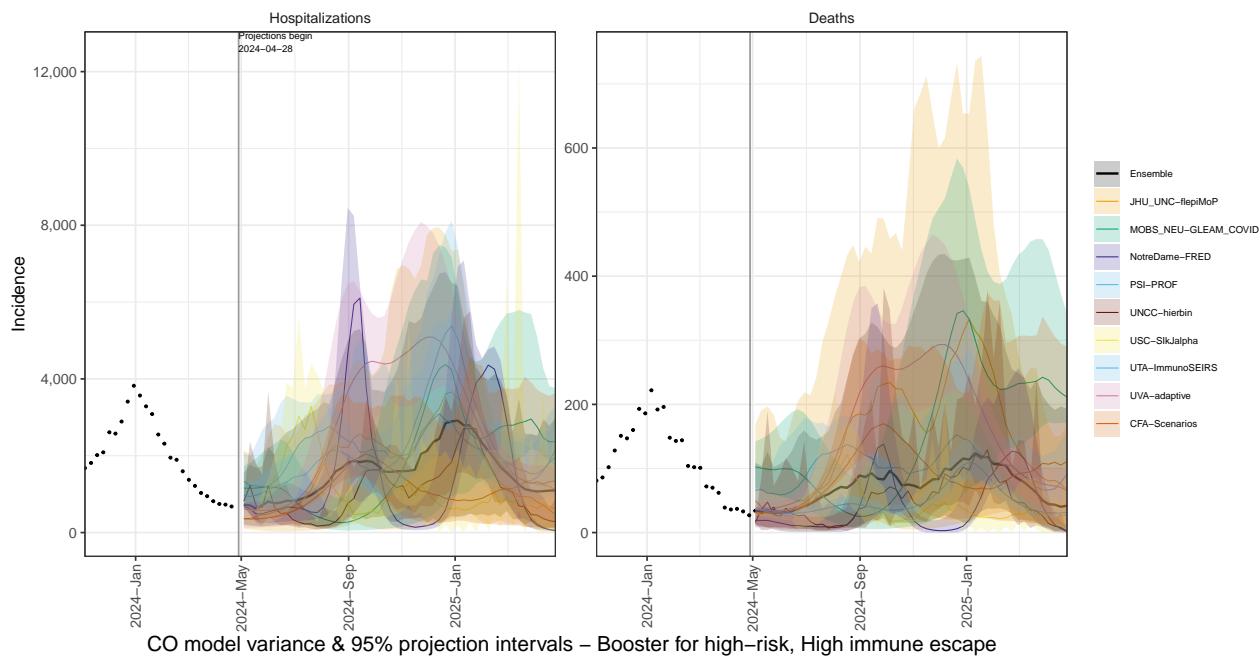
AZ model variance & 95% projection intervals – Booster for high-risk, High immune escape



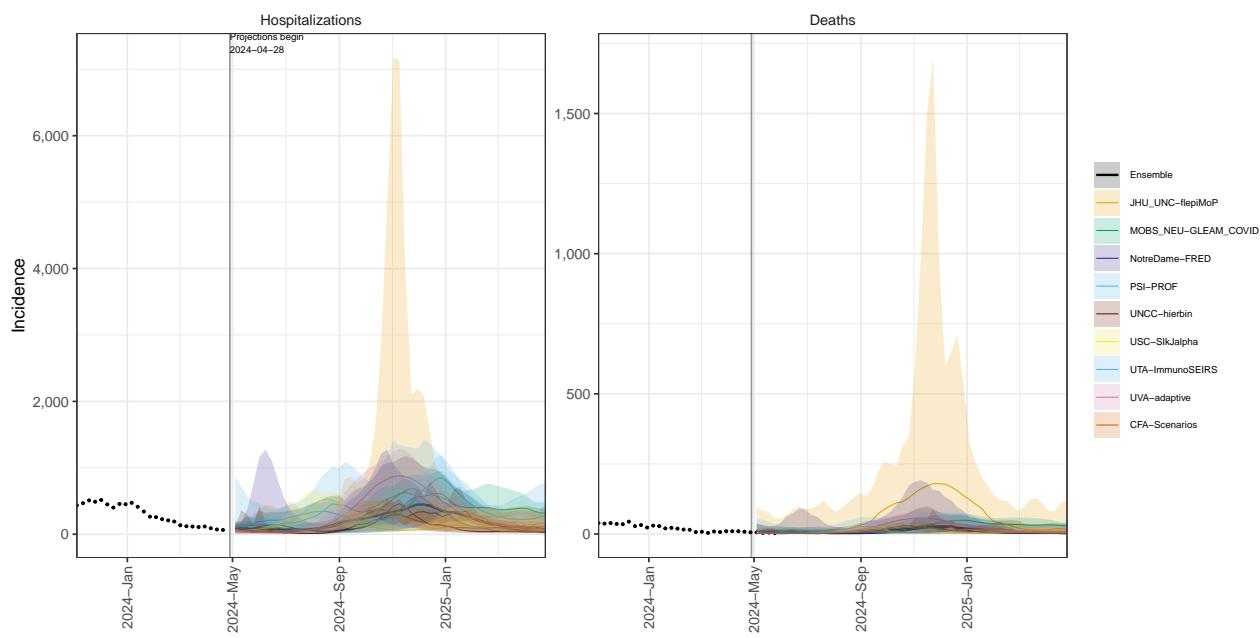
AR model variance & 95% projection intervals – Booster for high-risk, High immune escape



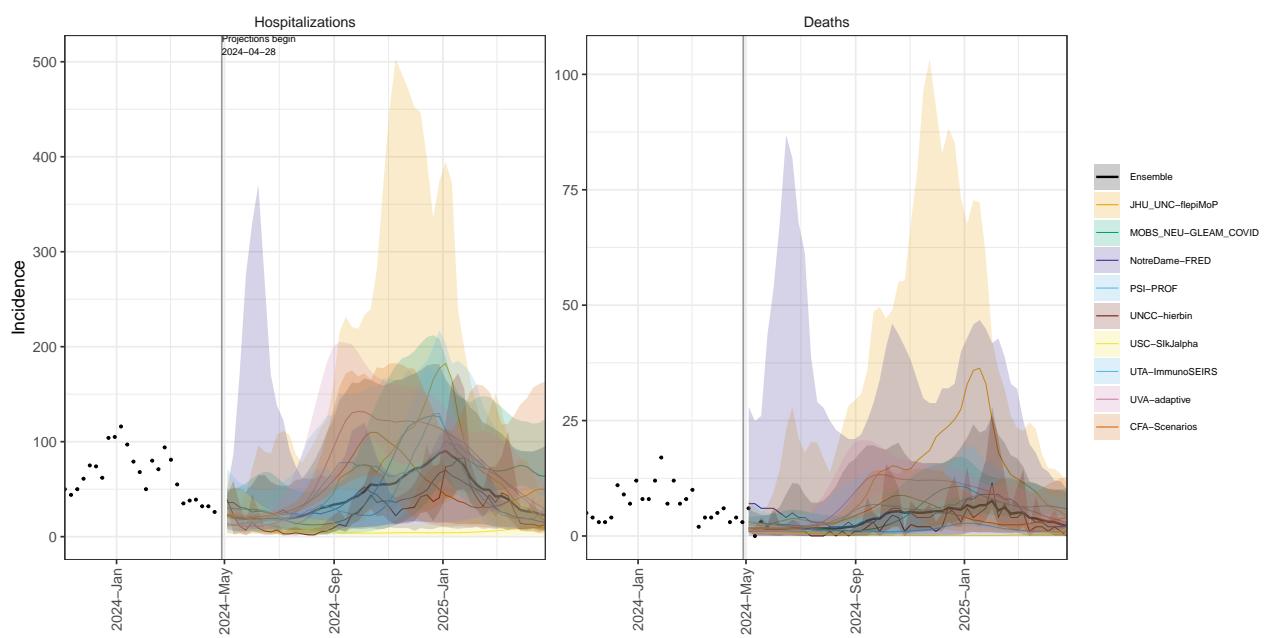
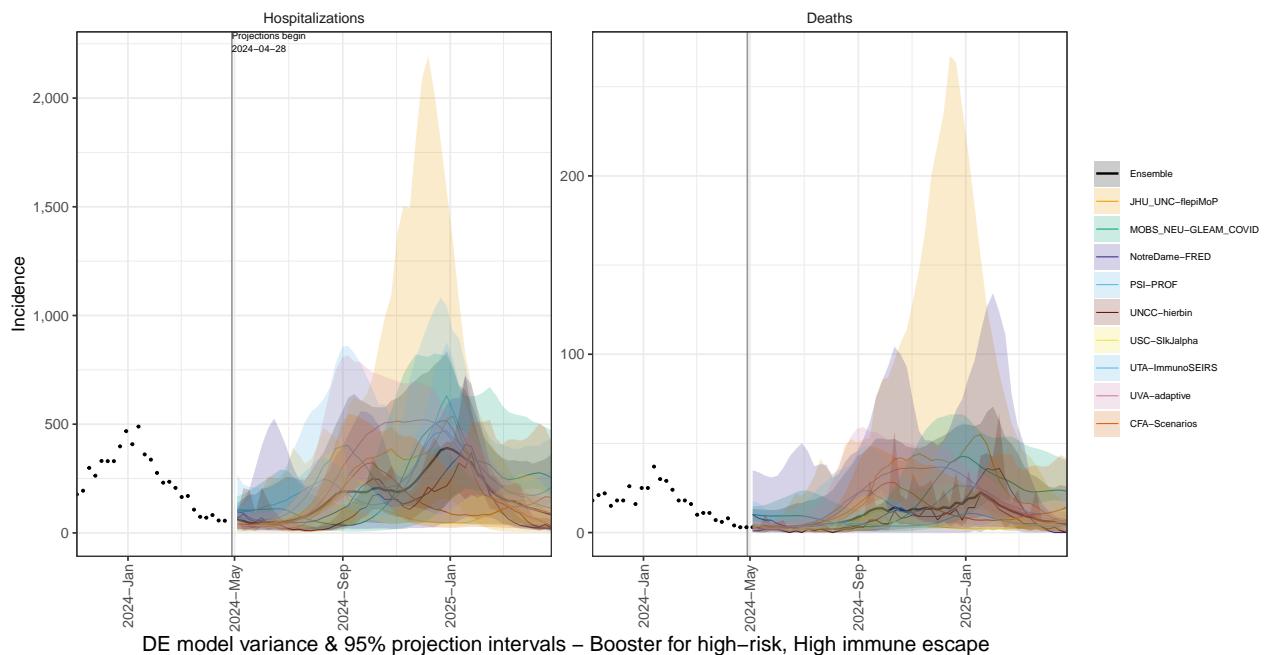
CA model variance & 95% projection intervals – Booster for high-risk, High immune escape



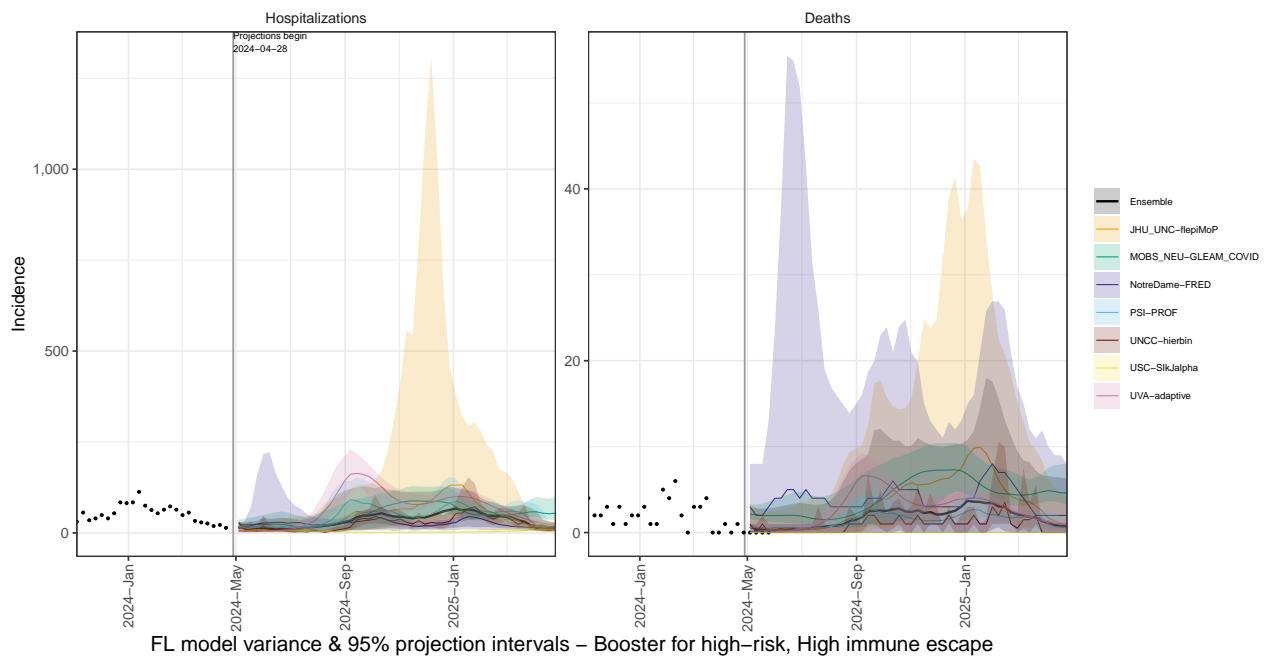
CO model variance & 95% projection intervals – Booster for high-risk, High immune escape



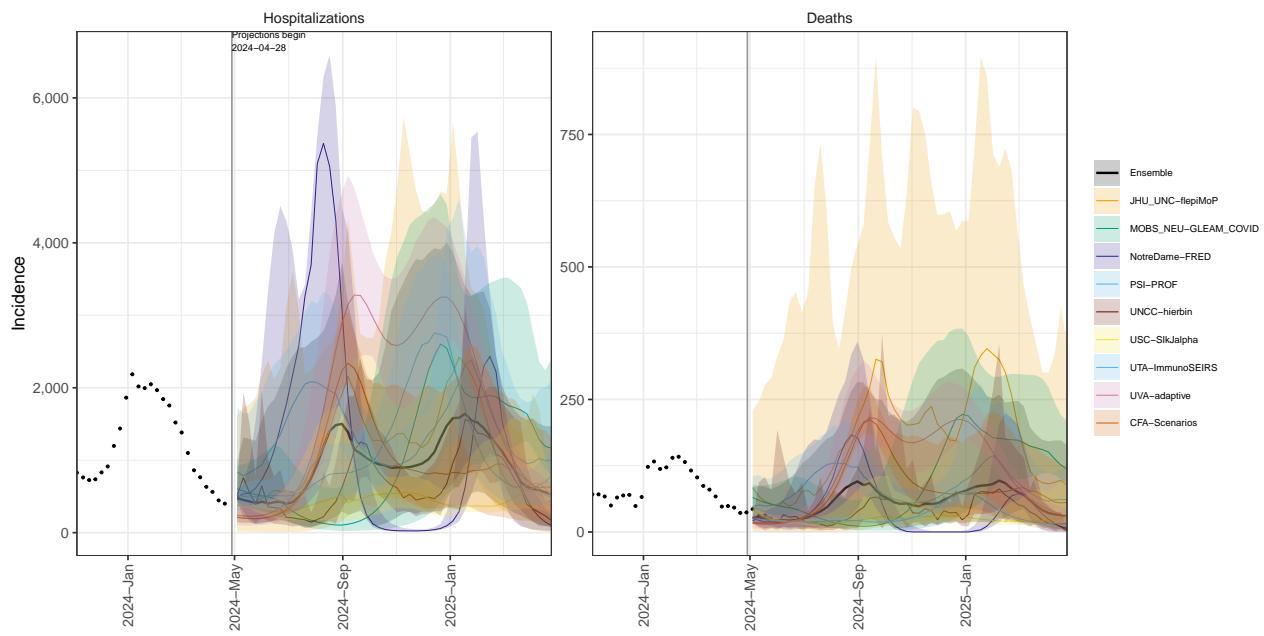
CT model variance & 95% projection intervals – Booster for high-risk, High immune escape



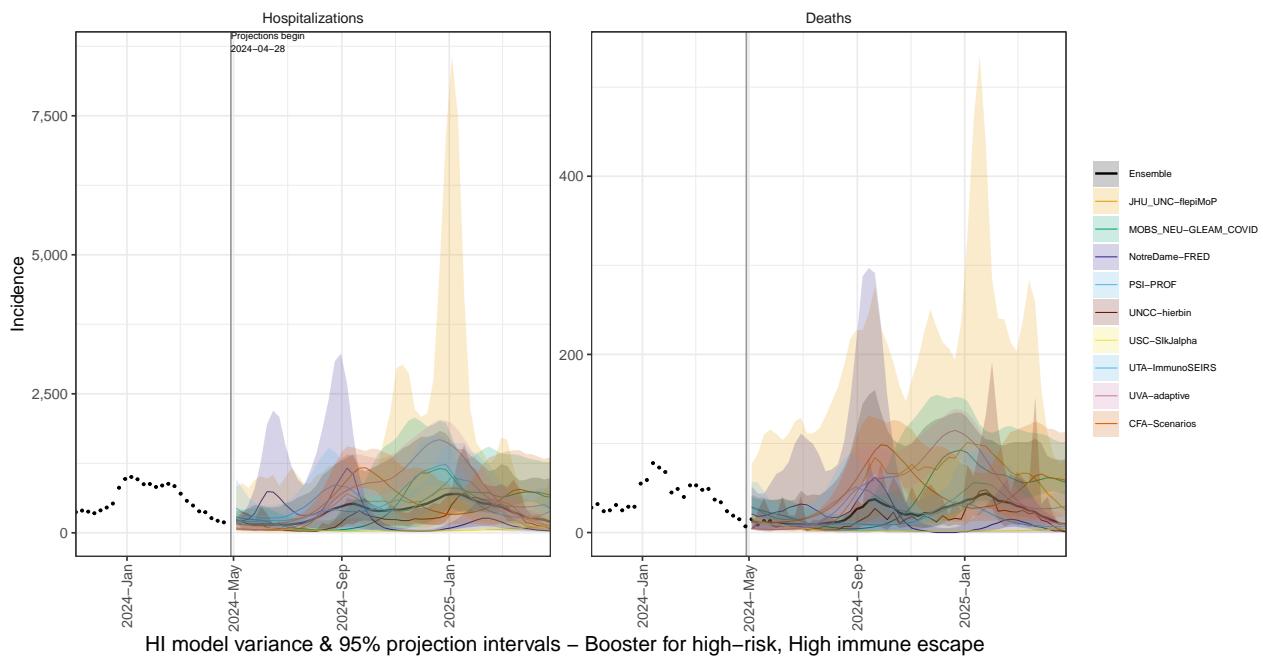
DC model variance & 95% projection intervals – Booster for high-risk, High immune escape



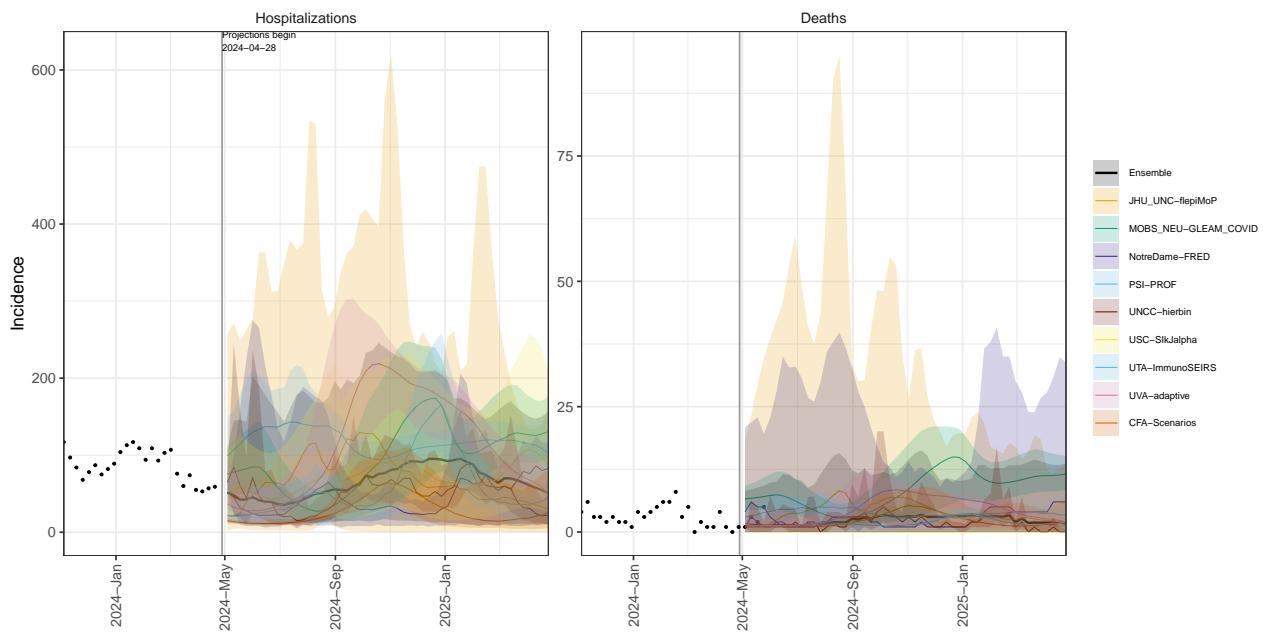
FL model variance & 95% projection intervals – Booster for high-risk, High immune escape



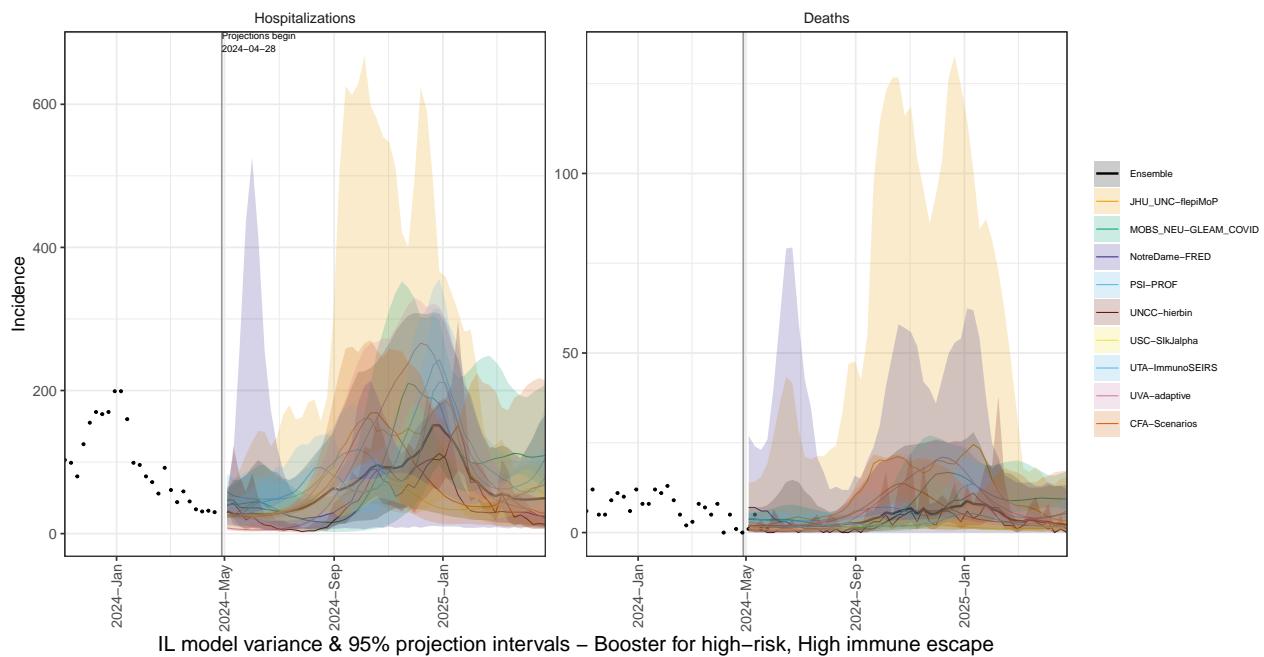
GA model variance & 95% projection intervals – Booster for high-risk, High immune escape



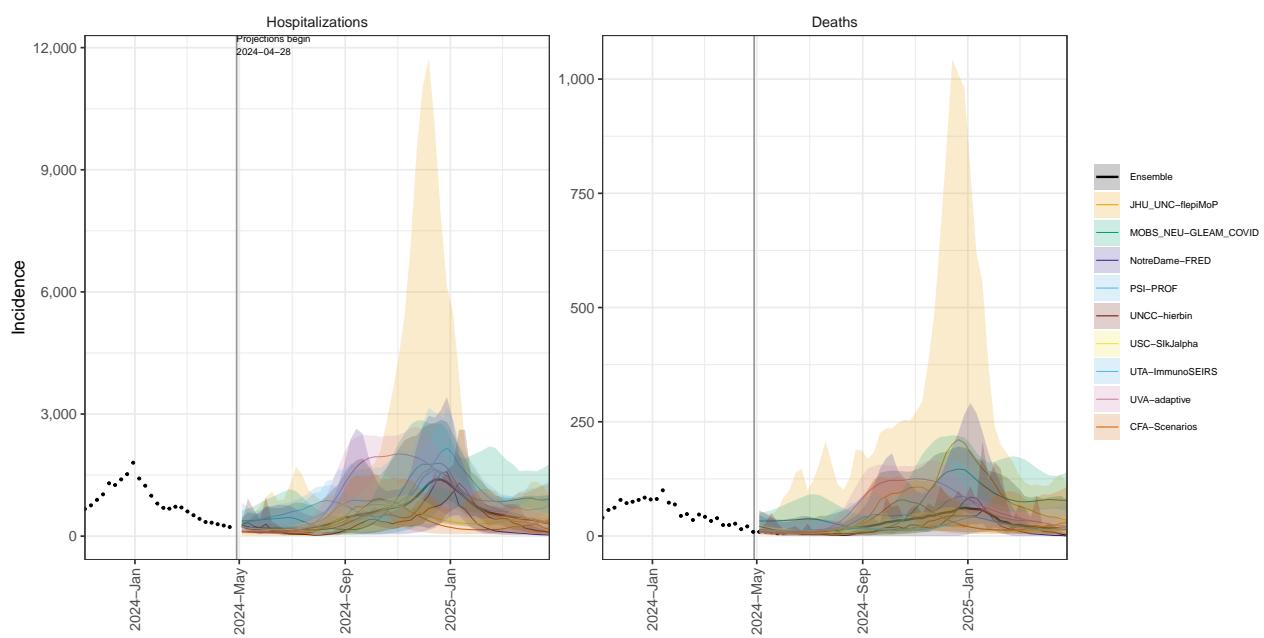
HI model variance & 95% projection intervals – Booster for high-risk, High immune escape



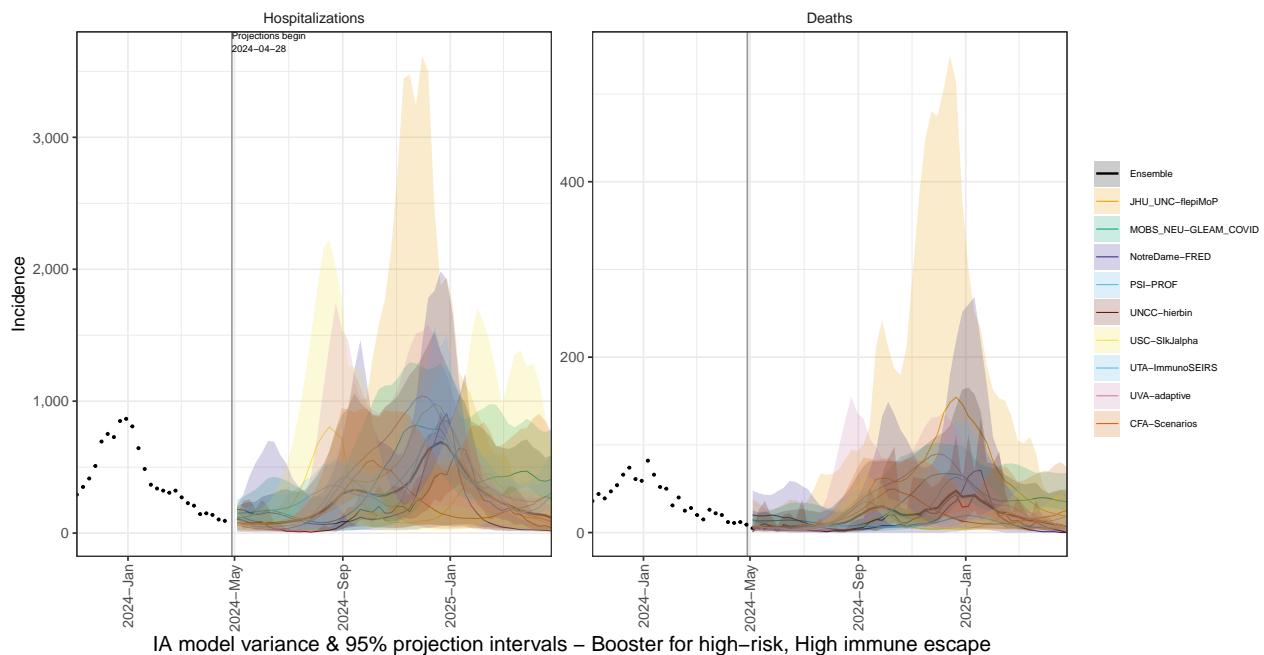
ID model variance & 95% projection intervals – Booster for high-risk, High immune escape



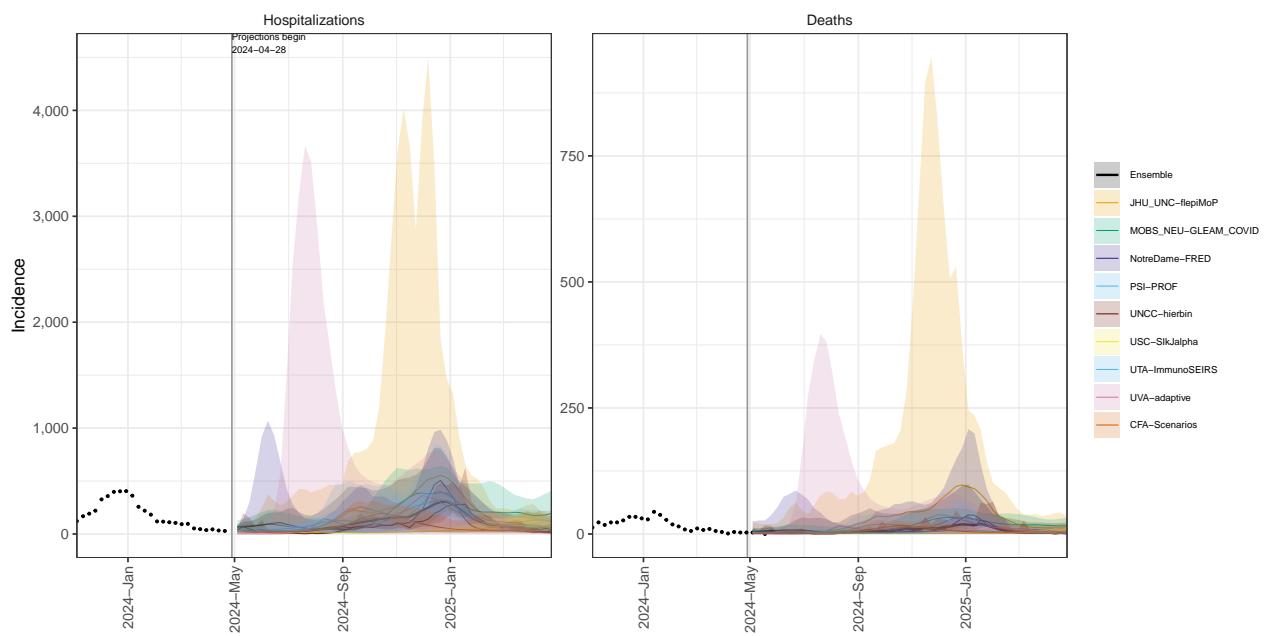
IL model variance & 95% projection intervals – Booster for high-risk, High immune escape



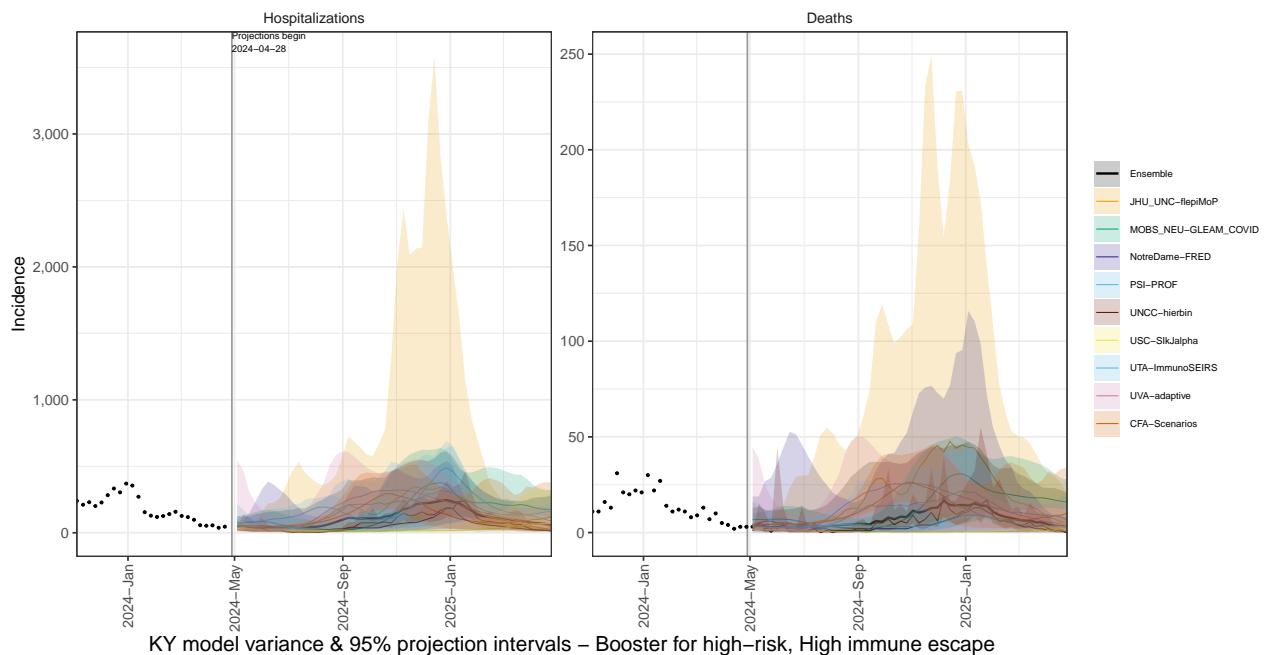
IN model variance & 95% projection intervals – Booster for high-risk, High immune escape



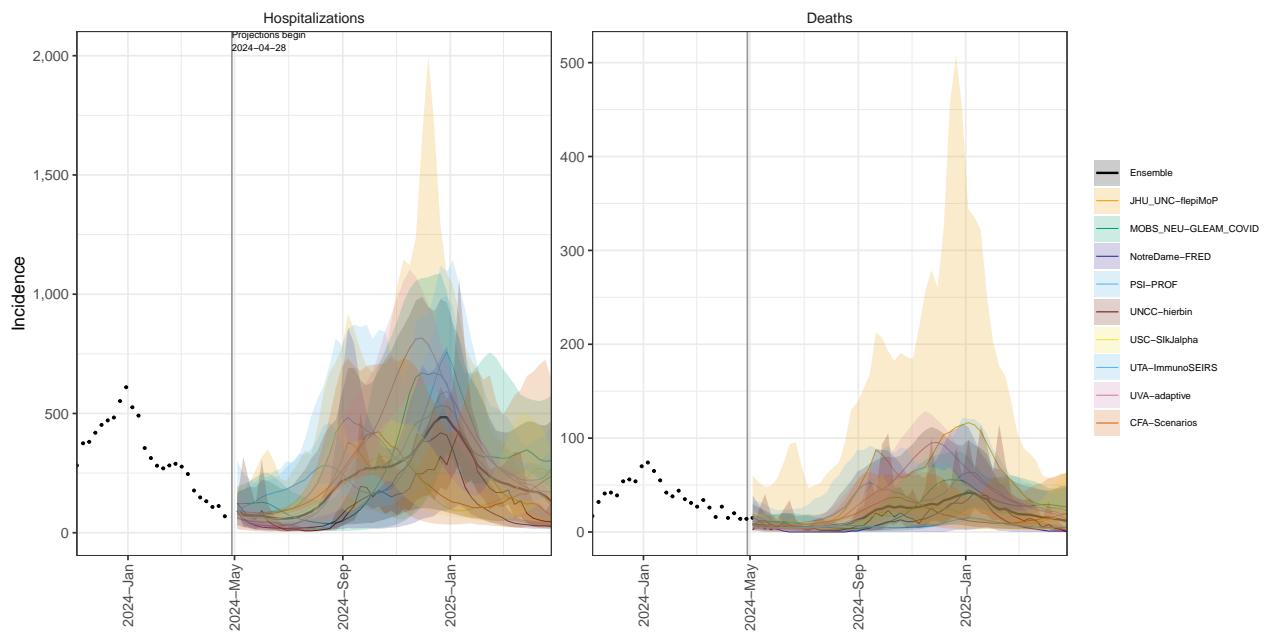
IA model variance & 95% projection intervals – Booster for high-risk, High immune escape



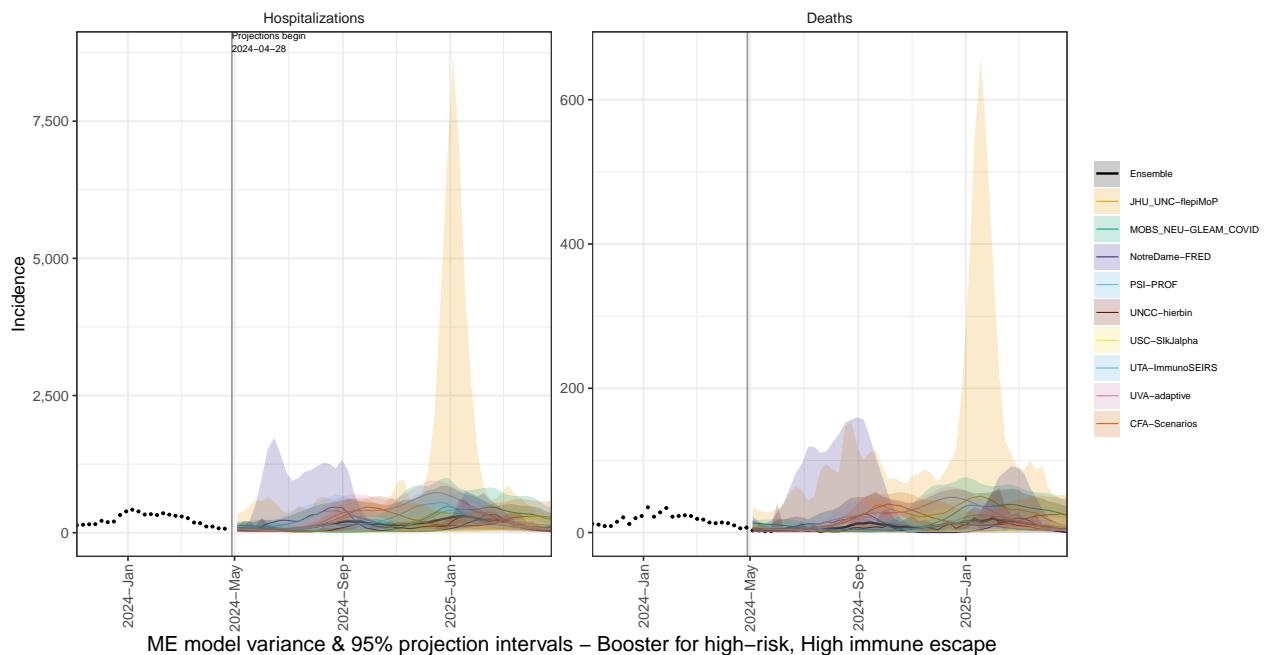
KS model variance & 95% projection intervals – Booster for high-risk, High immune escape



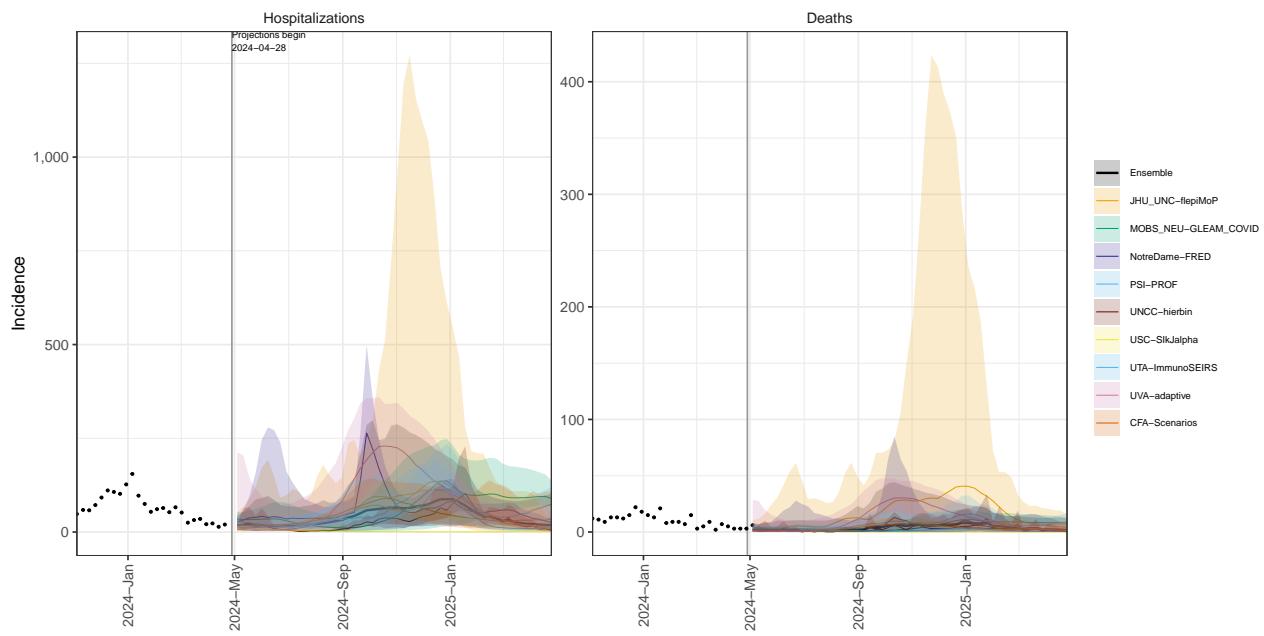
KY model variance & 95% projection intervals – Booster for high-risk, High immune escape



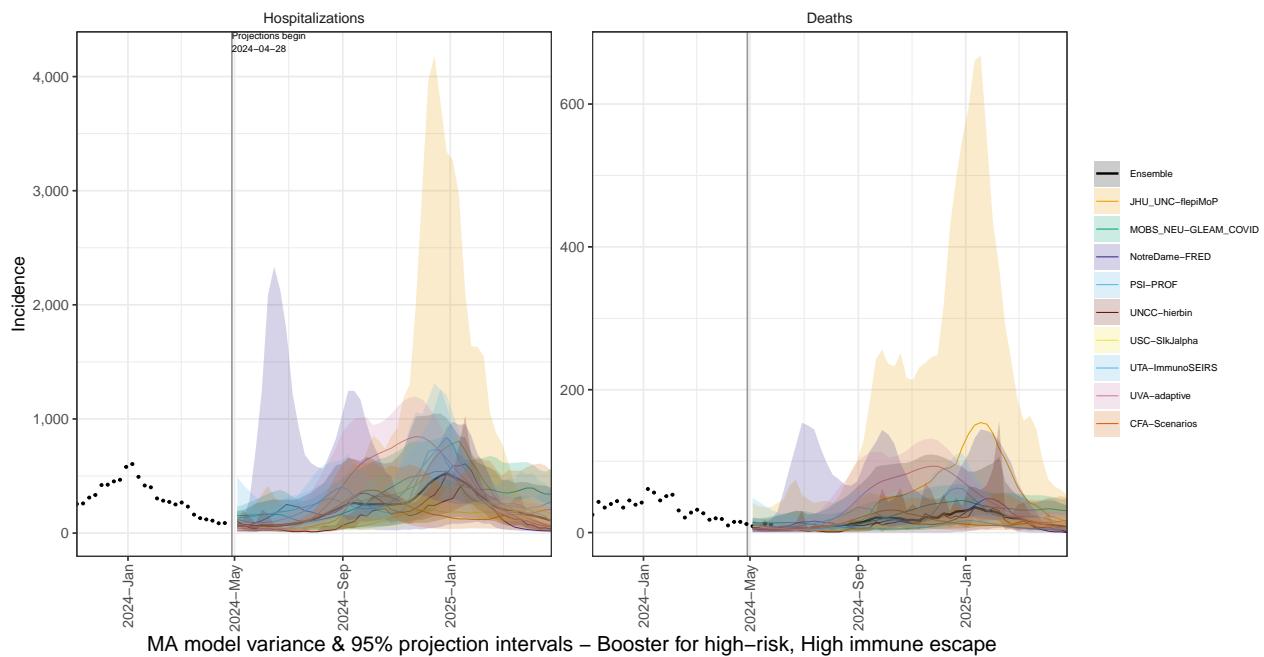
LA model variance & 95% projection intervals – Booster for high-risk, High immune escape



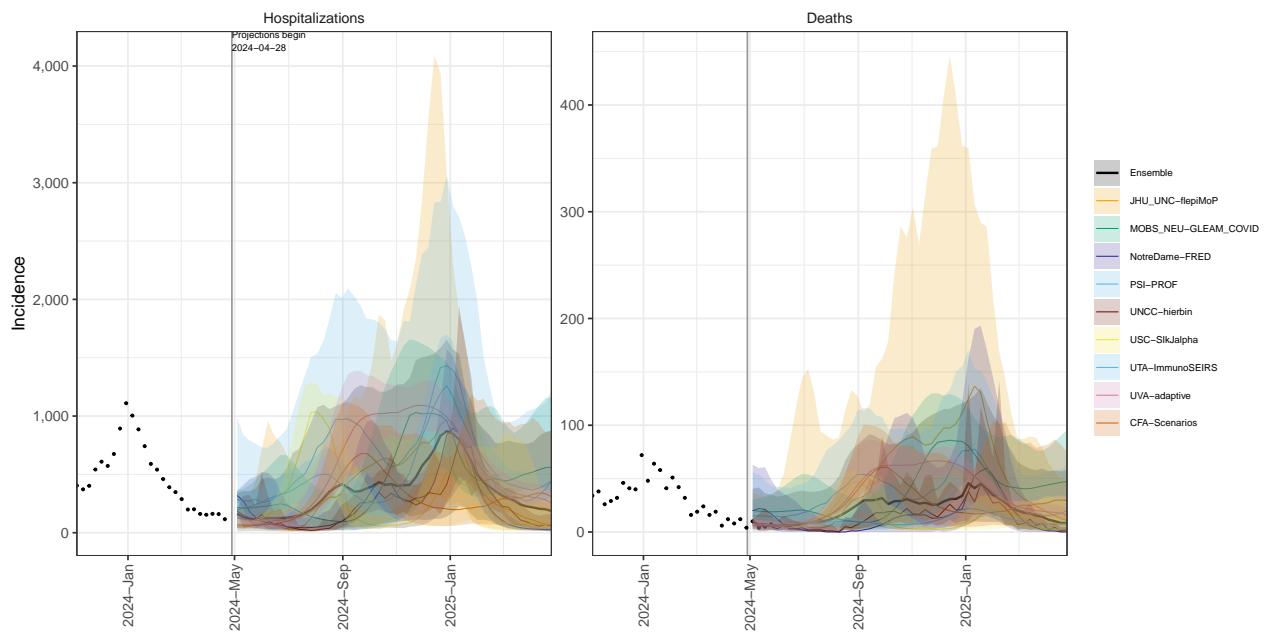
ME model variance & 95% projection intervals – Booster for high-risk, High immune escape



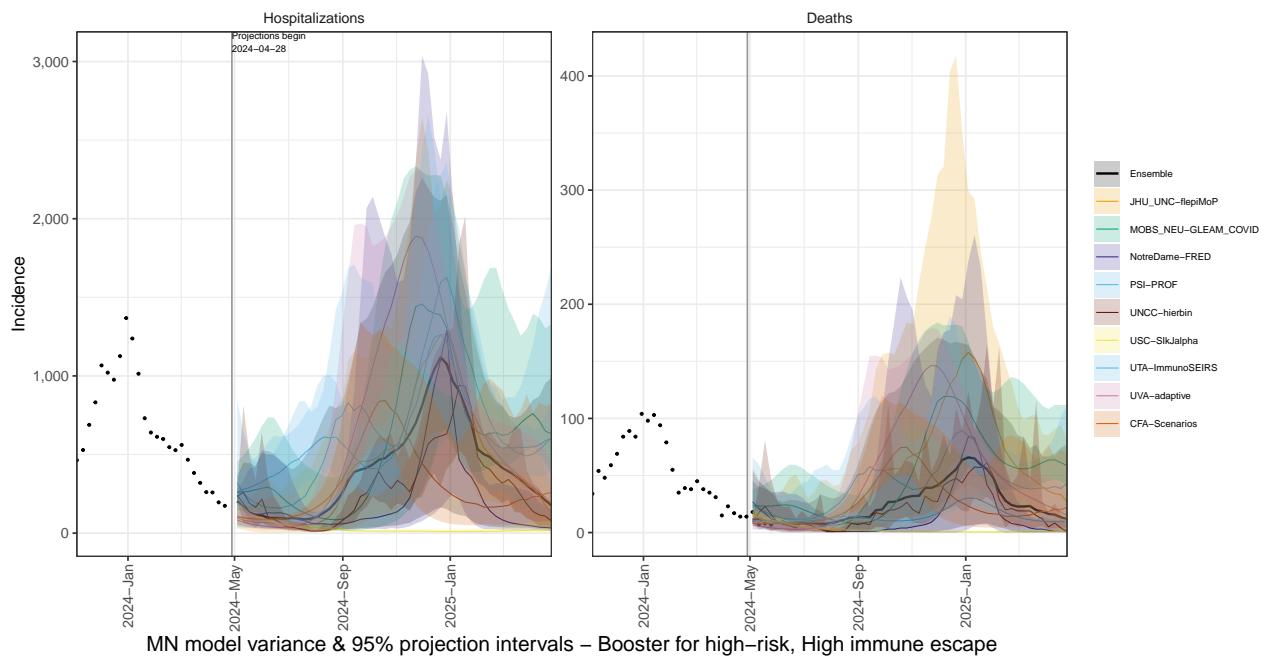
MD model variance & 95% projection intervals – Booster for high-risk, High immune escape



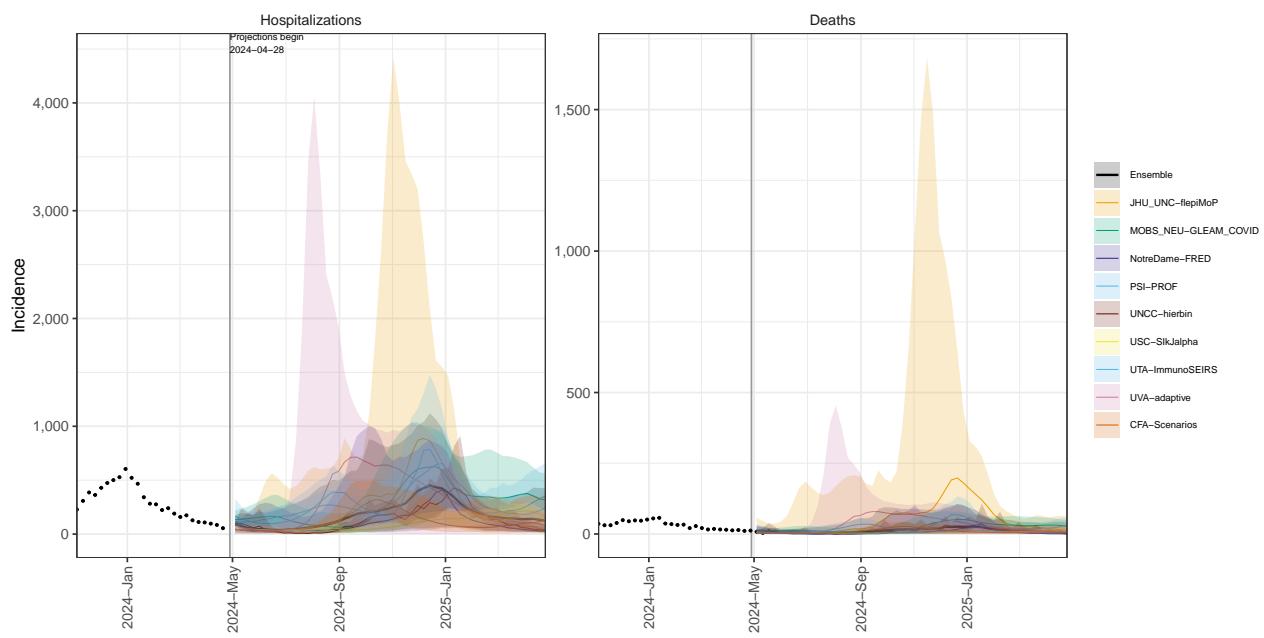
MA model variance & 95% projection intervals – Booster for high-risk, High immune escape



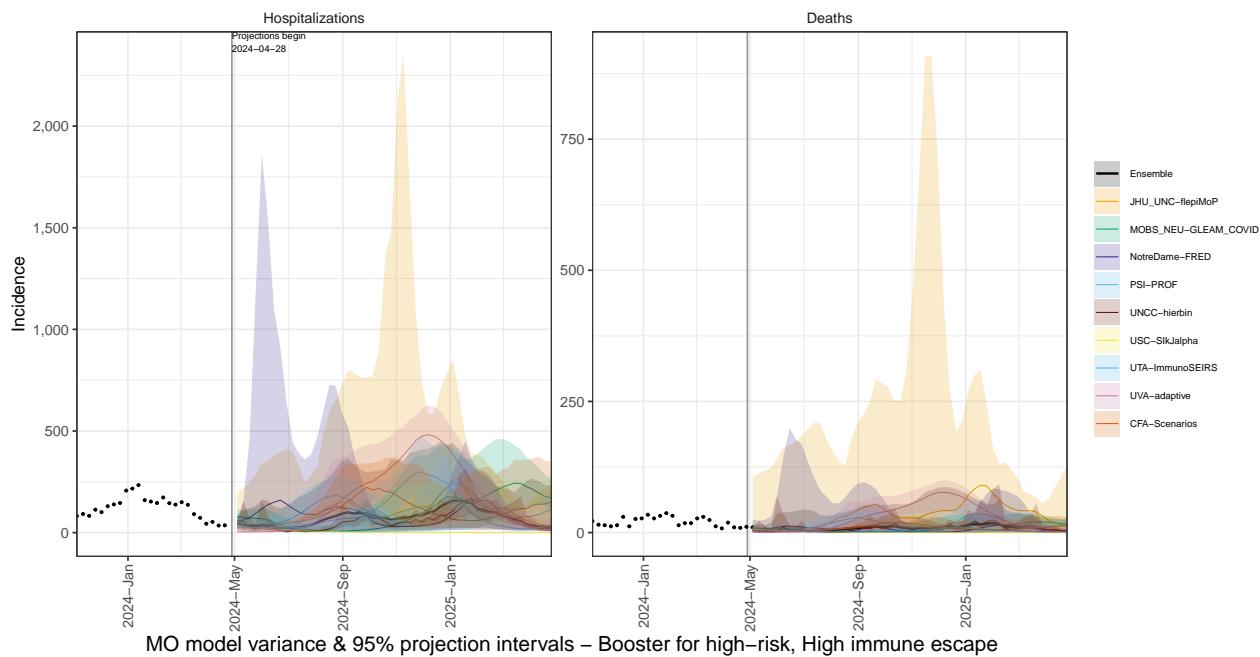
MI model variance & 95% projection intervals – Booster for high-risk, High immune escape



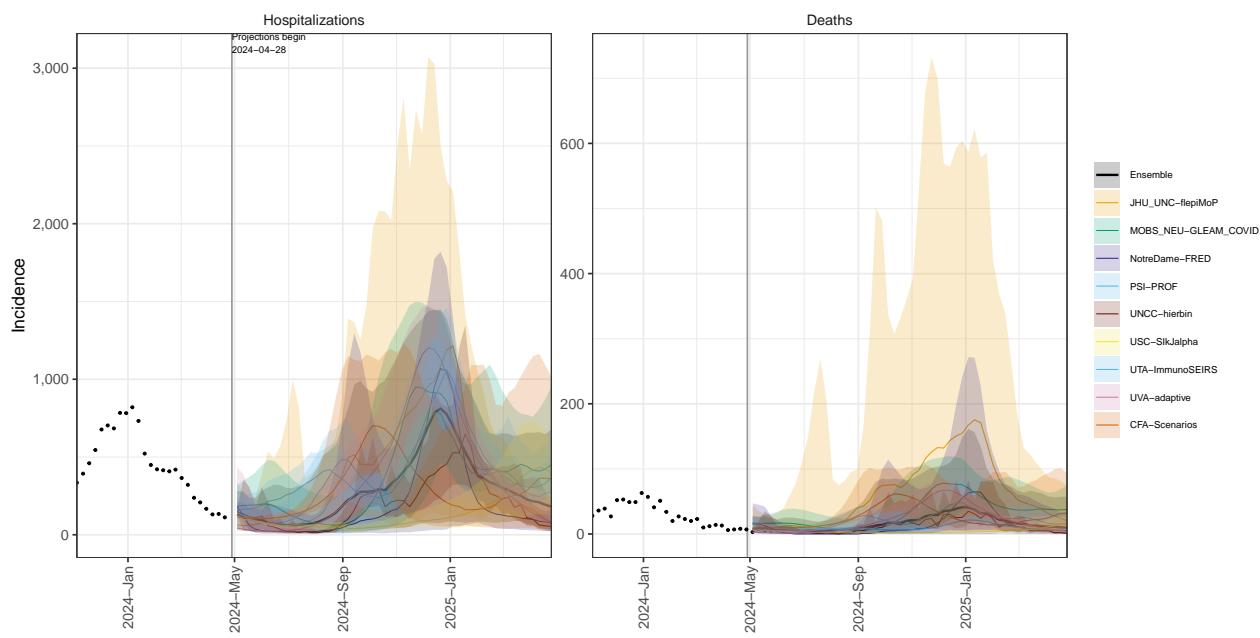
MN model variance & 95% projection intervals – Booster for high-risk, High immune escape



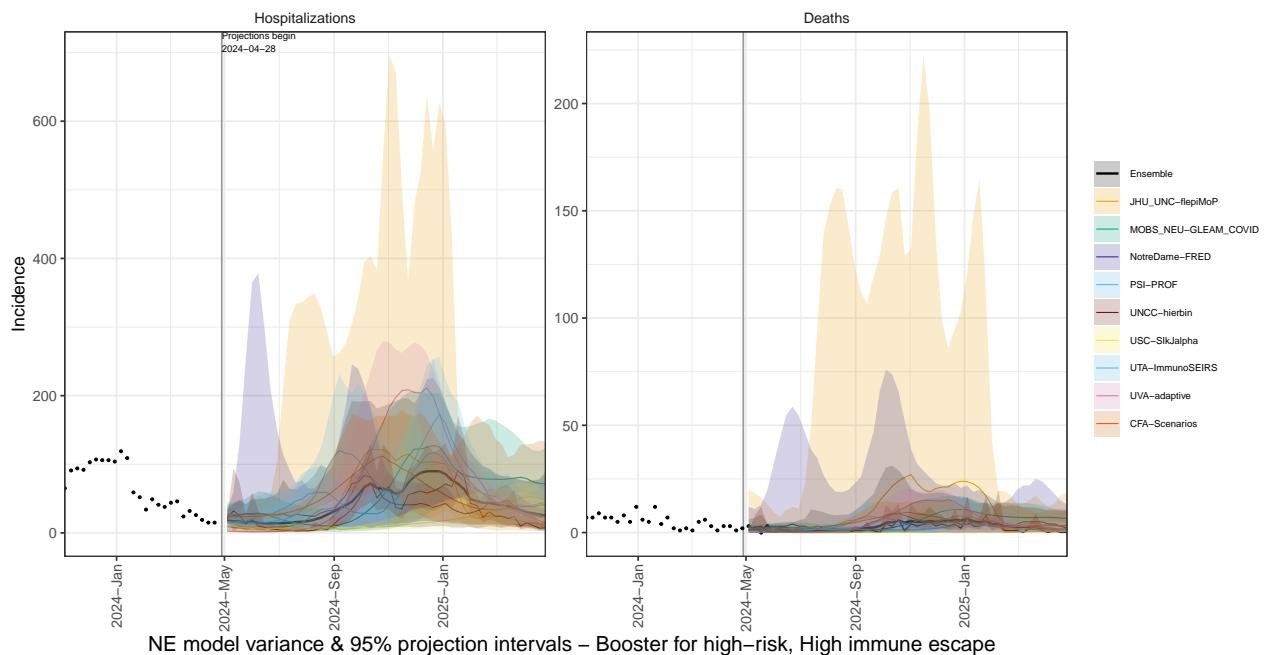
MS model variance & 95% projection intervals – Booster for high-risk, High immune escape



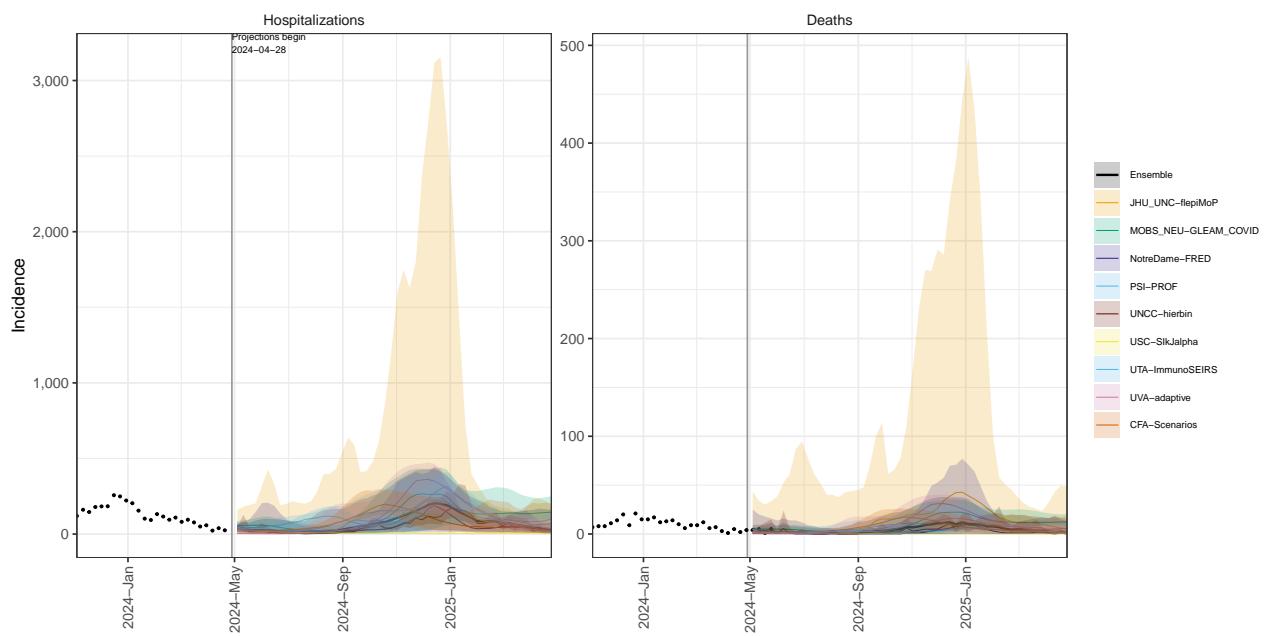
MO model variance & 95% projection intervals – Booster for high-risk, High immune escape



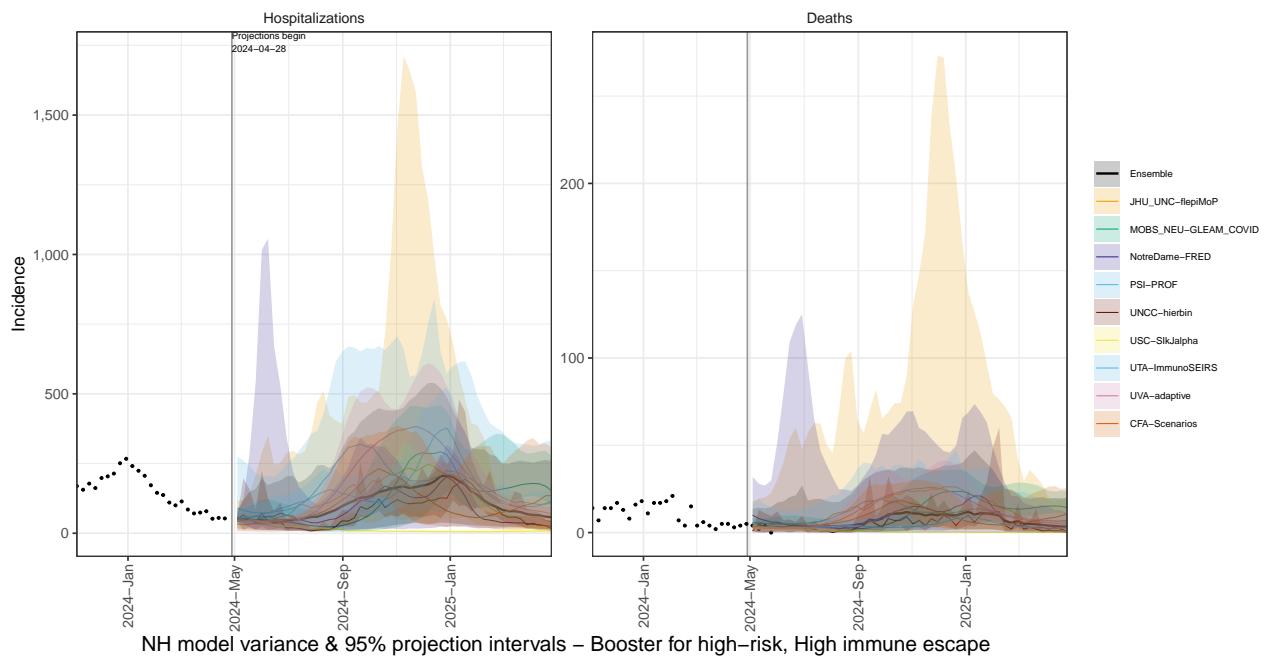
MT model variance & 95% projection intervals – Booster for high-risk, High immune escape



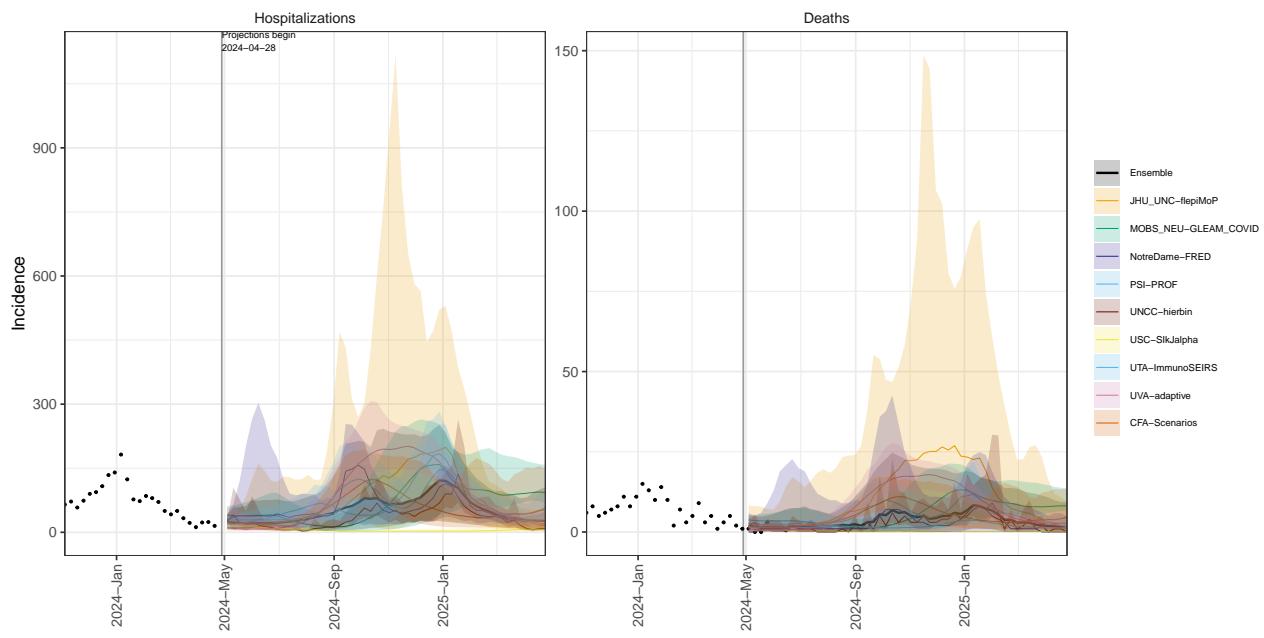
NE model variance & 95% projection intervals – Booster for high-risk, High immune escape



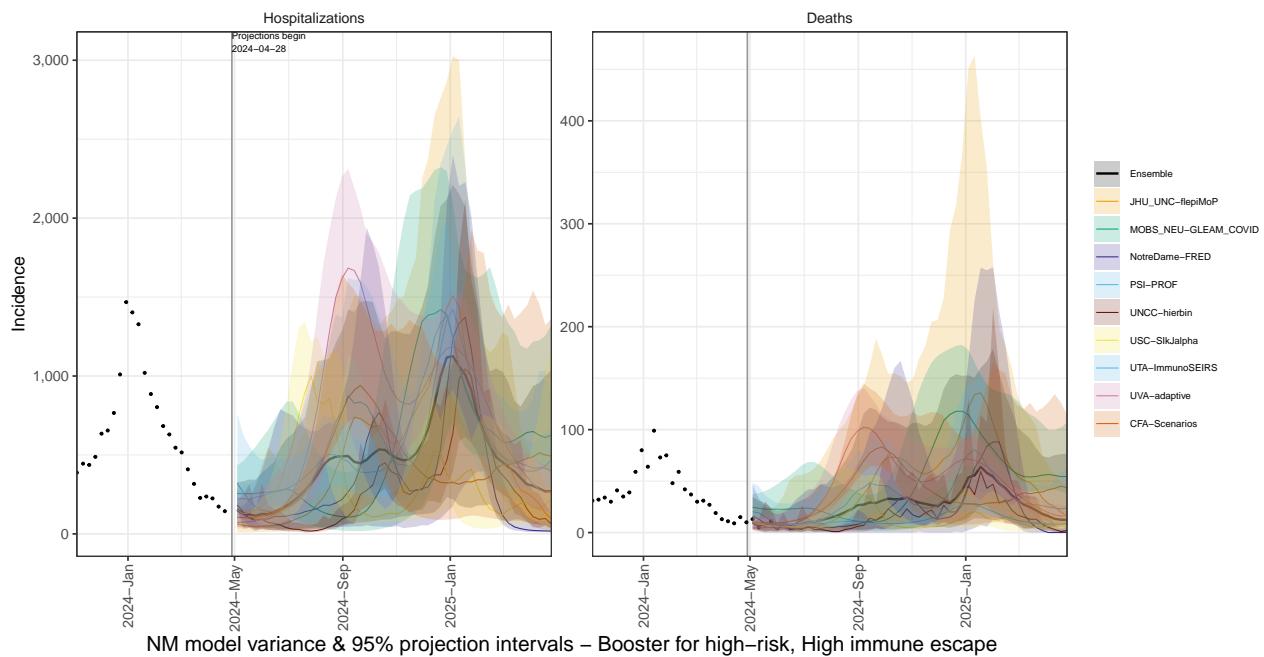
NV model variance & 95% projection intervals – Booster for high-risk, High immune escape



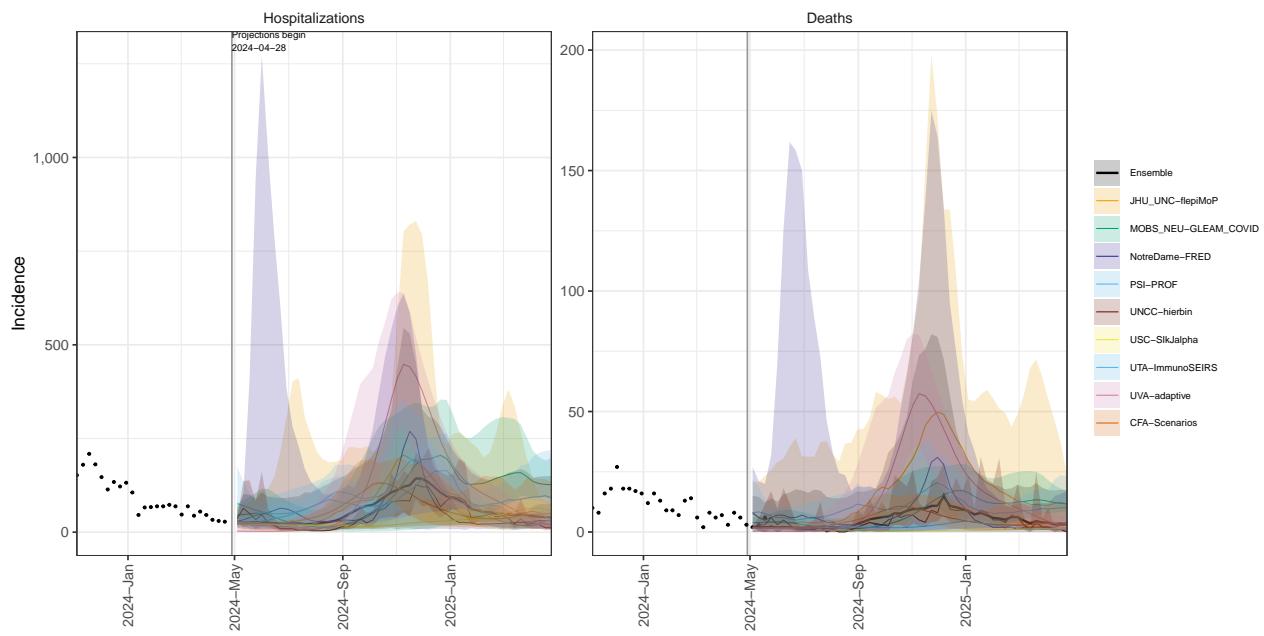
NH model variance & 95% projection intervals – Booster for high-risk, High immune escape



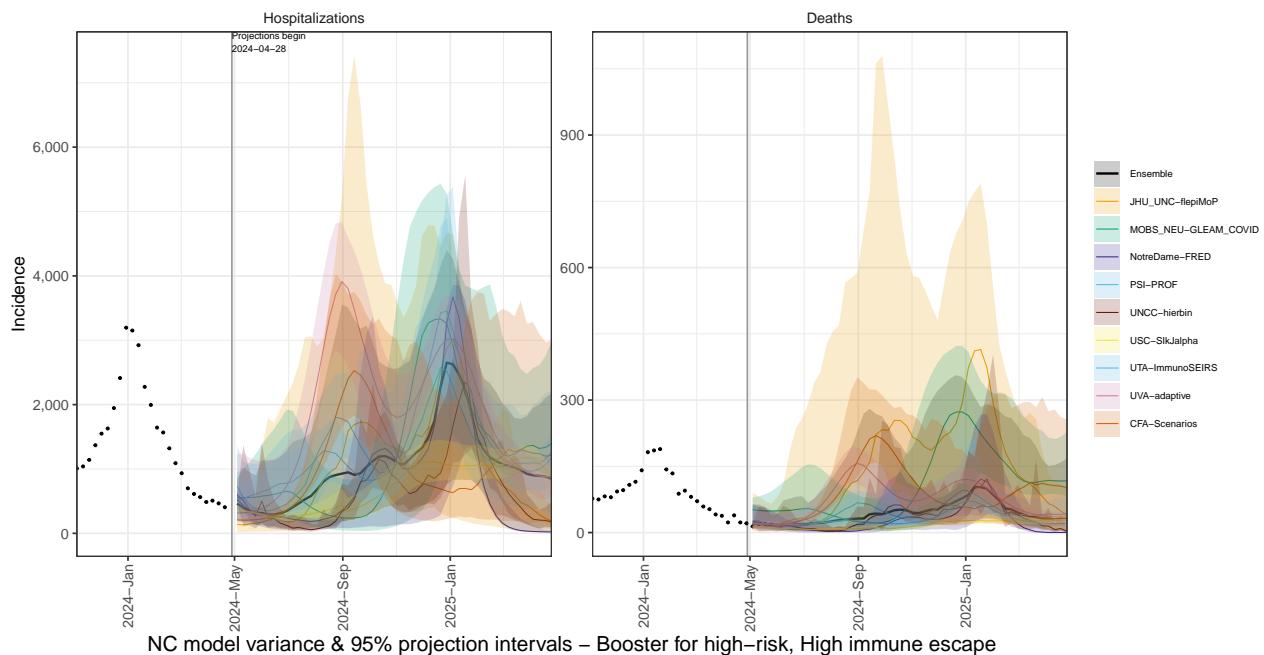
NJ model variance & 95% projection intervals – Booster for high-risk, High immune escape



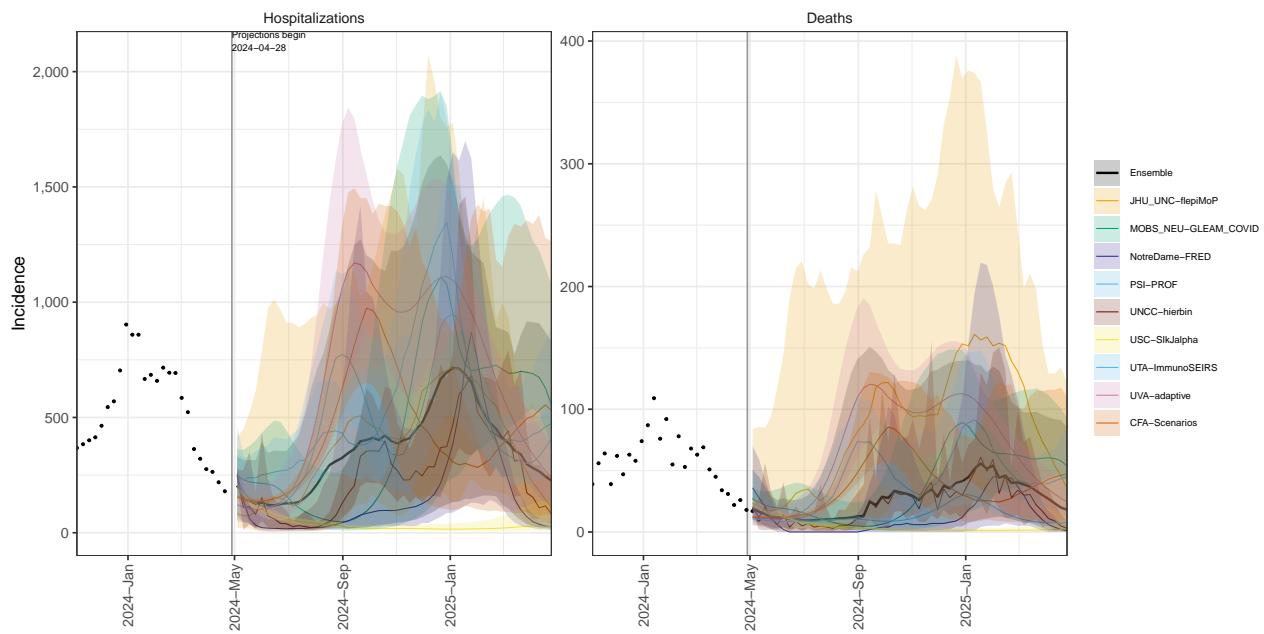
NM model variance & 95% projection intervals – Booster for high-risk, High immune escape



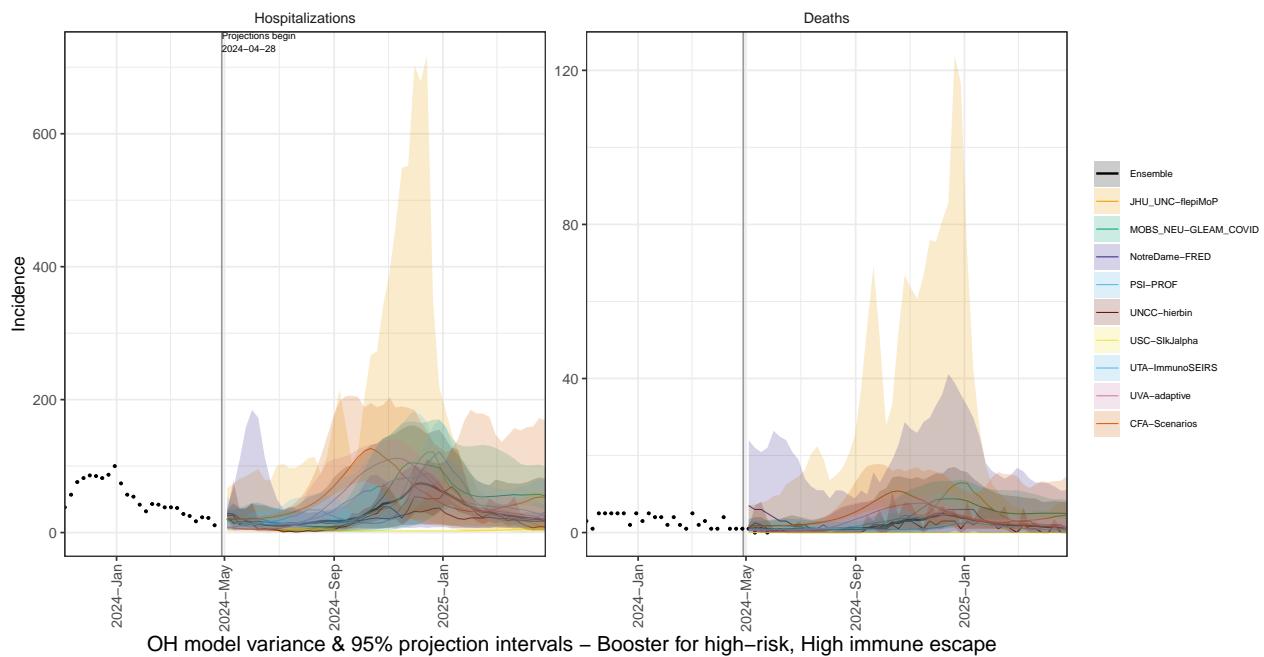
NY model variance & 95% projection intervals – Booster for high-risk, High immune escape



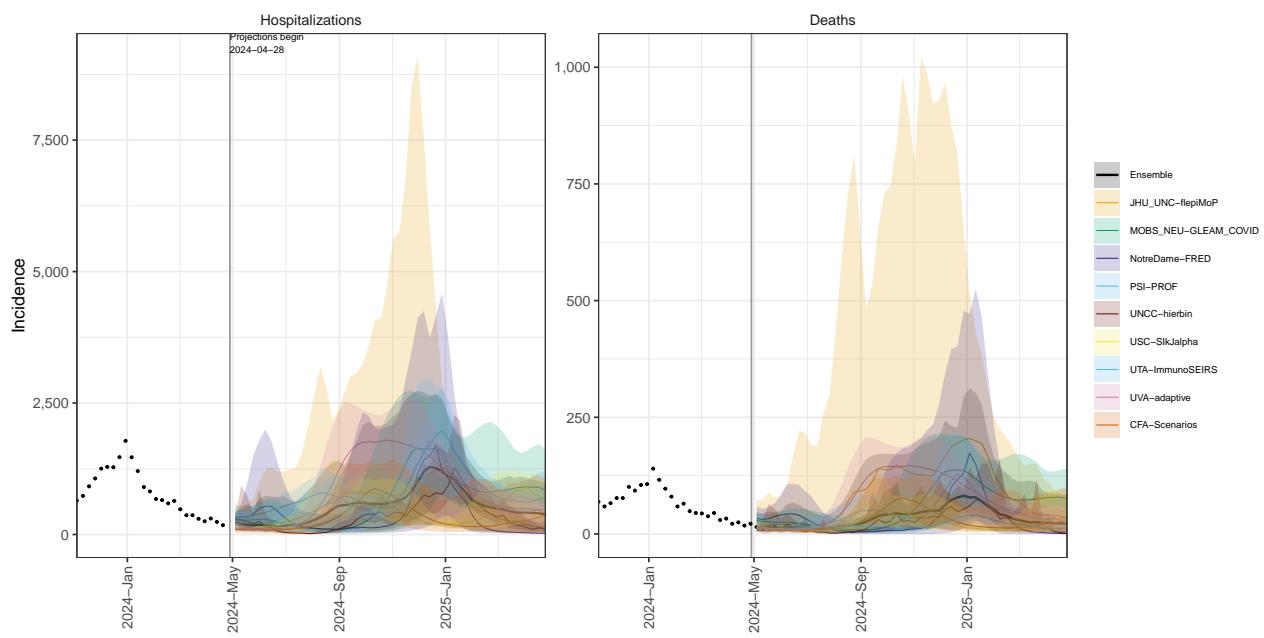
NC model variance & 95% projection intervals – Booster for high-risk, High immune escape



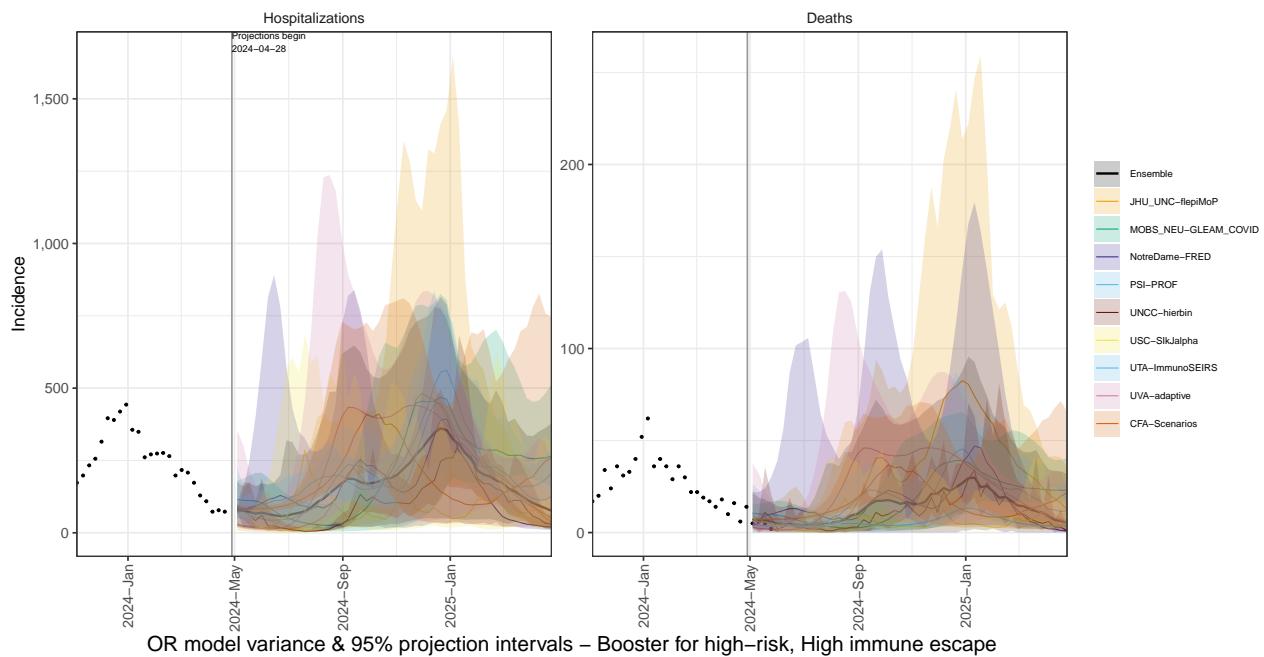
ND model variance & 95% projection intervals – Booster for high-risk, High immune escape



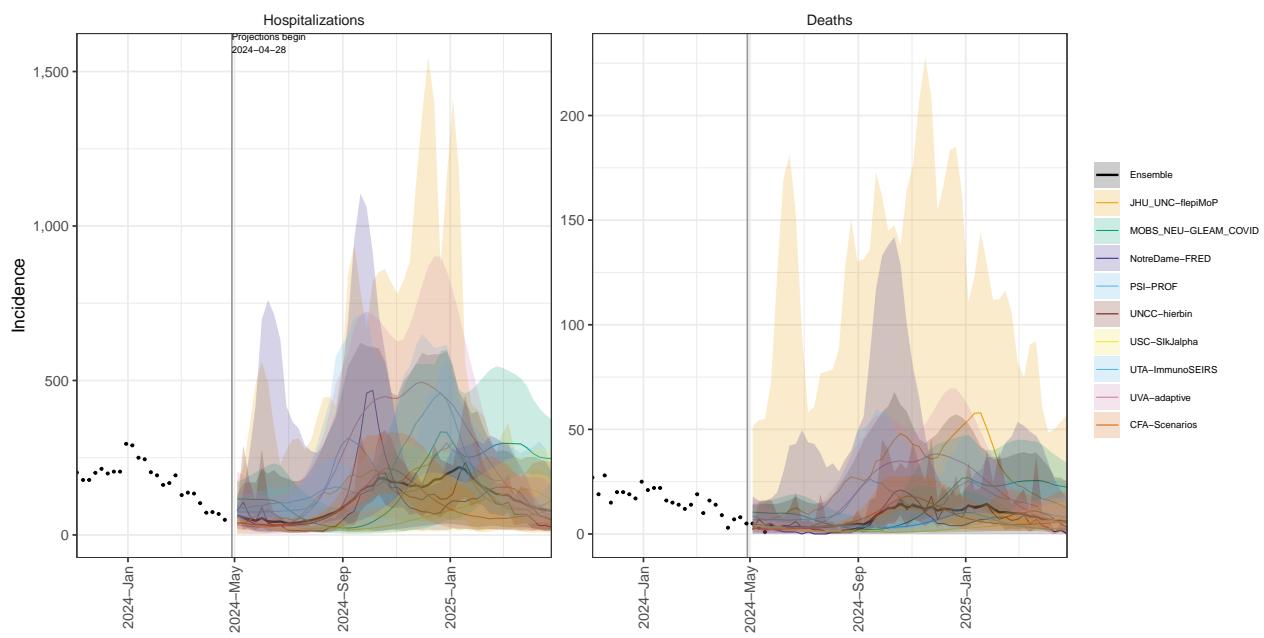
OH model variance & 95% projection intervals – Booster for high-risk, High immune escape



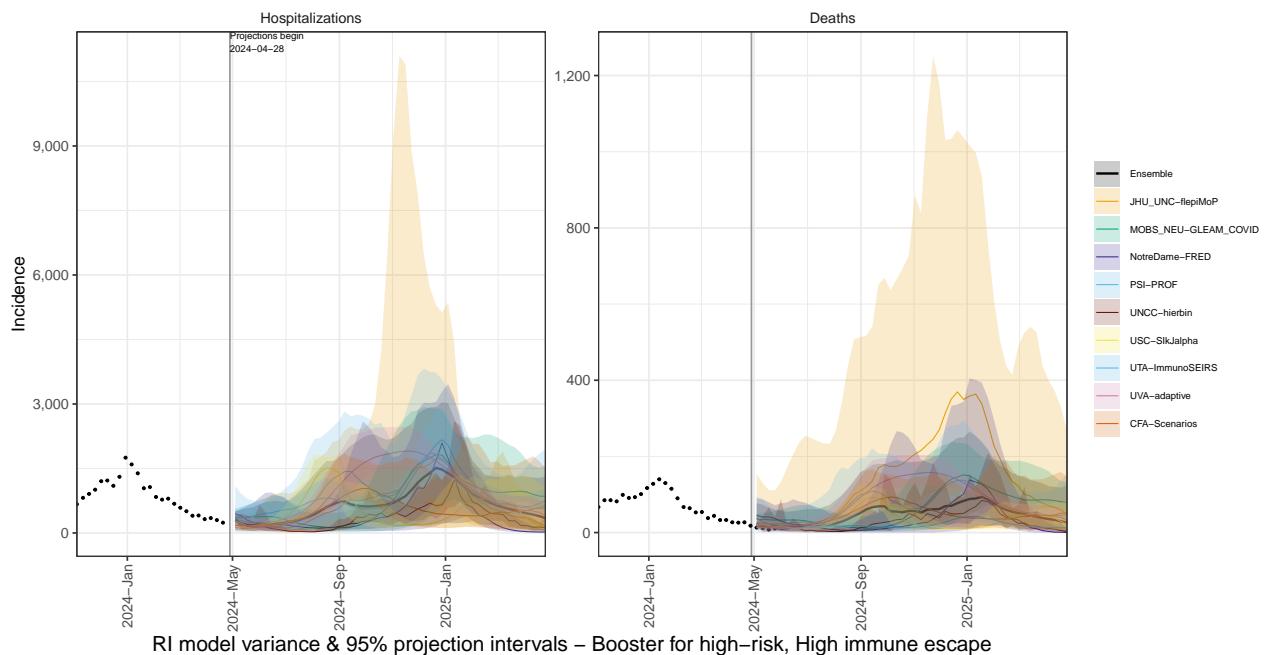
OK model variance & 95% projection intervals – Booster for high-risk, High immune escape



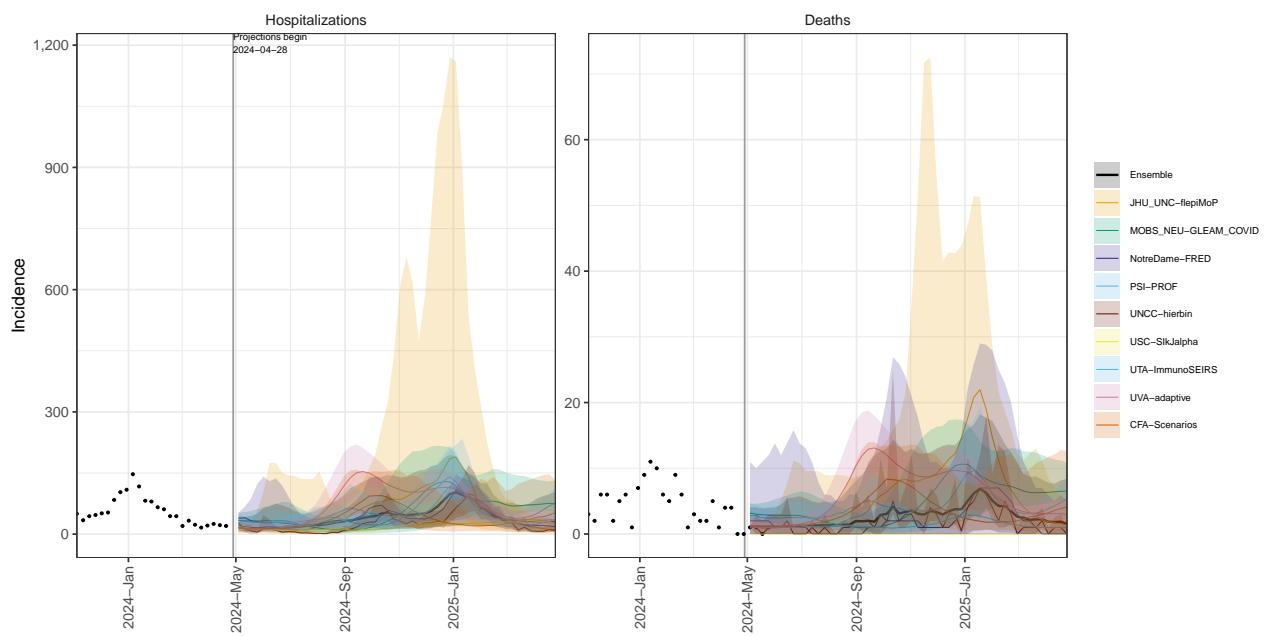
OR model variance & 95% projection intervals – Booster for high-risk, High immune escape



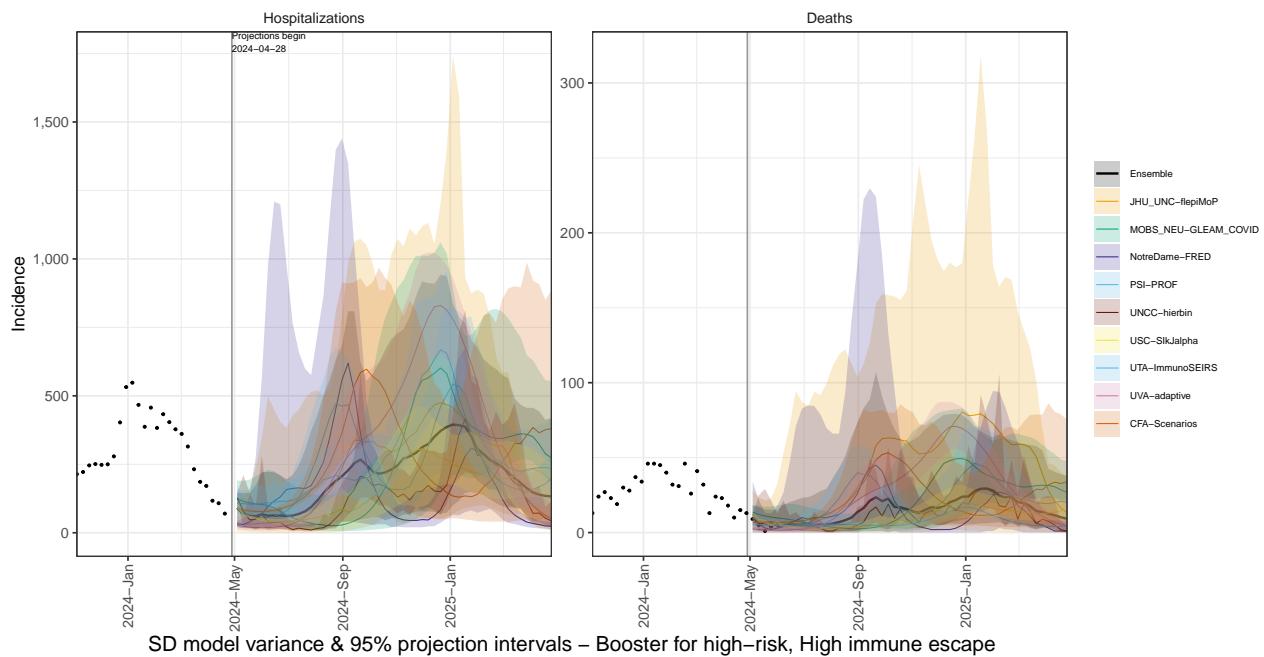
PA model variance & 95% projection intervals – Booster for high-risk, High immune escape



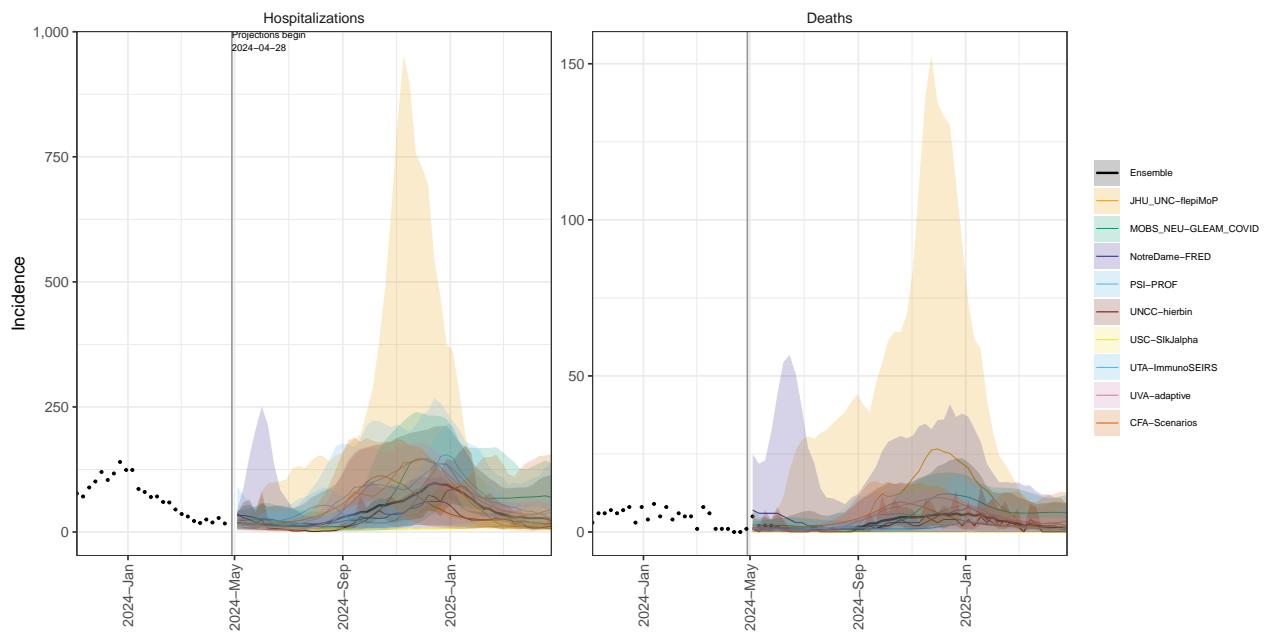
RI model variance & 95% projection intervals – Booster for high-risk, High immune escape



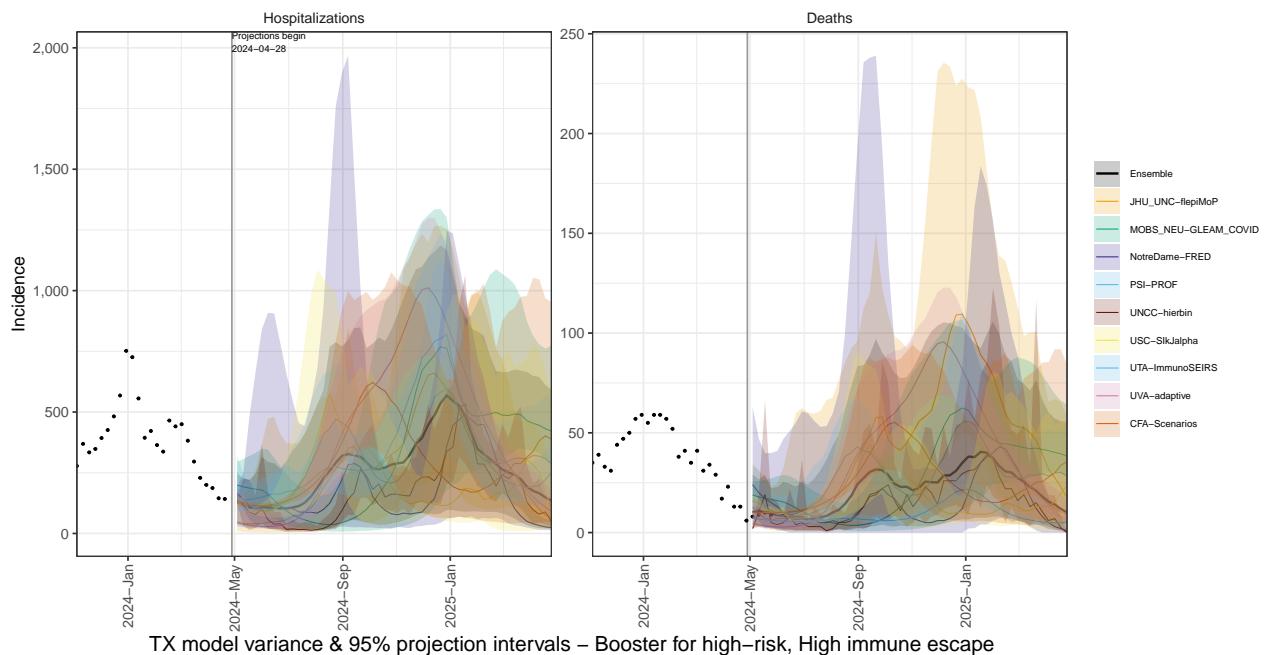
SC model variance & 95% projection intervals – Booster for high-risk, High immune escape



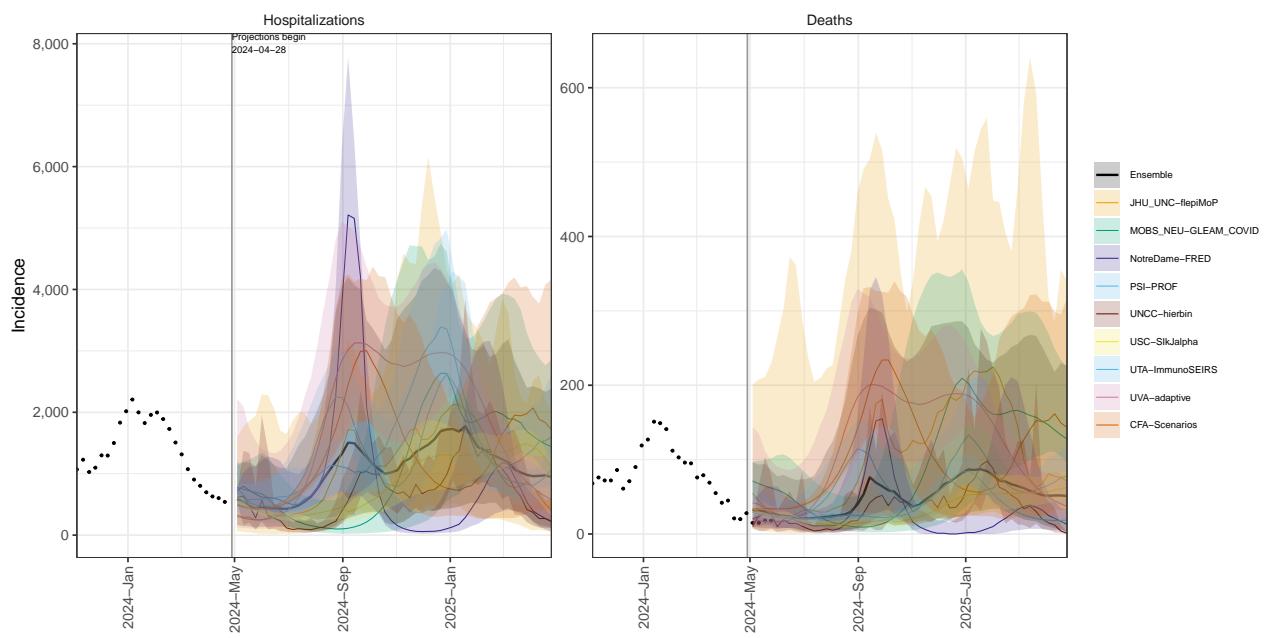
SD model variance & 95% projection intervals – Booster for high-risk, High immune escape



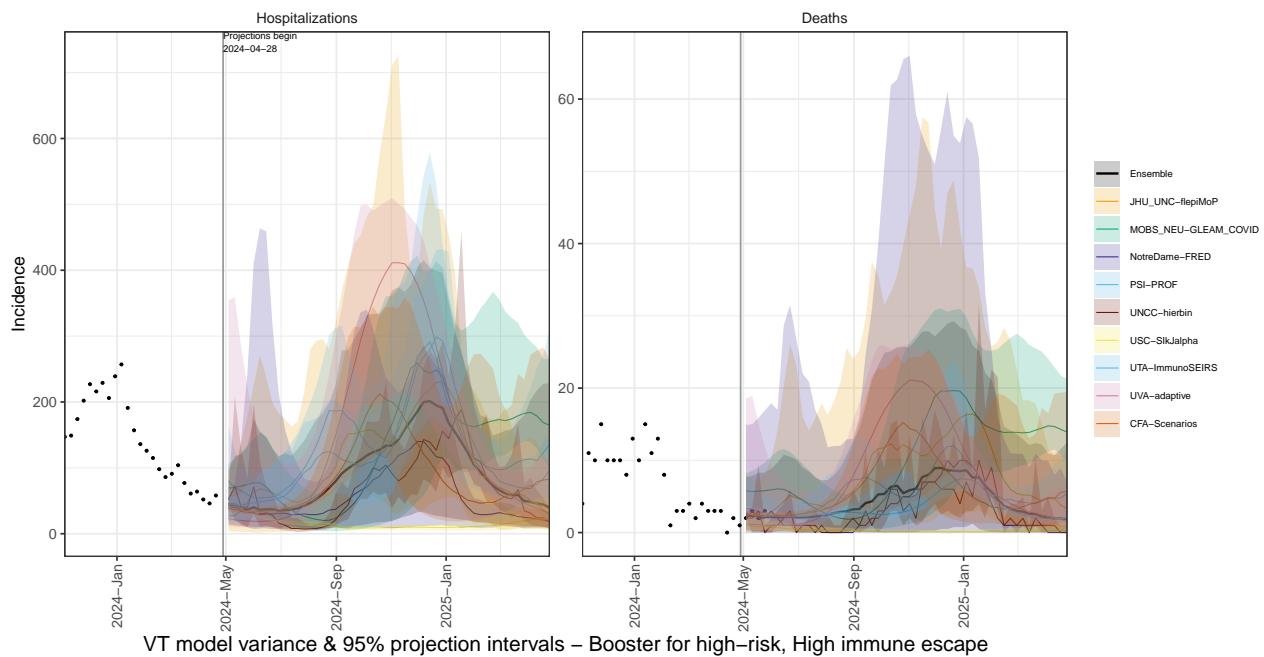
TN model variance & 95% projection intervals – Booster for high-risk, High immune escape



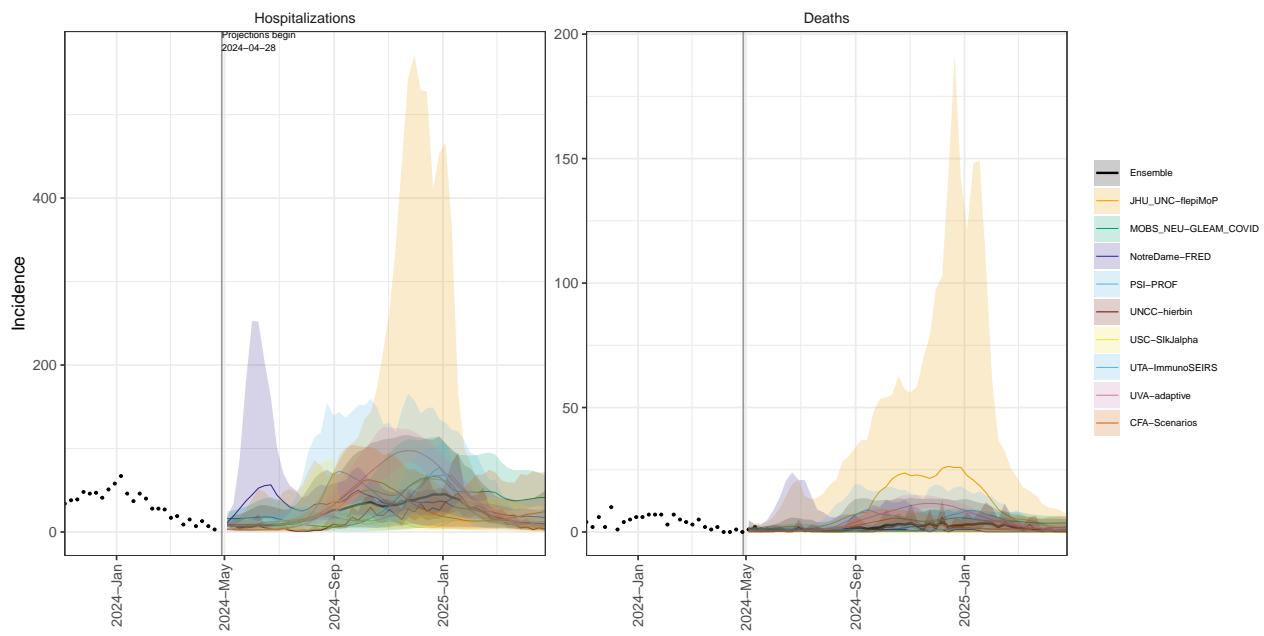
TX model variance & 95% projection intervals – Booster for high-risk, High immune escape



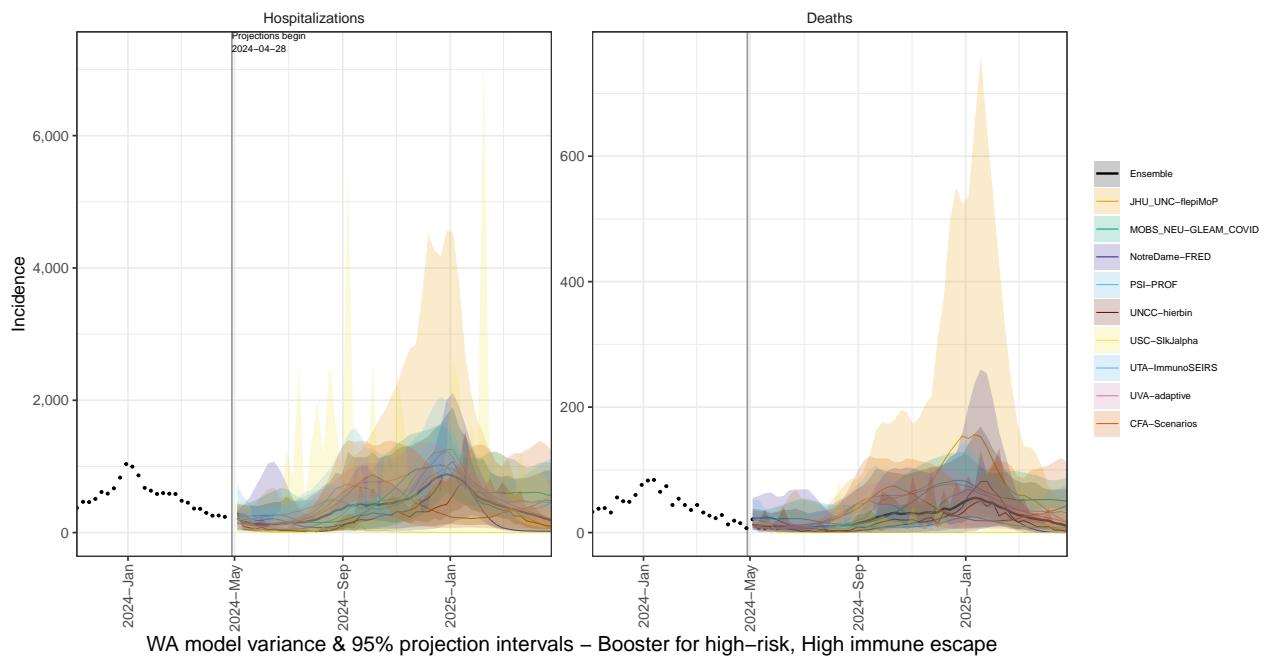
UT model variance & 95% projection intervals – Booster for high-risk, High immune escape



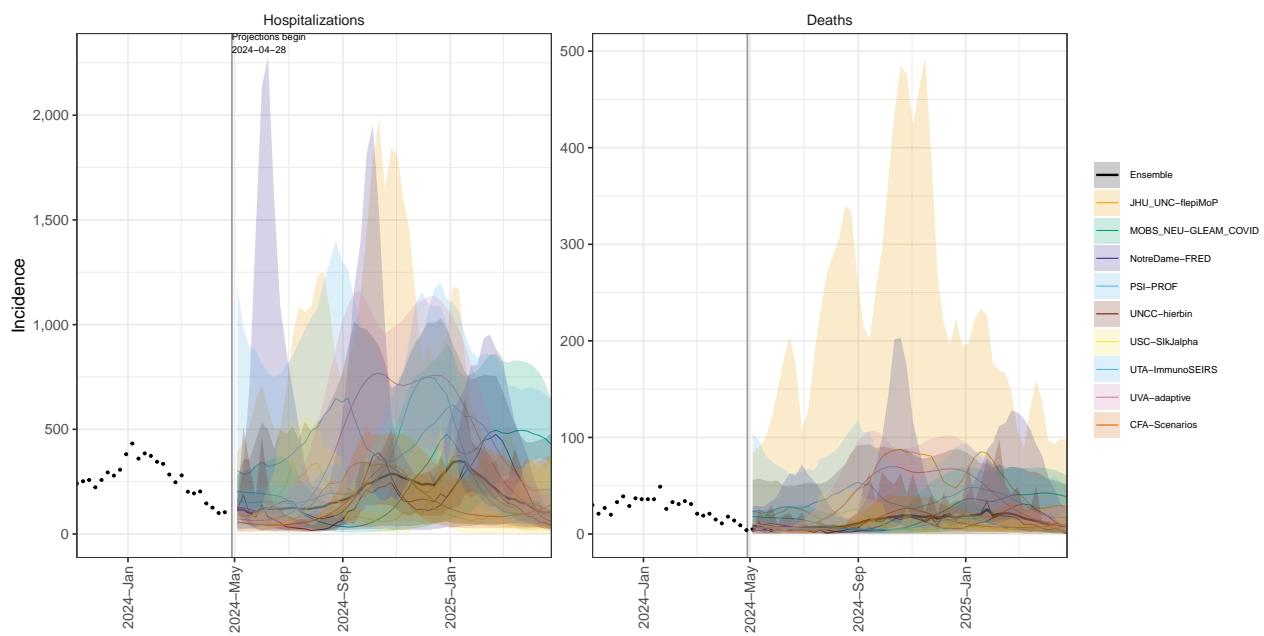
VT model variance & 95% projection intervals – Booster for high-risk, High immune escape



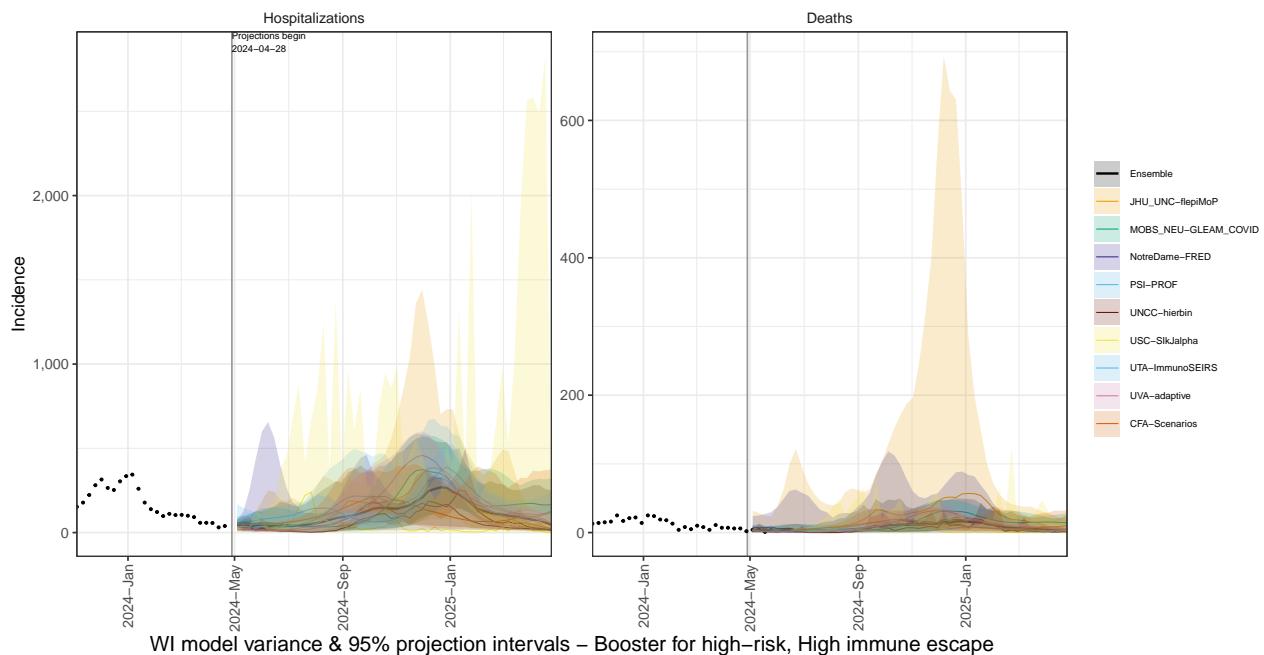
VA model variance & 95% projection intervals – Booster for high-risk, High immune escape



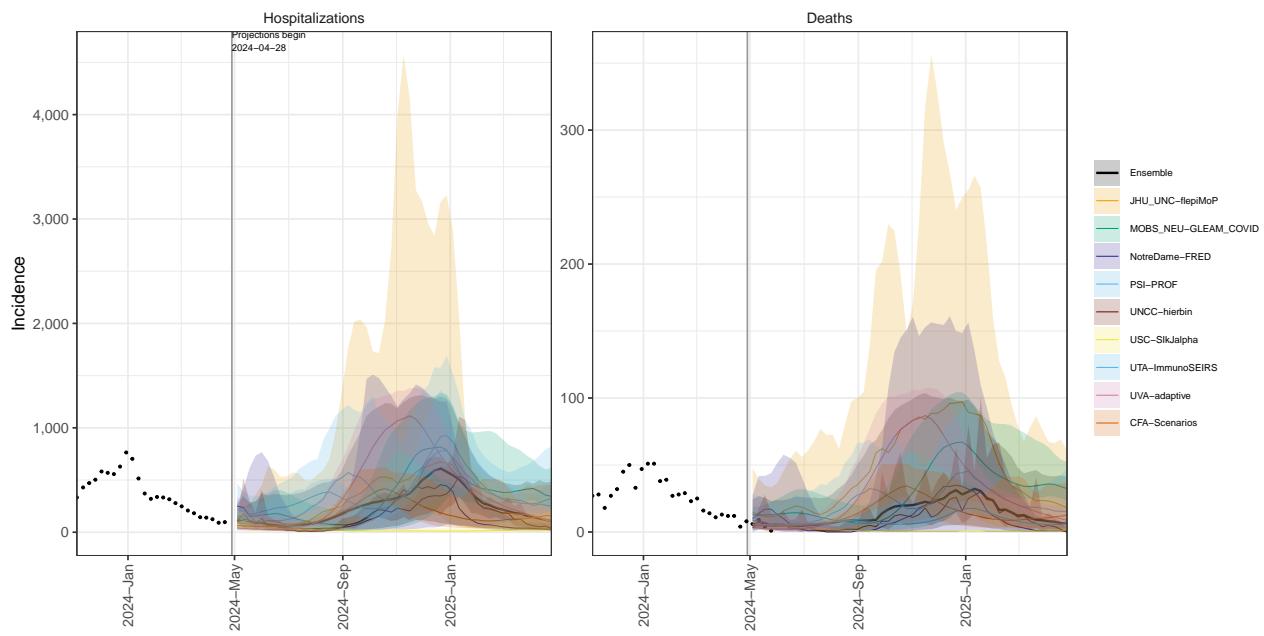
WA model variance & 95% projection intervals – Booster for high-risk, High immune escape



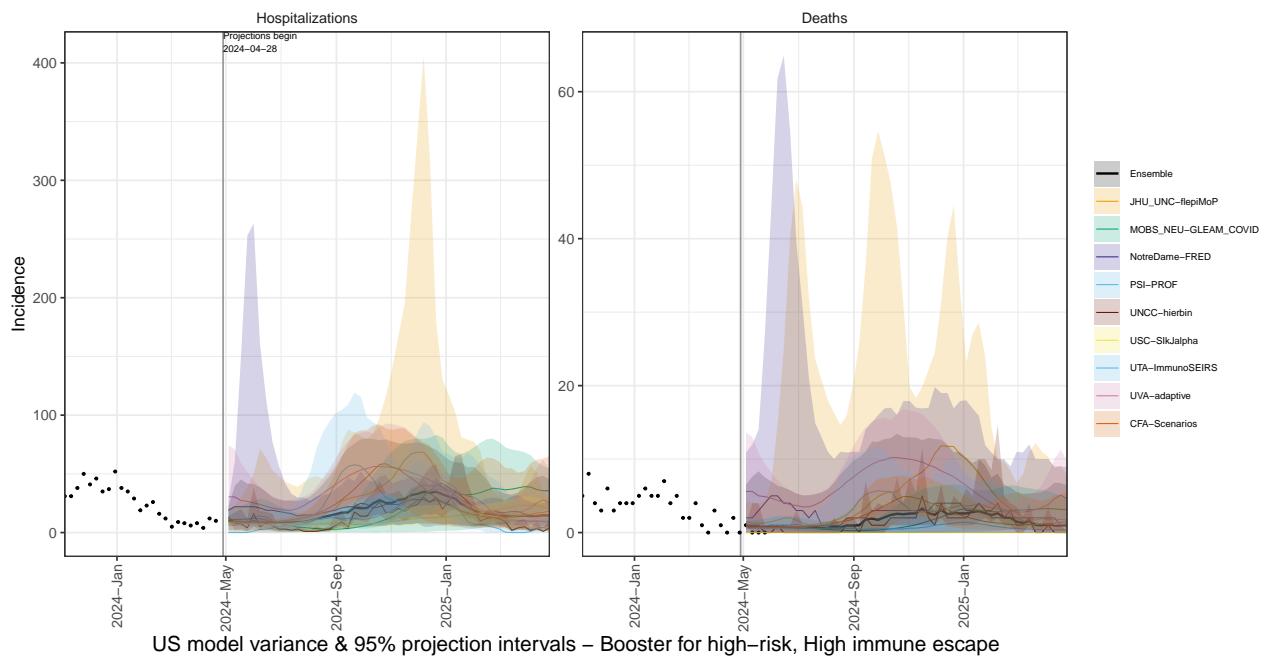
WV model variance & 95% projection intervals – Booster for high-risk, High immune escape



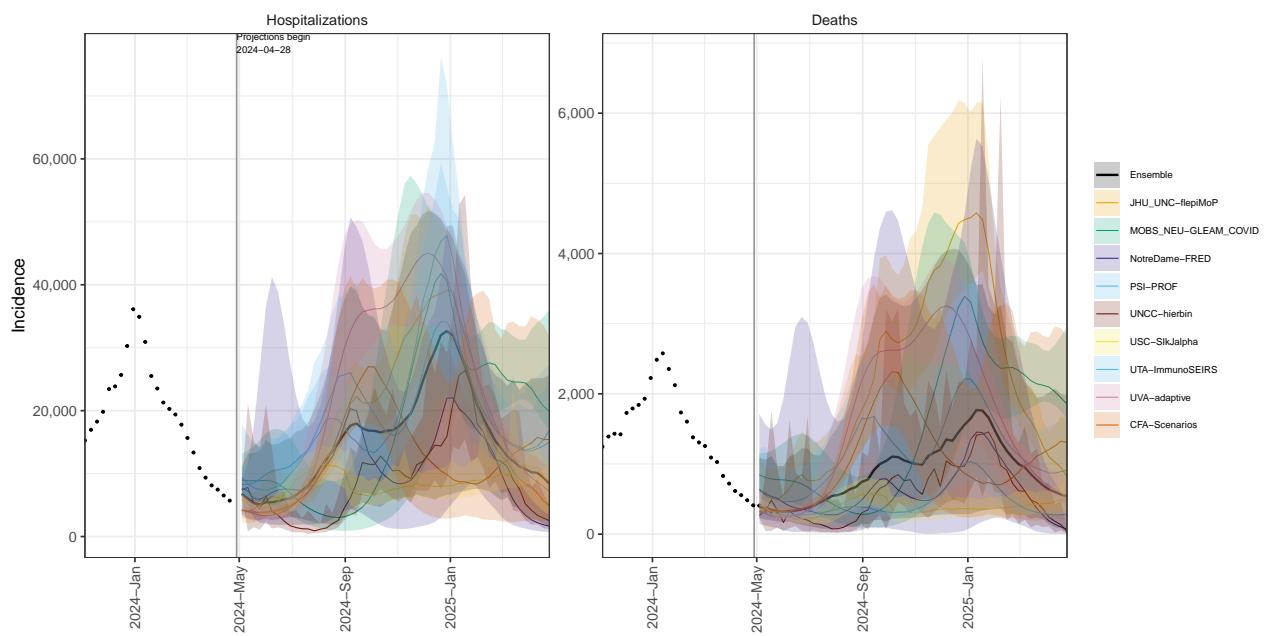
WI model variance & 95% projection intervals – Booster for high-risk, High immune escape



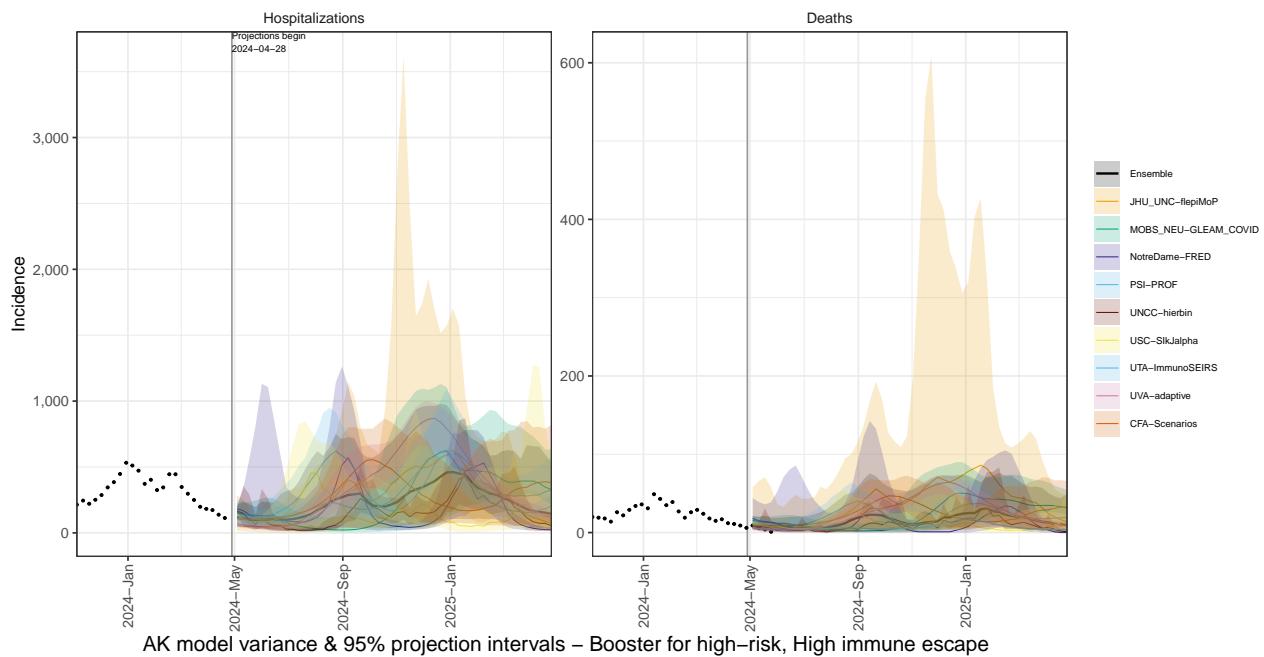
WY model variance & 95% projection intervals – Booster for high-risk, High immune escape



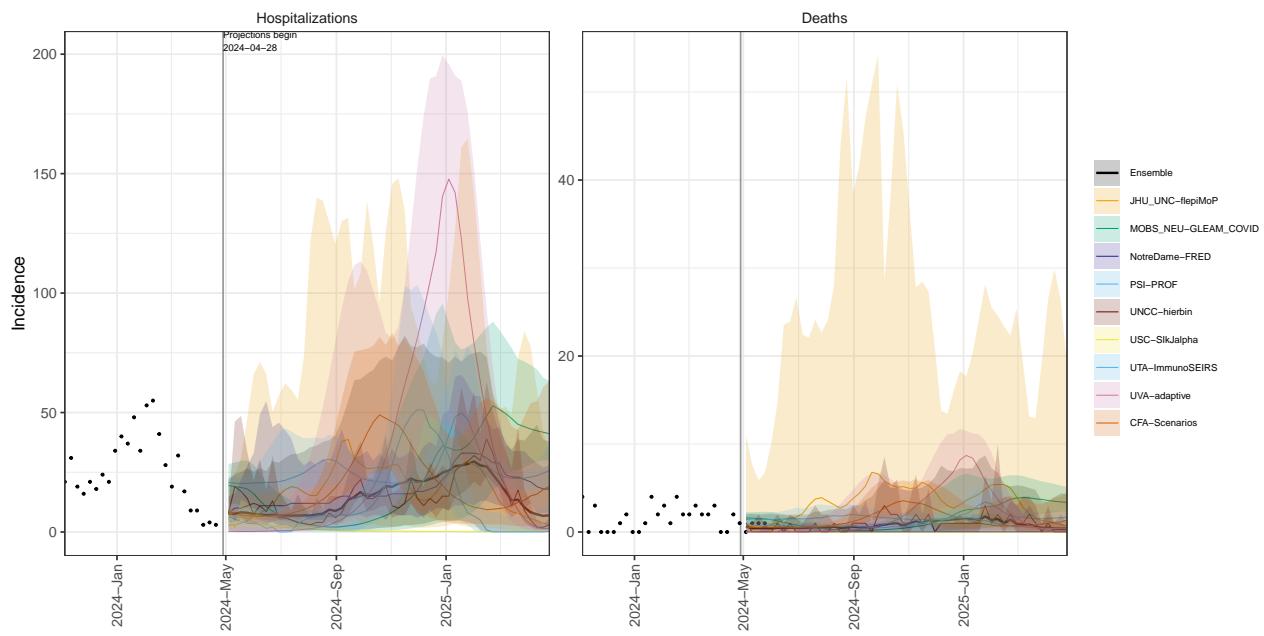
US model variance & 95% projection intervals – Booster for high-risk, High immune escape



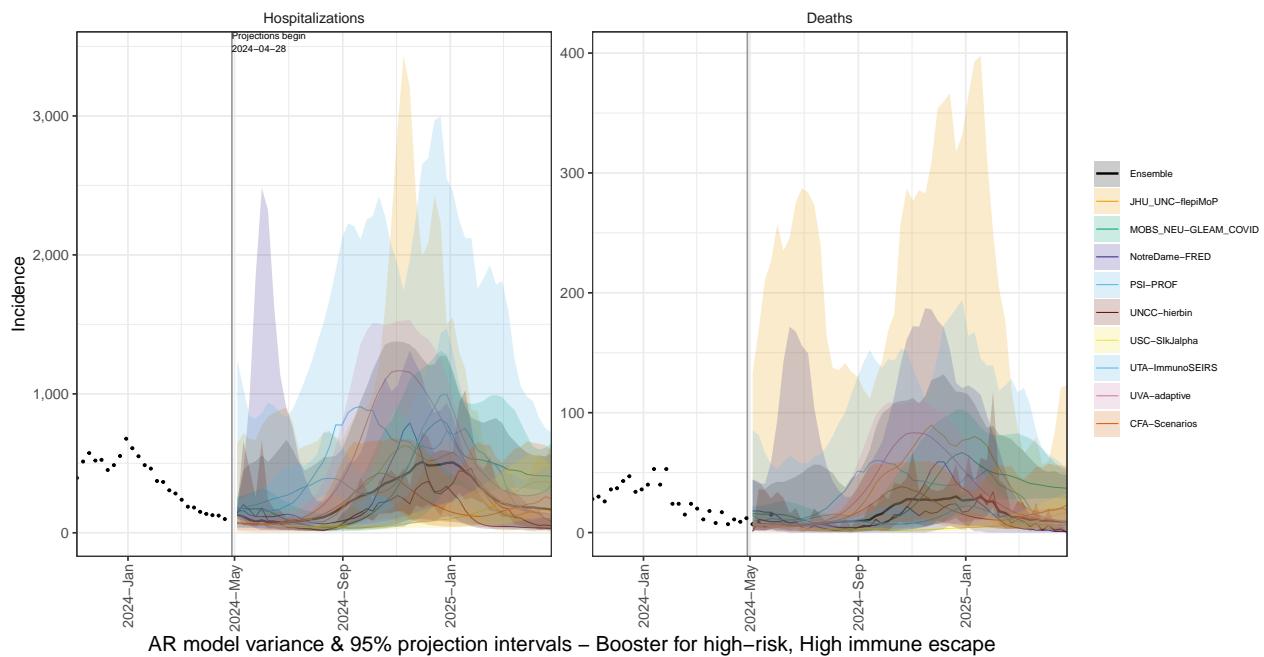
AL model variance & 95% projection intervals – Booster for high-risk, High immune escape



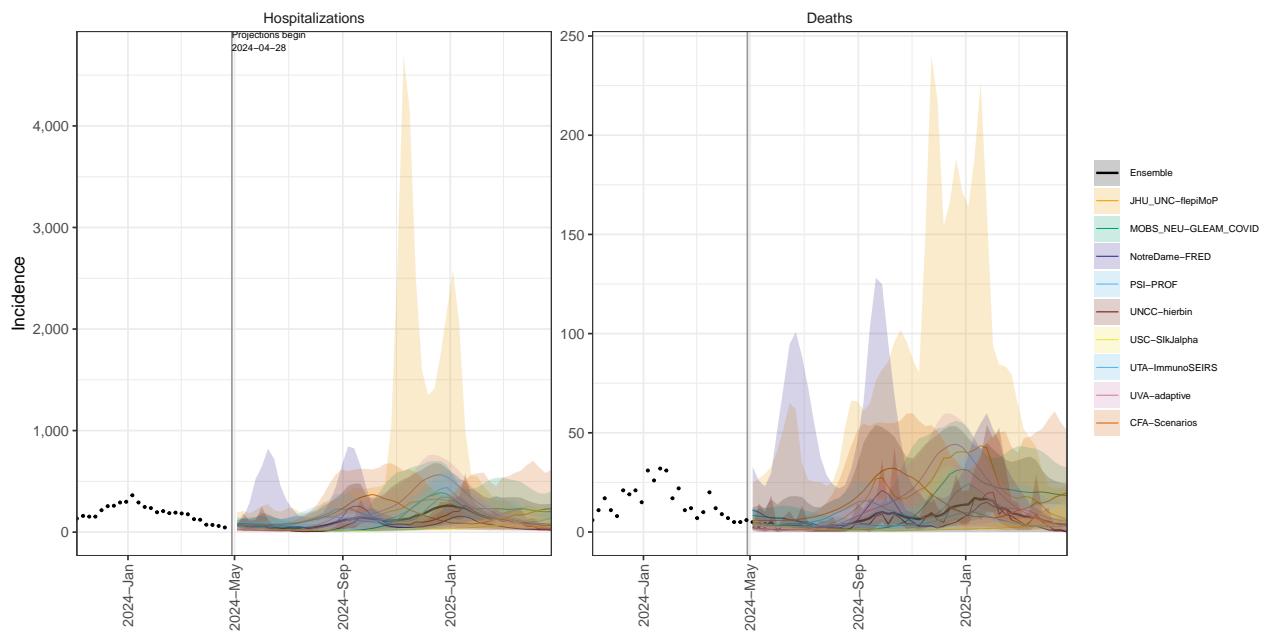
AK model variance & 95% projection intervals – Booster for high-risk, High immune escape



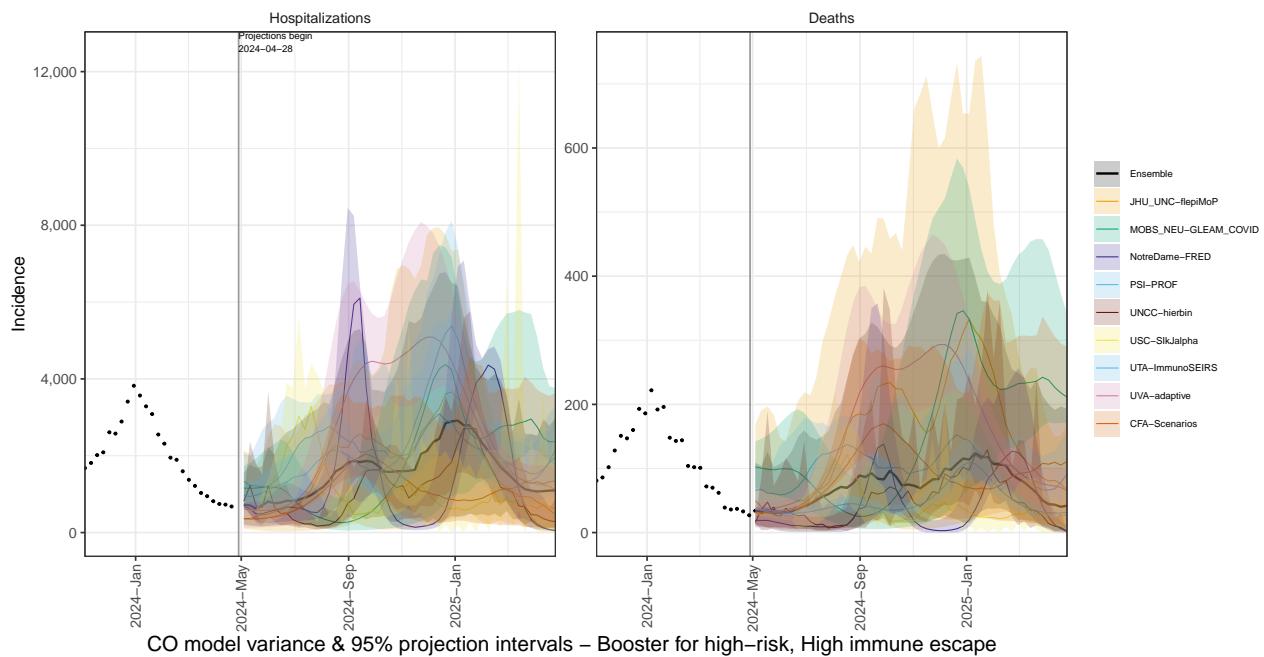
AZ model variance & 95% projection intervals – Booster for high-risk, High immune escape



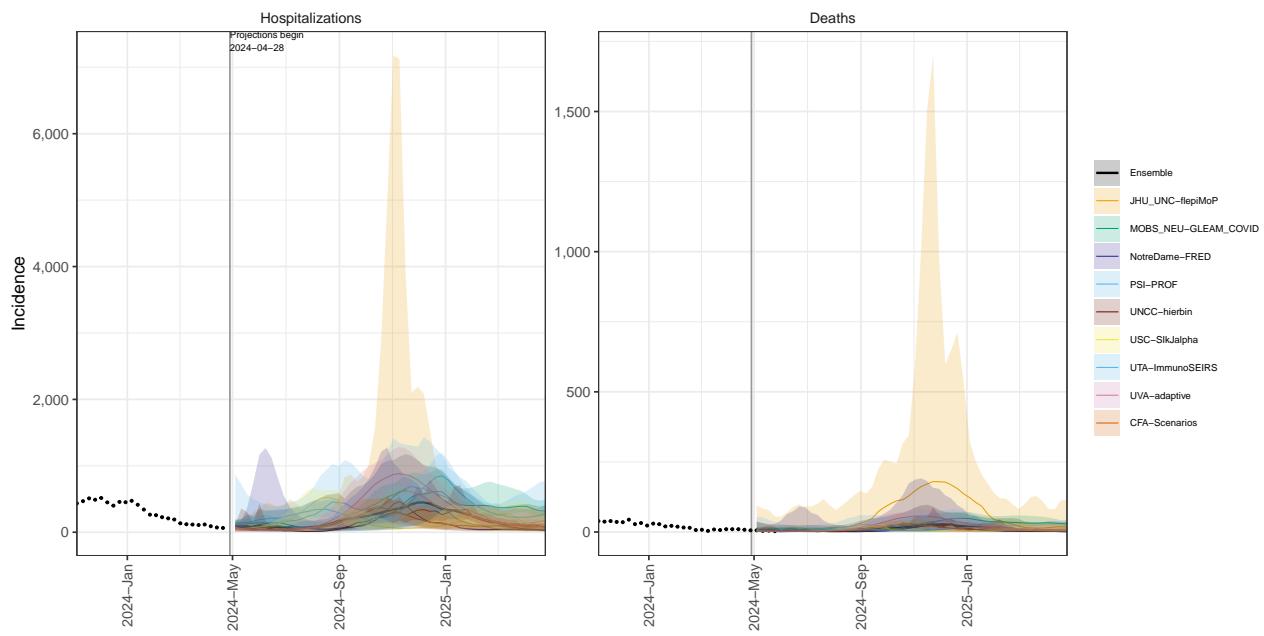
AR model variance & 95% projection intervals – Booster for high-risk, High immune escape



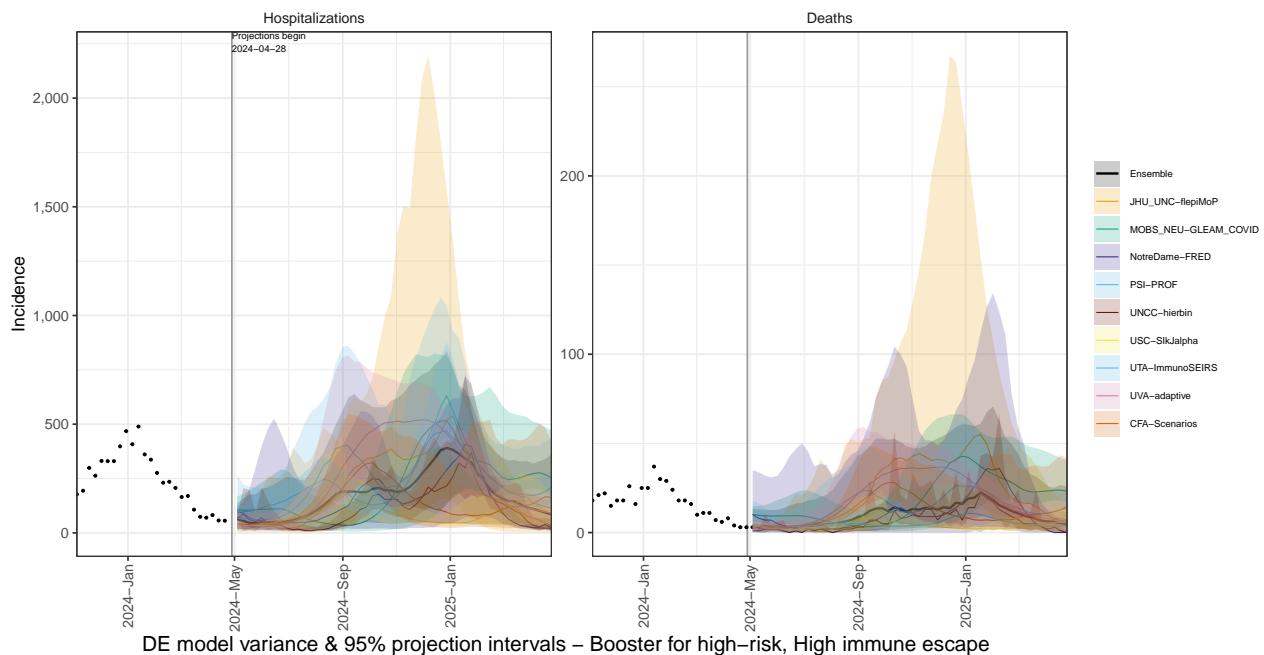
CA model variance & 95% projection intervals – Booster for high-risk, High immune escape



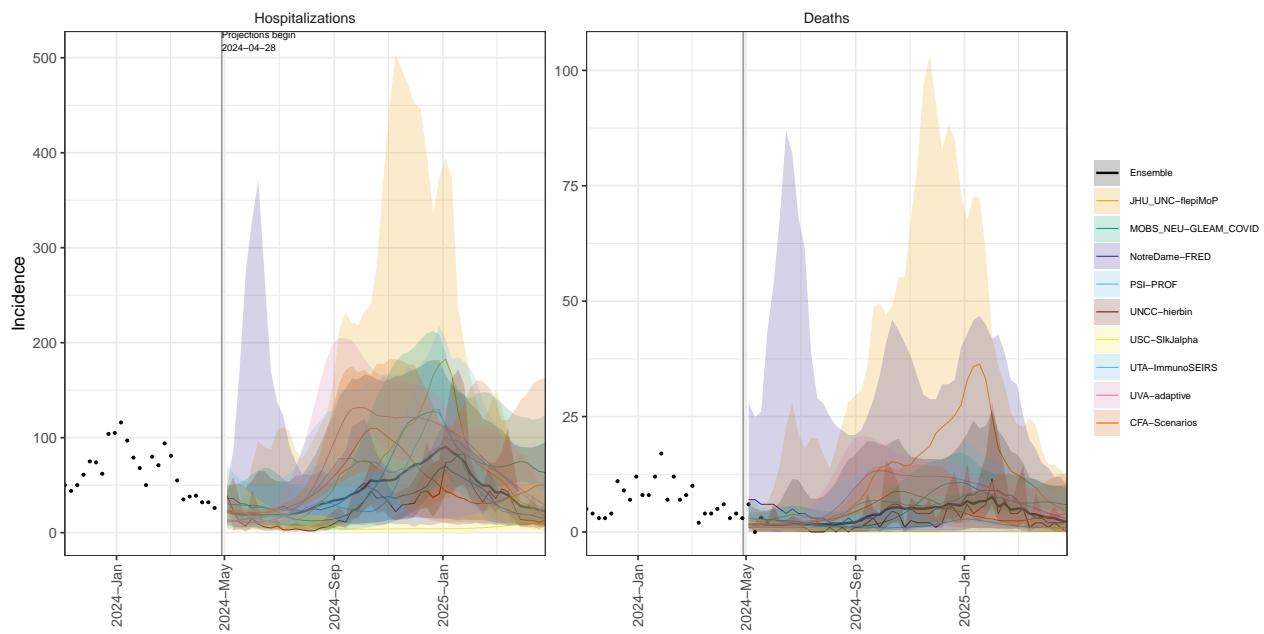
CO model variance & 95% projection intervals – Booster for high-risk, High immune escape



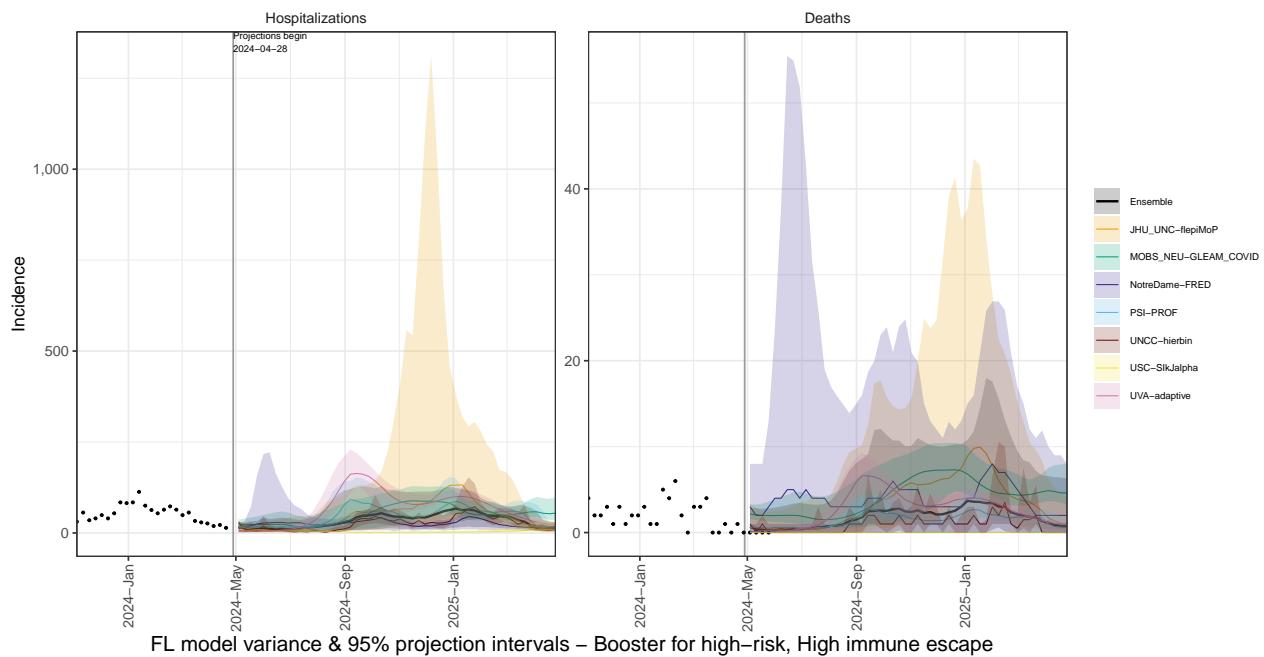
CT model variance & 95% projection intervals – Booster for high-risk, High immune escape



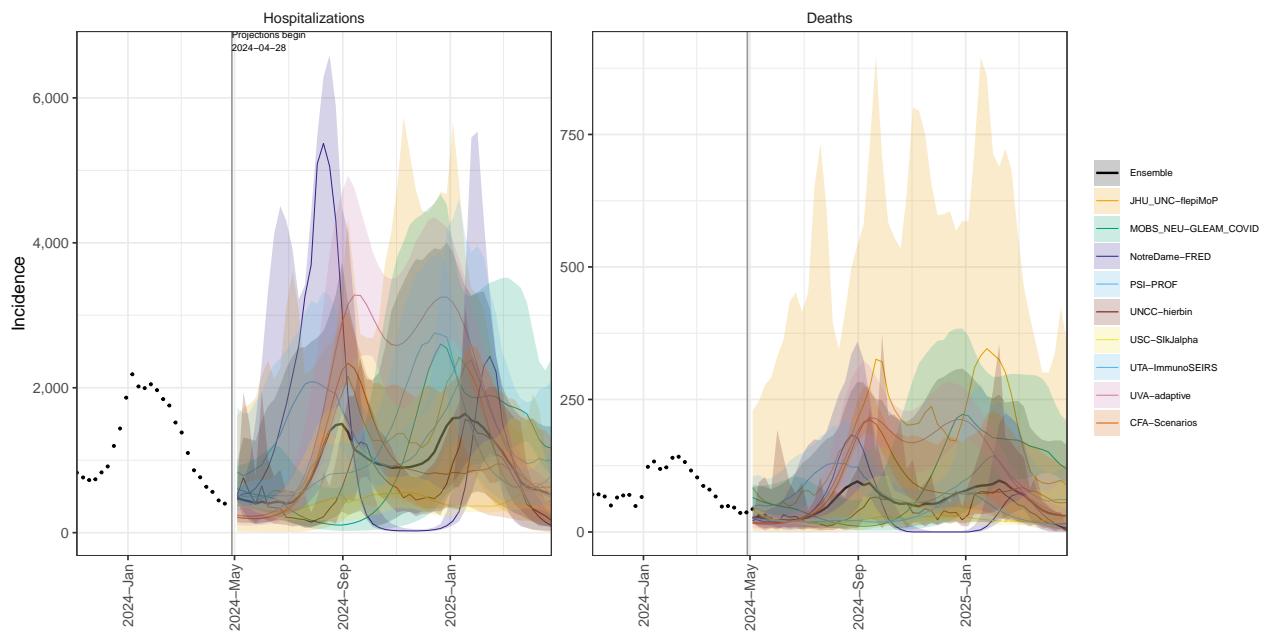
DE model variance & 95% projection intervals – Booster for high-risk, High immune escape



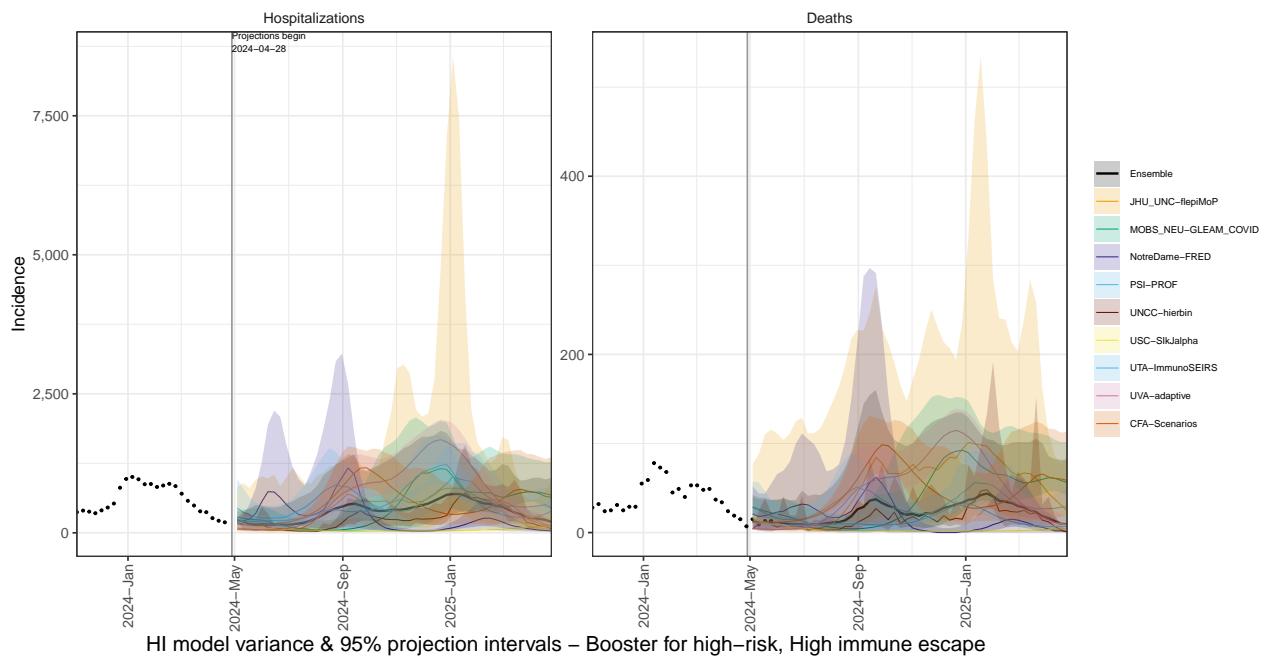
DC model variance & 95% projection intervals – Booster for high-risk, High immune escape



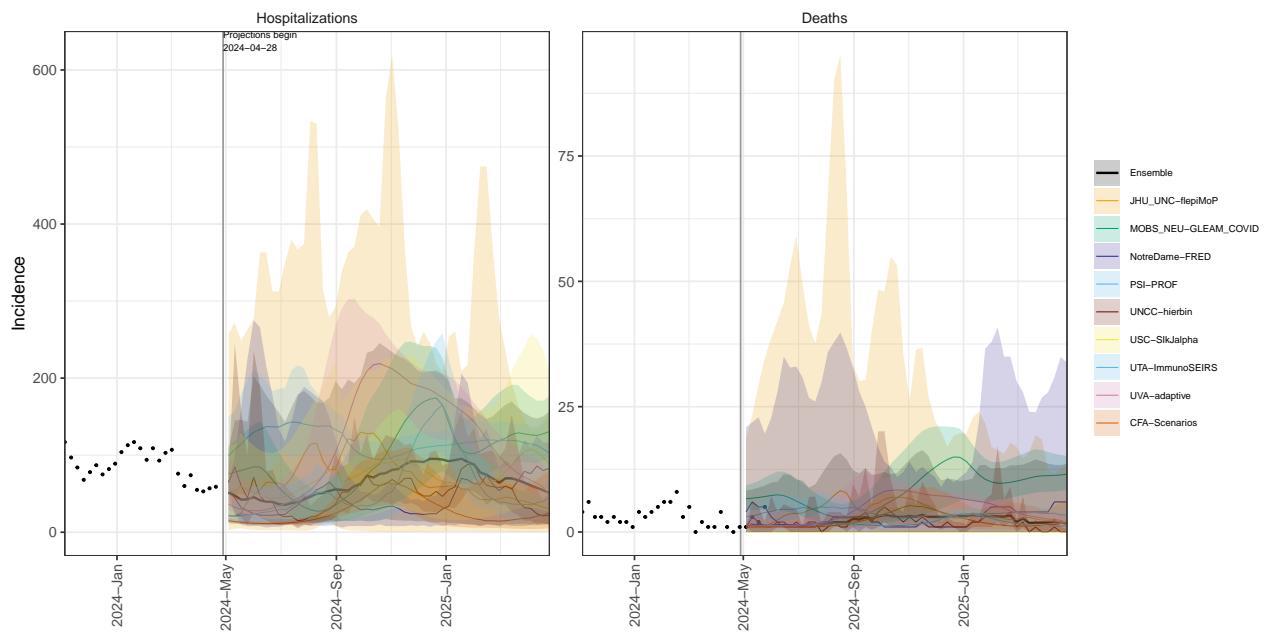
FL model variance & 95% projection intervals – Booster for high-risk, High immune escape



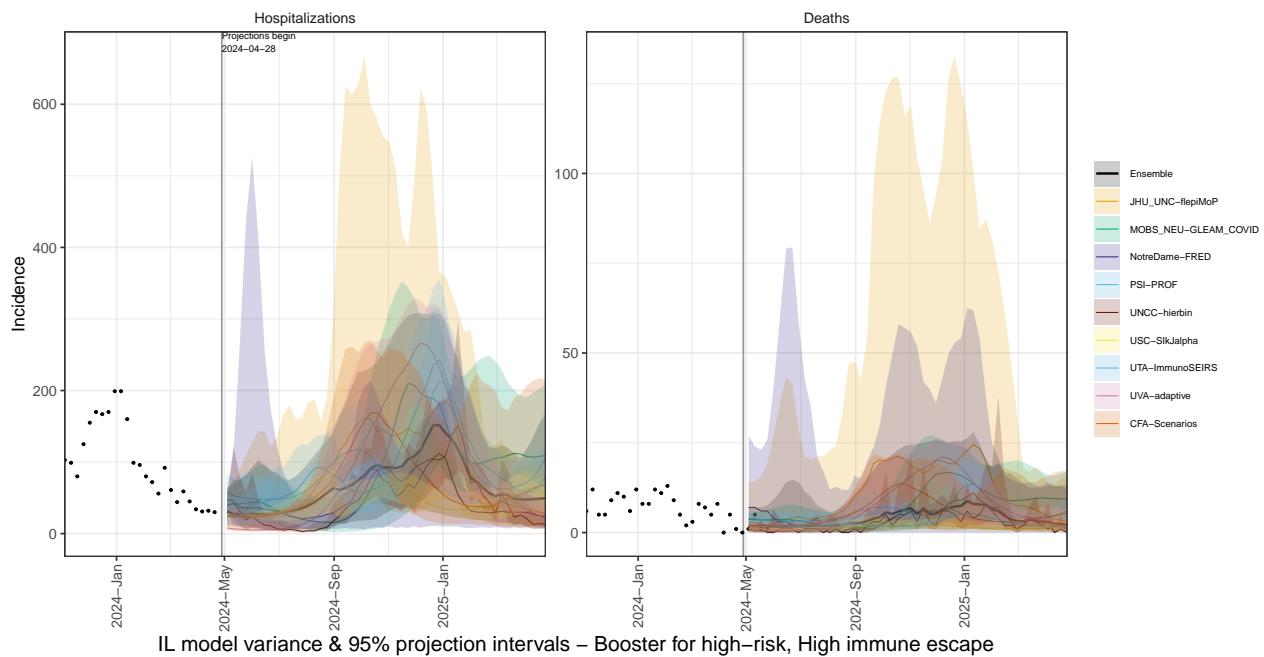
GA model variance & 95% projection intervals – Booster for high-risk, High immune escape



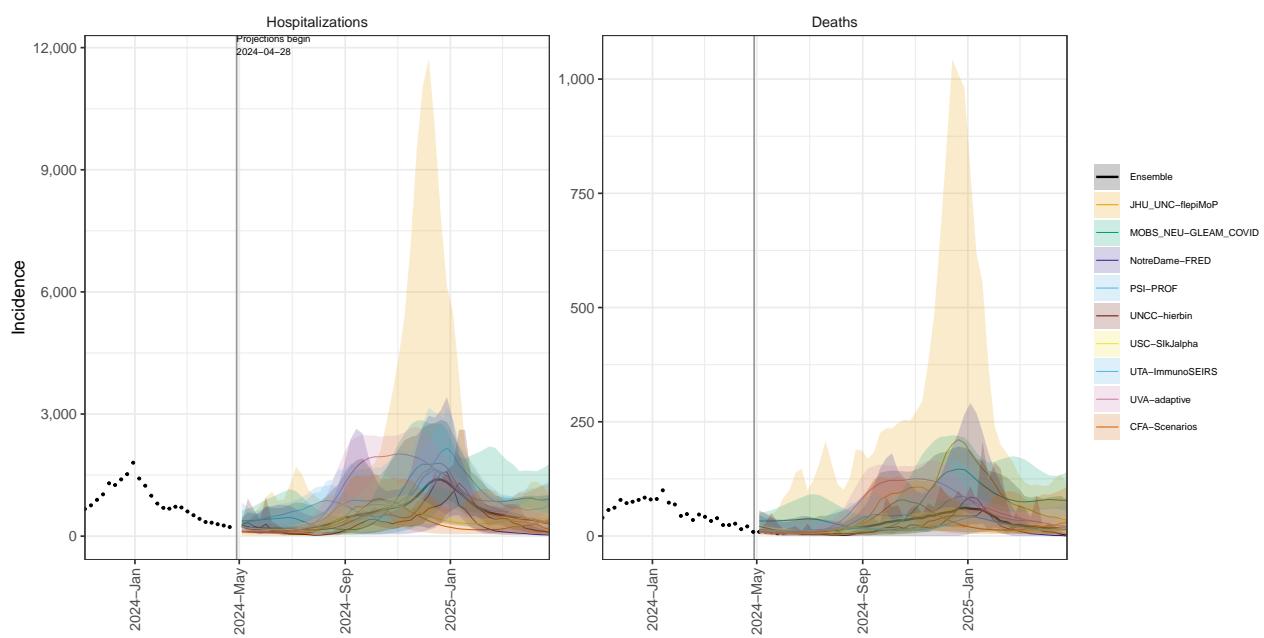
HI model variance & 95% projection intervals – Booster for high-risk, High immune escape



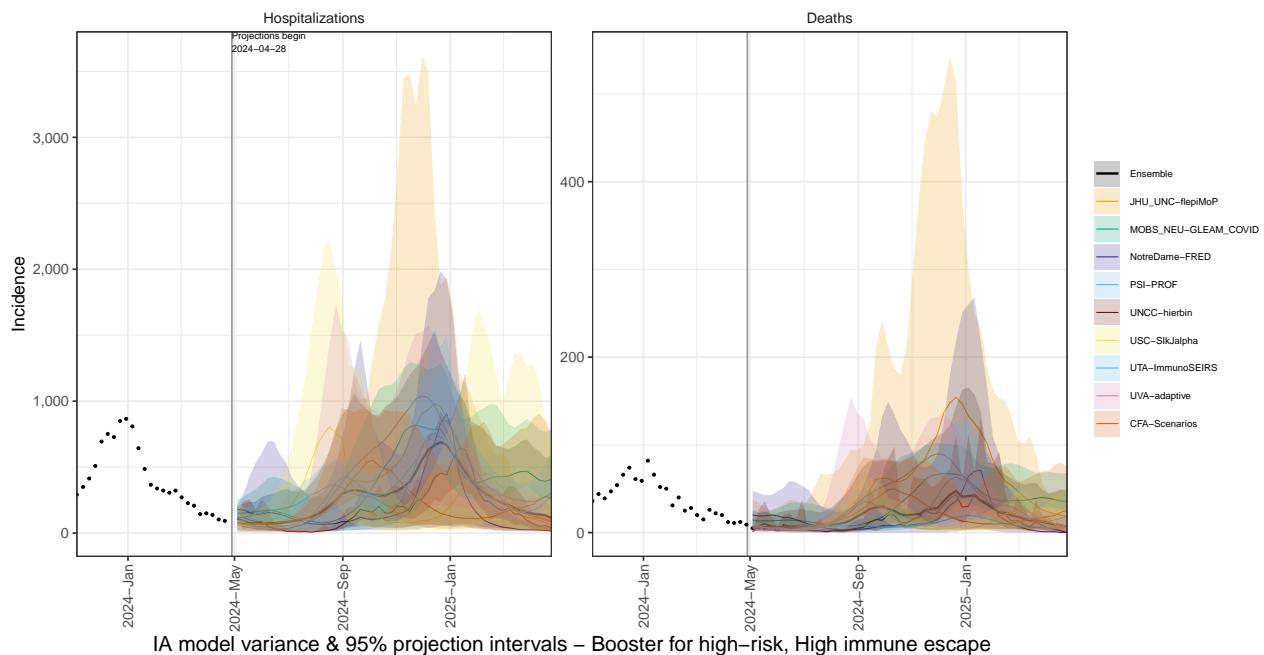
ID model variance & 95% projection intervals – Booster for high-risk, High immune escape



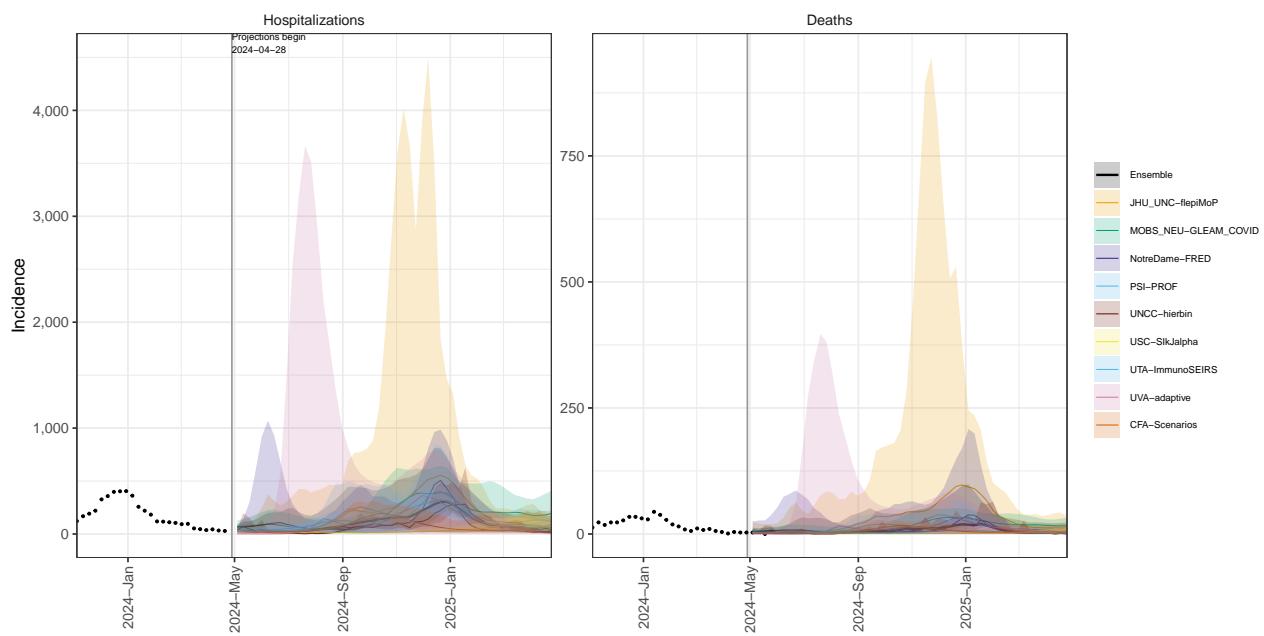
IL model variance & 95% projection intervals – Booster for high-risk, High immune escape



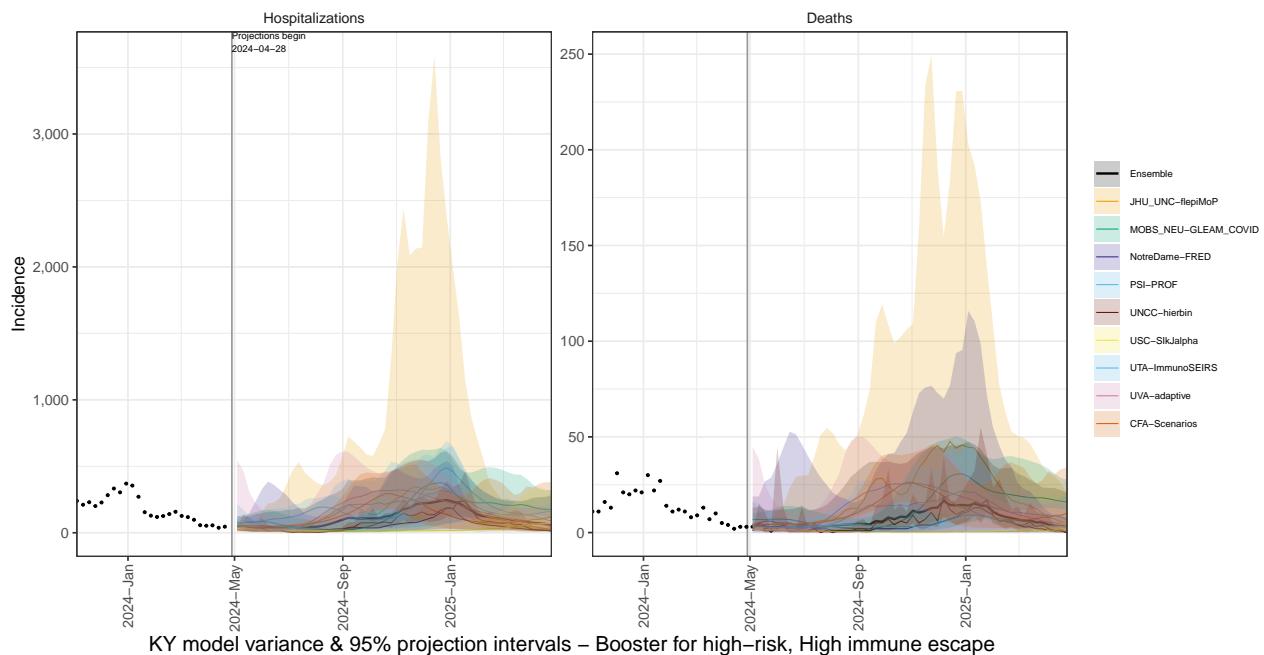
IN model variance & 95% projection intervals – Booster for high-risk, High immune escape



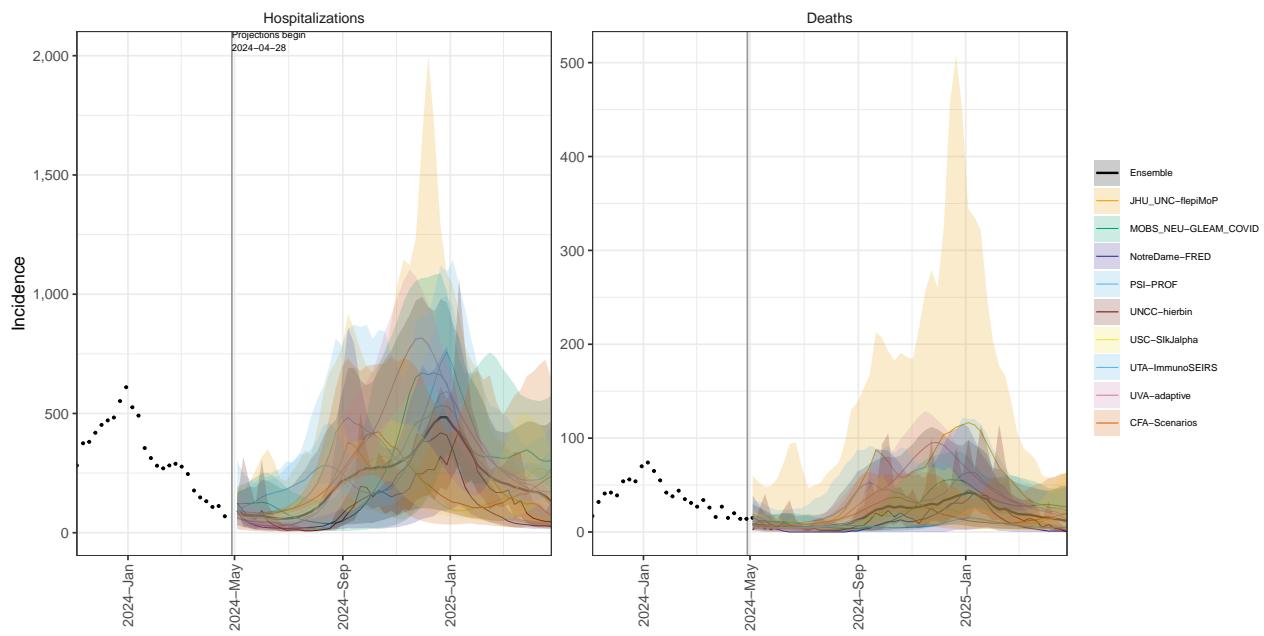
IA model variance & 95% projection intervals – Booster for high-risk, High immune escape



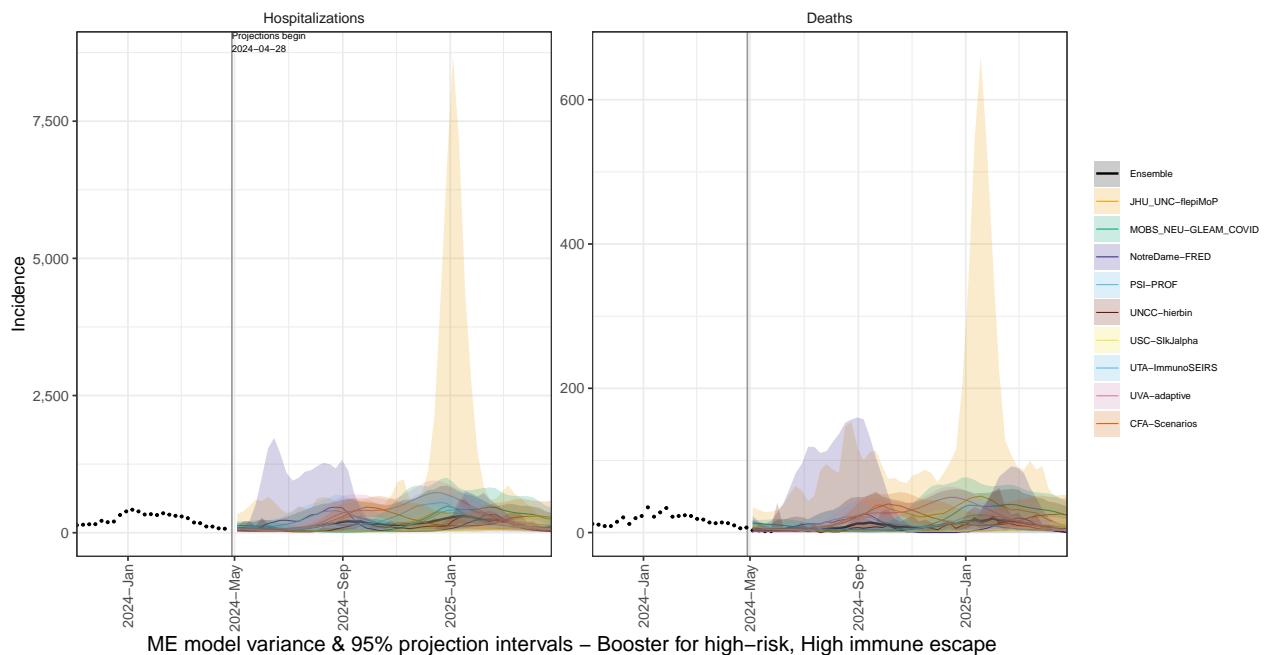
KS model variance & 95% projection intervals – Booster for high-risk, High immune escape



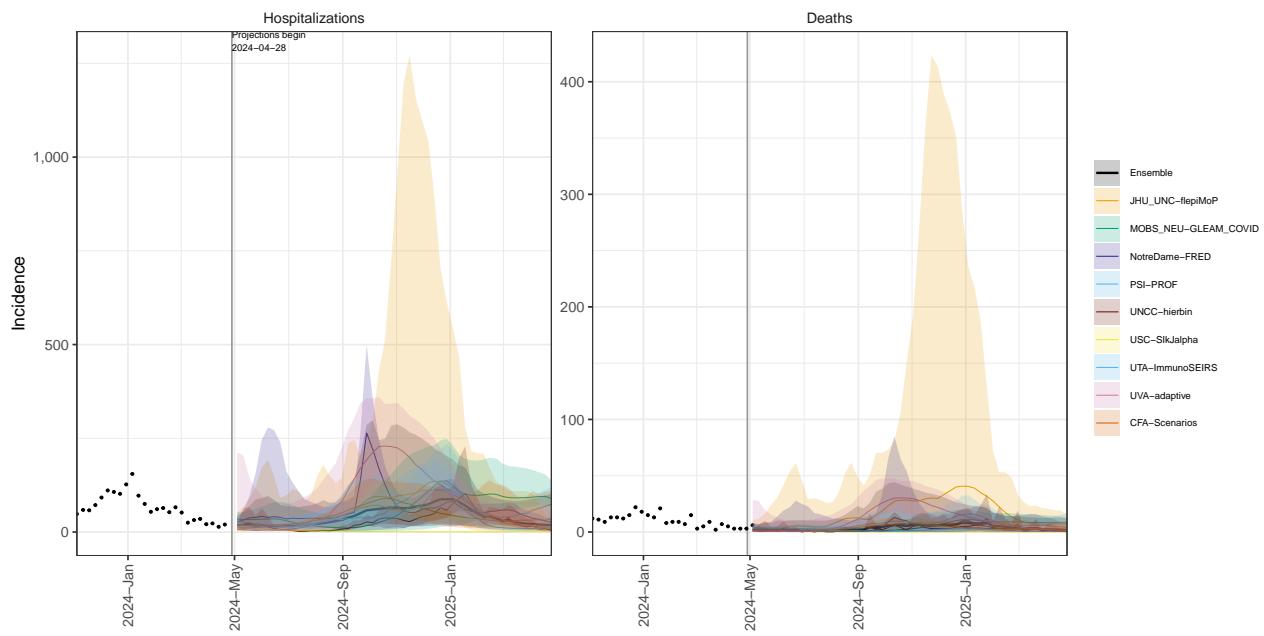
KY model variance & 95% projection intervals – Booster for high-risk, High immune escape



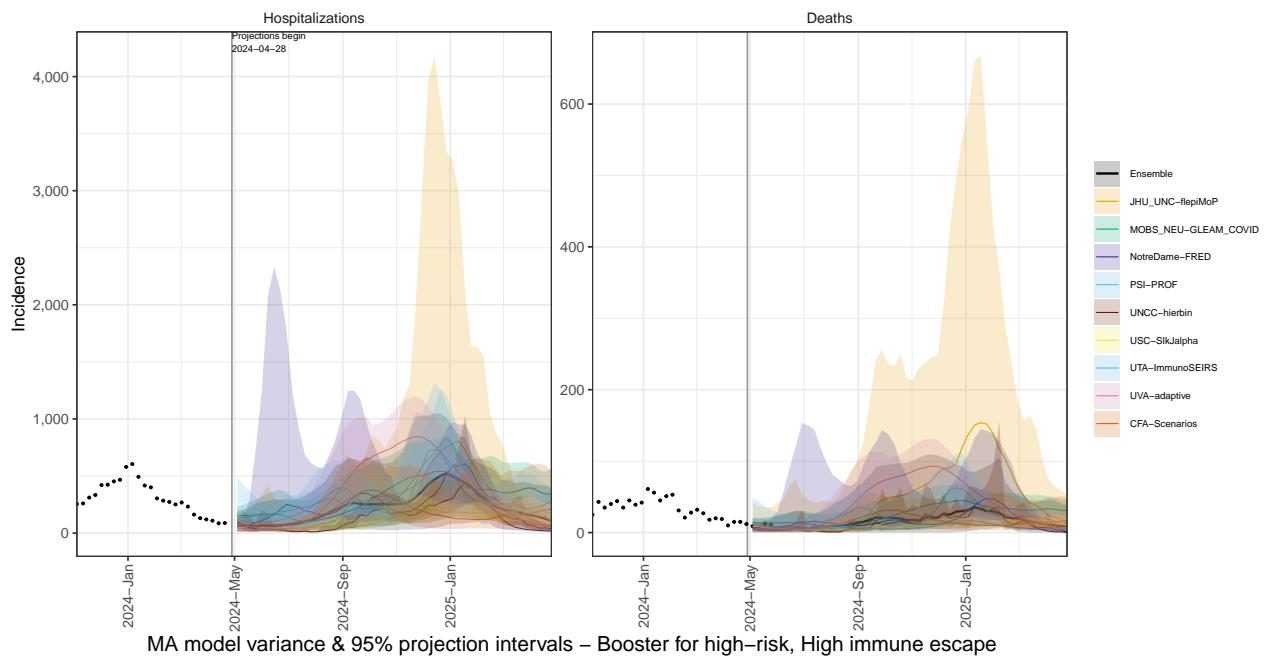
LA model variance & 95% projection intervals – Booster for high-risk, High immune escape



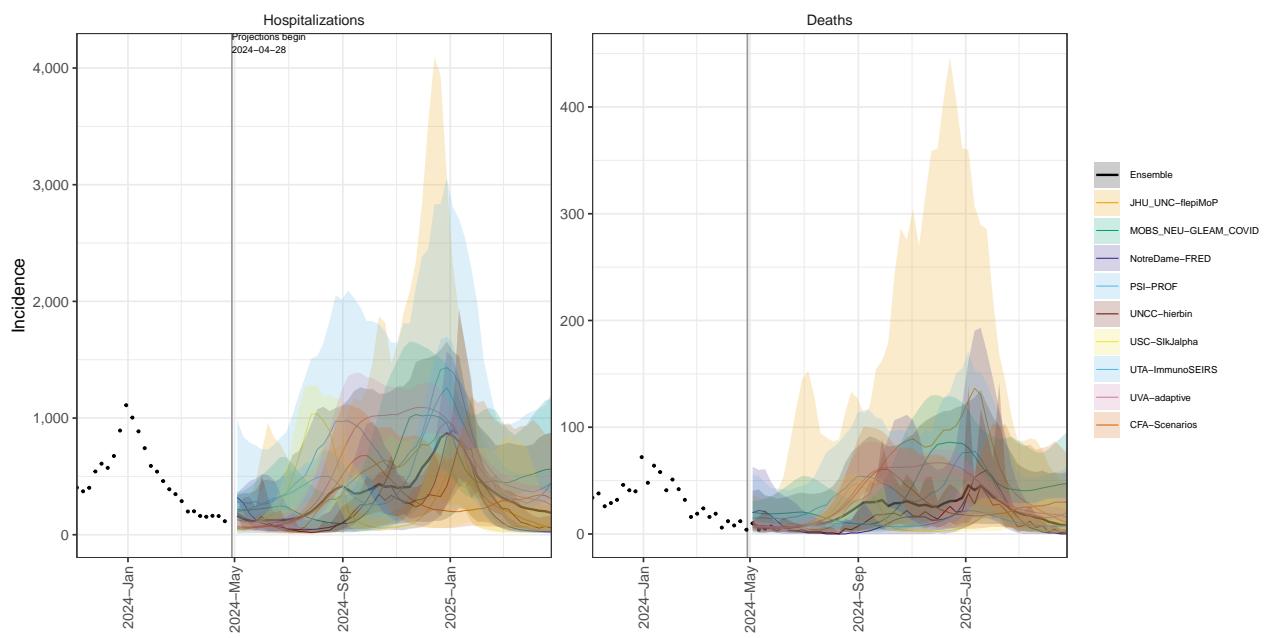
ME model variance & 95% projection intervals – Booster for high-risk, High immune escape



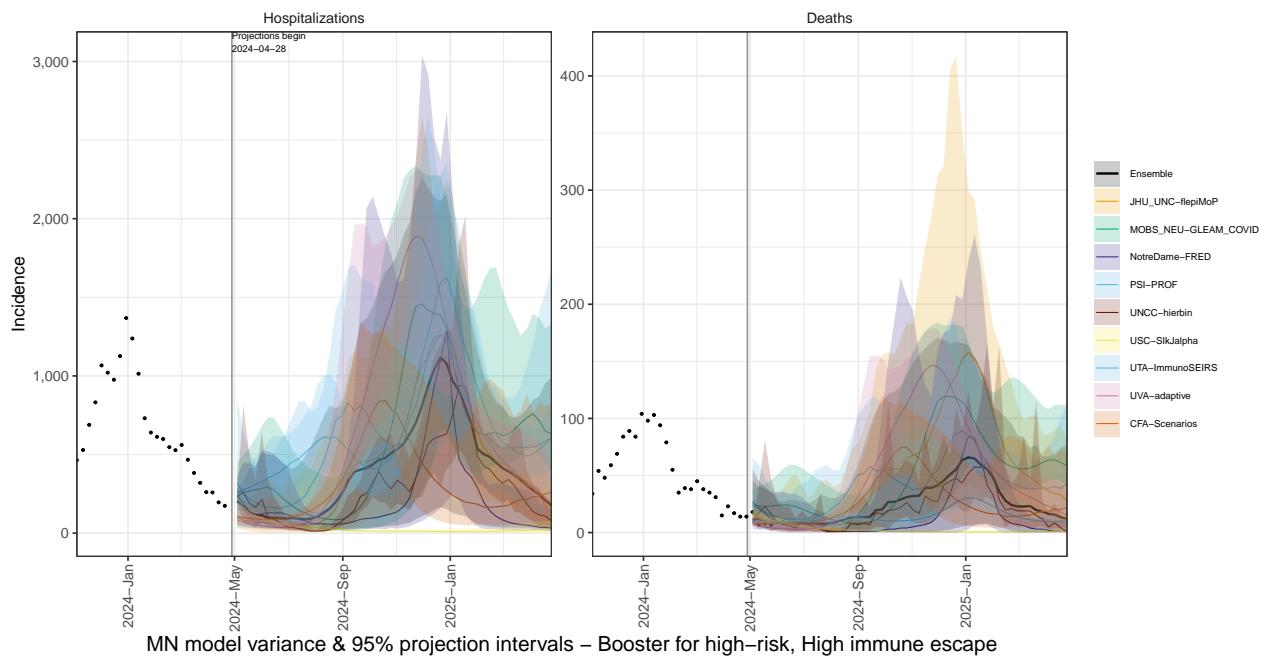
MD model variance & 95% projection intervals – Booster for high-risk, High immune escape



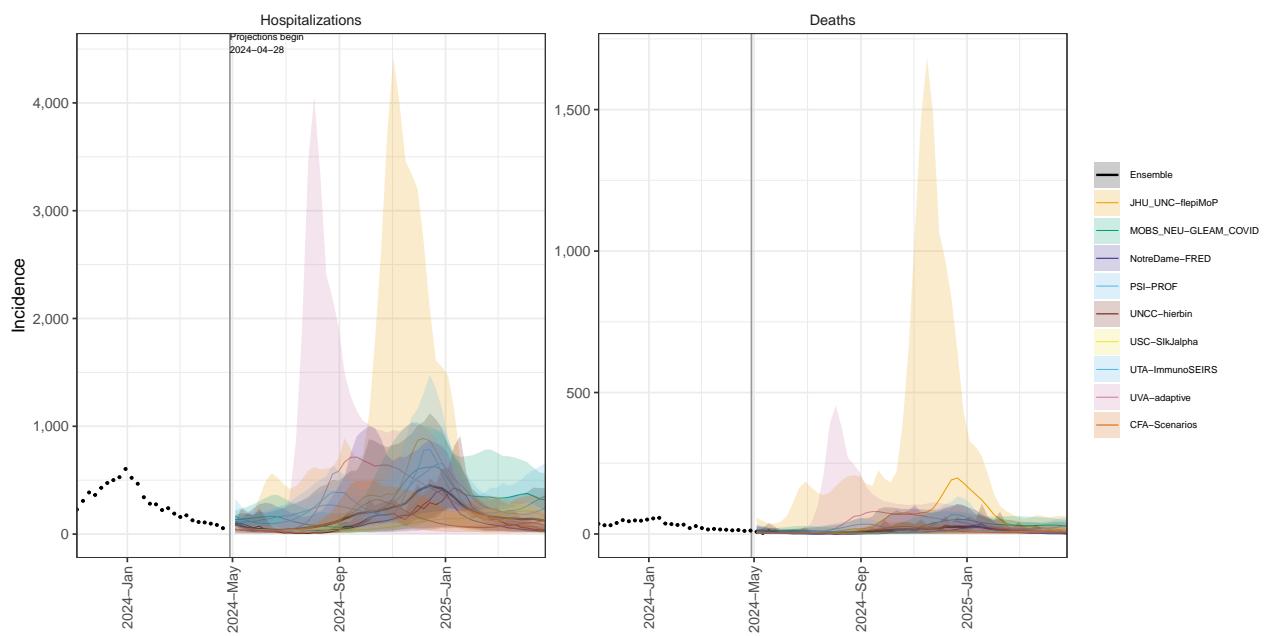
MA model variance & 95% projection intervals – Booster for high-risk, High immune escape



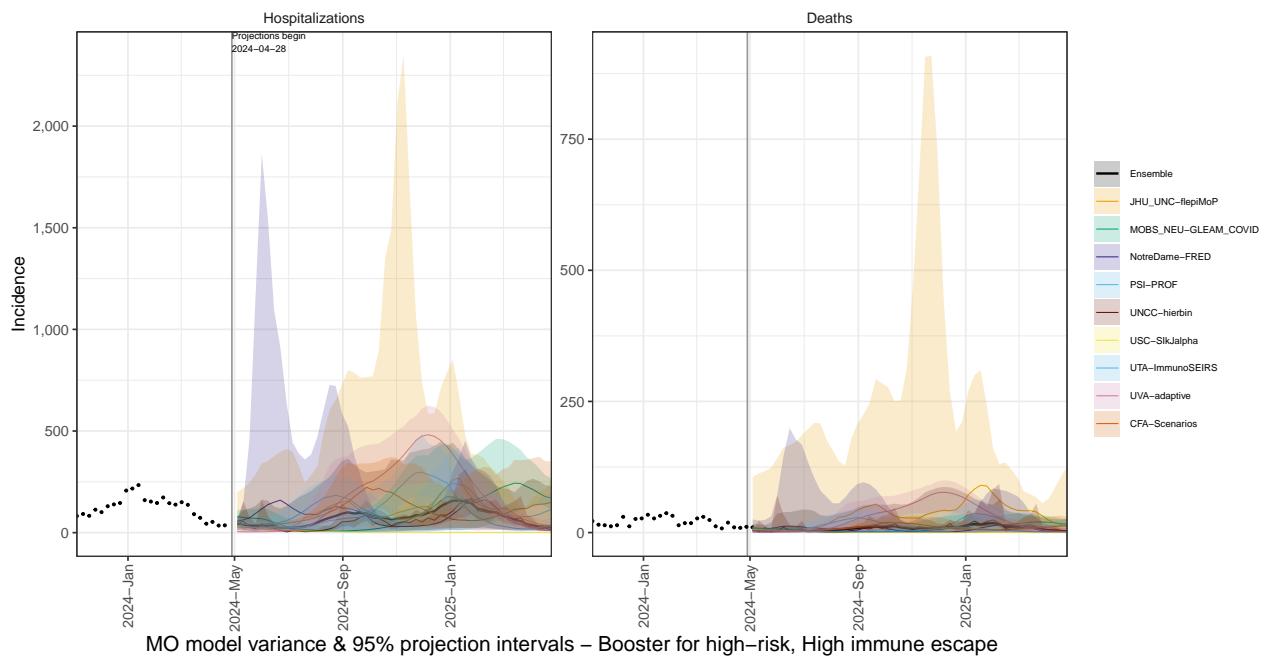
MI model variance & 95% projection intervals – Booster for high-risk, High immune escape



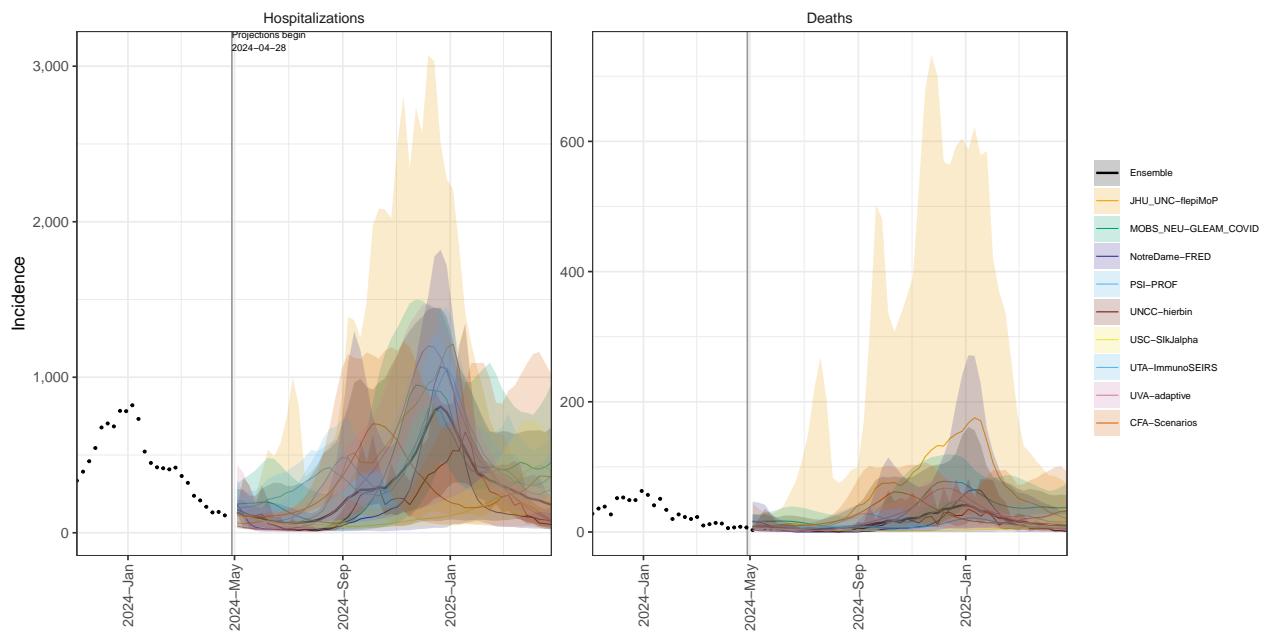
MN model variance & 95% projection intervals – Booster for high-risk, High immune escape



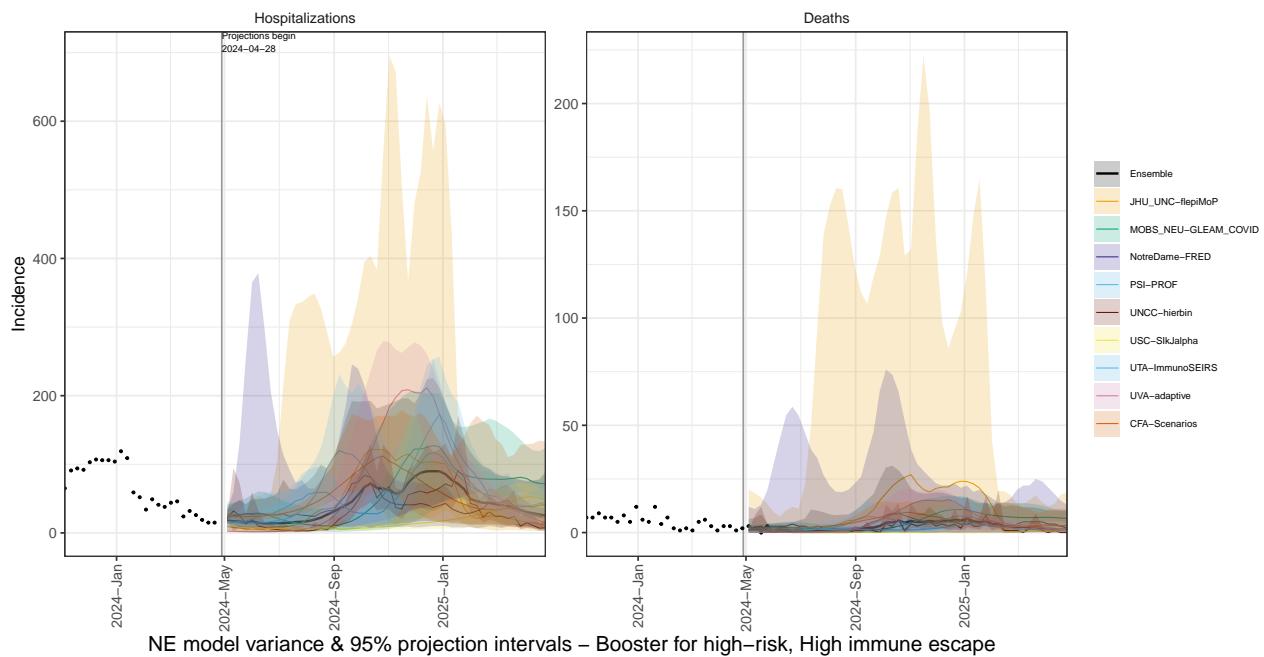
MS model variance & 95% projection intervals – Booster for high-risk, High immune escape



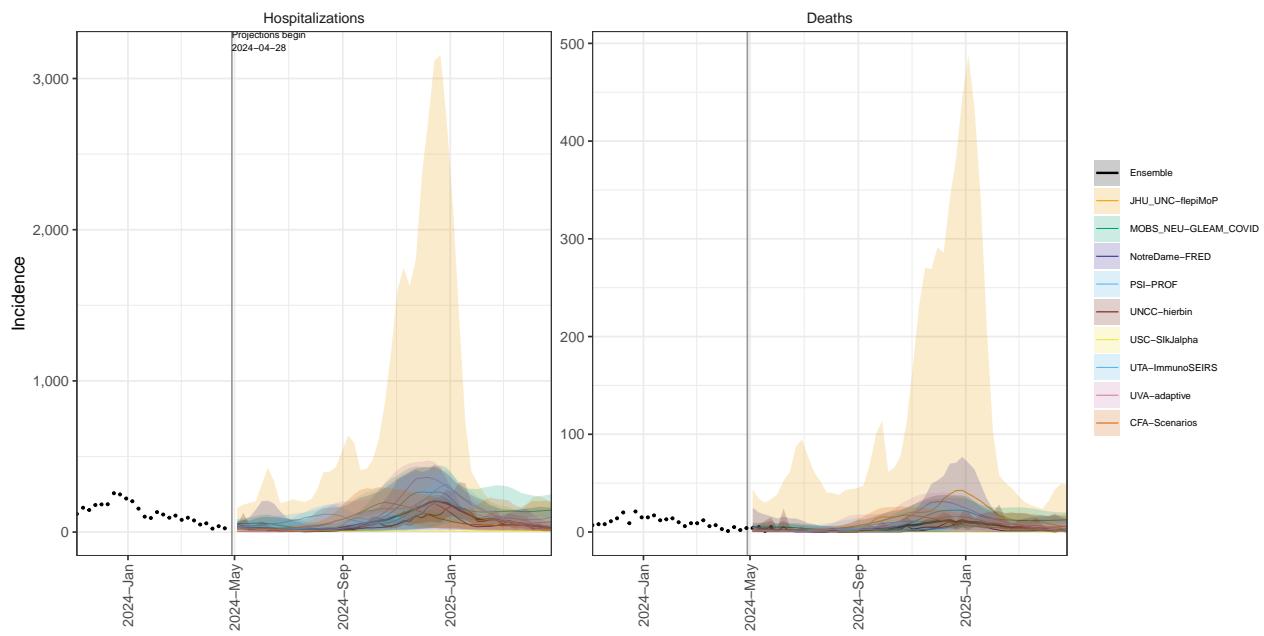
MO model variance & 95% projection intervals – Booster for high-risk, High immune escape



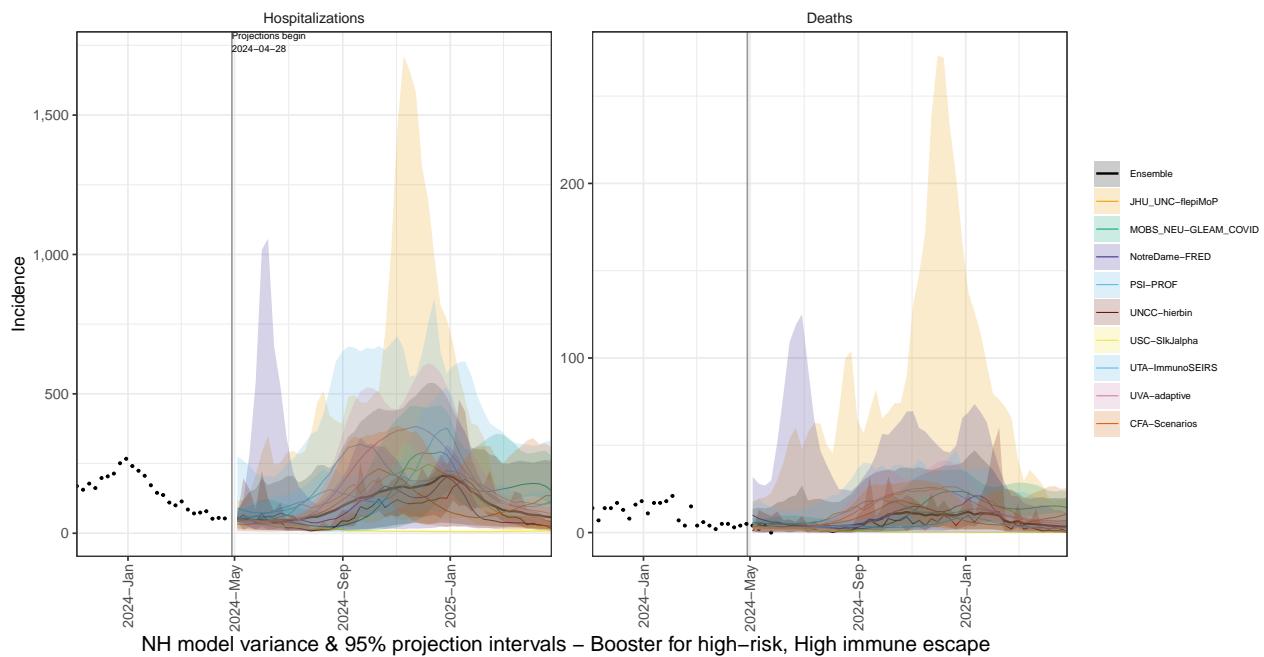
MT model variance & 95% projection intervals – Booster for high-risk, High immune escape



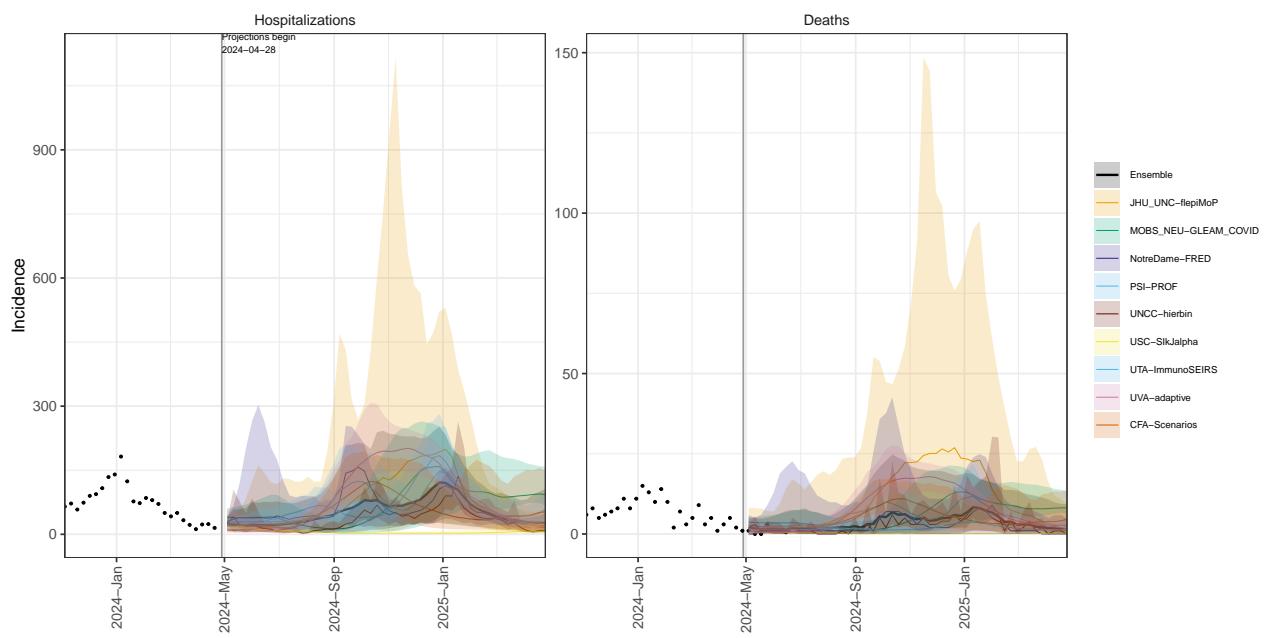
NE model variance & 95% projection intervals – Booster for high-risk, High immune escape



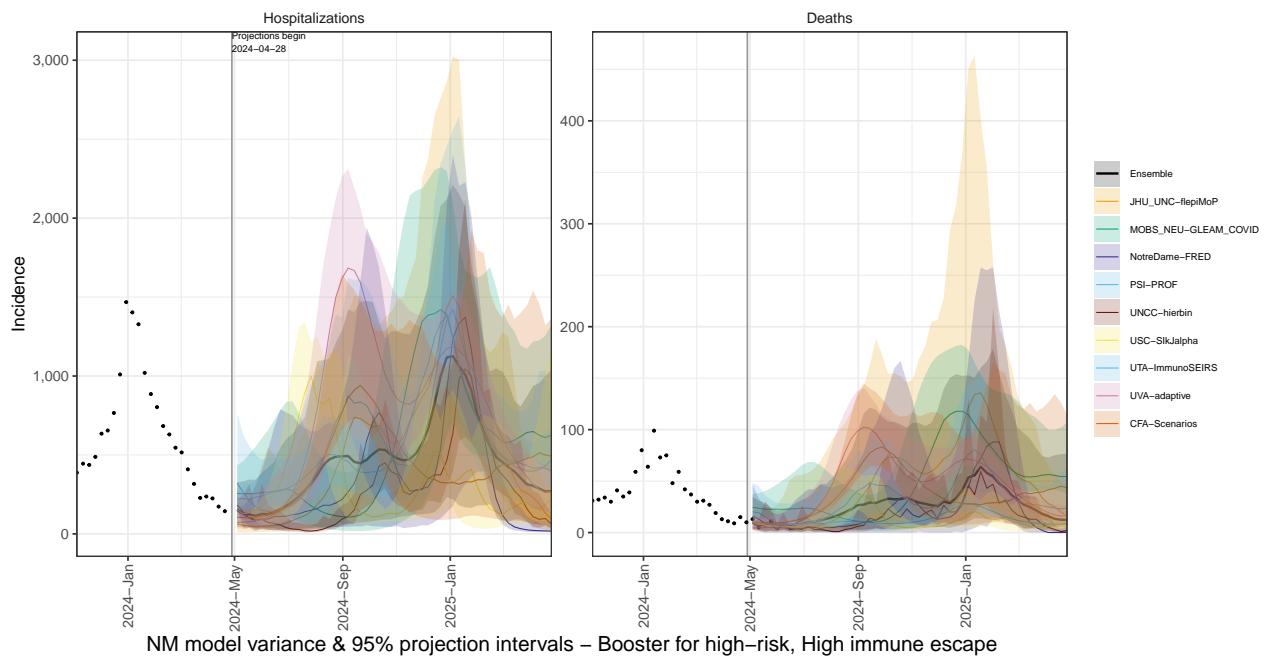
NV model variance & 95% projection intervals – Booster for high-risk, High immune escape



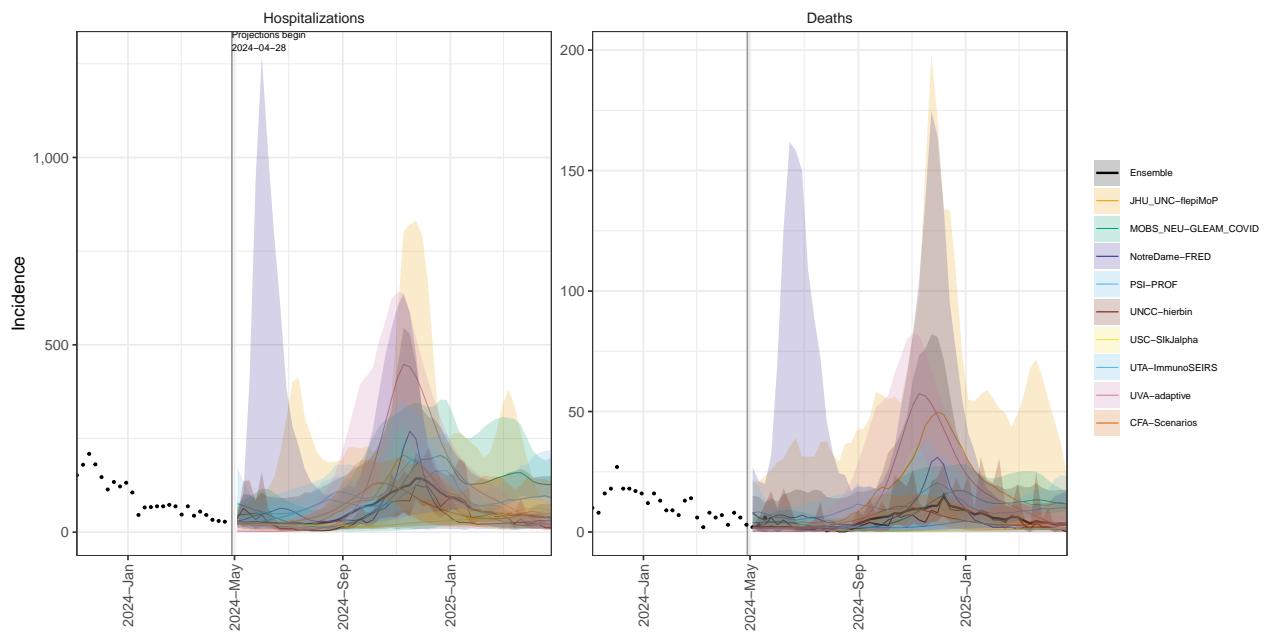
NH model variance & 95% projection intervals – Booster for high-risk, High immune escape



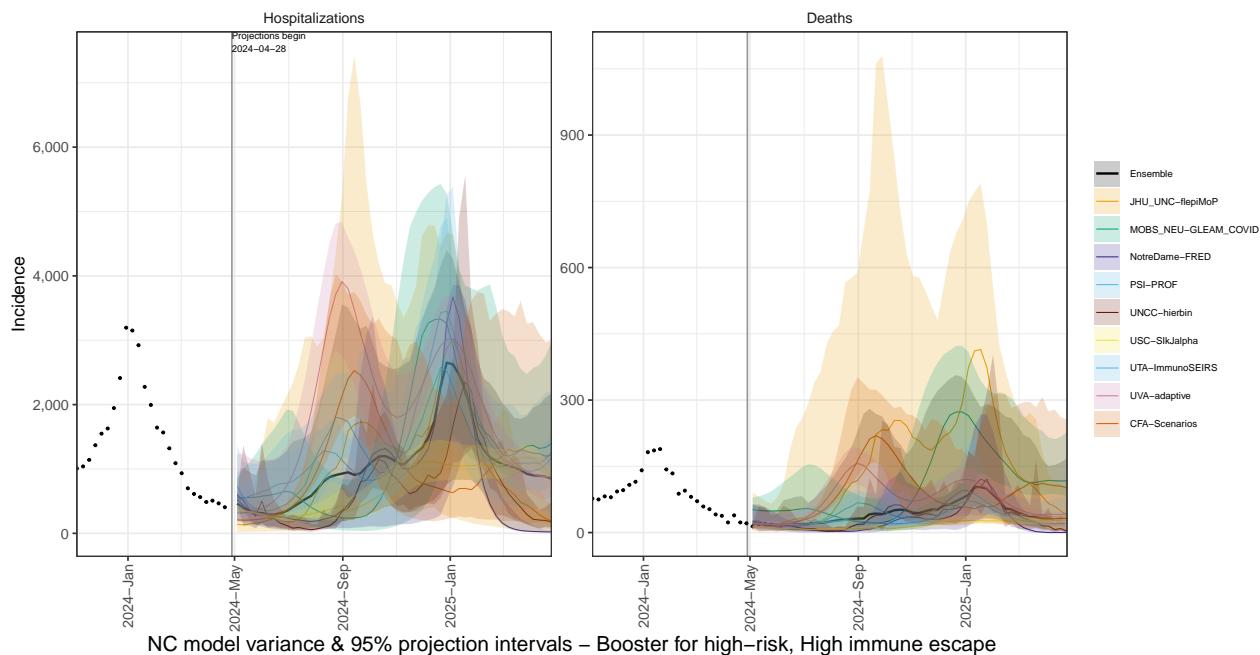
NJ model variance & 95% projection intervals – Booster for high-risk, High immune escape



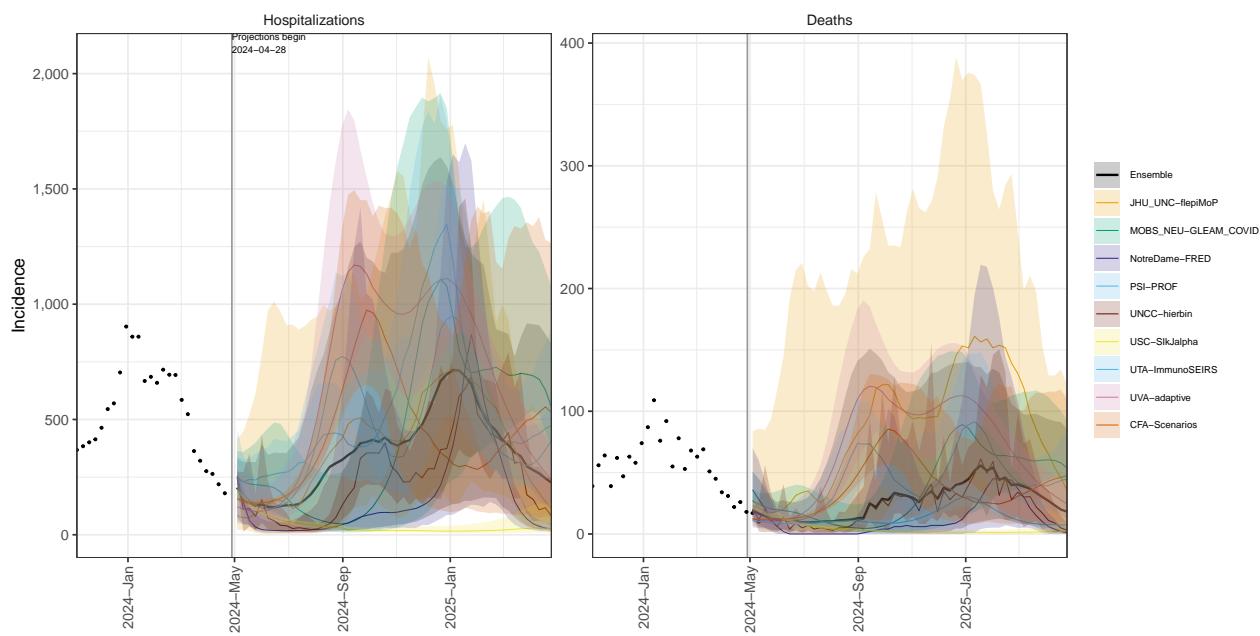
NM model variance & 95% projection intervals – Booster for high-risk, High immune escape



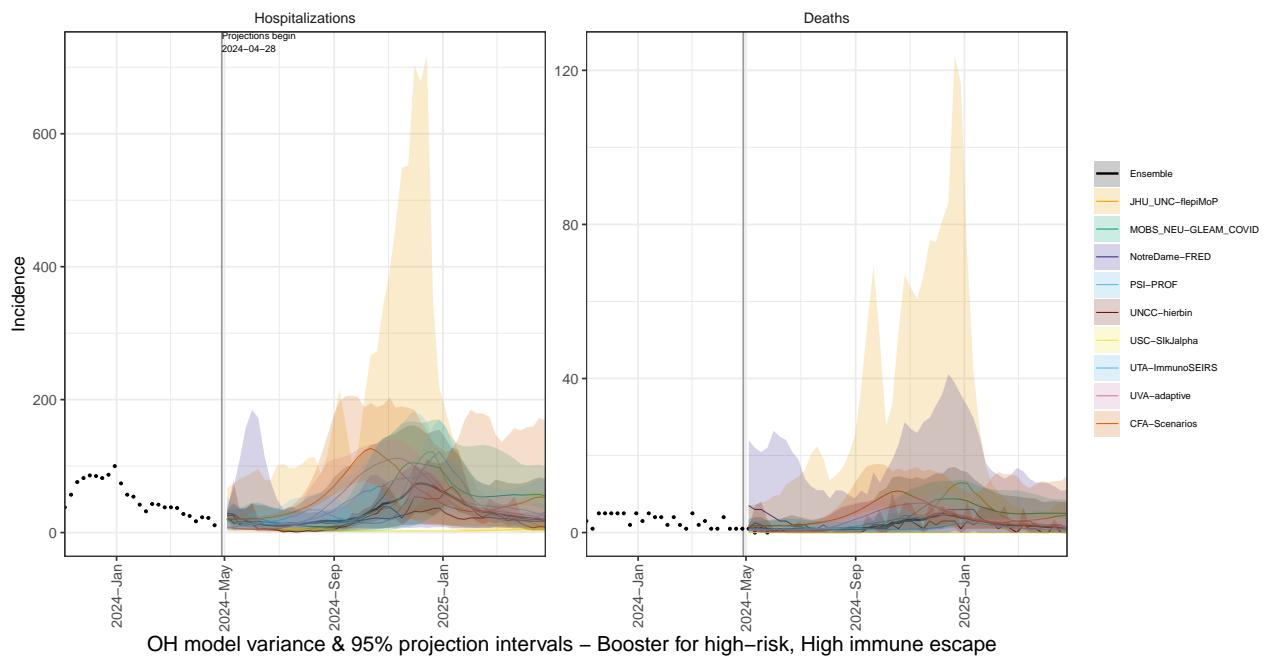
NY model variance & 95% projection intervals – Booster for high-risk, High immune escape



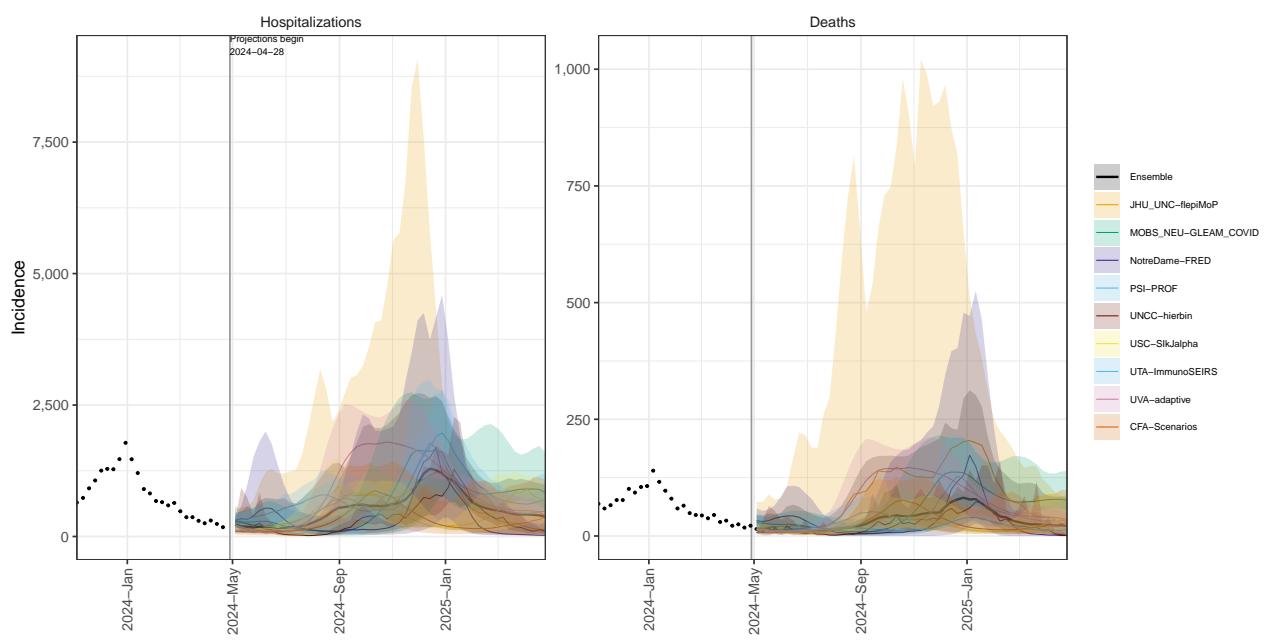
NC model variance & 95% projection intervals – Booster for high-risk, High immune escape



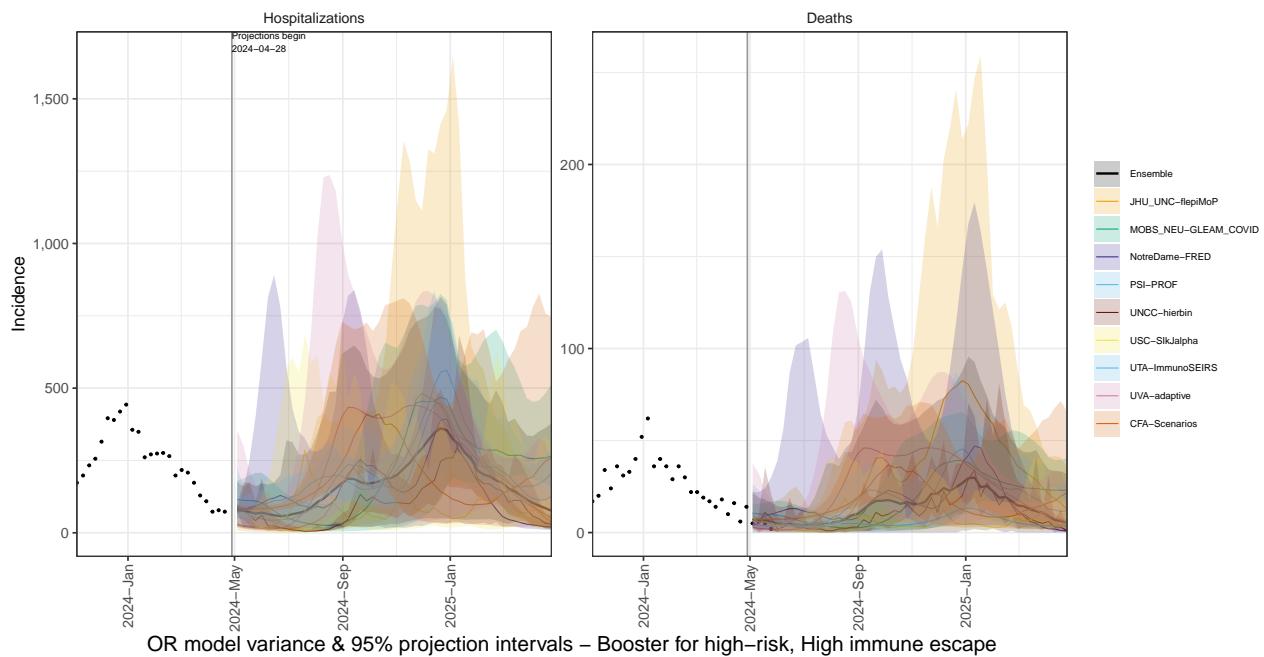
ND model variance & 95% projection intervals – Booster for high-risk, High immune escape



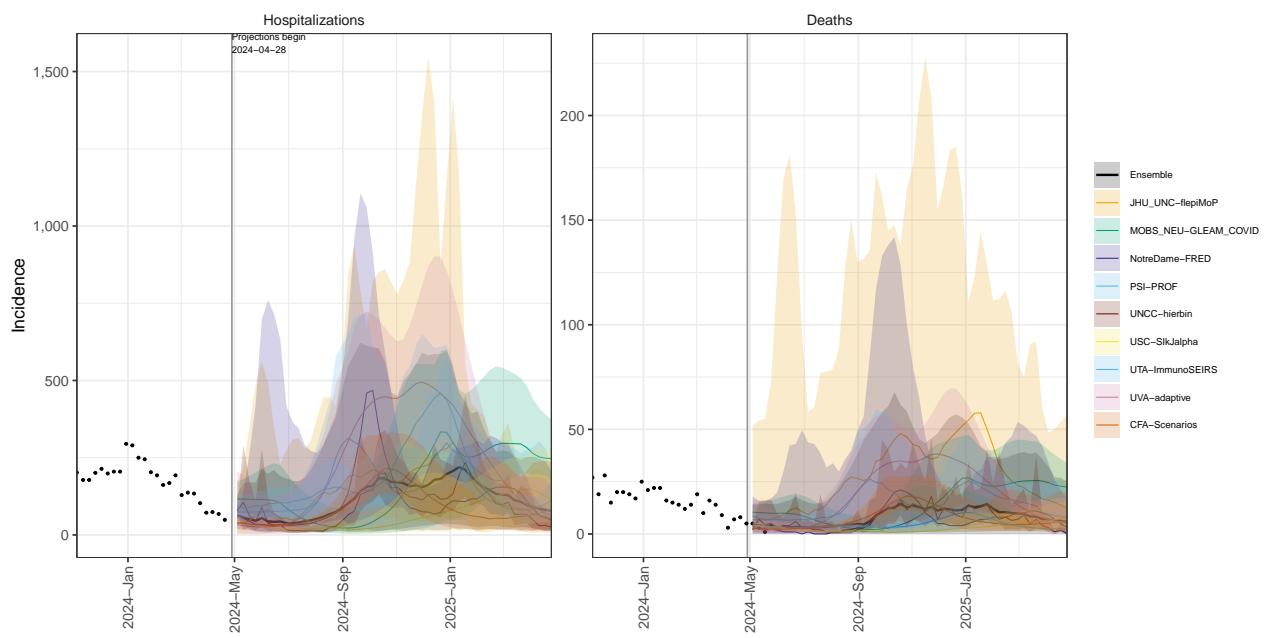
OH model variance & 95% projection intervals – Booster for high-risk, High immune escape



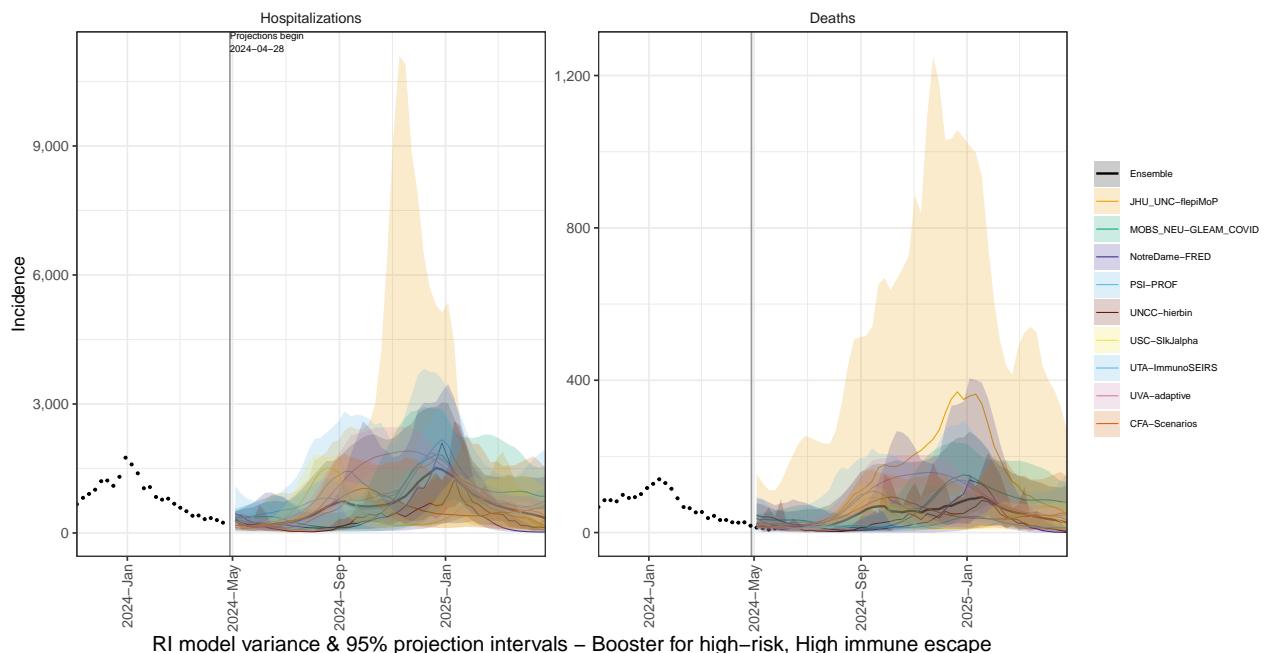
OK model variance & 95% projection intervals – Booster for high-risk, High immune escape



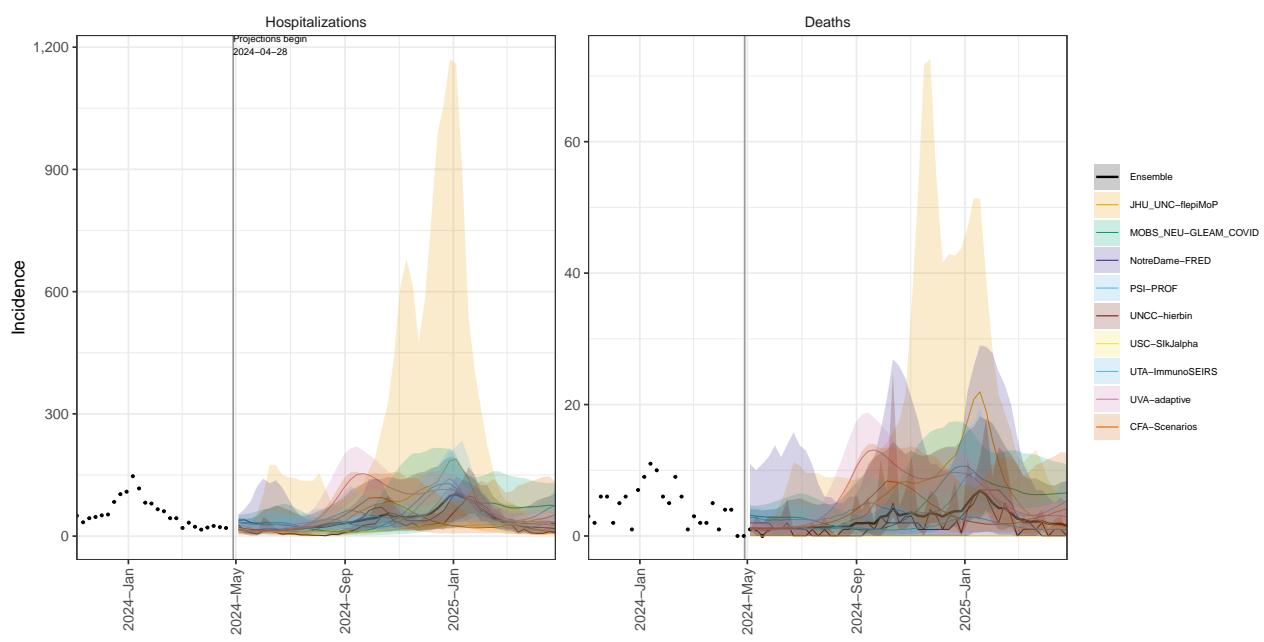
OR model variance & 95% projection intervals – Booster for high-risk, High immune escape



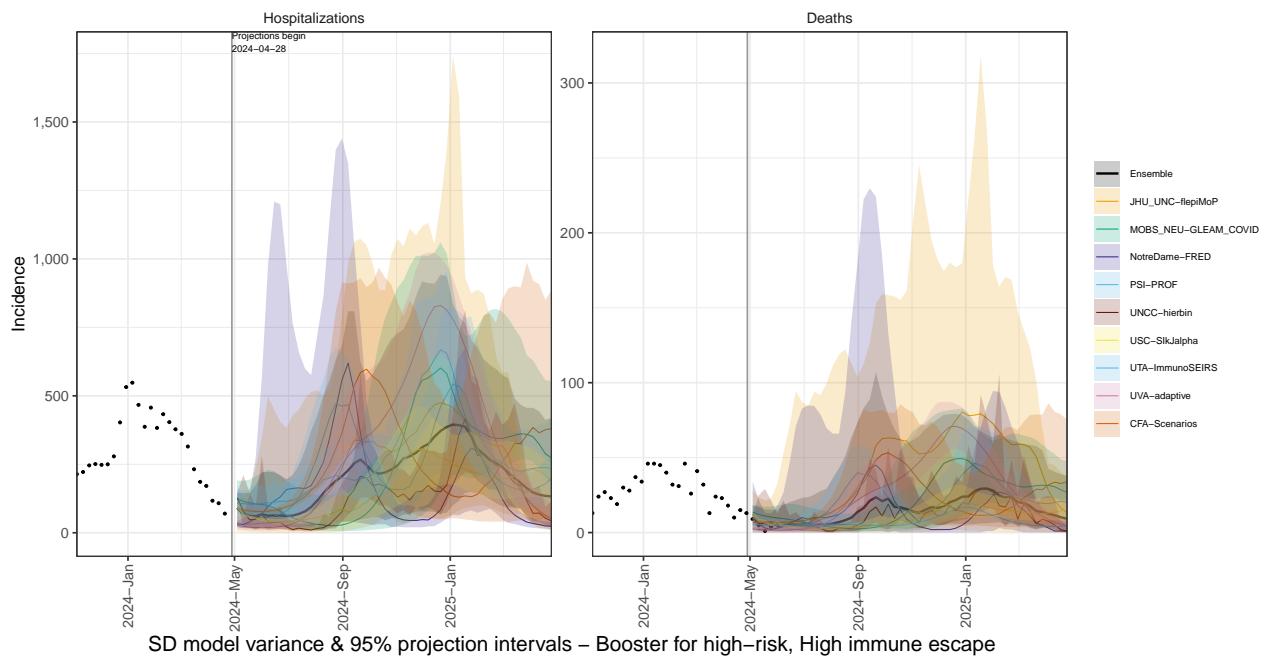
PA model variance & 95% projection intervals – Booster for high-risk, High immune escape



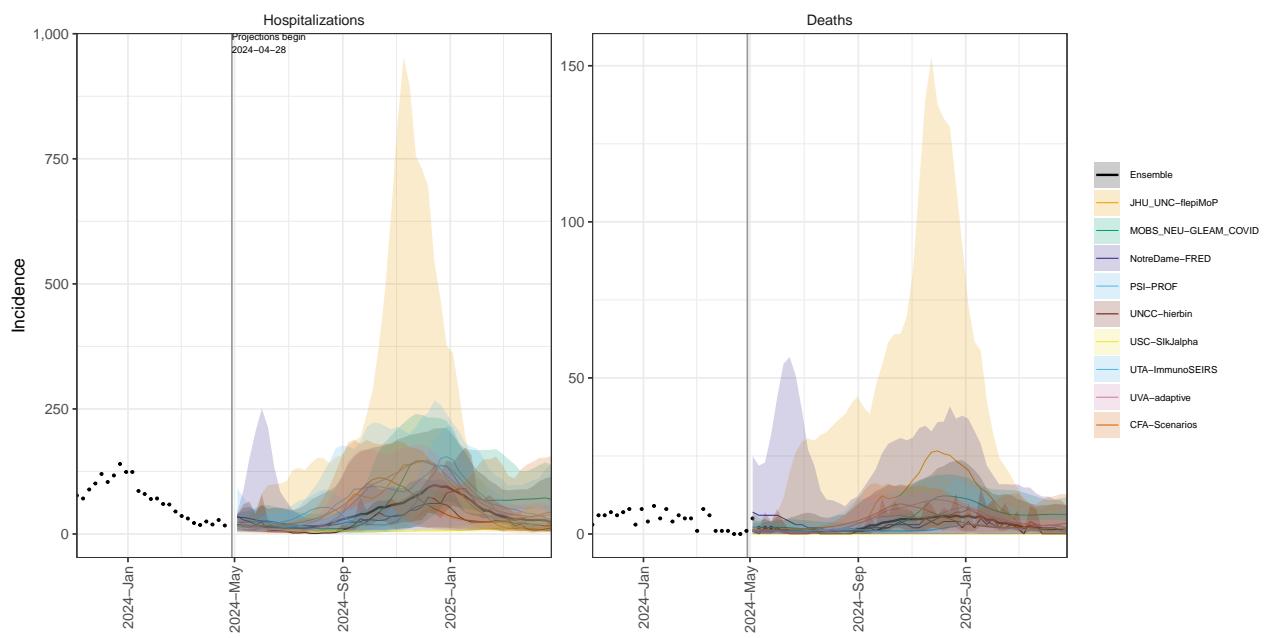
RI model variance & 95% projection intervals – Booster for high-risk, High immune escape



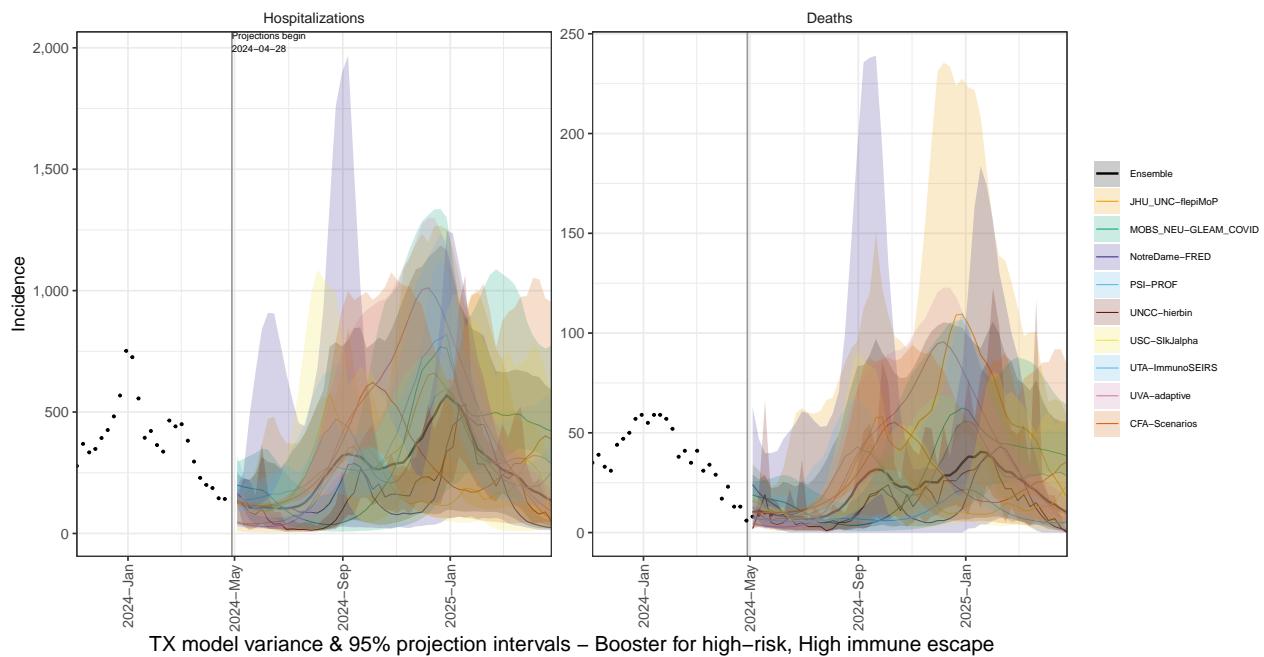
SC model variance & 95% projection intervals – Booster for high-risk, High immune escape



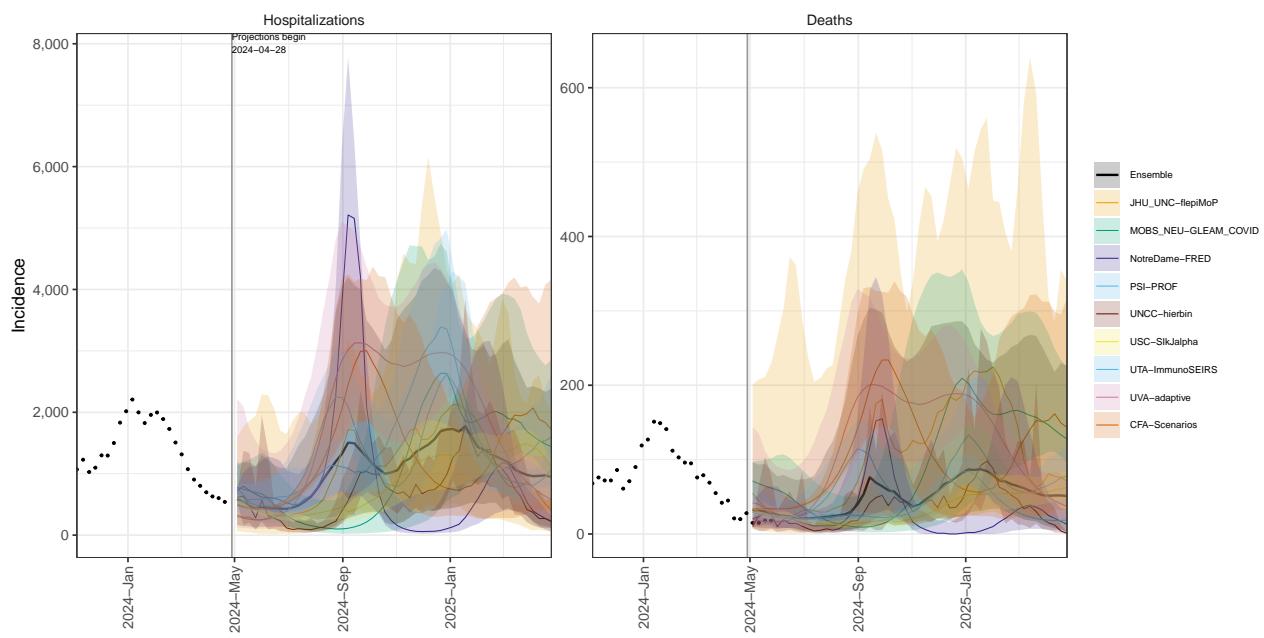
SD model variance & 95% projection intervals – Booster for high-risk, High immune escape



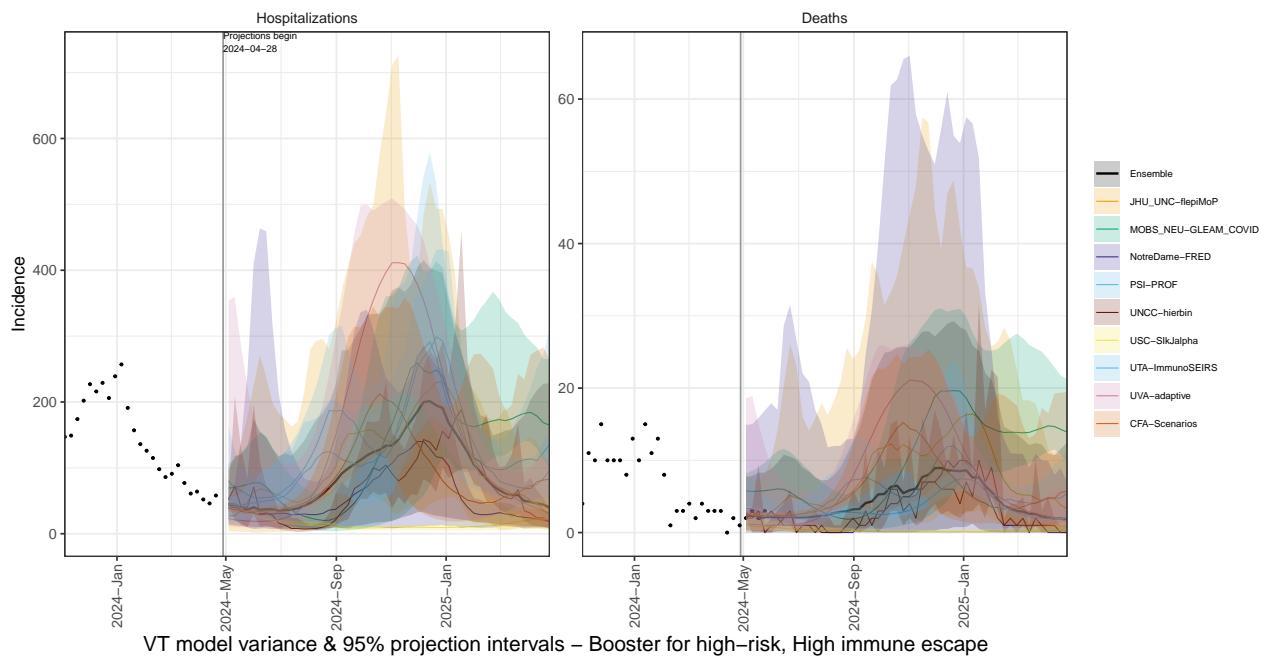
TN model variance & 95% projection intervals – Booster for high-risk, High immune escape



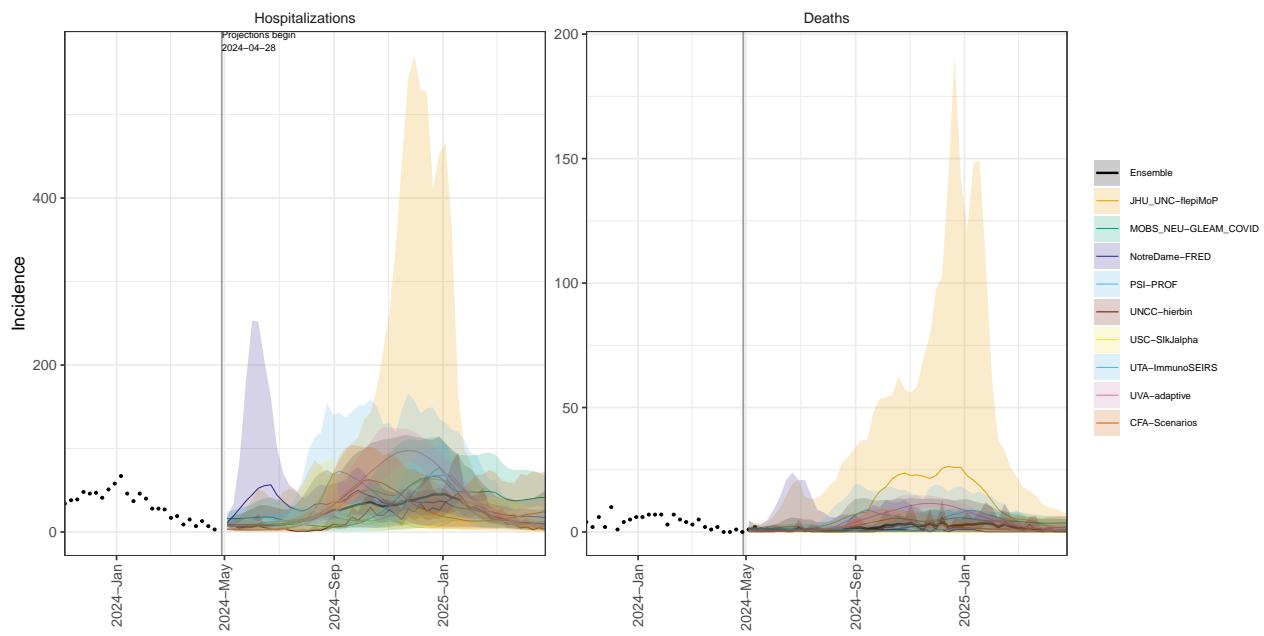
TX model variance & 95% projection intervals – Booster for high-risk, High immune escape



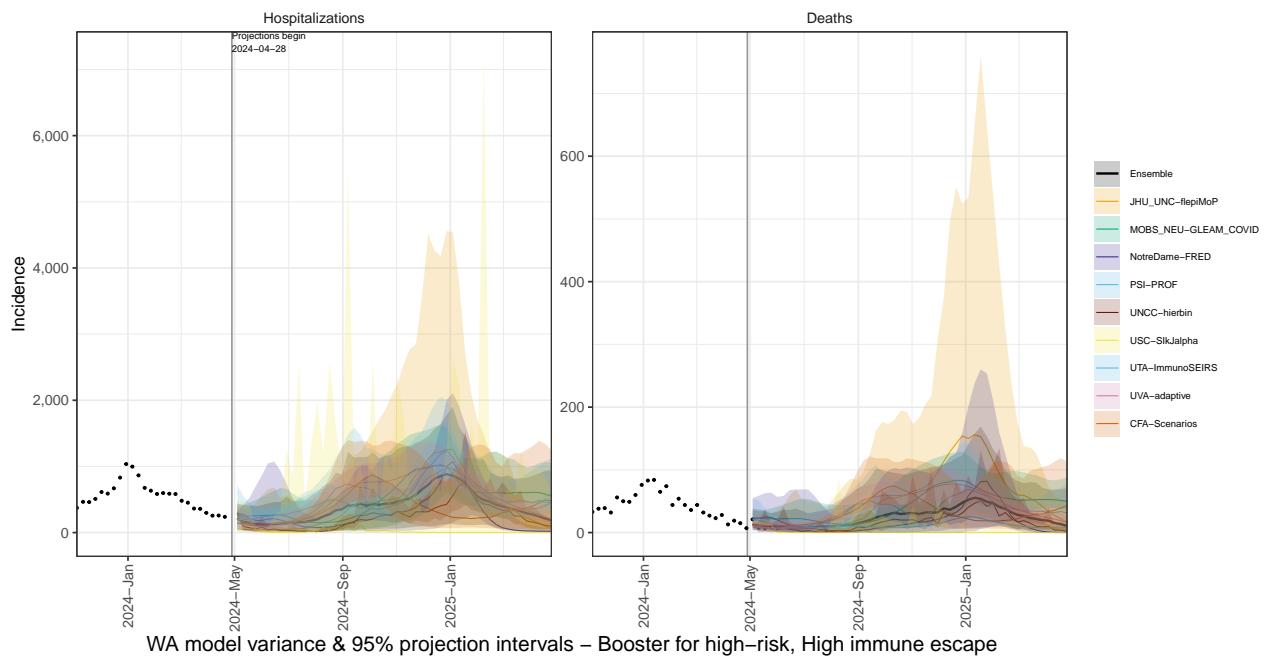
UT model variance & 95% projection intervals – Booster for high-risk, High immune escape



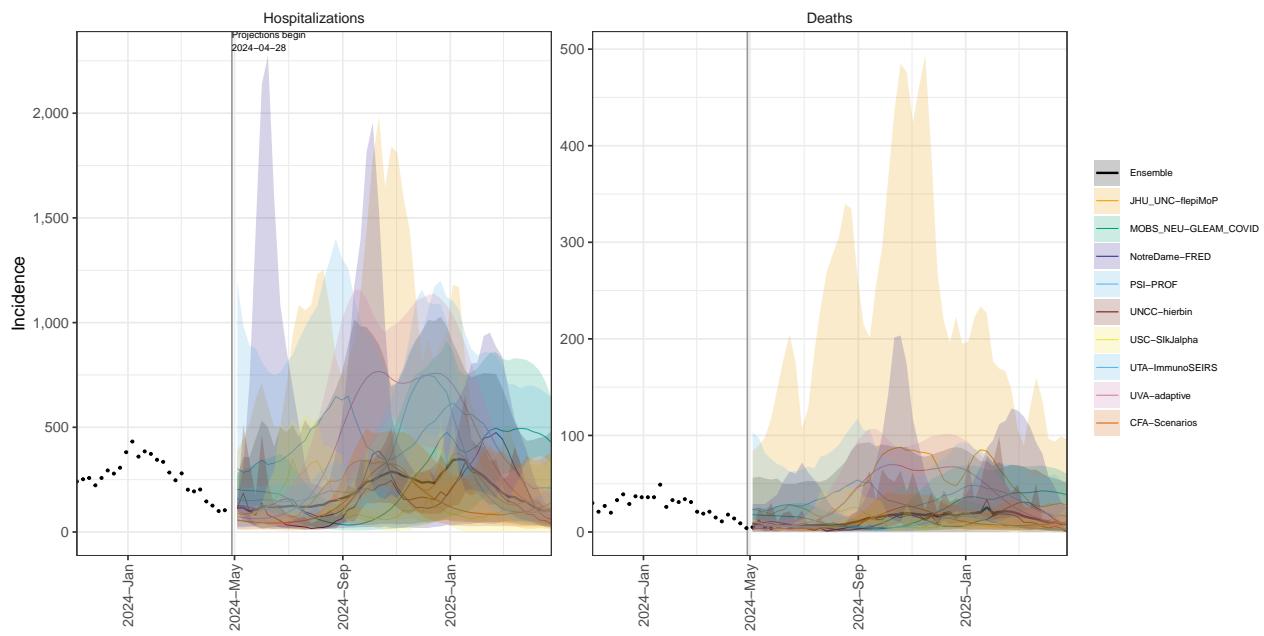
VT model variance & 95% projection intervals – Booster for high-risk, High immune escape



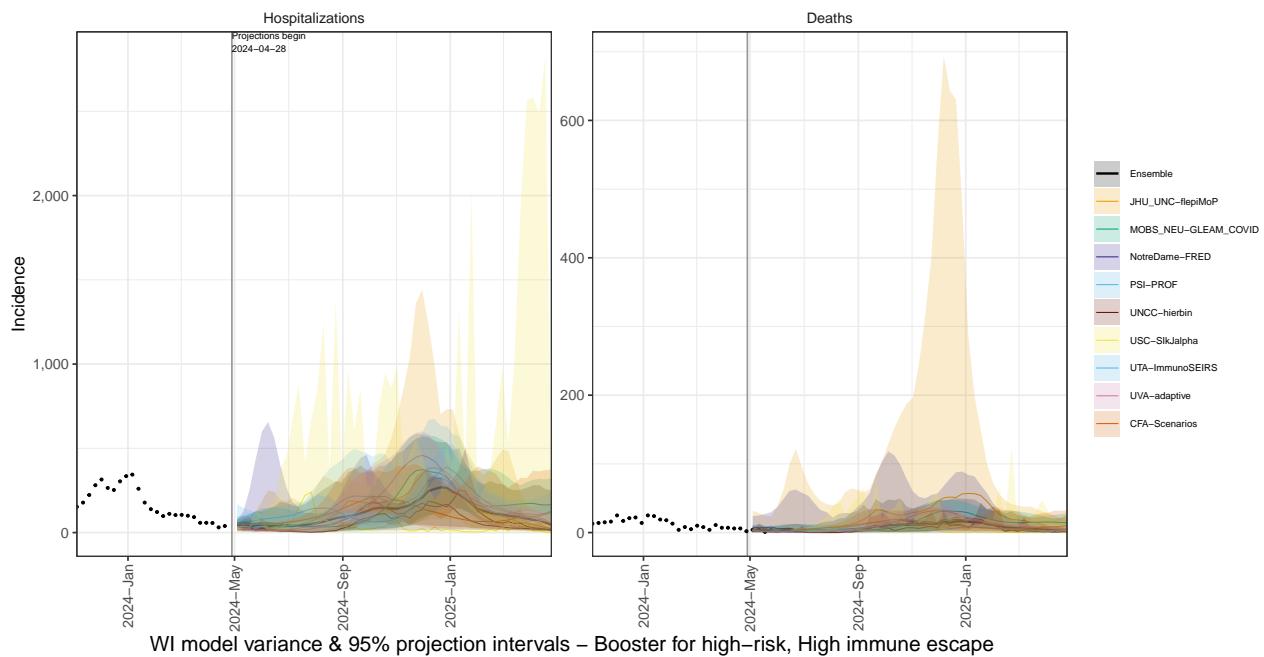
VA model variance & 95% projection intervals – Booster for high-risk, High immune escape



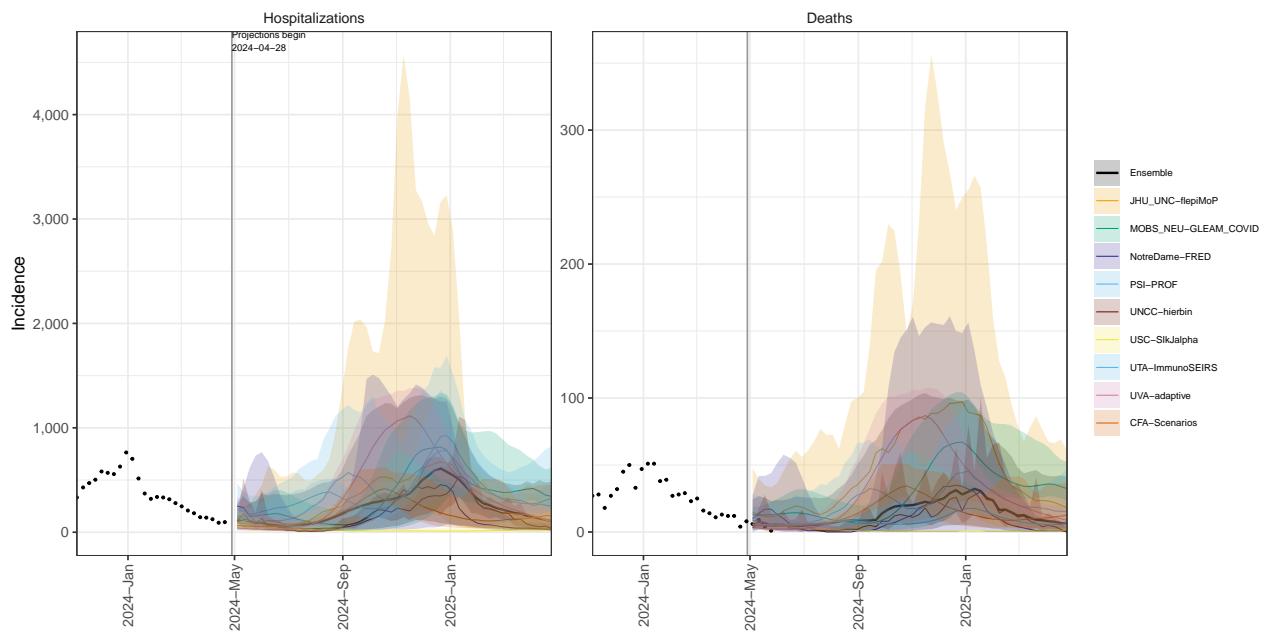
WA model variance & 95% projection intervals – Booster for high-risk, High immune escape



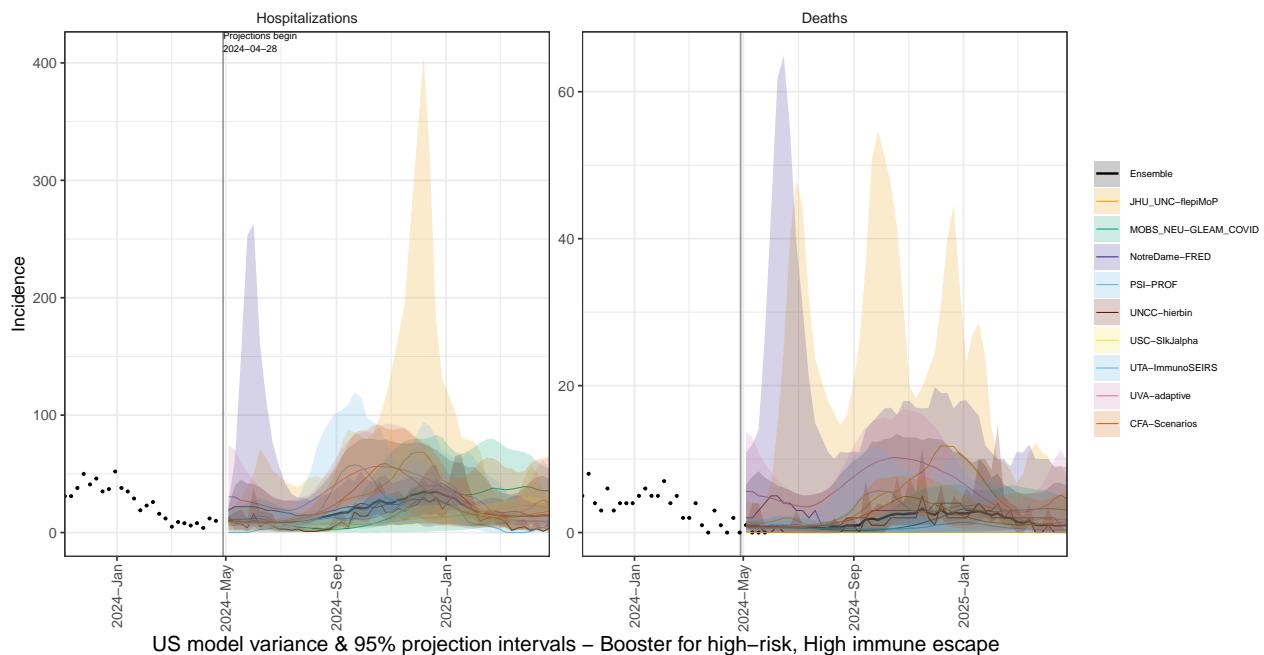
WV model variance & 95% projection intervals – Booster for high-risk, High immune escape



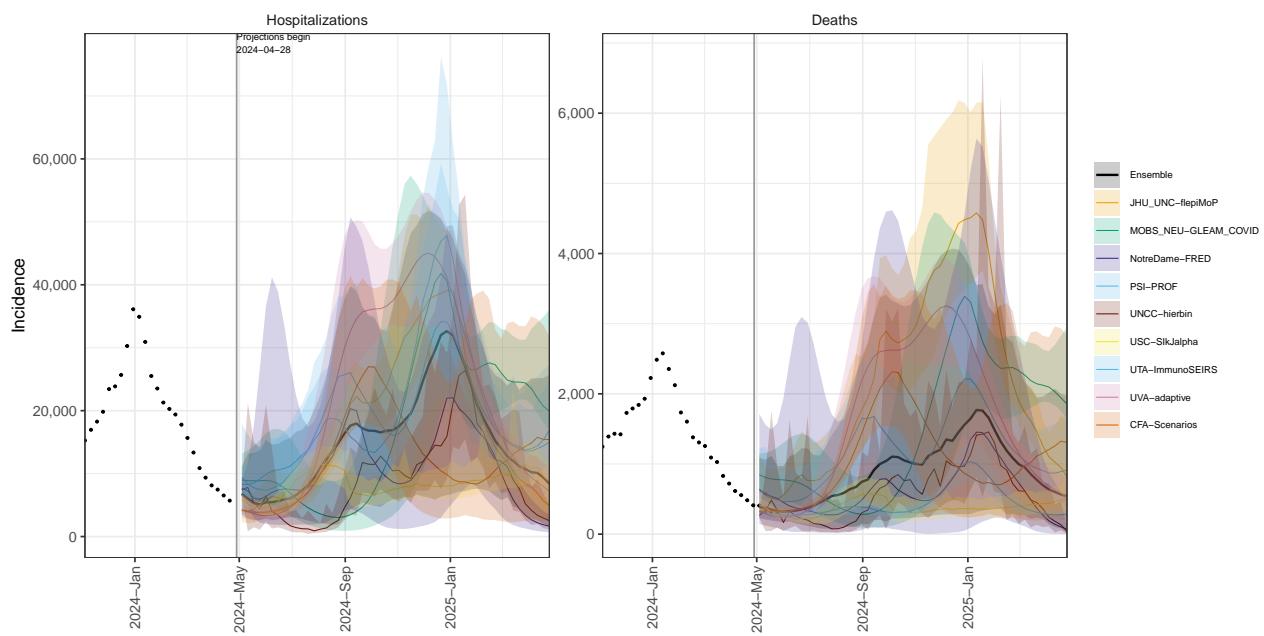
WI model variance & 95% projection intervals – Booster for high-risk, High immune escape



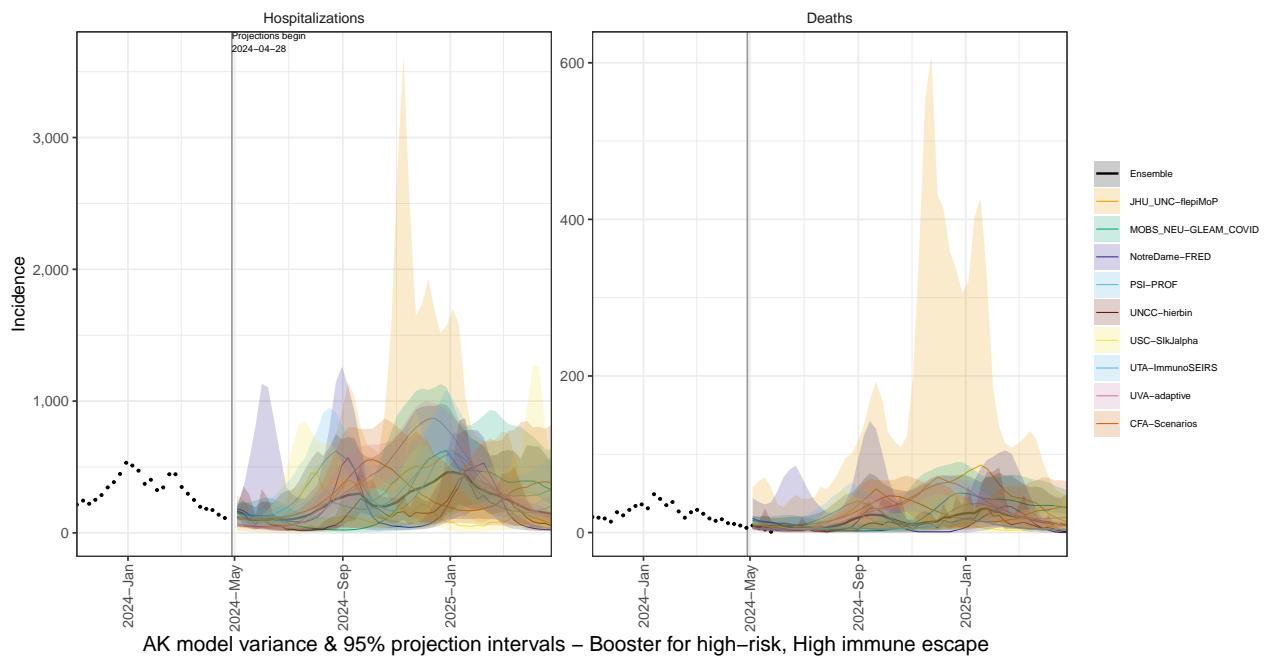
WY model variance & 95% projection intervals – Booster for high-risk, High immune escape



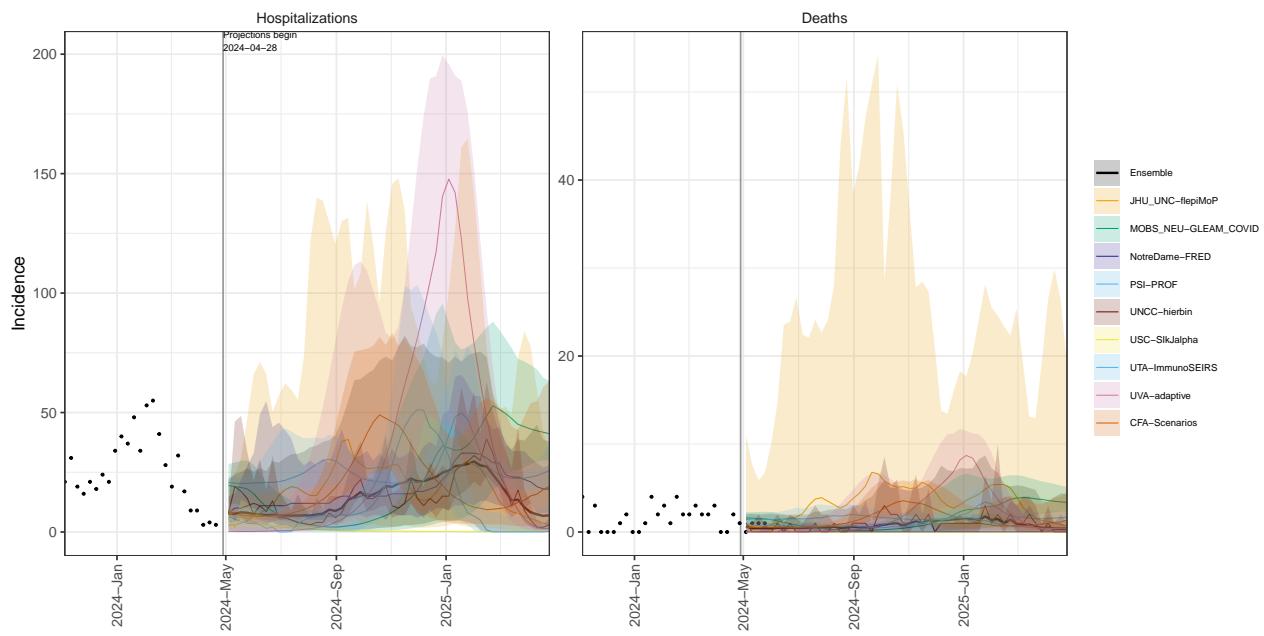
US model variance & 95% projection intervals – Booster for high-risk, High immune escape



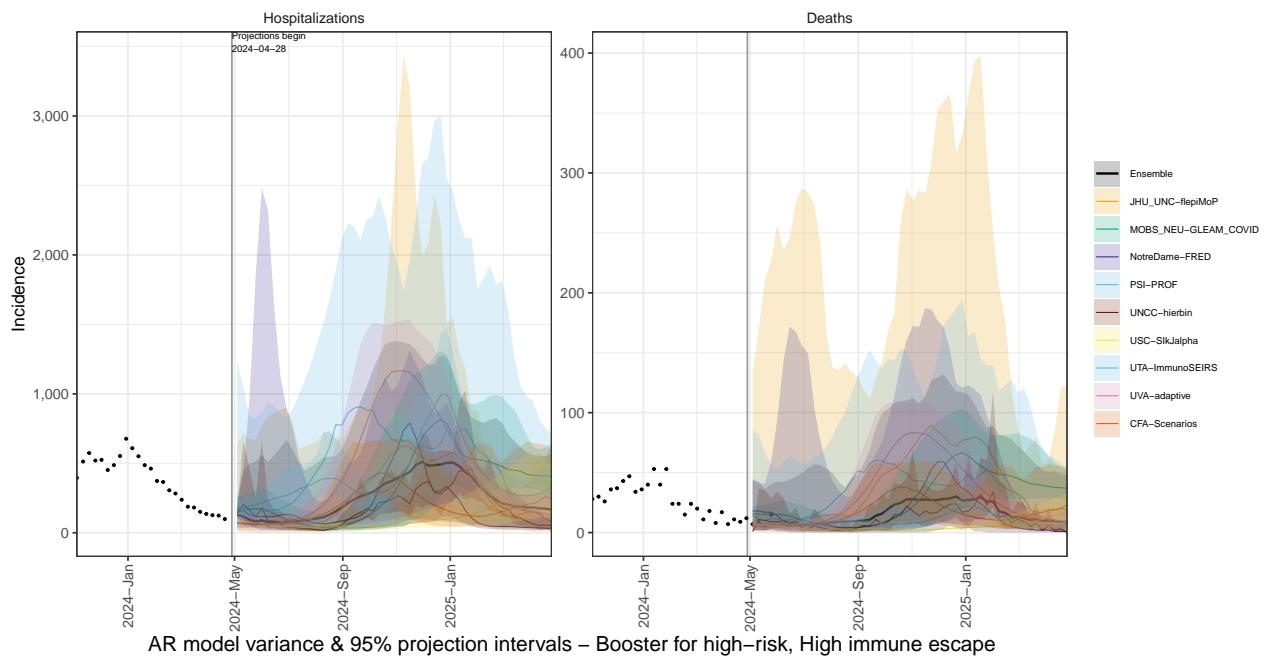
AL model variance & 95% projection intervals – Booster for high-risk, High immune escape



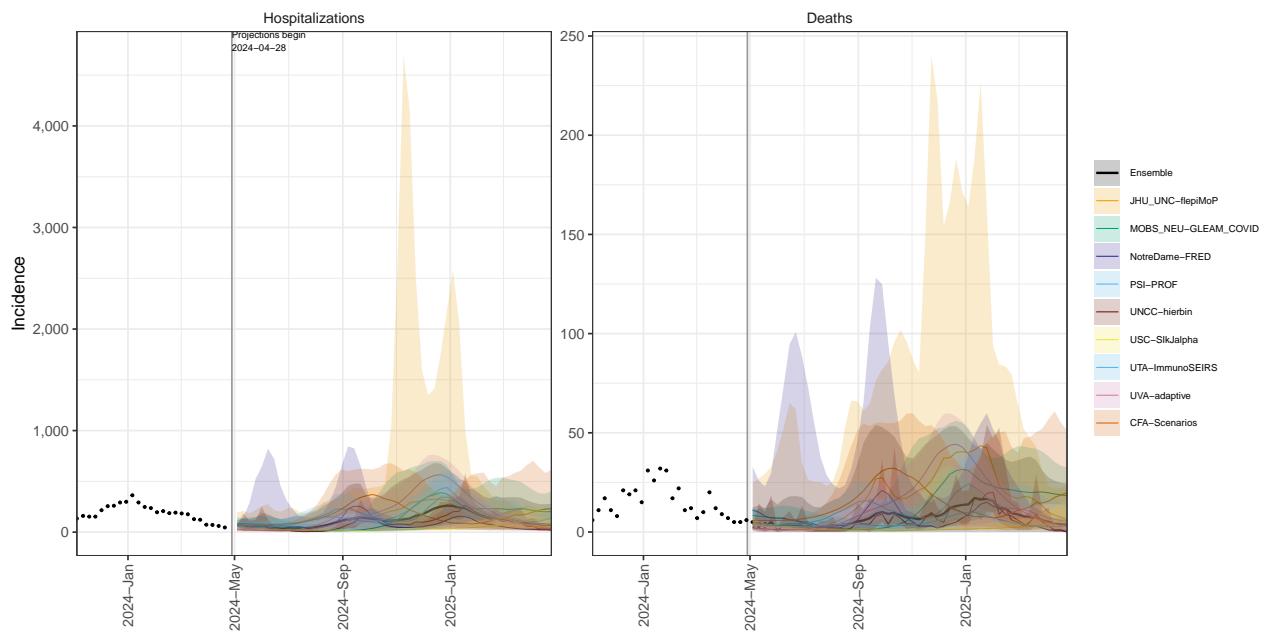
AK model variance & 95% projection intervals – Booster for high-risk, High immune escape



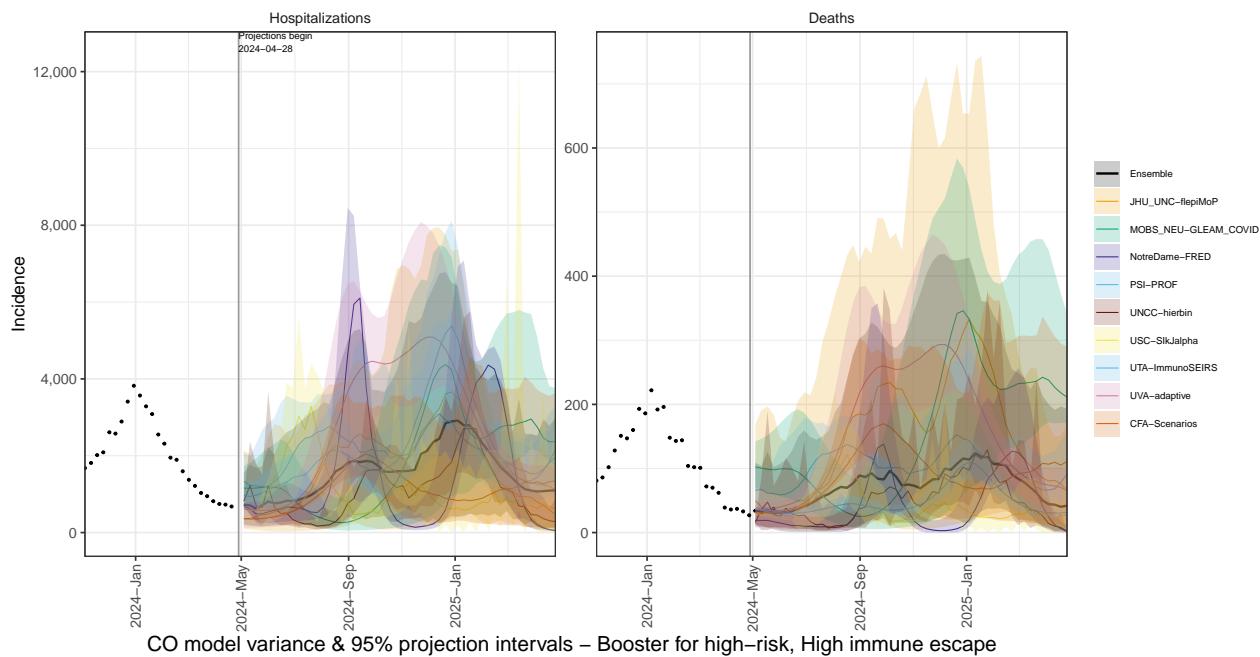
AZ model variance & 95% projection intervals – Booster for high-risk, High immune escape



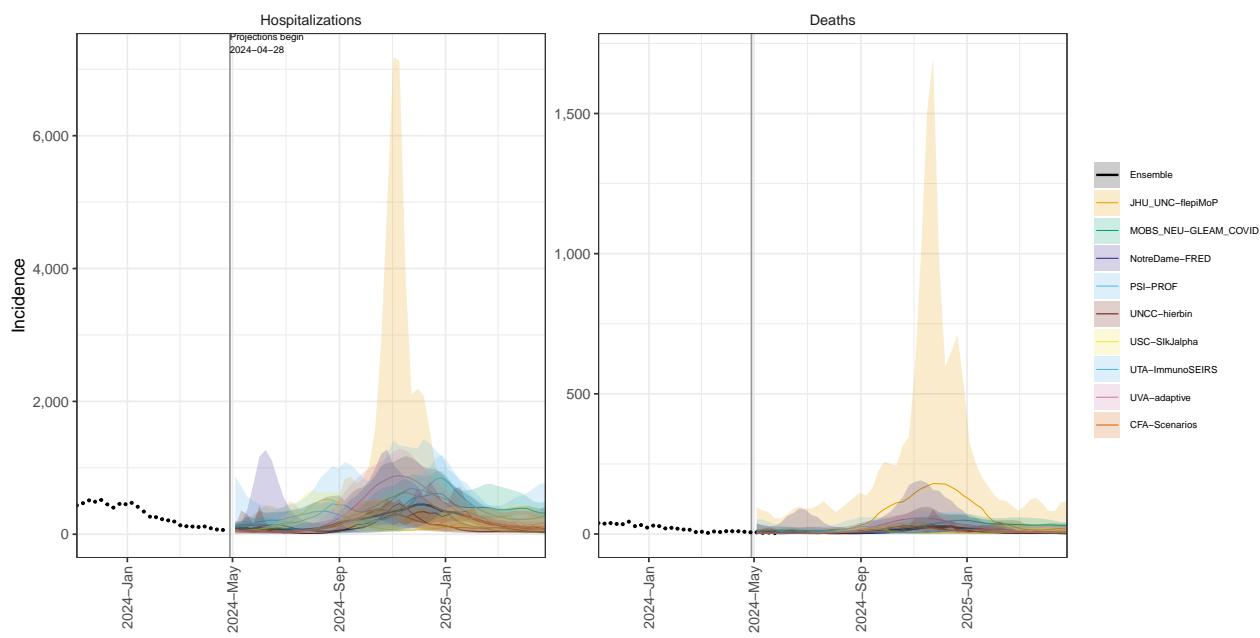
AR model variance & 95% projection intervals – Booster for high-risk, High immune escape



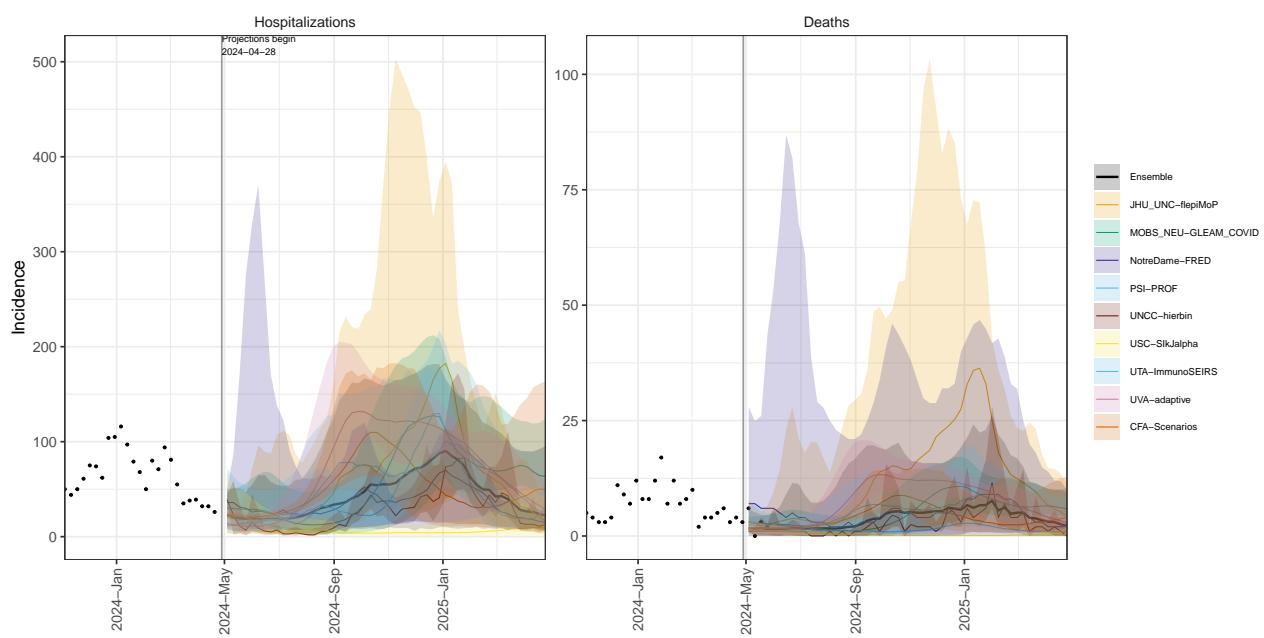
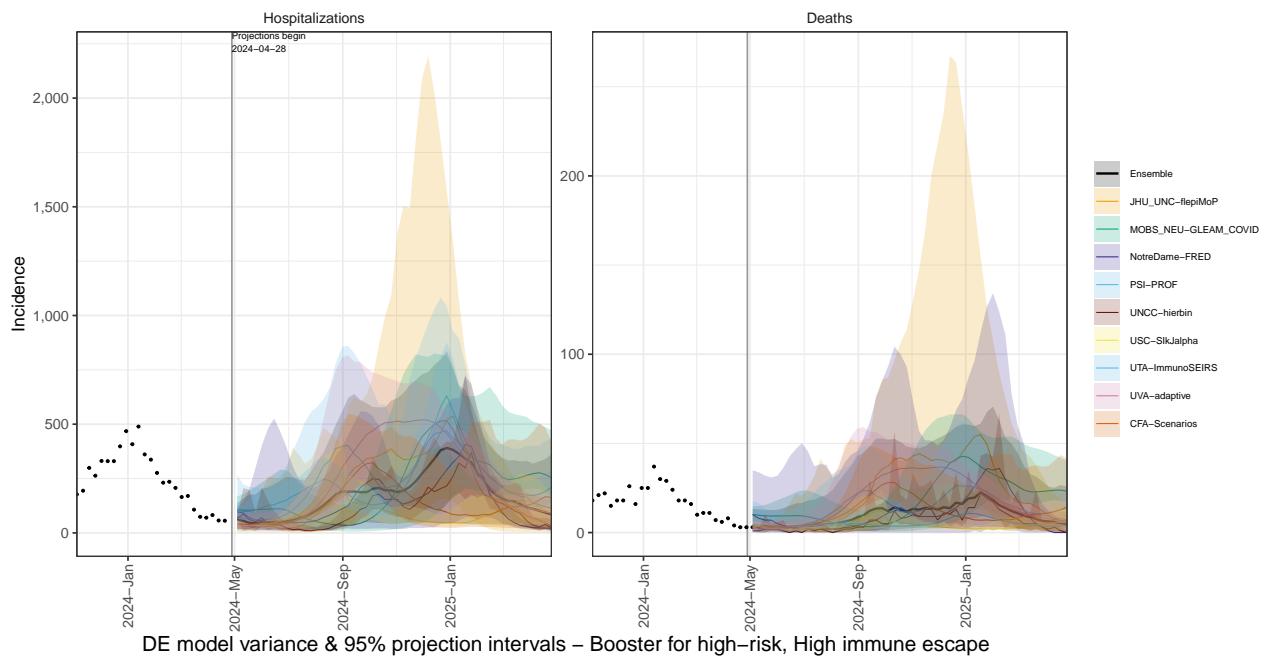
CA model variance & 95% projection intervals – Booster for high-risk, High immune escape



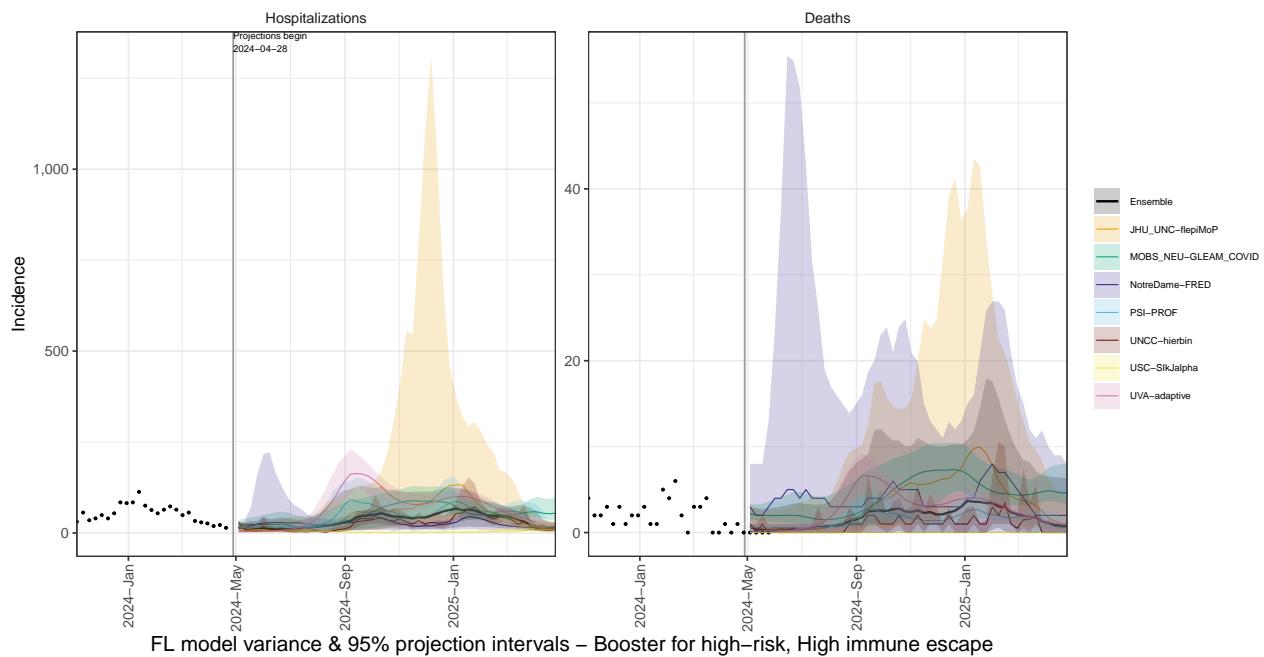
CO model variance & 95% projection intervals – Booster for high-risk, High immune escape



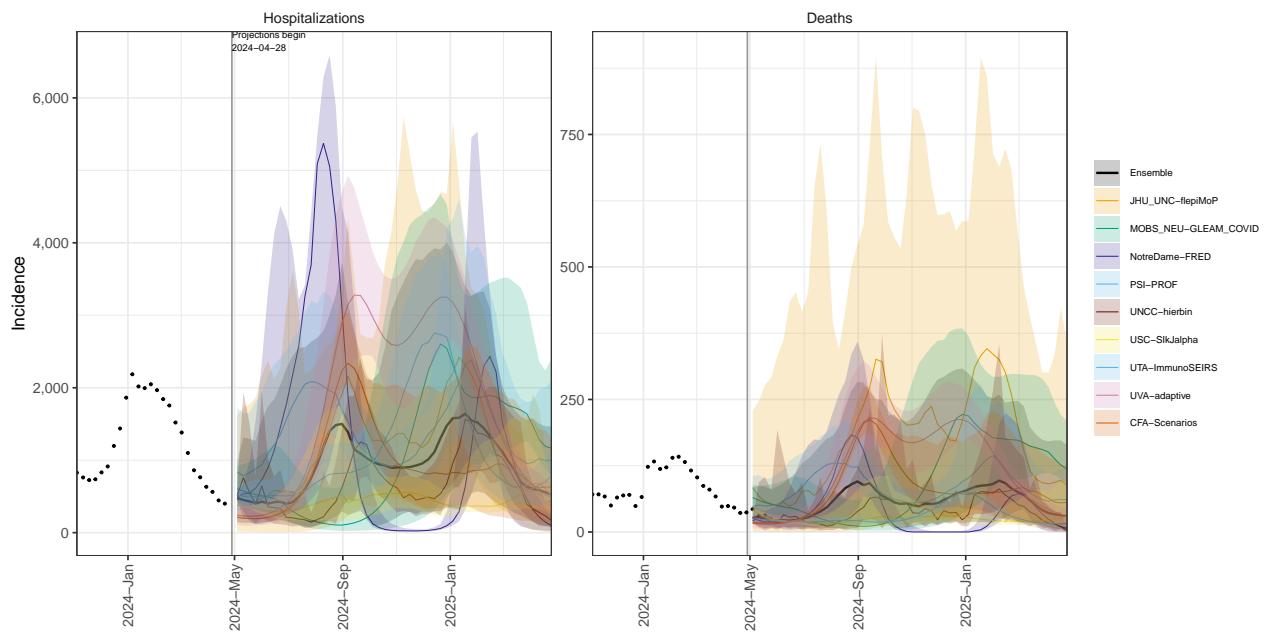
CT model variance & 95% projection intervals – Booster for high-risk, High immune escape



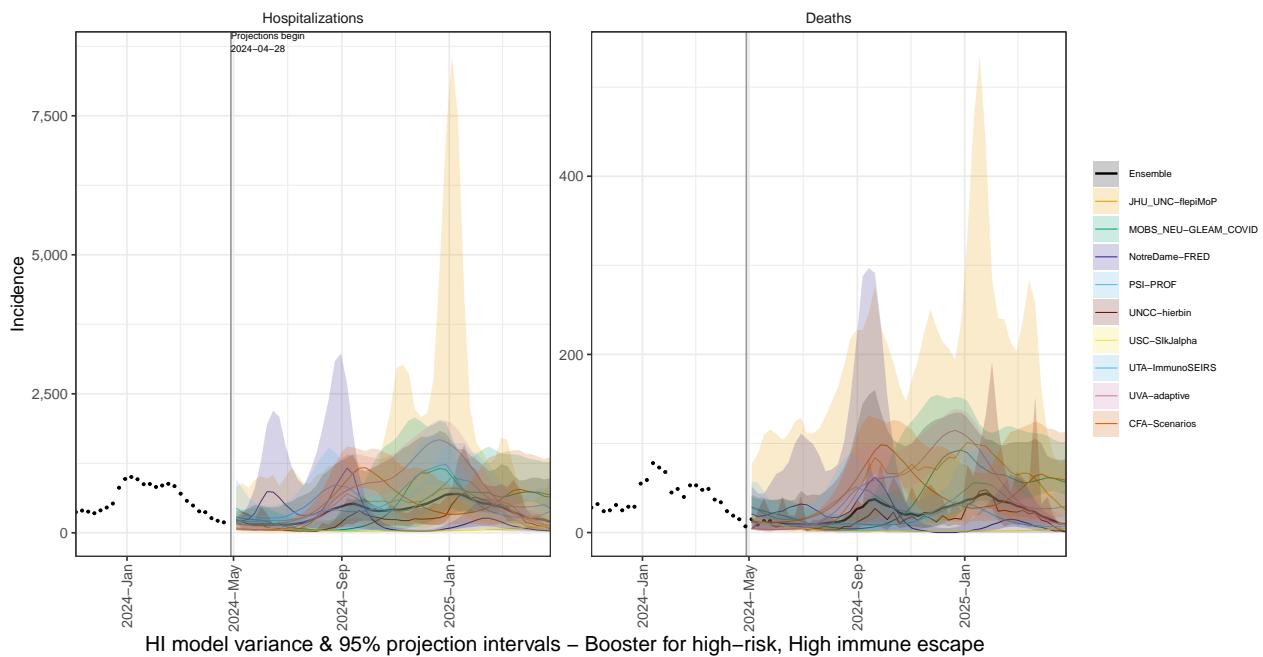
DC model variance & 95% projection intervals – Booster for high-risk, High immune escape



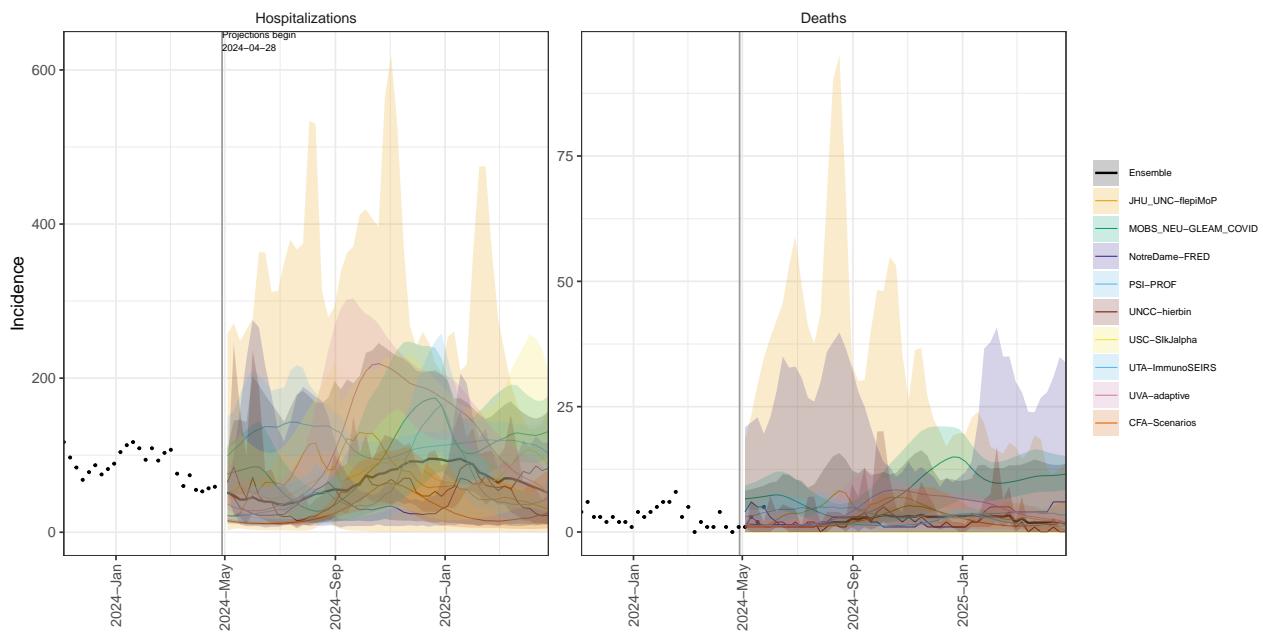
FL model variance & 95% projection intervals – Booster for high-risk, High immune escape



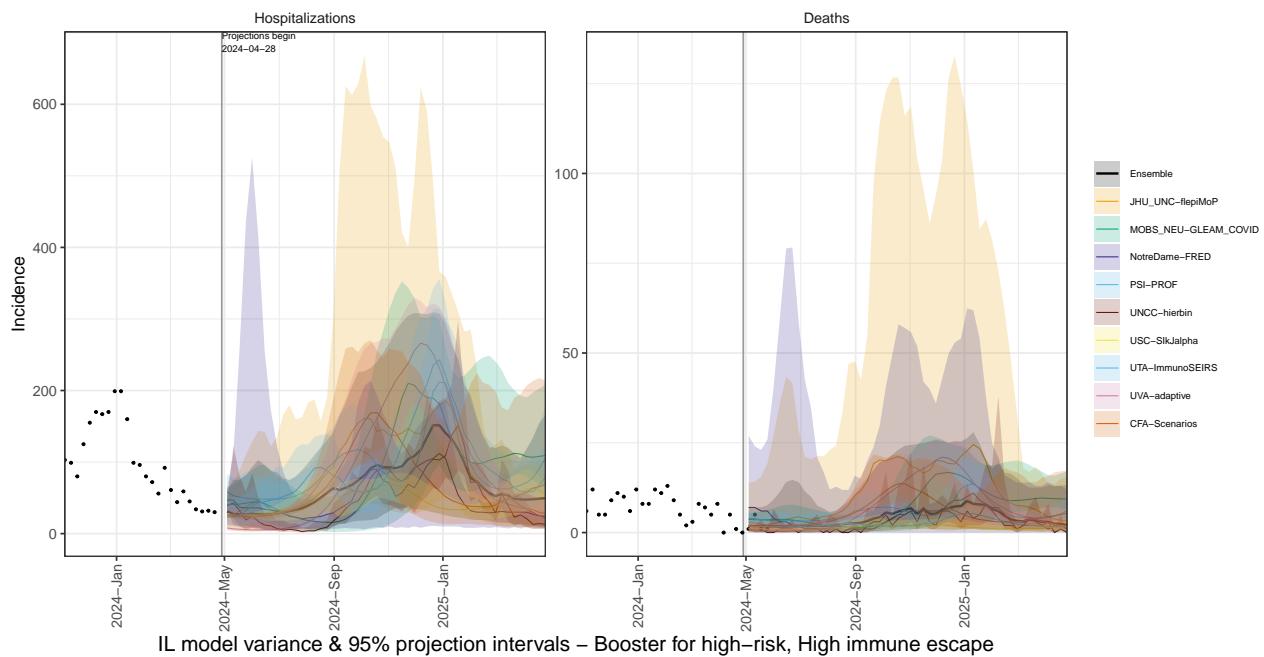
GA model variance & 95% projection intervals – Booster for high-risk, High immune escape



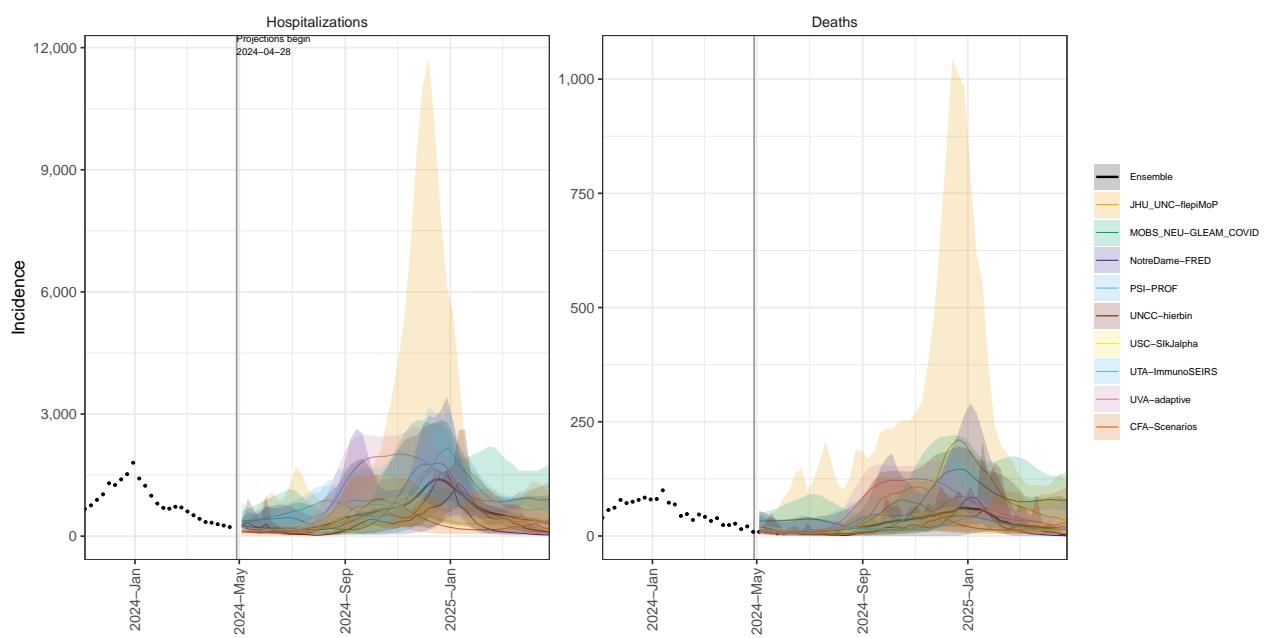
HI model variance & 95% projection intervals – Booster for high-risk, High immune escape



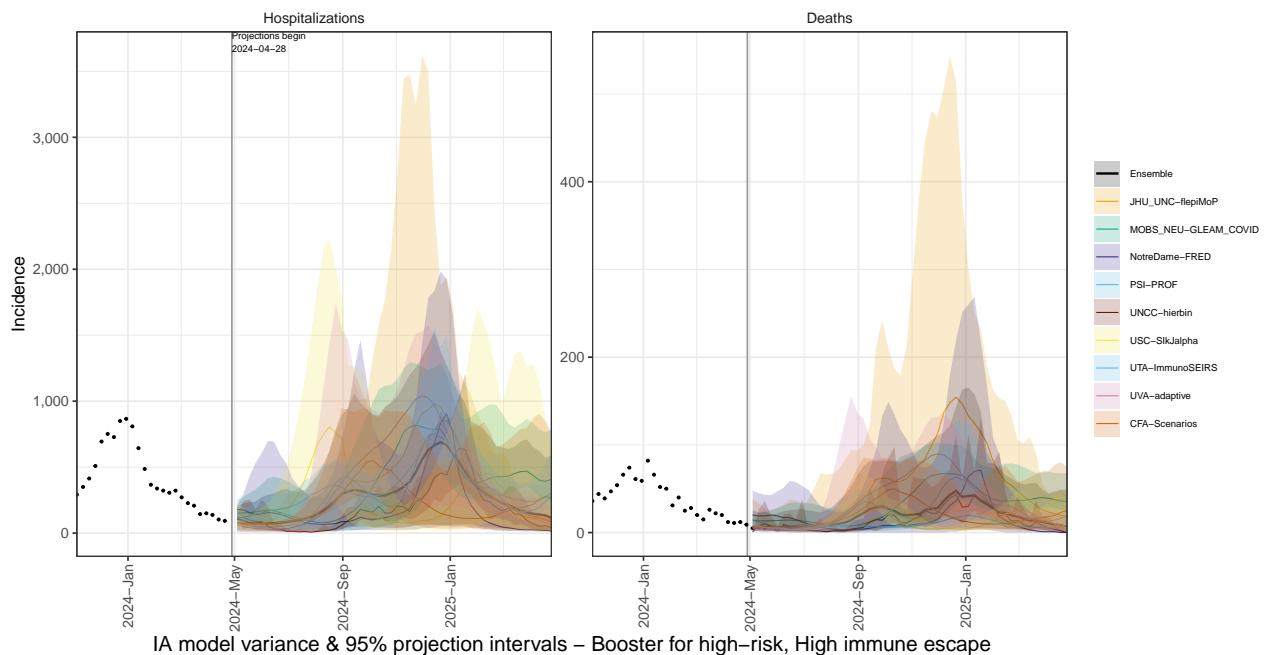
ID model variance & 95% projection intervals – Booster for high-risk, High immune escape



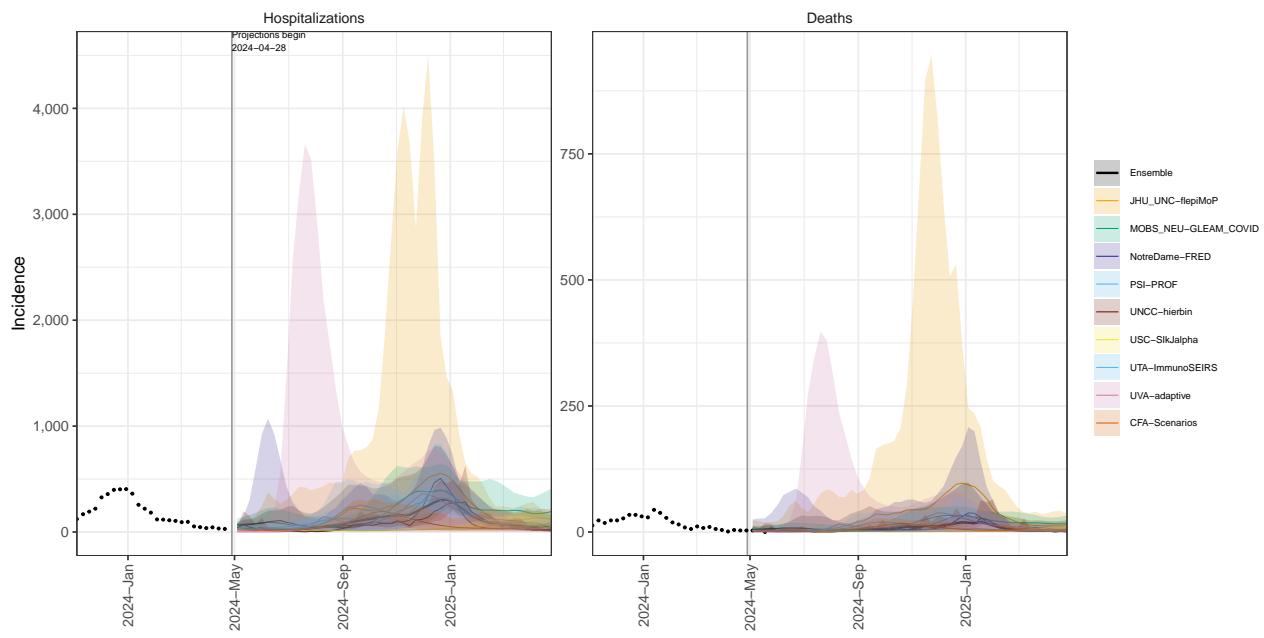
IL model variance & 95% projection intervals – Booster for high-risk, High immune escape



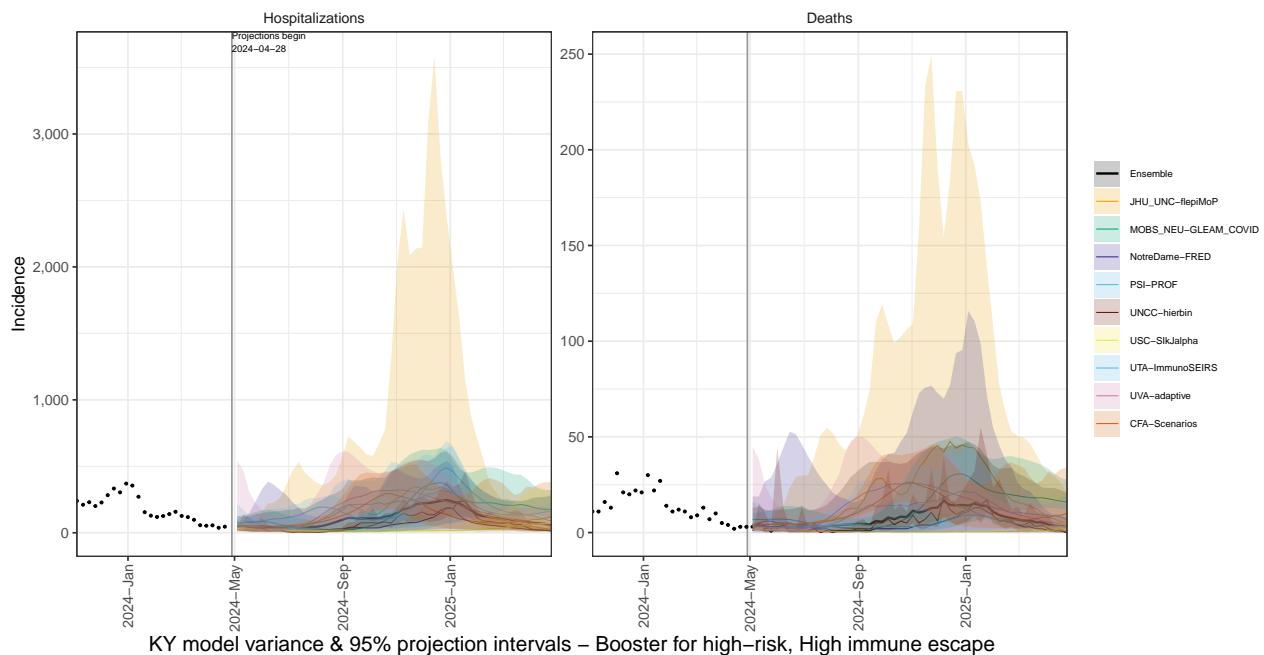
IN model variance & 95% projection intervals – Booster for high-risk, High immune escape



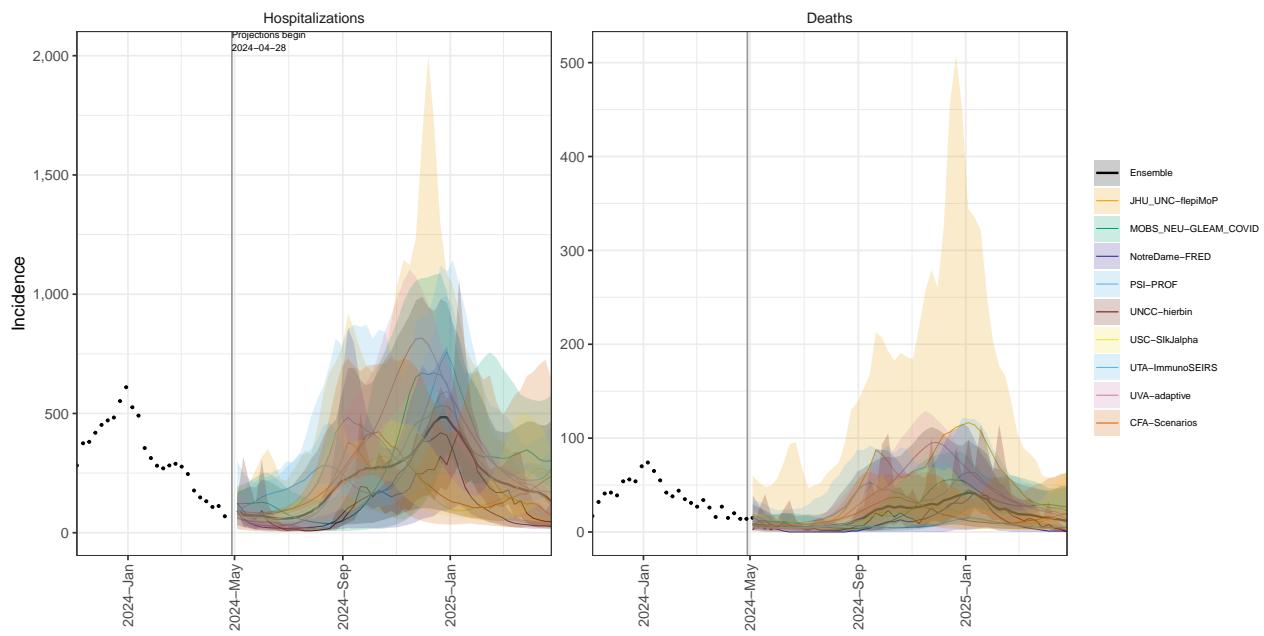
IA model variance & 95% projection intervals – Booster for high-risk, High immune escape



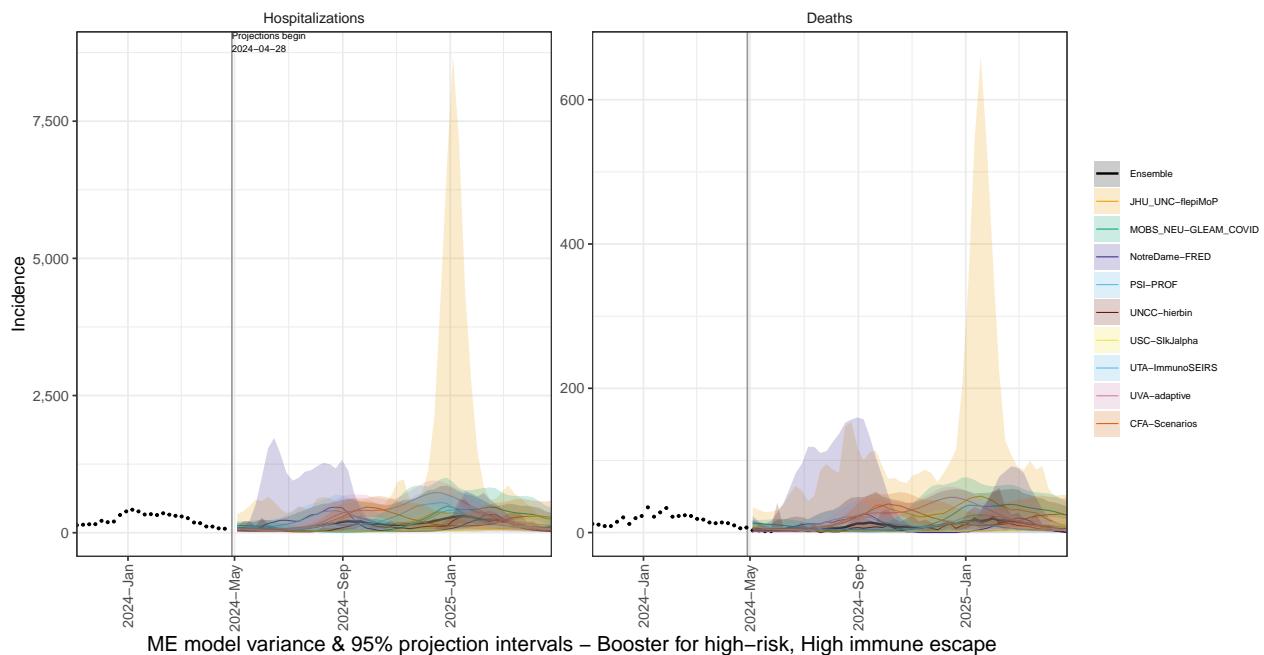
KS model variance & 95% projection intervals – Booster for high-risk, High immune escape



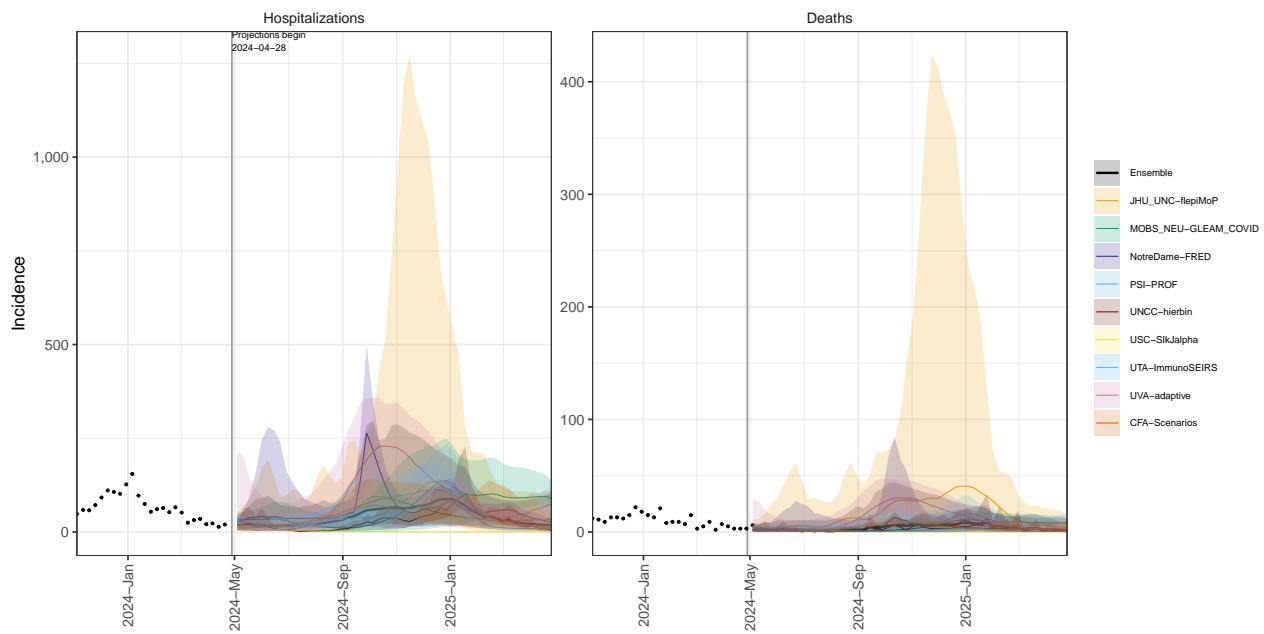
KY model variance & 95% projection intervals – Booster for high-risk, High immune escape



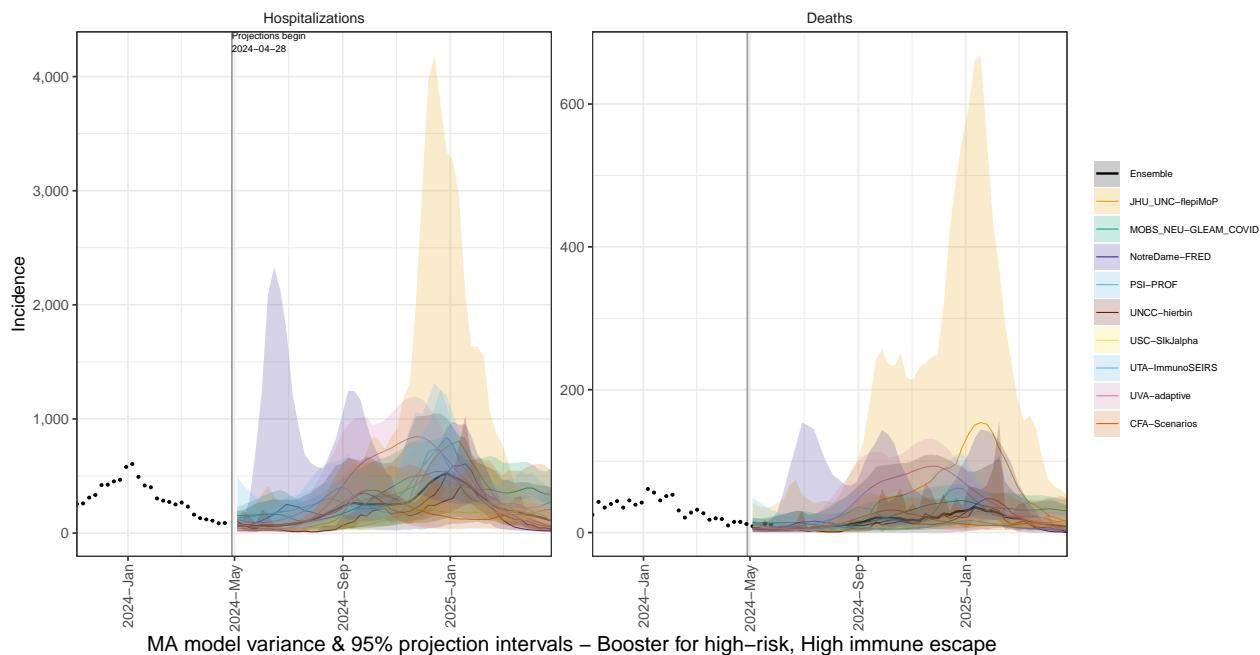
LA model variance & 95% projection intervals – Booster for high-risk, High immune escape



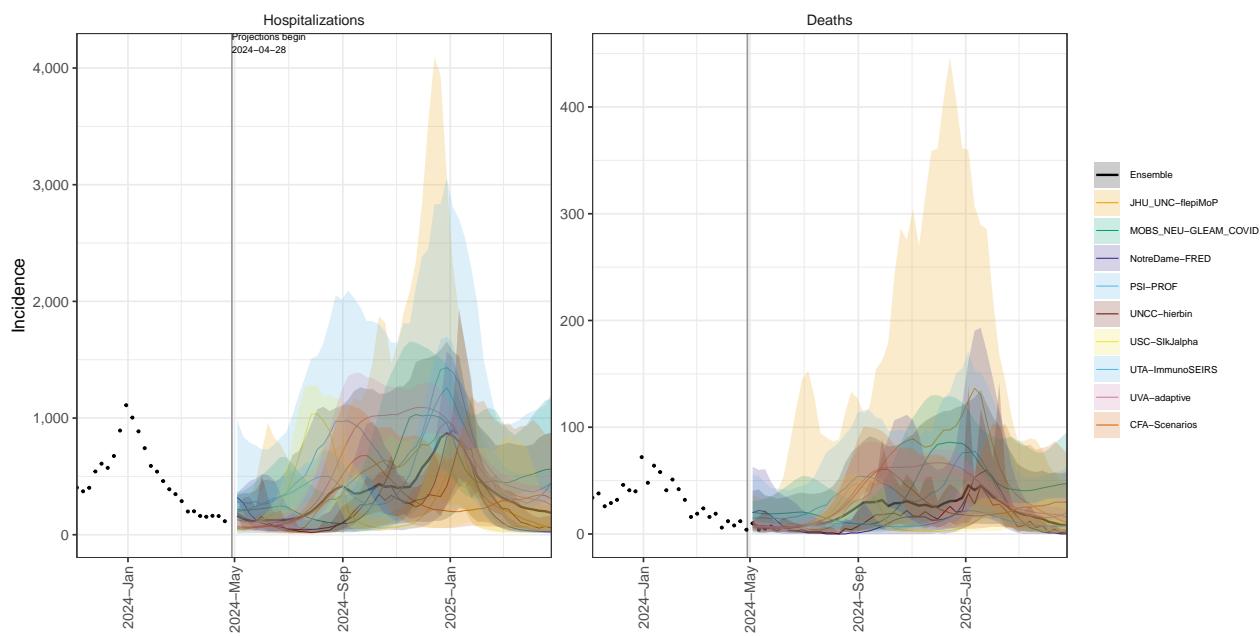
ME model variance & 95% projection intervals – Booster for high-risk, High immune escape



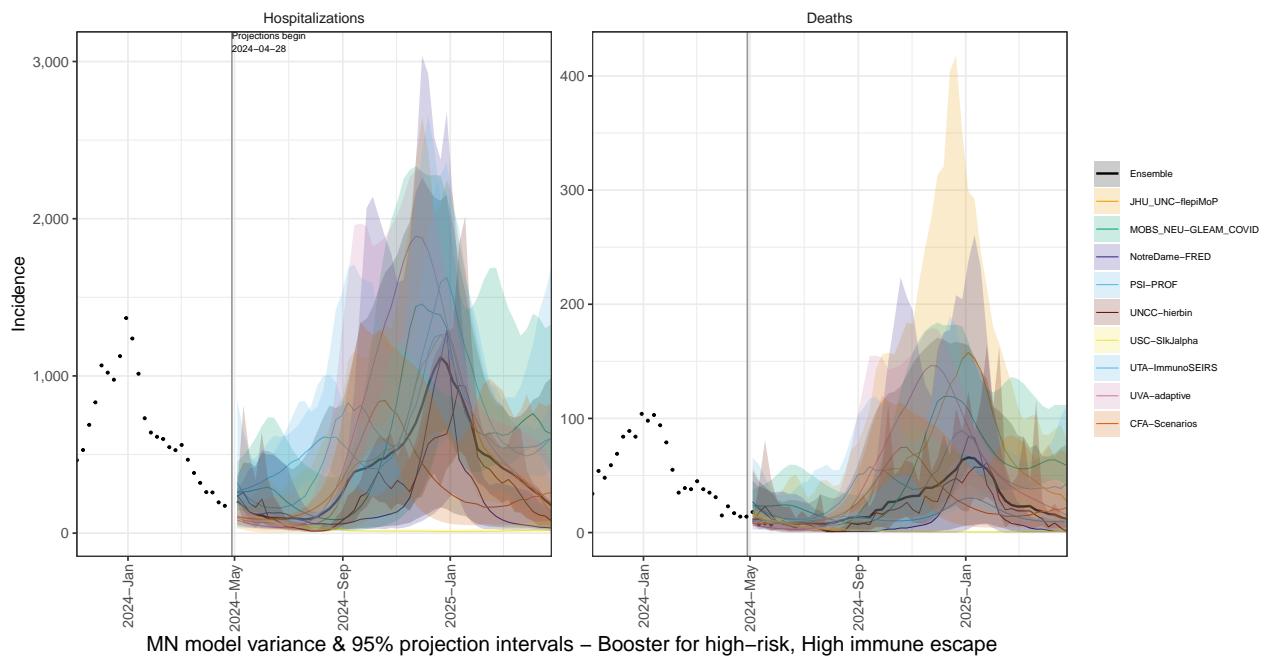
MD model variance & 95% projection intervals – Booster for high-risk, High immune escape



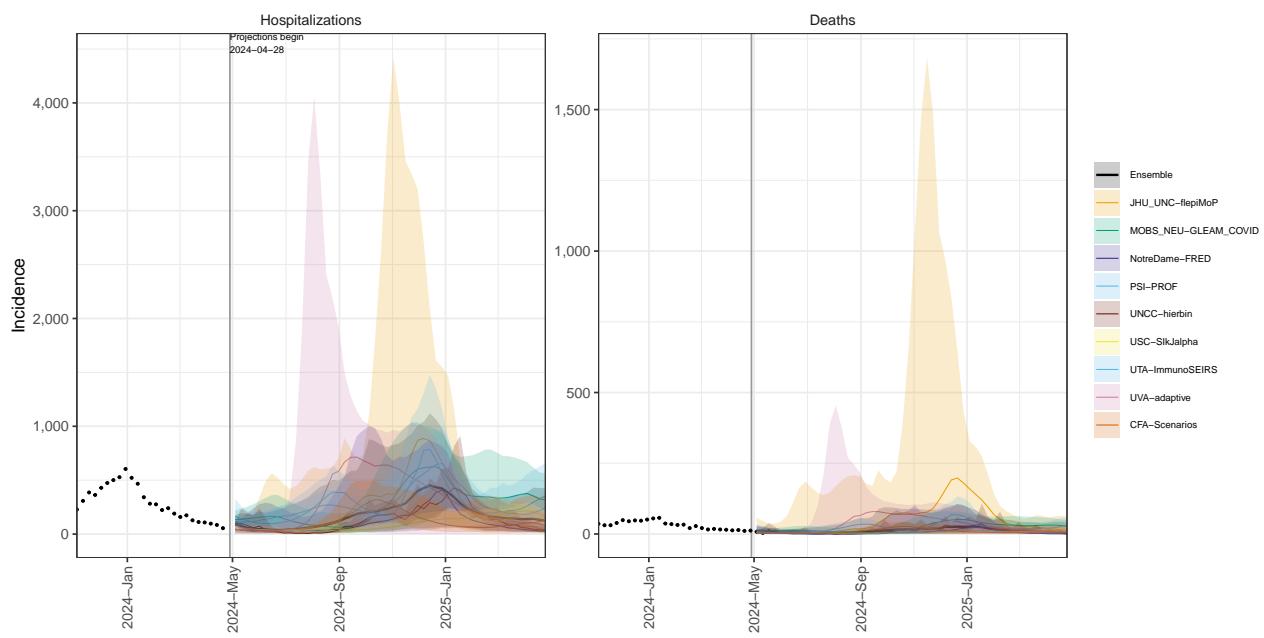
MA model variance & 95% projection intervals – Booster for high-risk, High immune escape



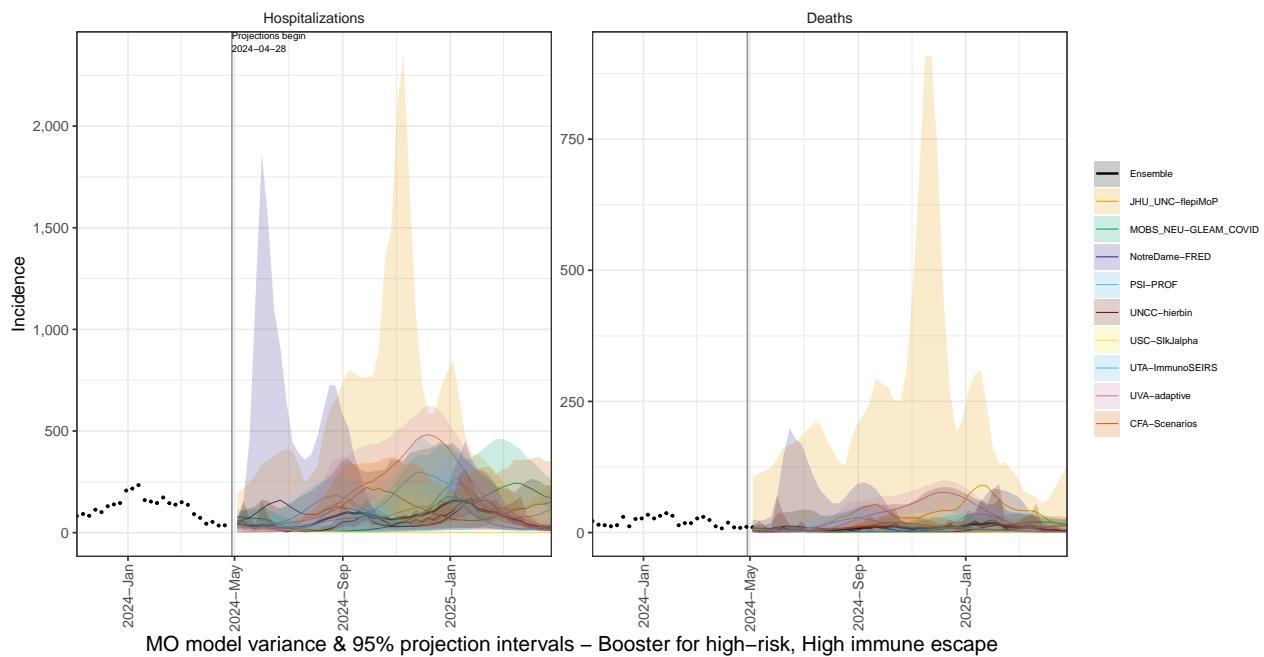
MI model variance & 95% projection intervals – Booster for high-risk, High immune escape



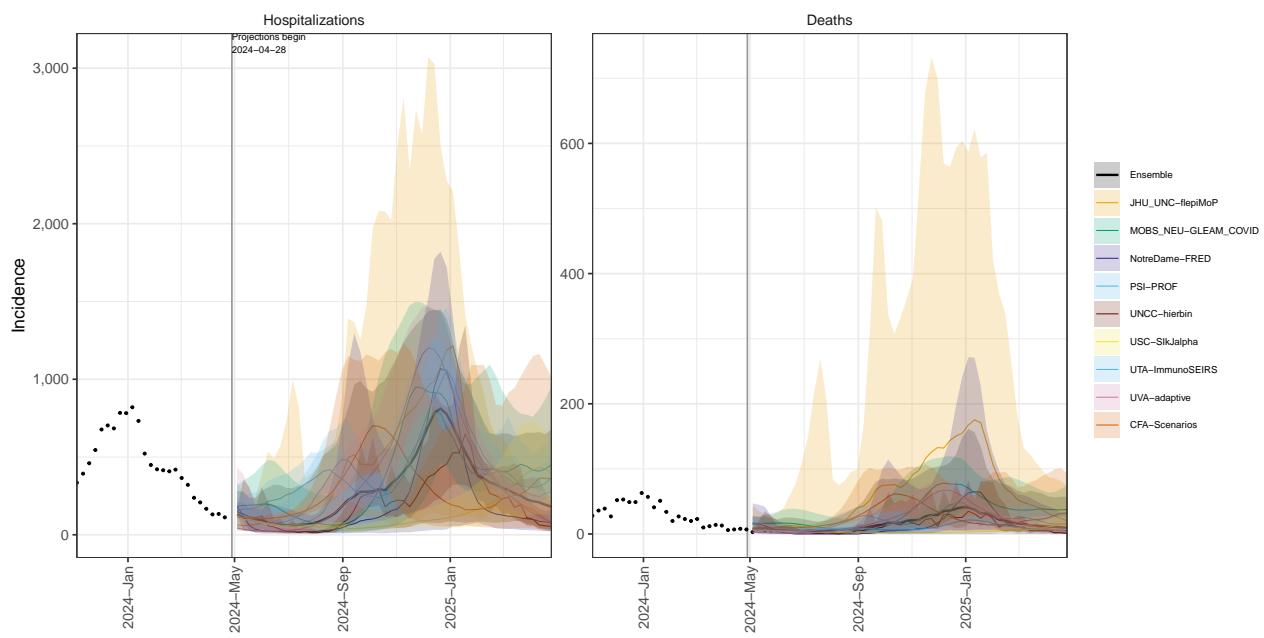
MN model variance & 95% projection intervals – Booster for high-risk, High immune escape



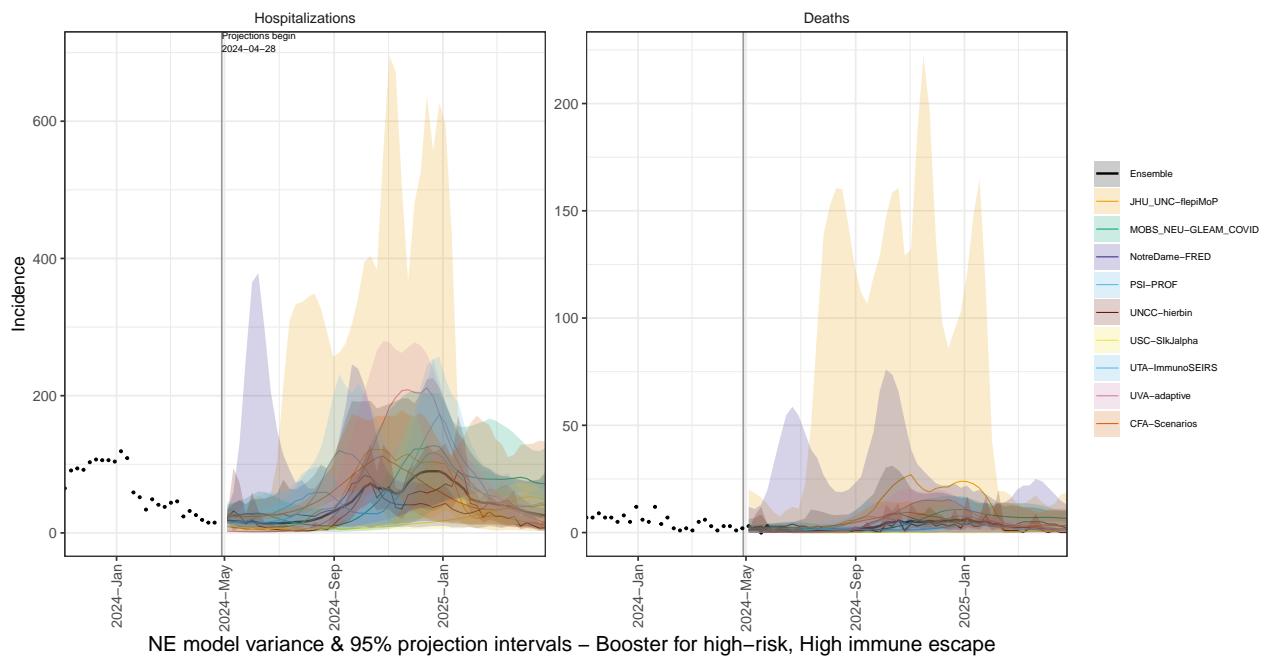
MS model variance & 95% projection intervals – Booster for high-risk, High immune escape



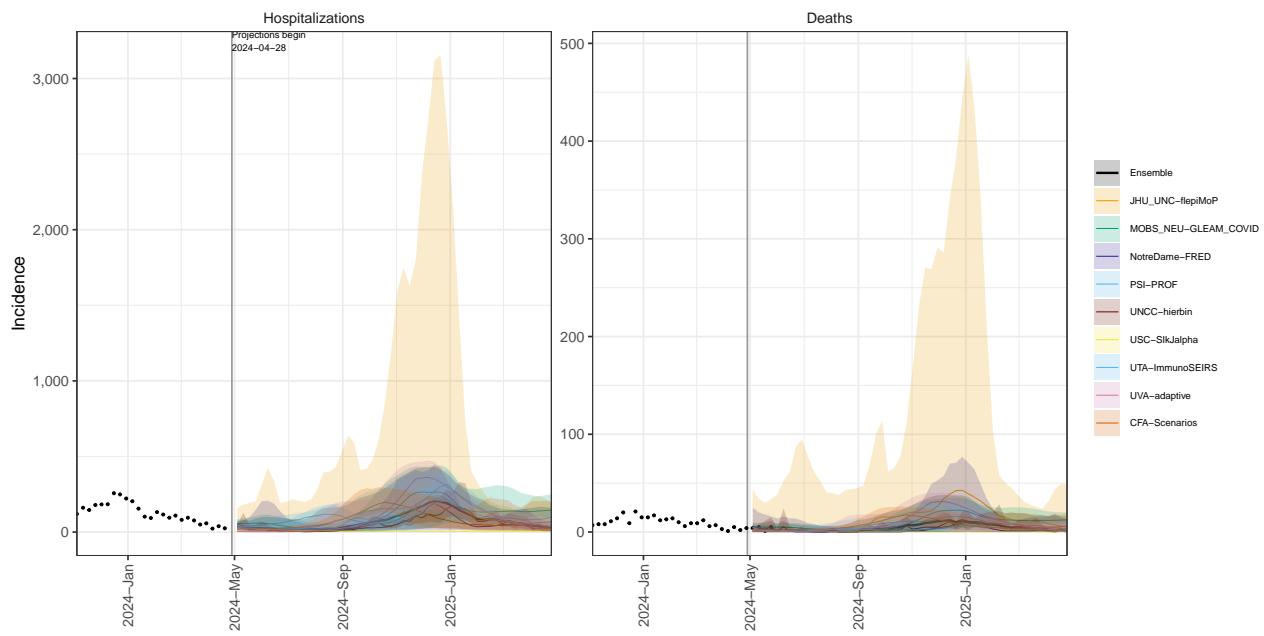
MO model variance & 95% projection intervals – Booster for high-risk, High immune escape



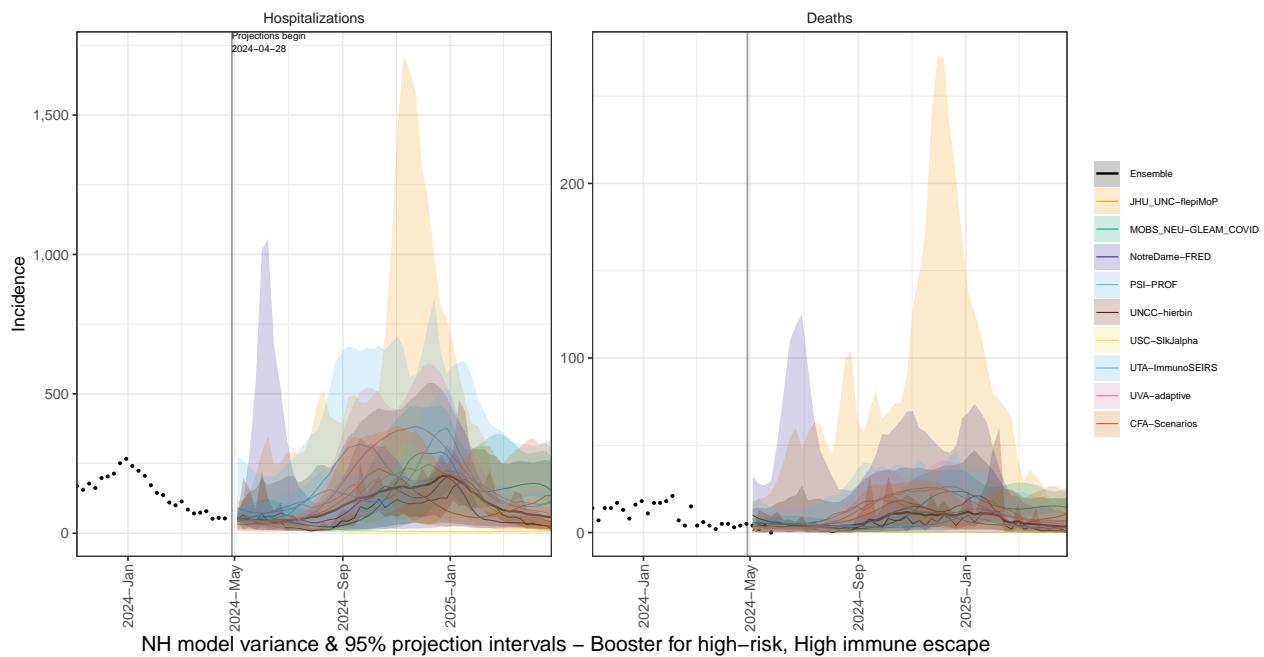
MT model variance & 95% projection intervals – Booster for high-risk, High immune escape



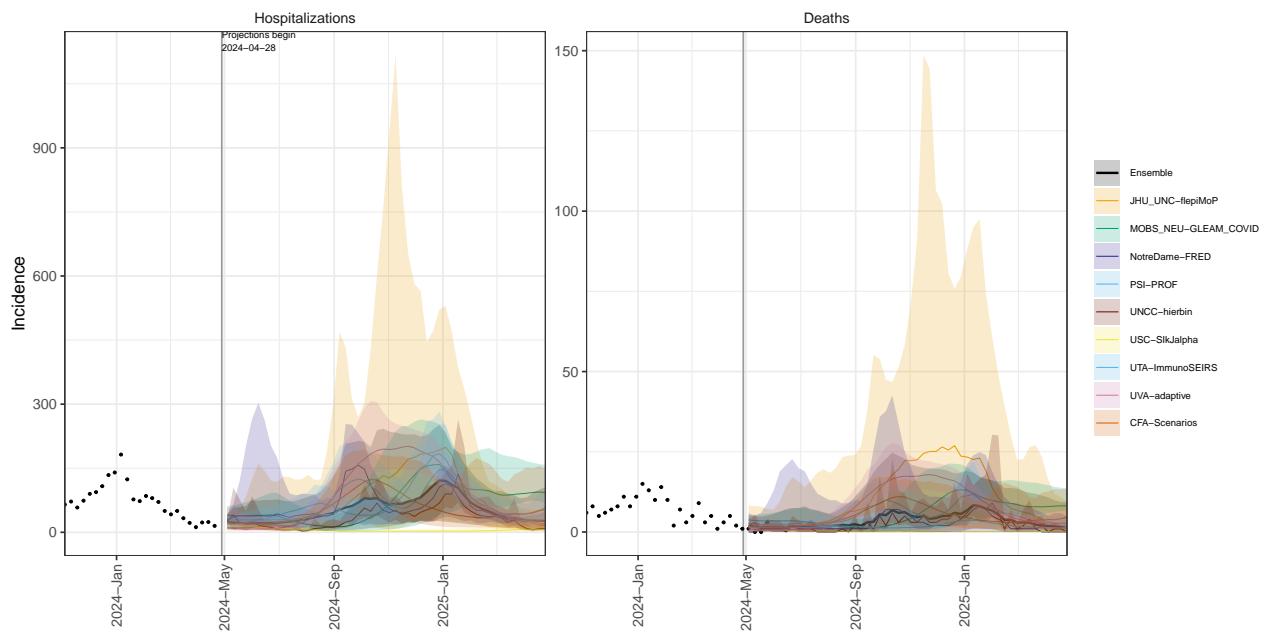
NE model variance & 95% projection intervals – Booster for high-risk, High immune escape



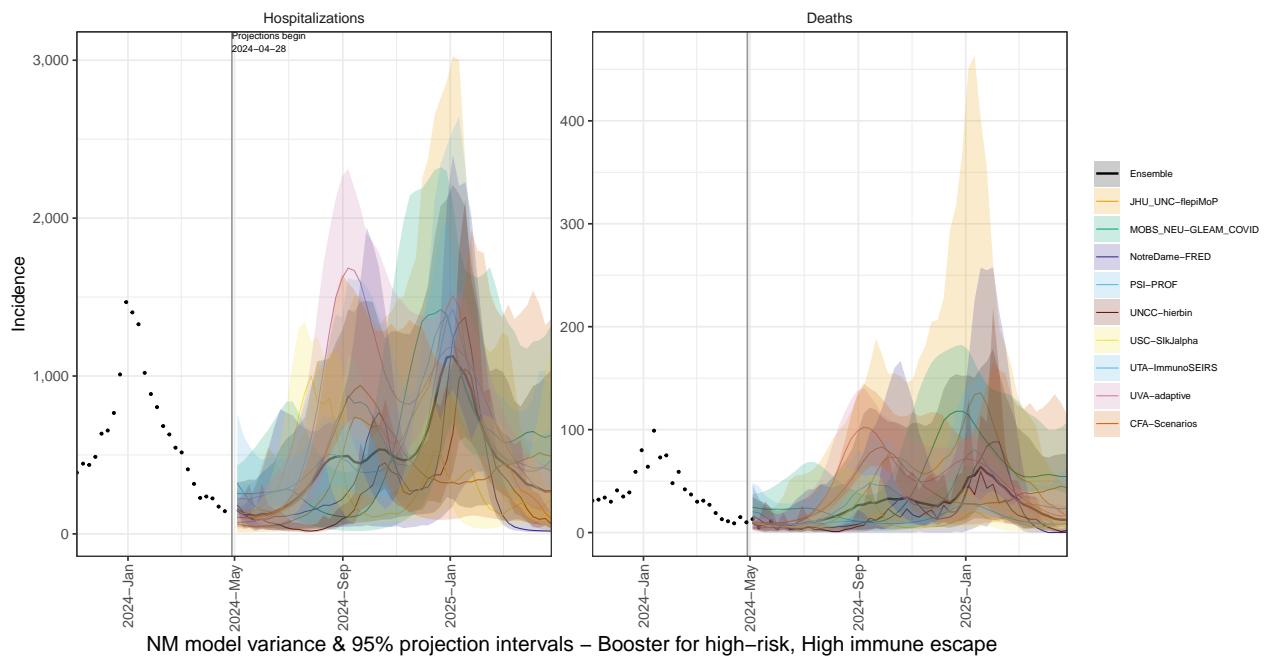
NV model variance & 95% projection intervals – Booster for high-risk, High immune escape



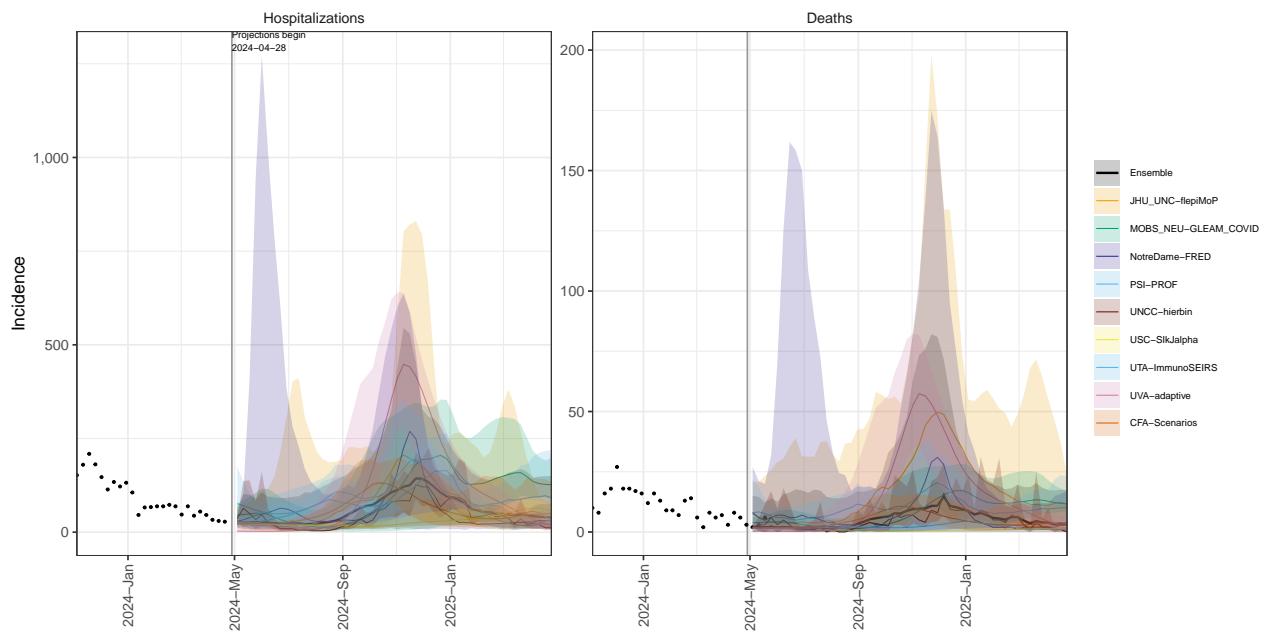
NH model variance & 95% projection intervals – Booster for high-risk, High immune escape



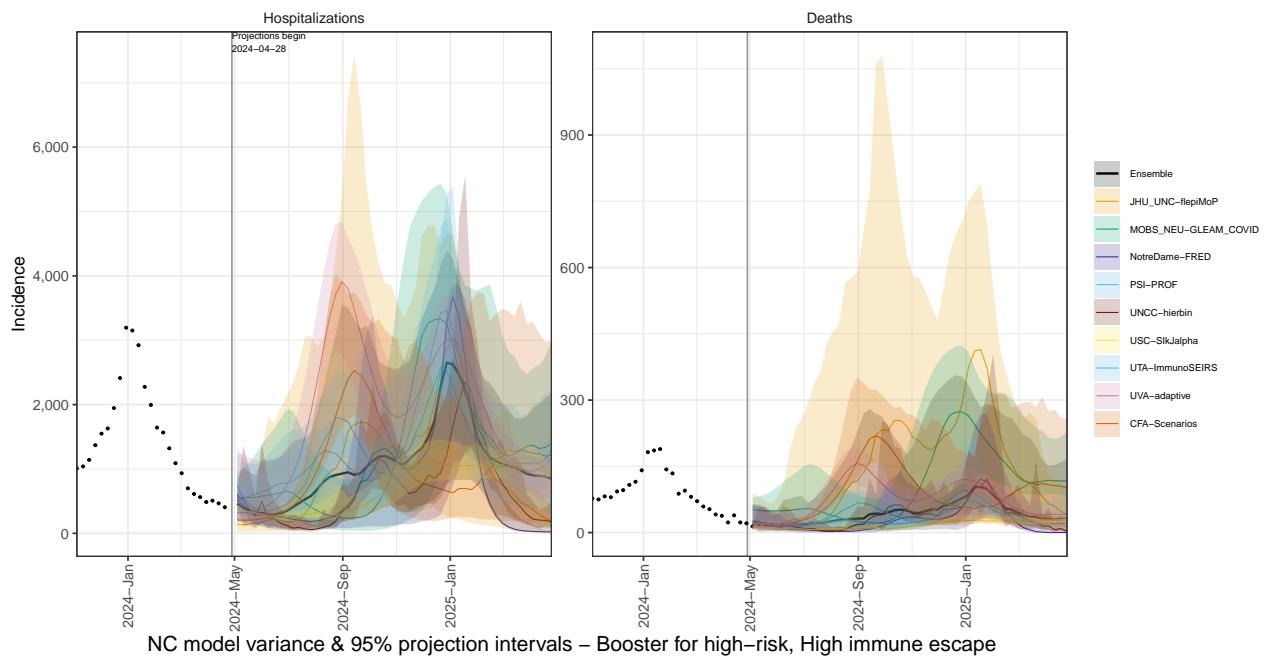
NJ model variance & 95% projection intervals – Booster for high-risk, High immune escape



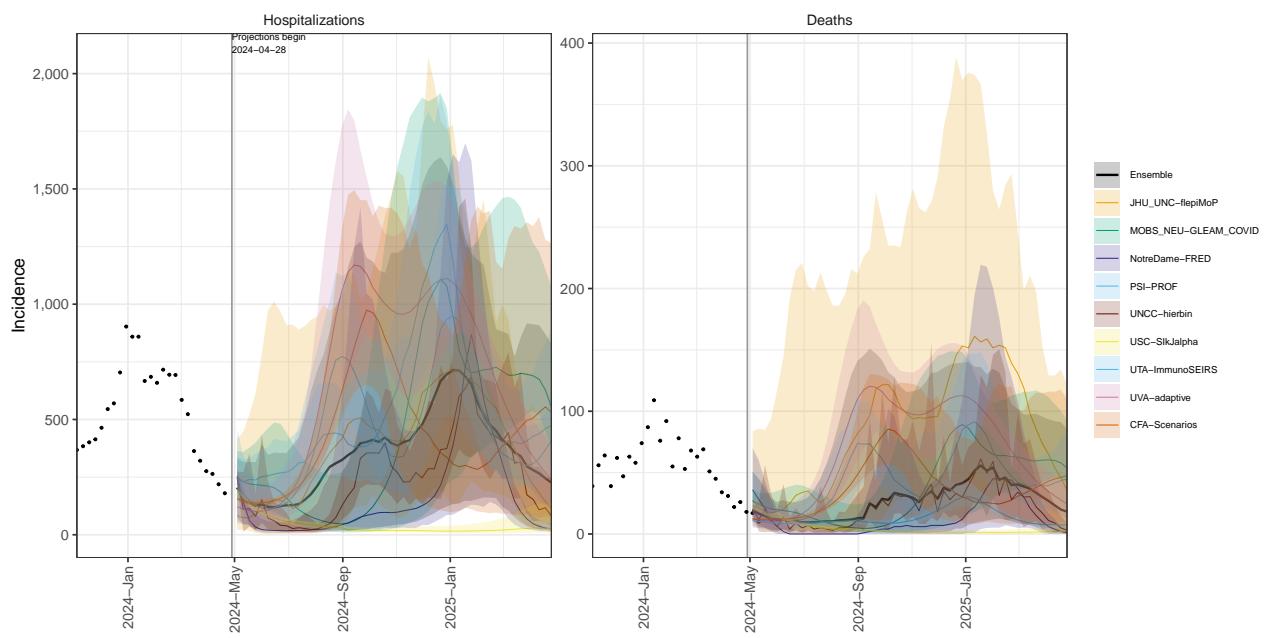
NM model variance & 95% projection intervals – Booster for high-risk, High immune escape



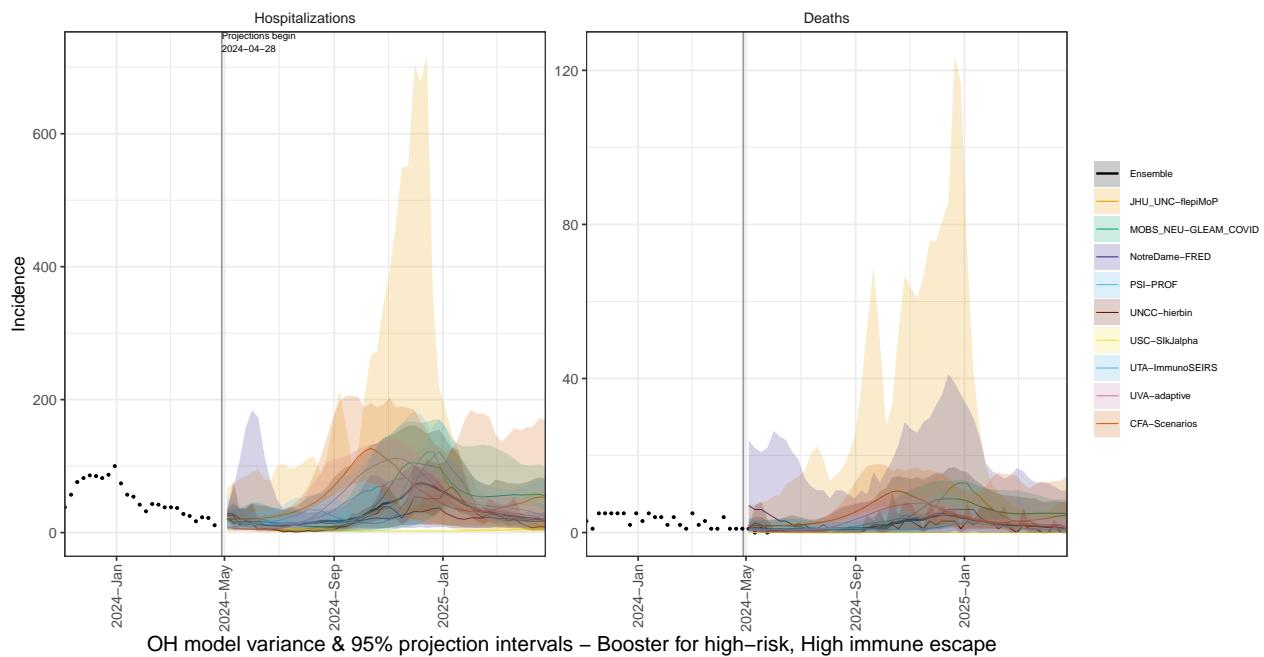
NY model variance & 95% projection intervals – Booster for high-risk, High immune escape



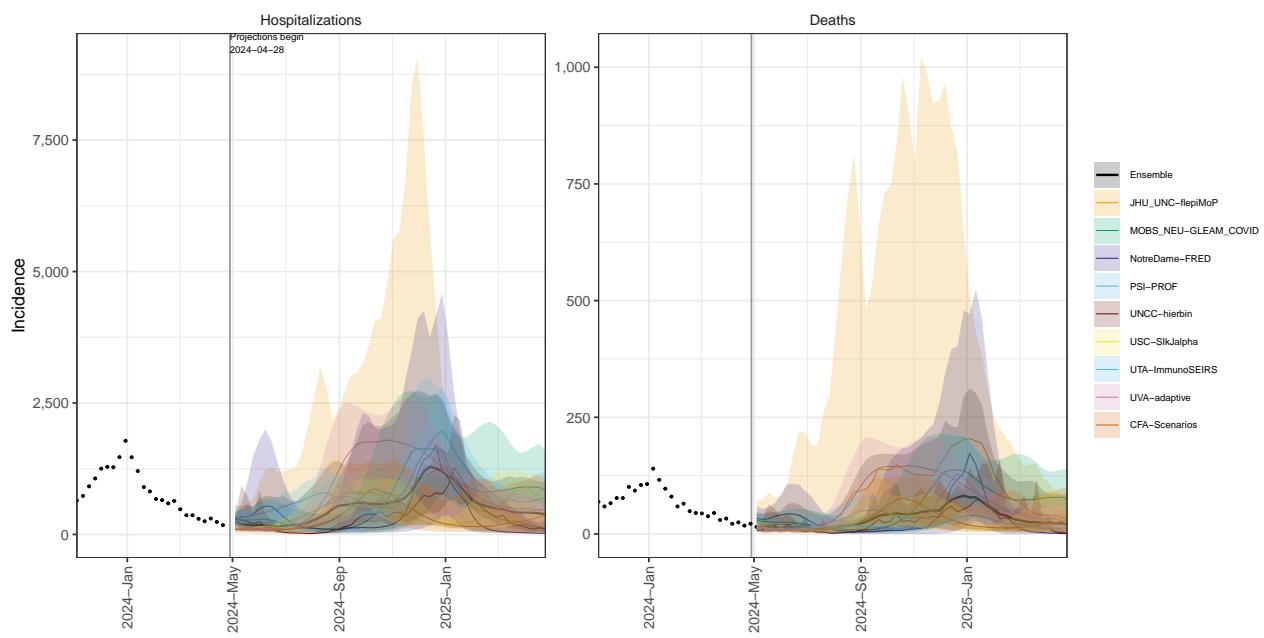
NC model variance & 95% projection intervals – Booster for high-risk, High immune escape



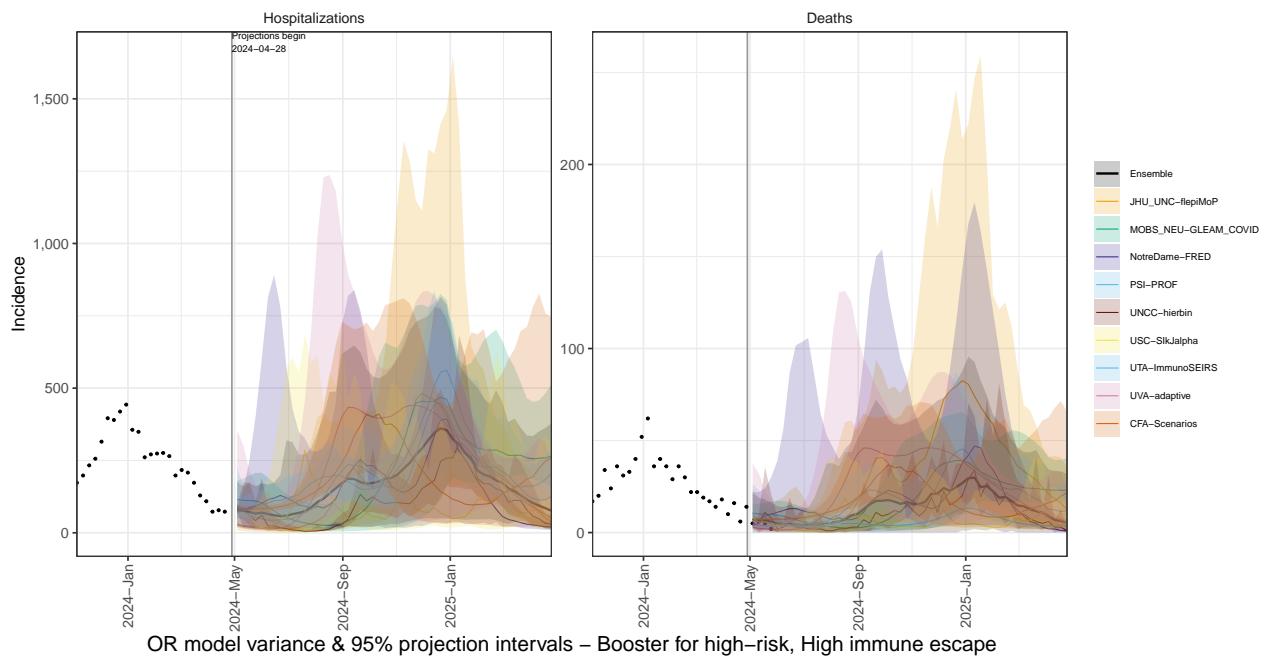
ND model variance & 95% projection intervals – Booster for high-risk, High immune escape



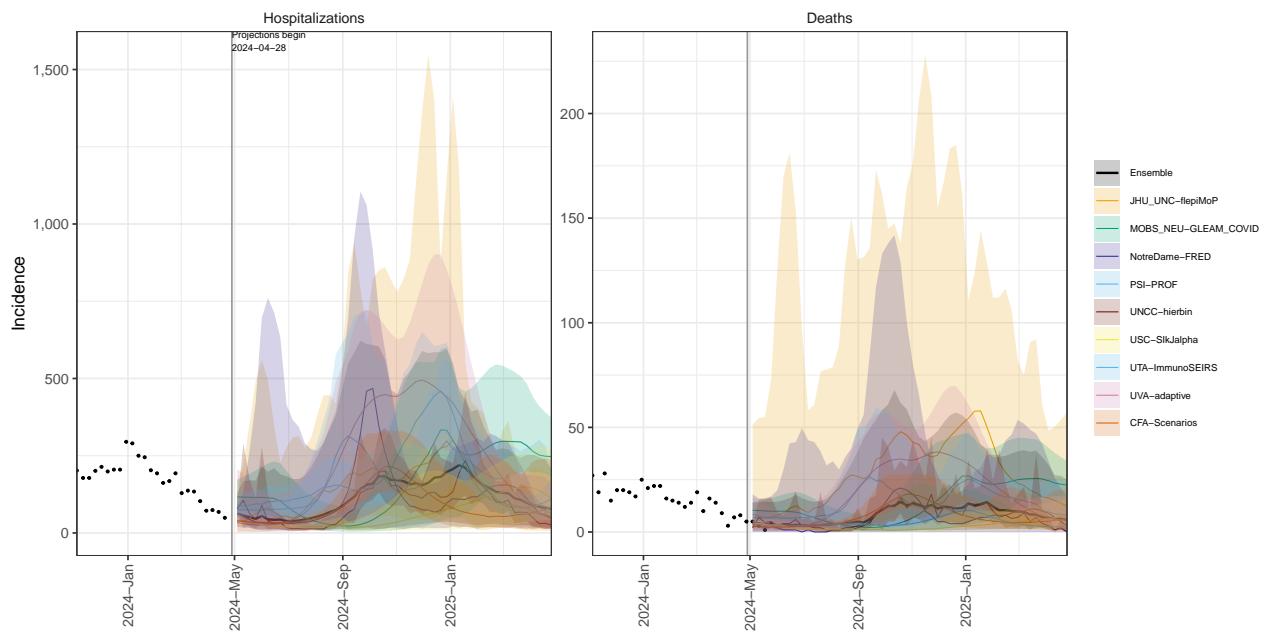
OH model variance & 95% projection intervals – Booster for high-risk, High immune escape



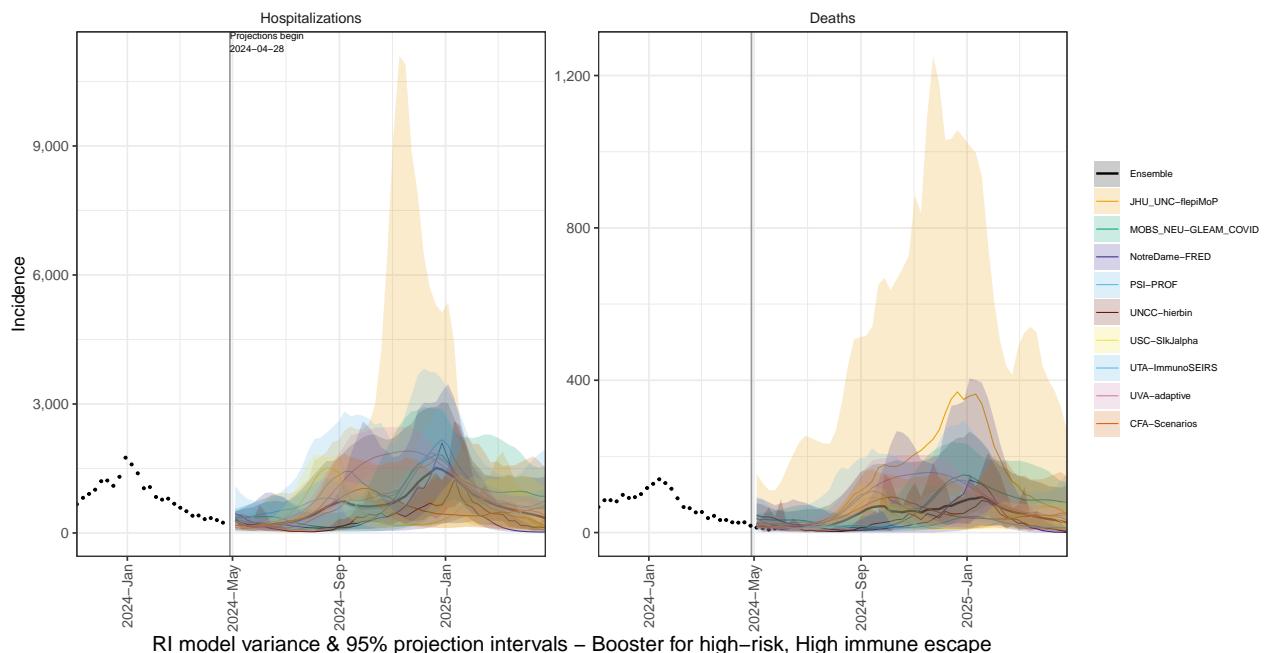
OK model variance & 95% projection intervals – Booster for high-risk, High immune escape



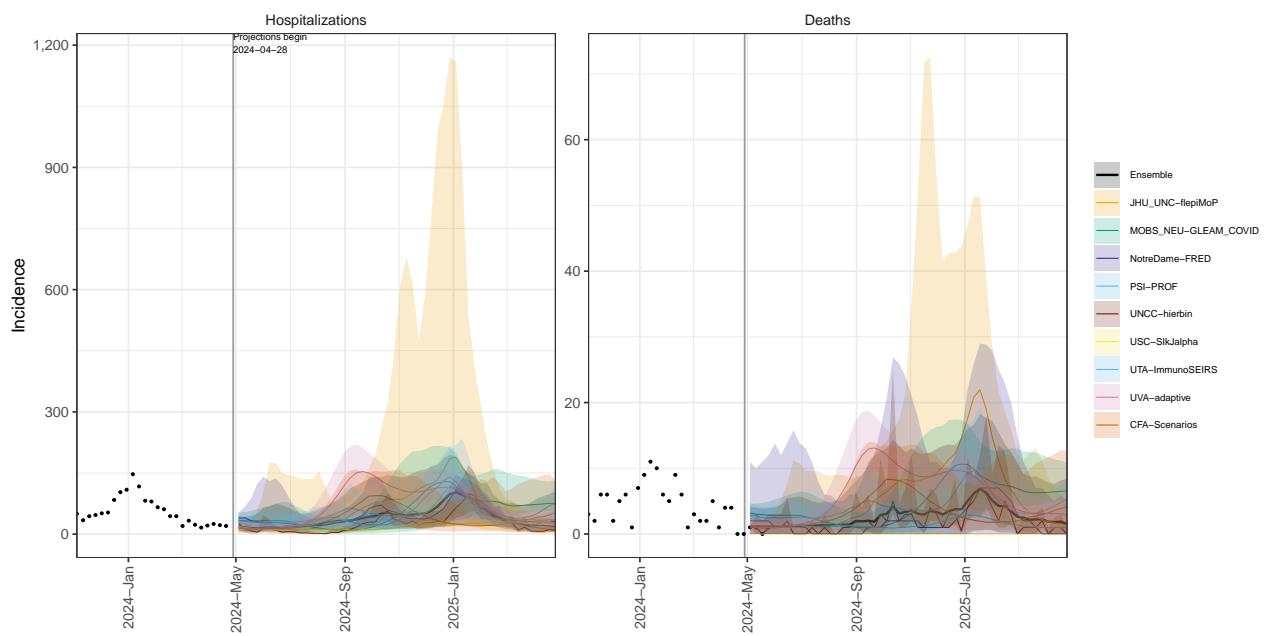
OR model variance & 95% projection intervals – Booster for high-risk, High immune escape



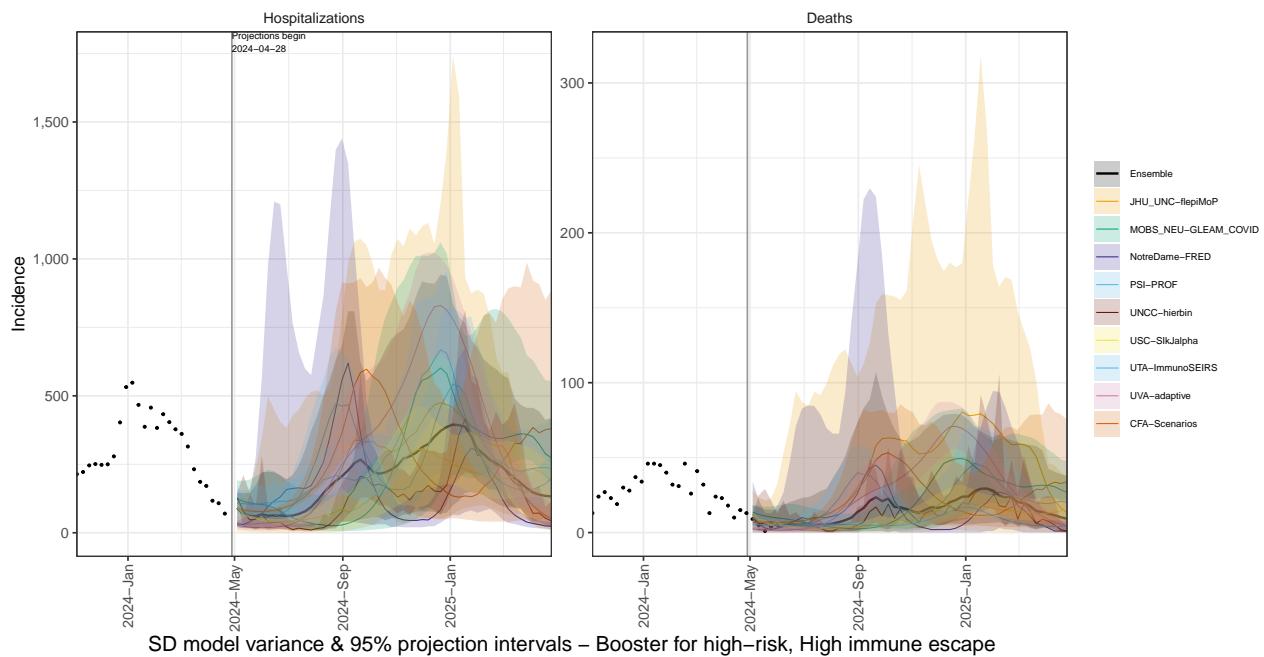
PA model variance & 95% projection intervals – Booster for high-risk, High immune escape



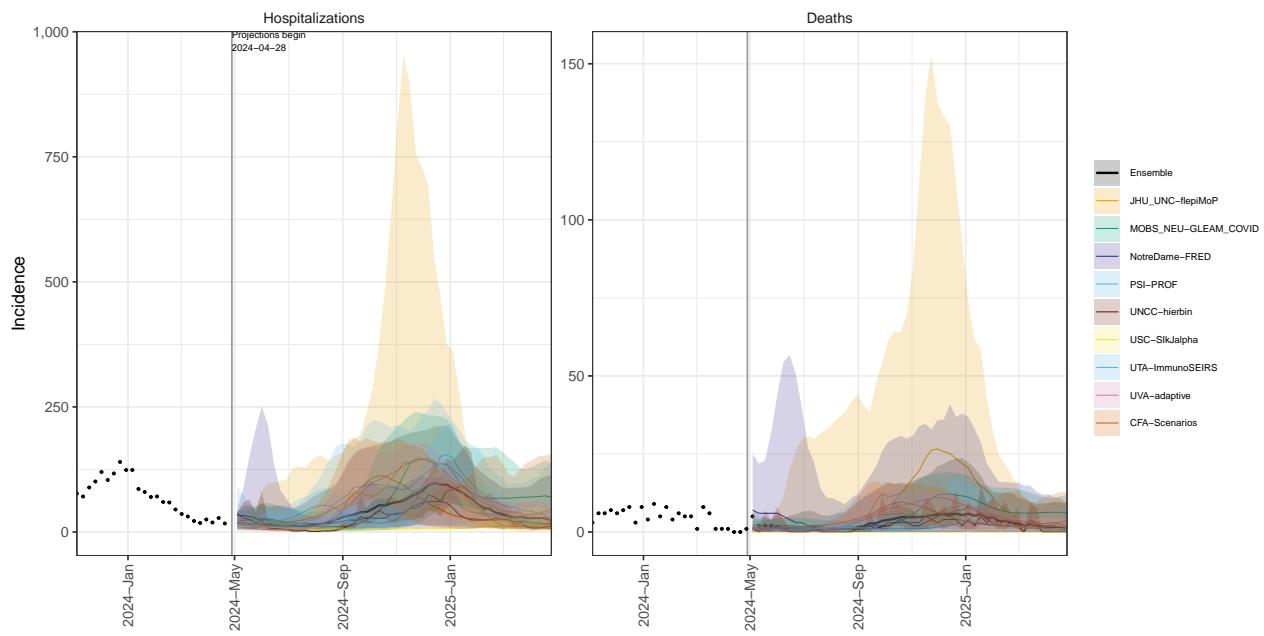
RI model variance & 95% projection intervals – Booster for high-risk, High immune escape



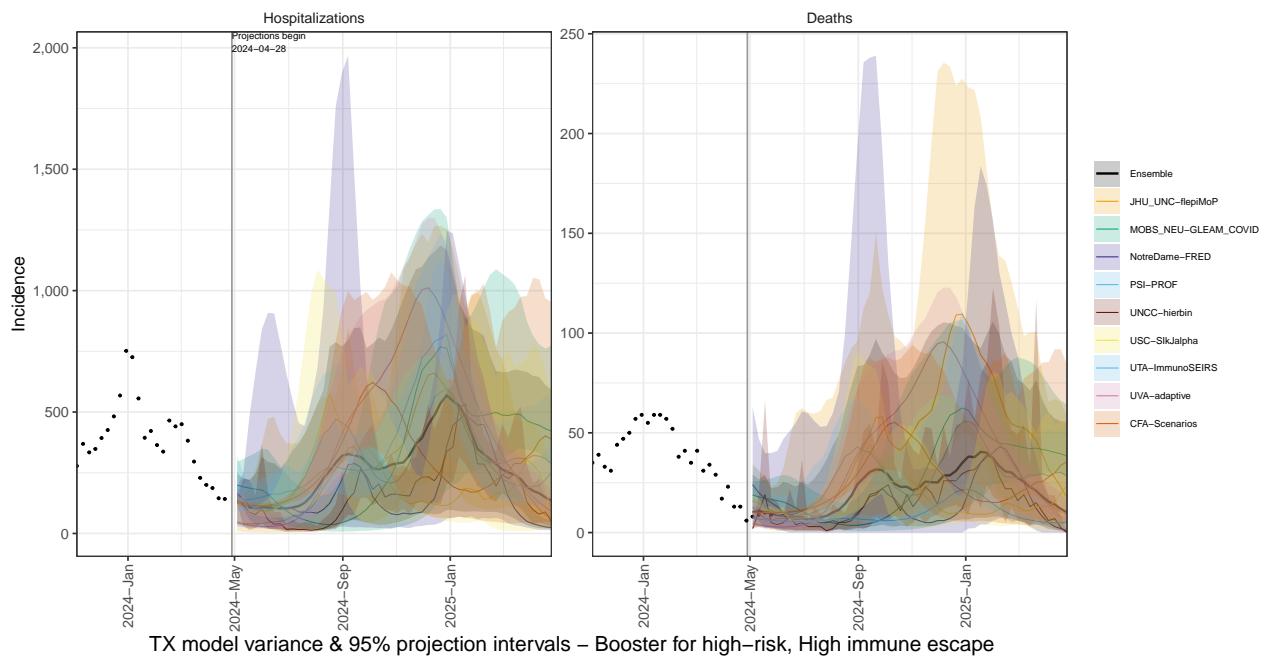
SC model variance & 95% projection intervals – Booster for high-risk, High immune escape



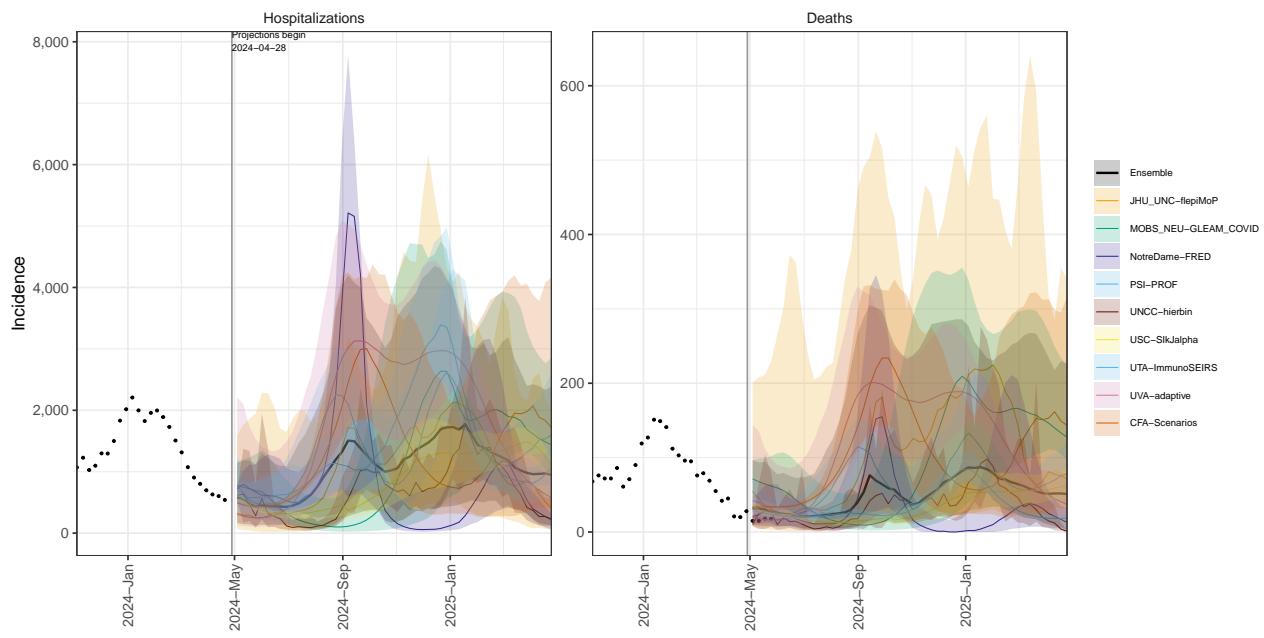
SD model variance & 95% projection intervals – Booster for high-risk, High immune escape



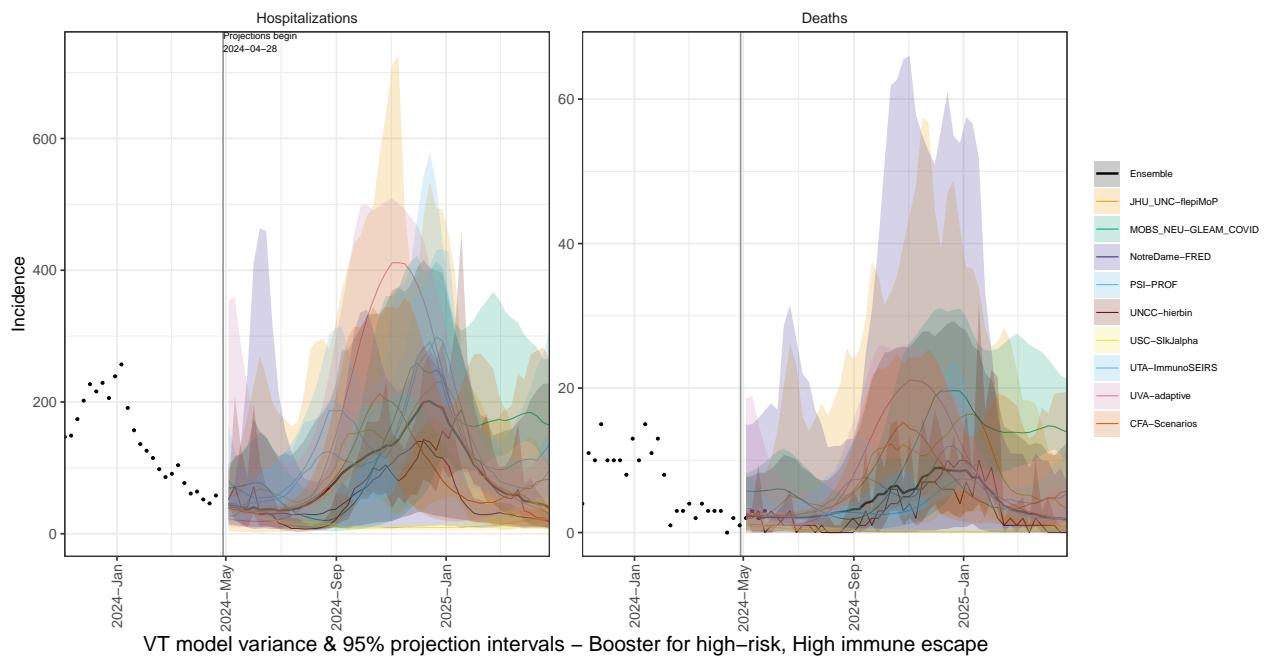
TN model variance & 95% projection intervals – Booster for high-risk, High immune escape



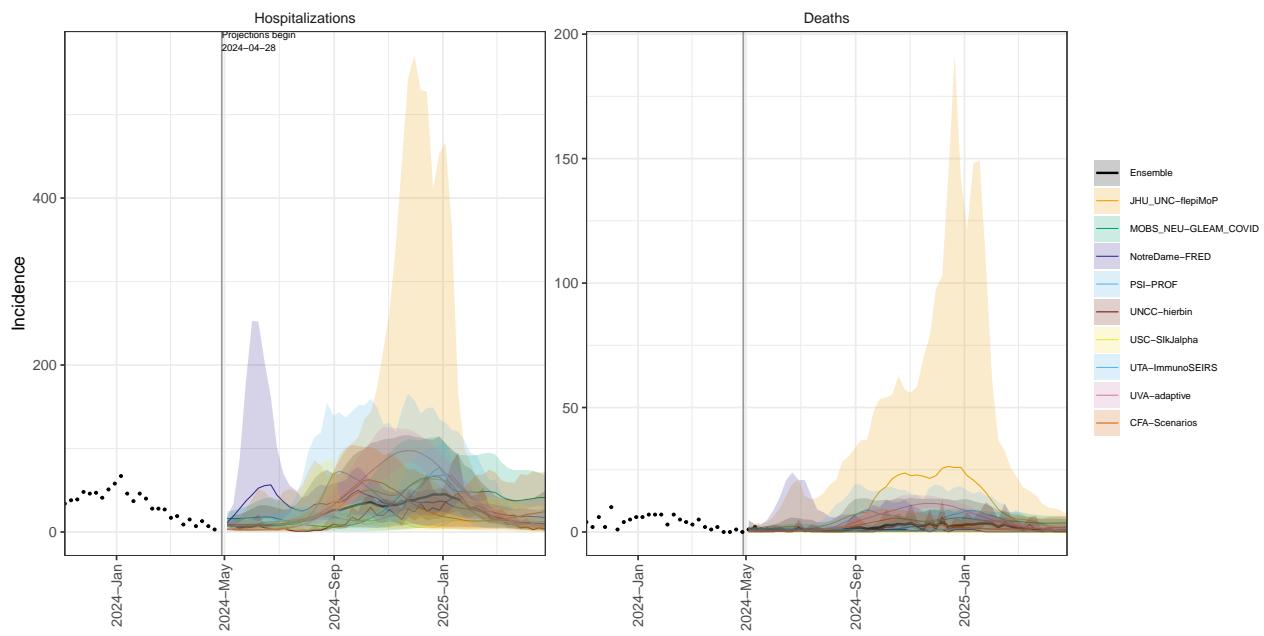
TX model variance & 95% projection intervals – Booster for high-risk, High immune escape



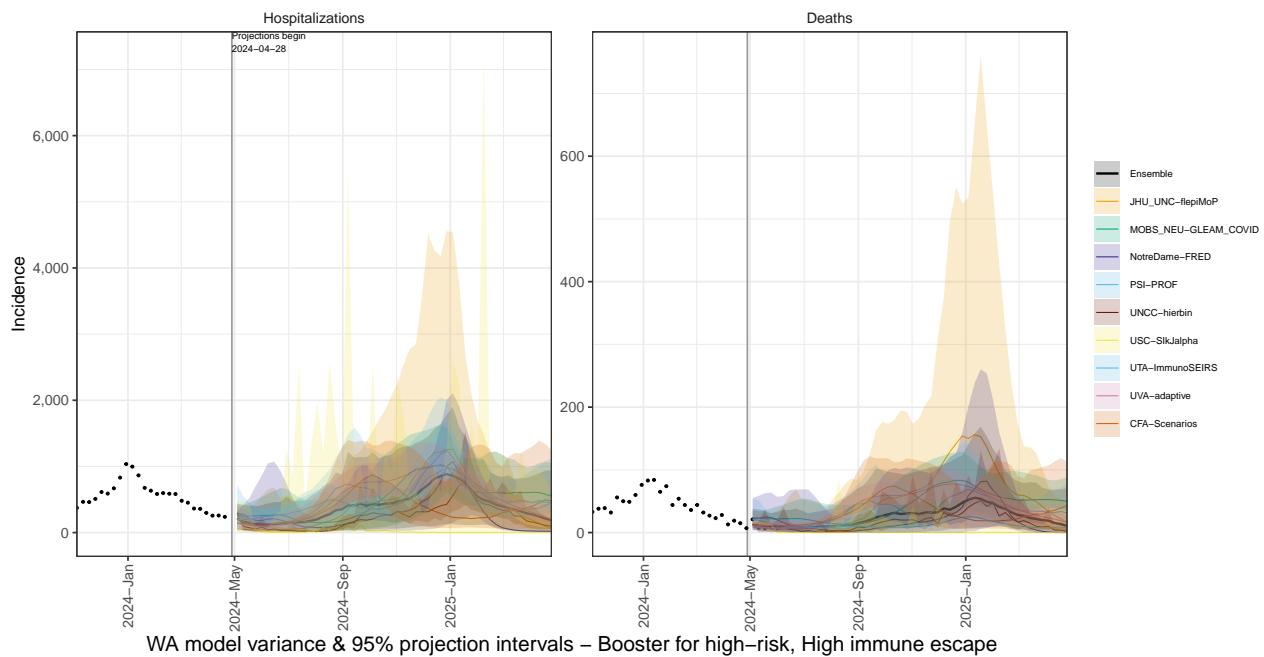
UT model variance & 95% projection intervals – Booster for high-risk, High immune escape



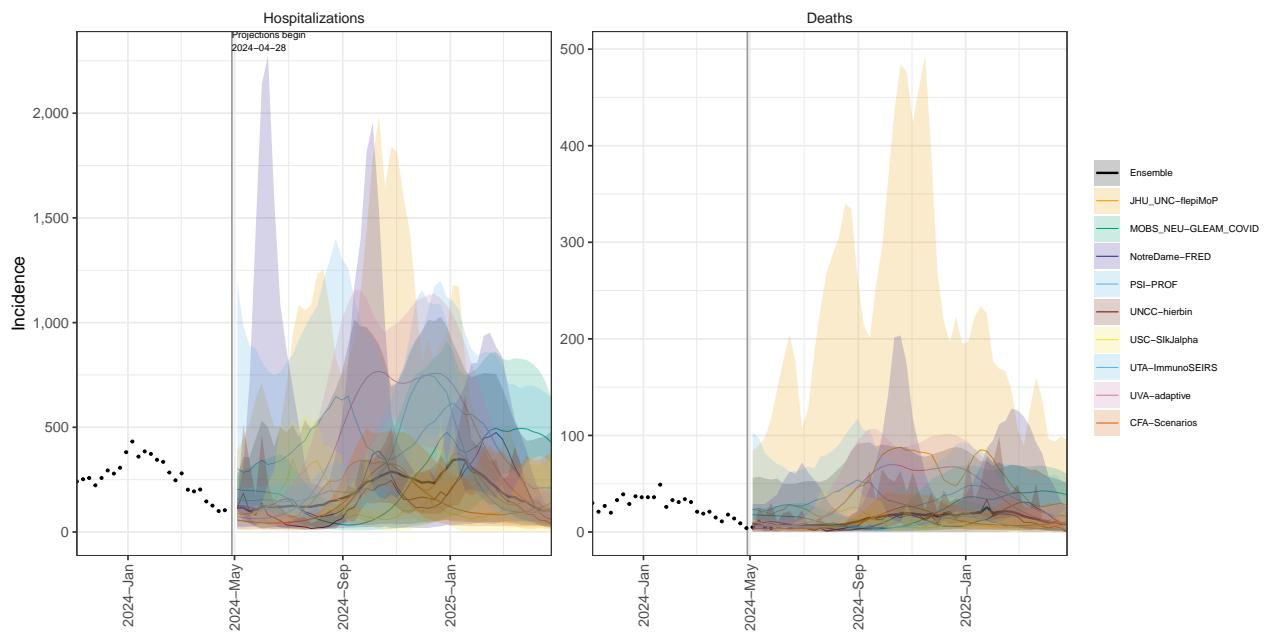
VT model variance & 95% projection intervals – Booster for high-risk, High immune escape



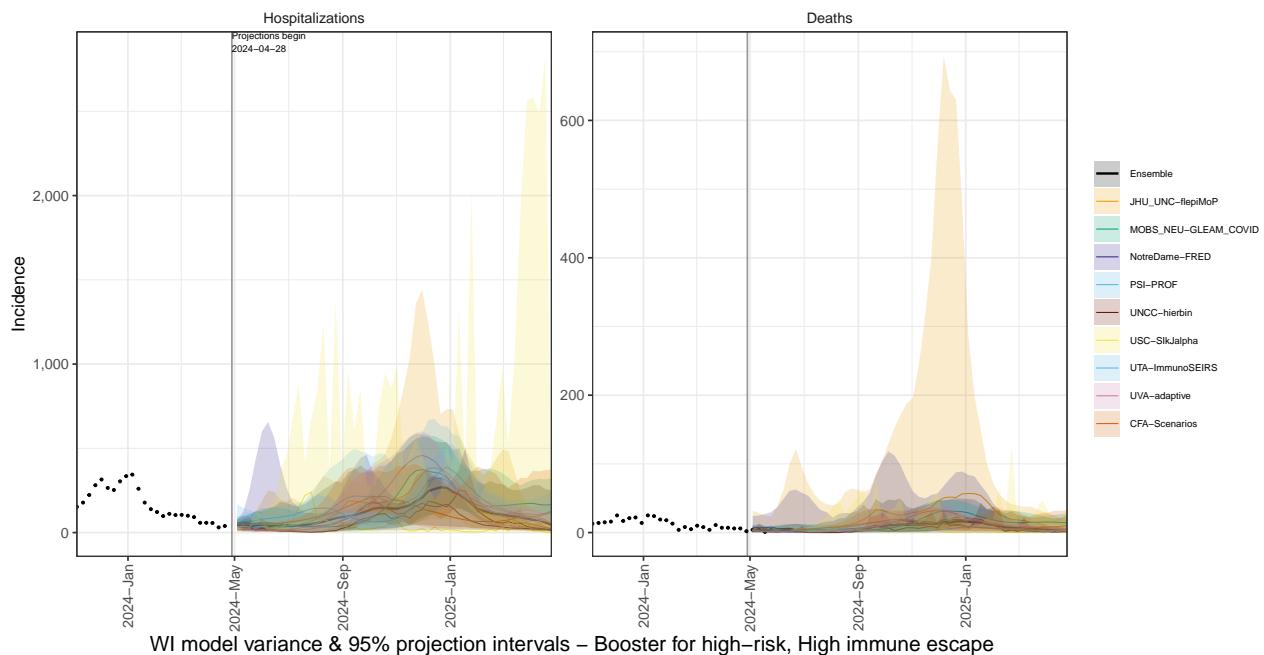
VA model variance & 95% projection intervals – Booster for high-risk, High immune escape



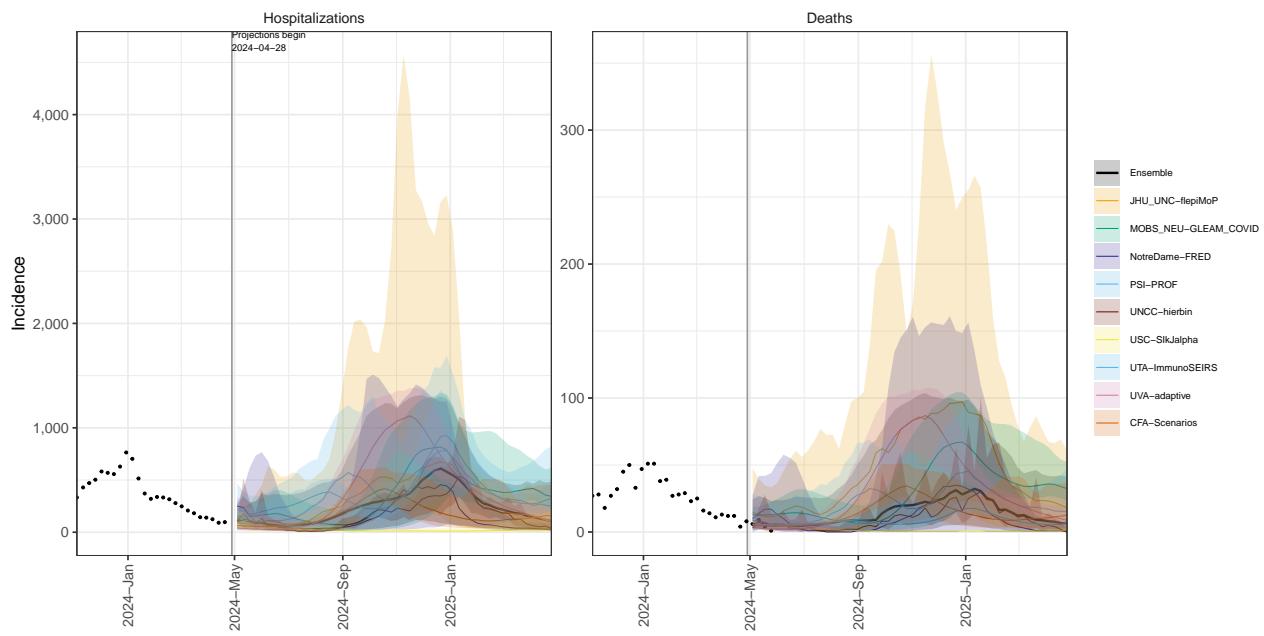
WA model variance & 95% projection intervals – Booster for high-risk, High immune escape



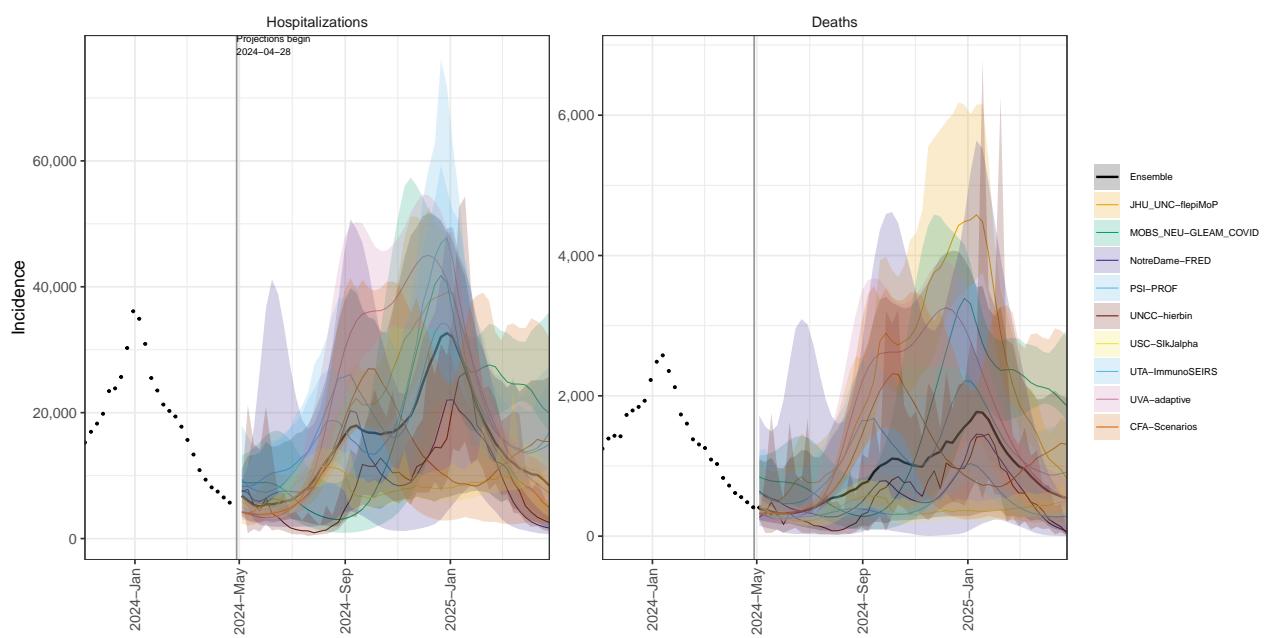
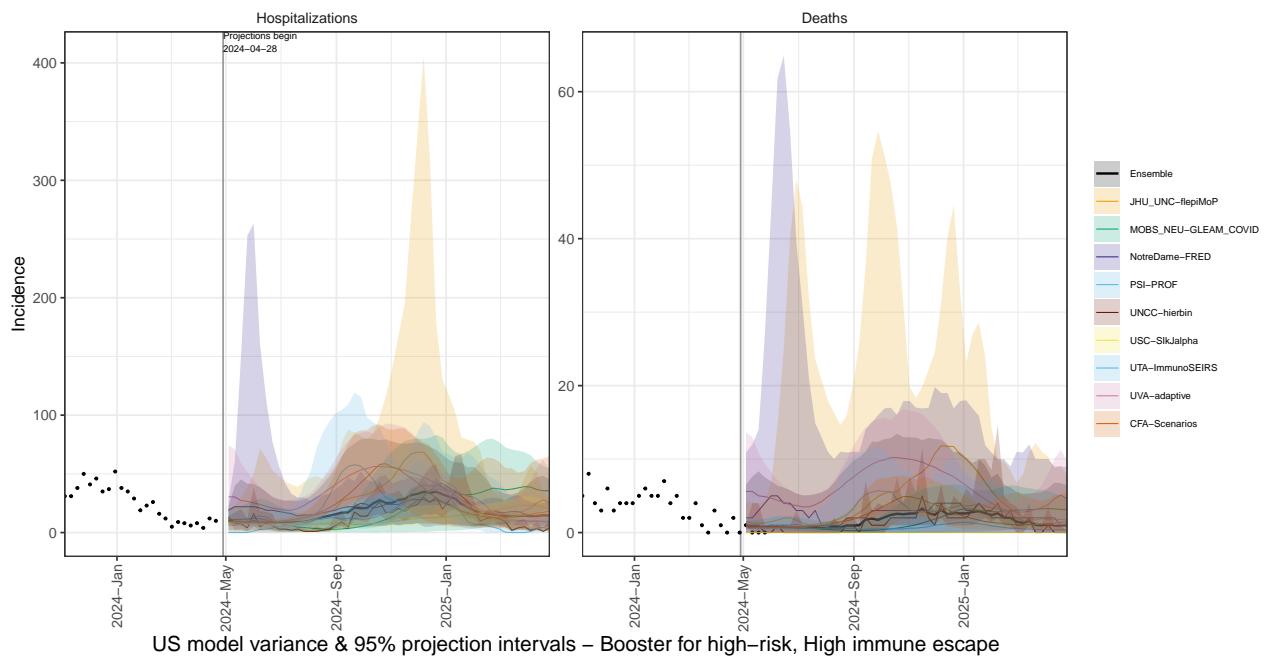
WV model variance & 95% projection intervals – Booster for high-risk, High immune escape



WI model variance & 95% projection intervals – Booster for high-risk, High immune escape

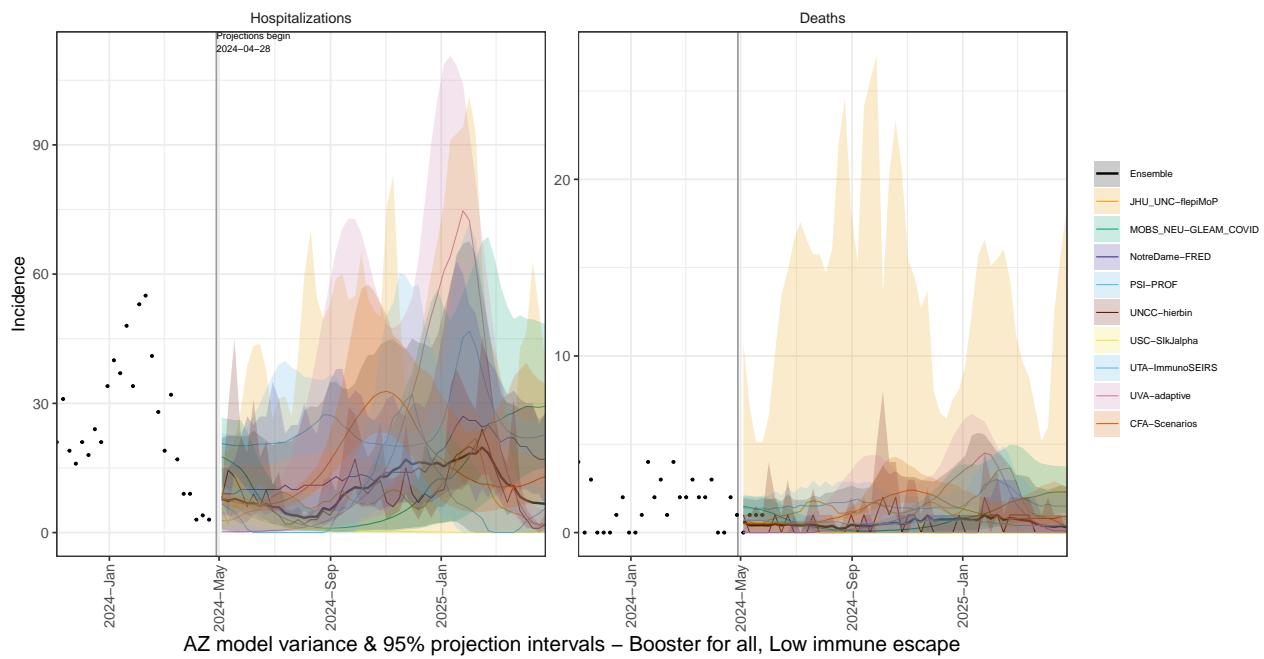


WY model variance & 95% projection intervals – Booster for high-risk, High immune escape

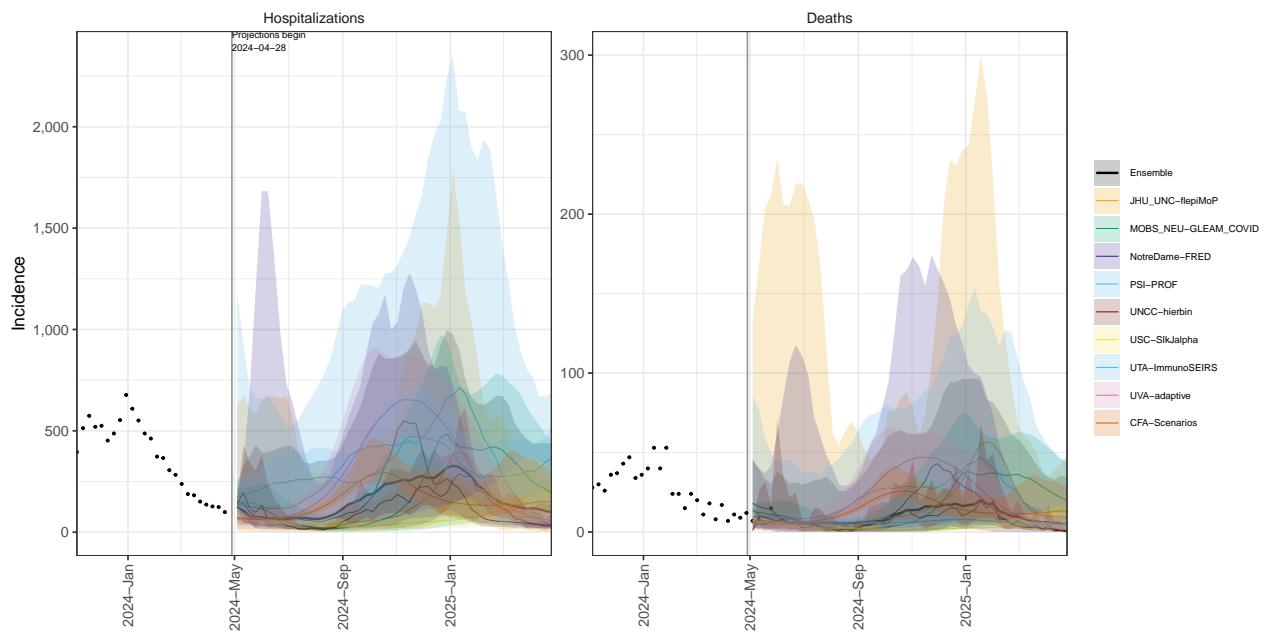


Model variation for Booster for all, Low immune escape scenario.

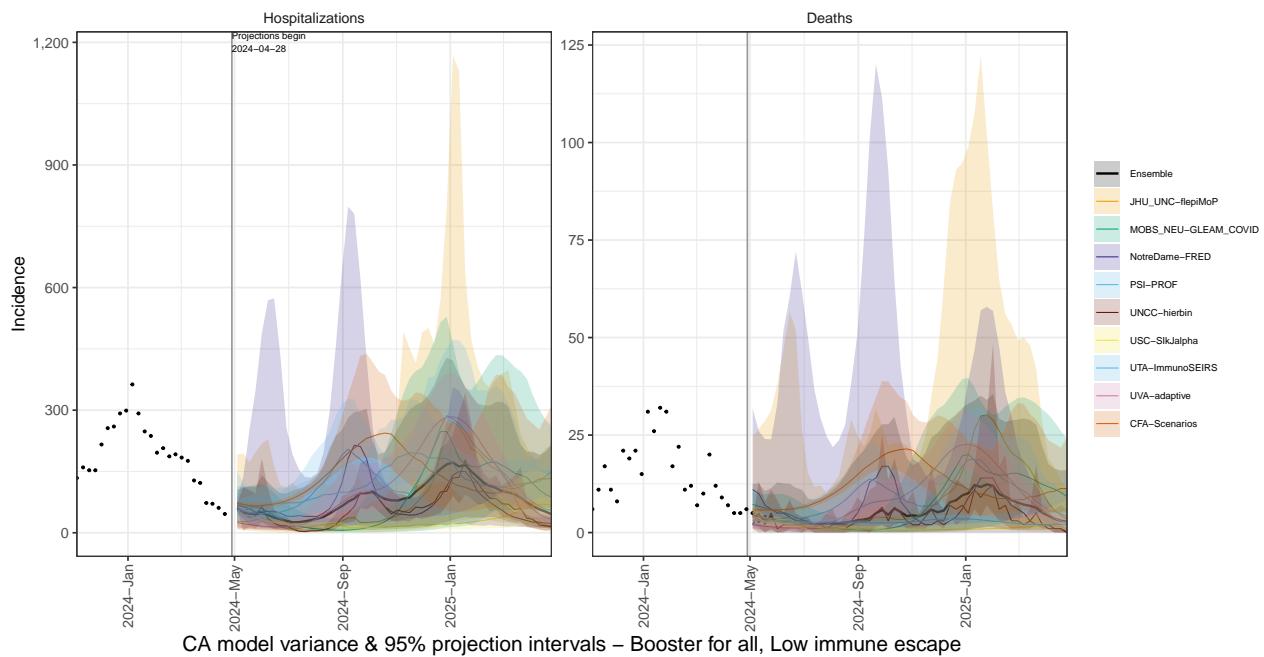
AK model variance & 95% projection intervals – Booster for all, Low immune escape



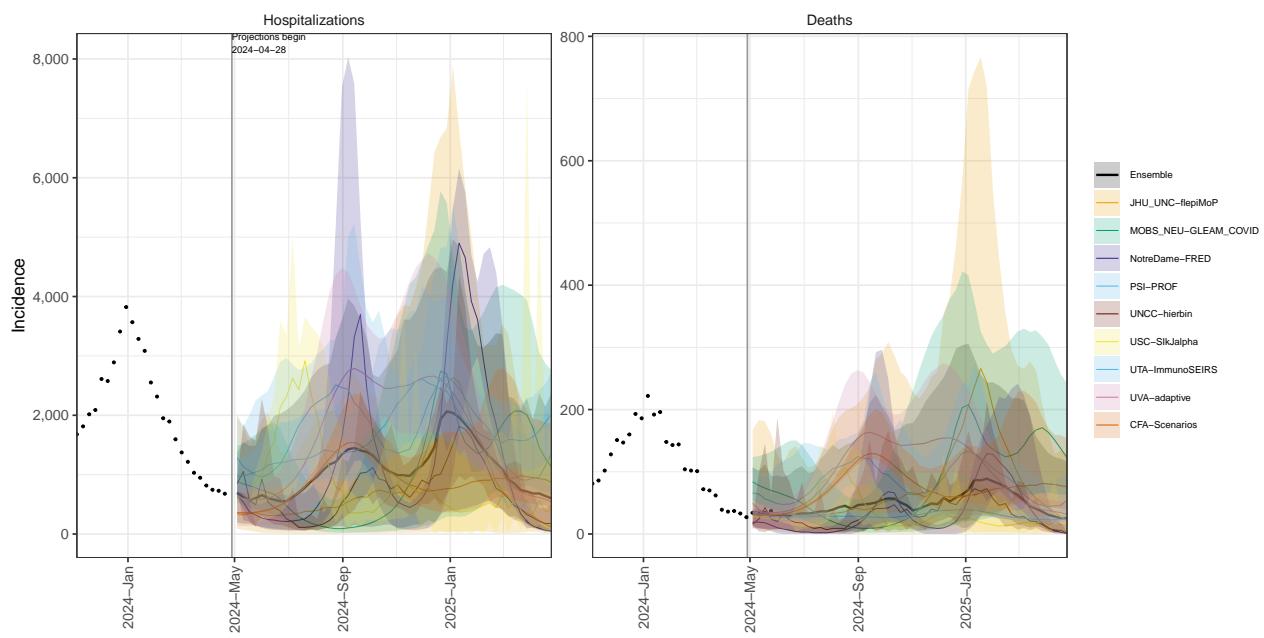
AZ model variance & 95% projection intervals – Booster for all, Low immune escape



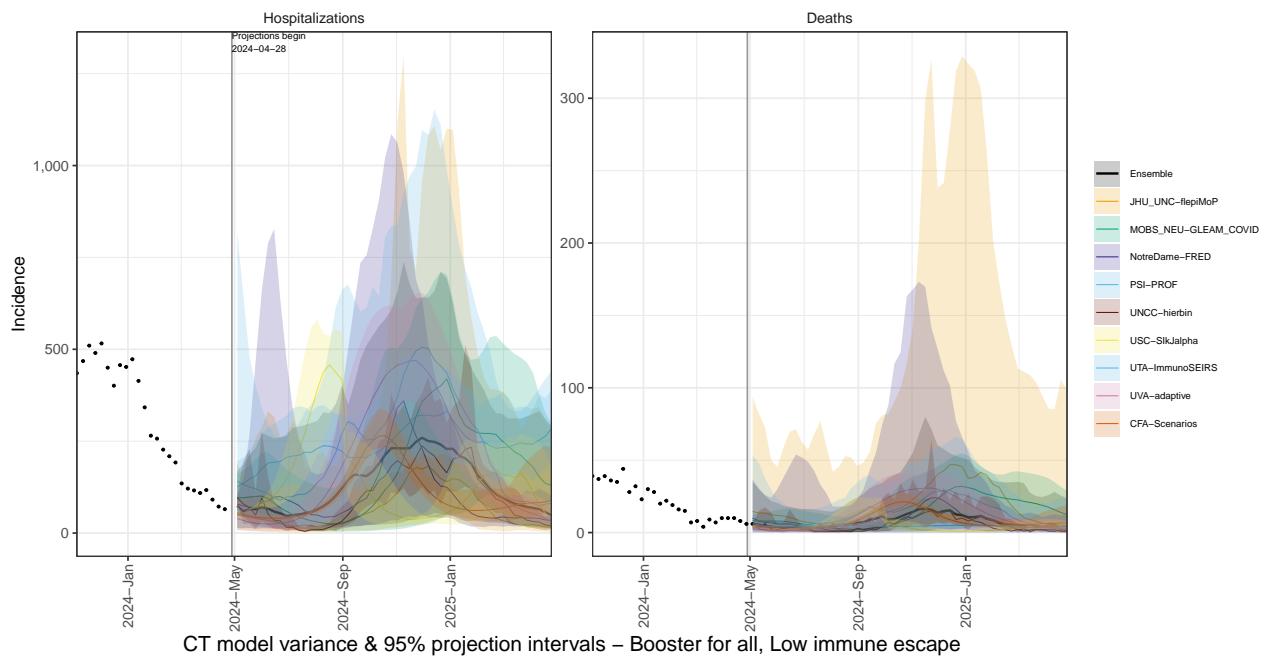
AR model variance & 95% projection intervals – Booster for all, Low immune escape



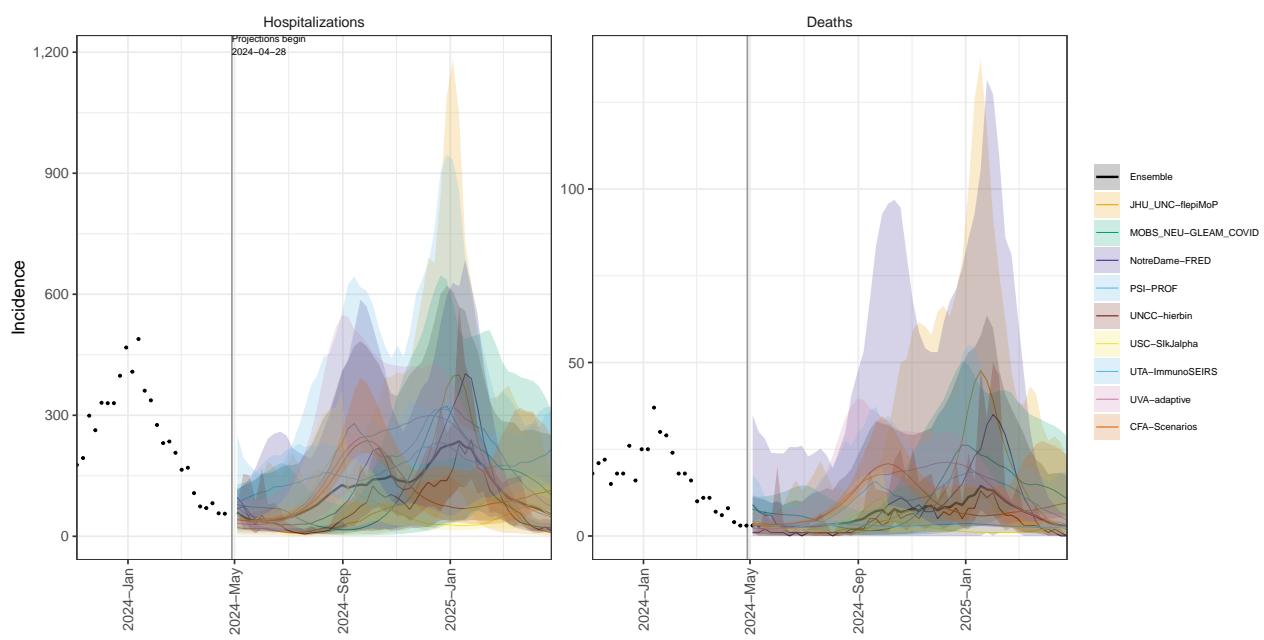
CA model variance & 95% projection intervals – Booster for all, Low immune escape



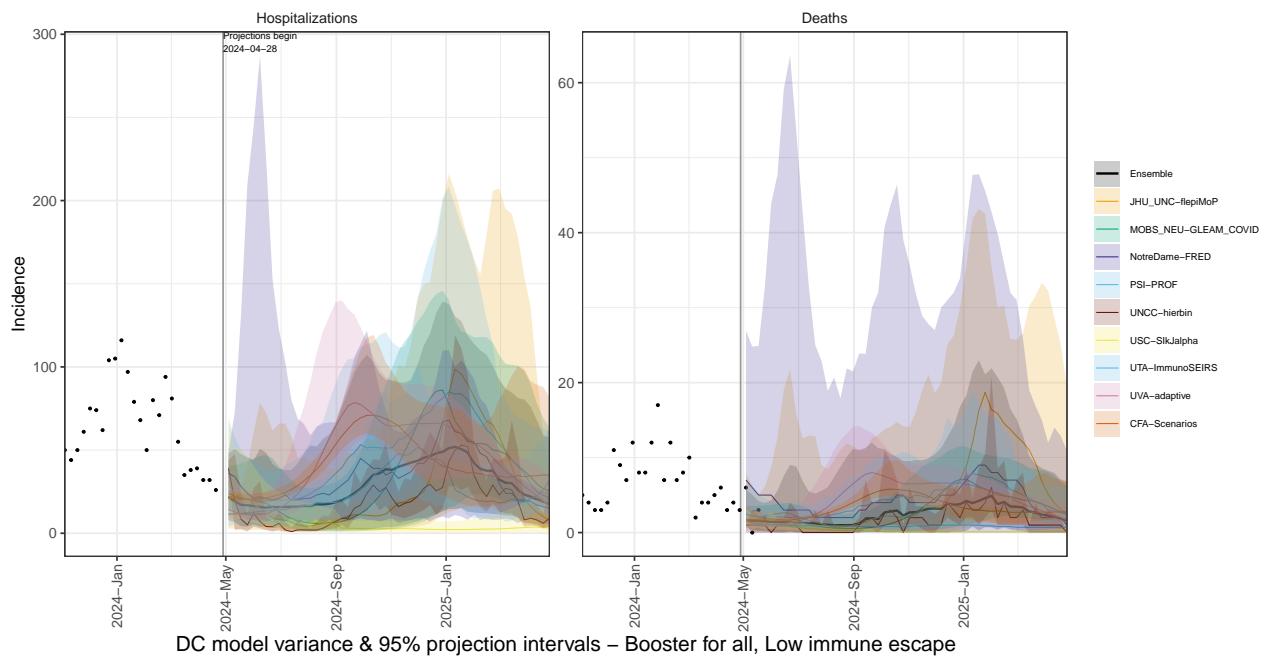
CO model variance & 95% projection intervals – Booster for all, Low immune escape



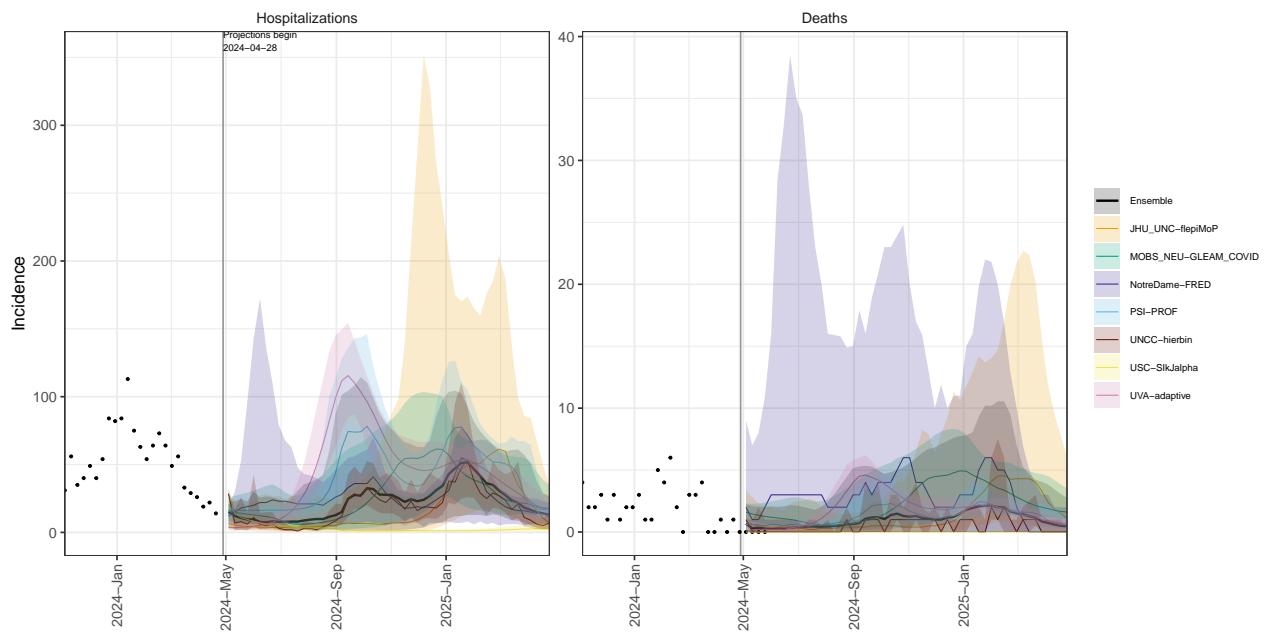
CT model variance & 95% projection intervals – Booster for all, Low immune escape



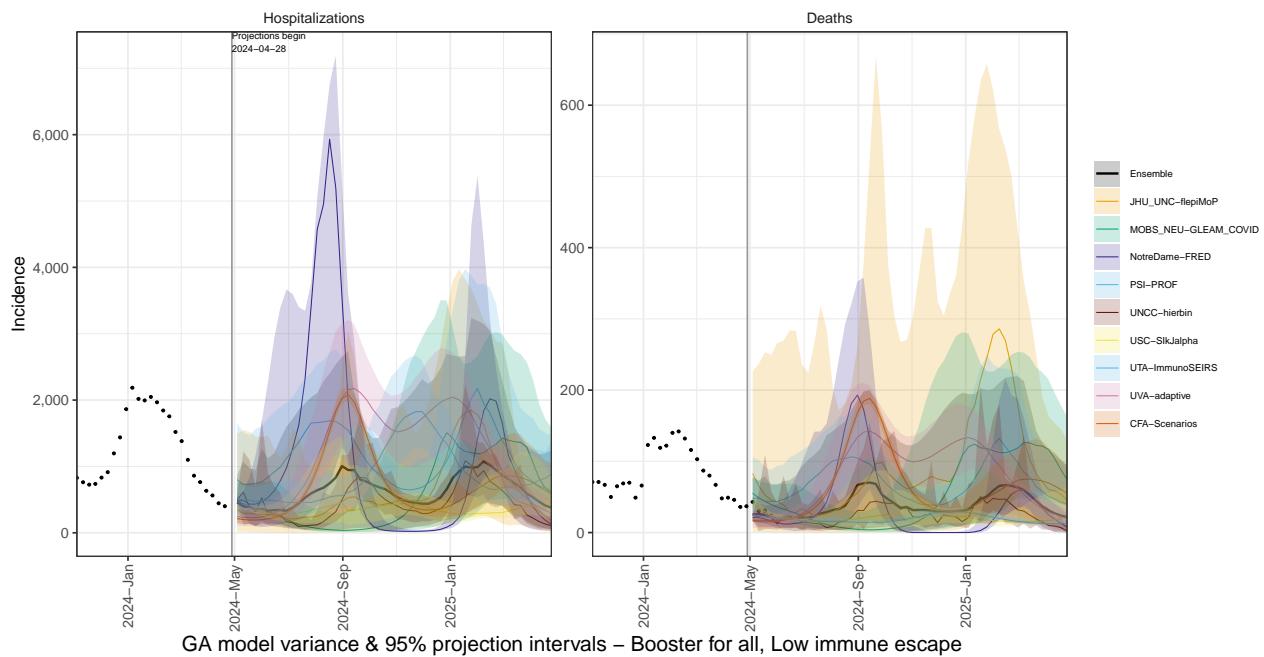
DE model variance & 95% projection intervals – Booster for all, Low immune escape



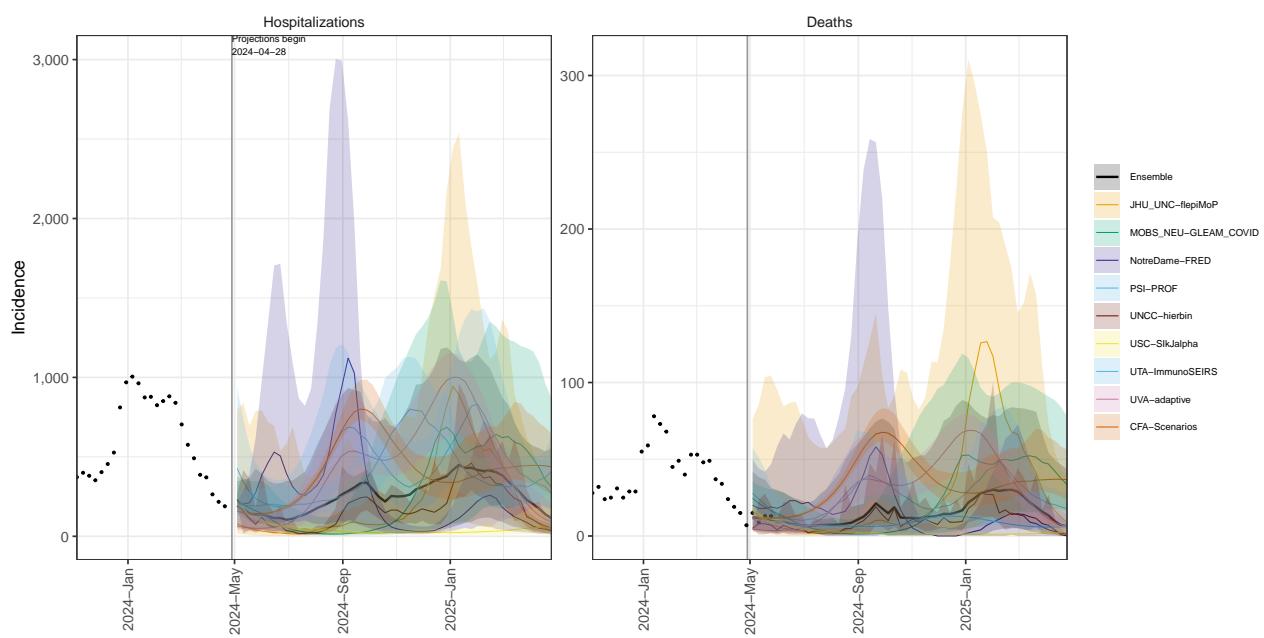
DC model variance & 95% projection intervals – Booster for all, Low immune escape



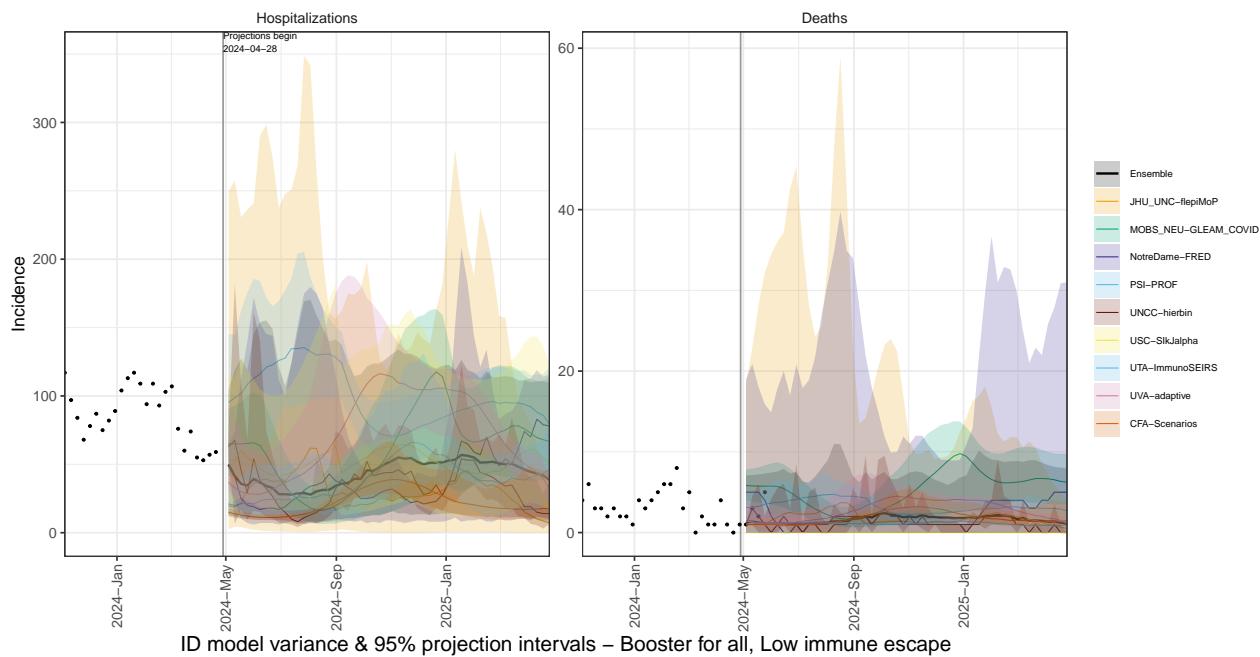
FL model variance & 95% projection intervals – Booster for all, Low immune escape



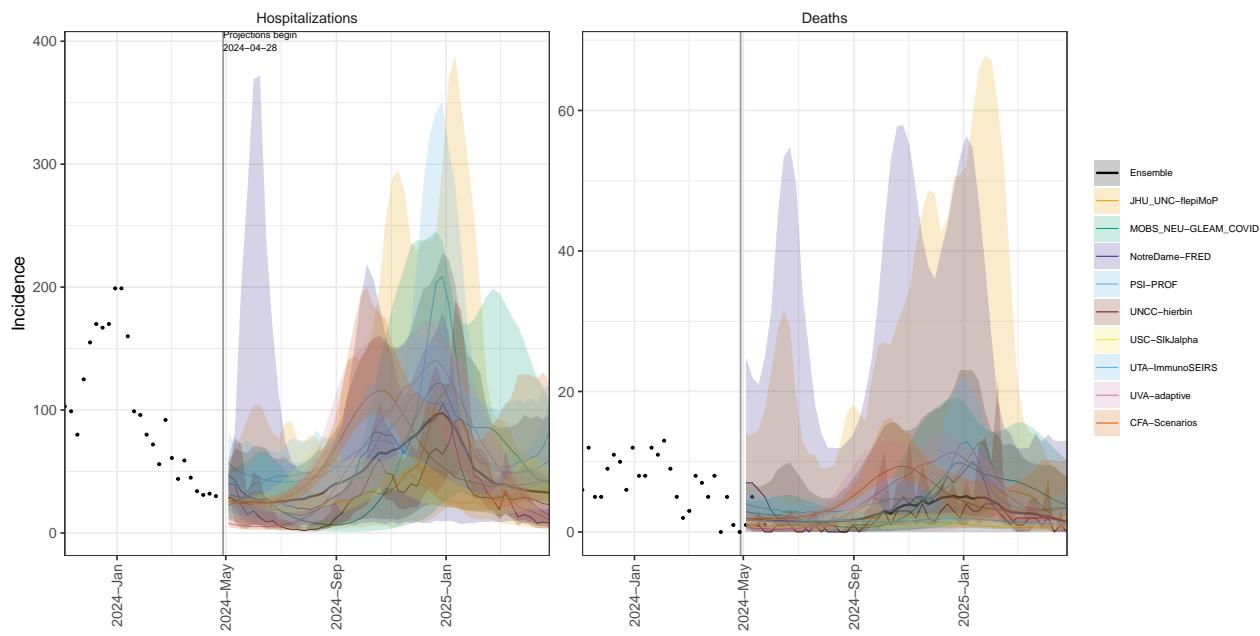
GA model variance & 95% projection intervals – Booster for all, Low immune escape



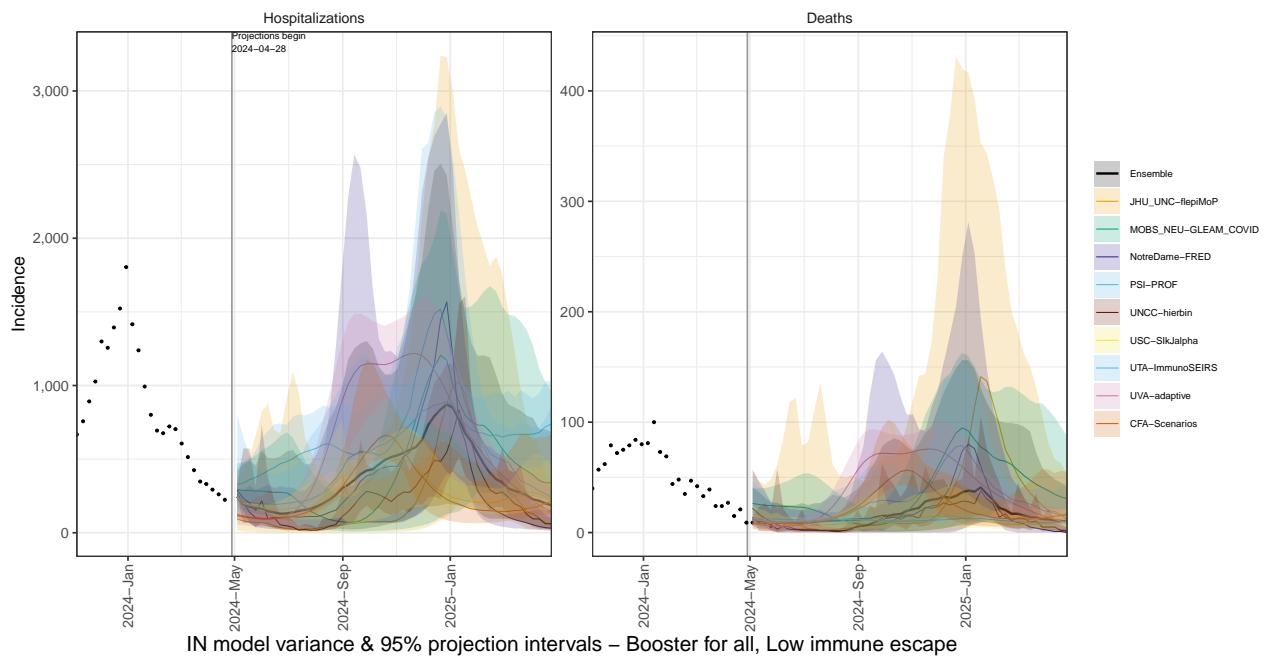
HI model variance & 95% projection intervals – Booster for all, Low immune escape



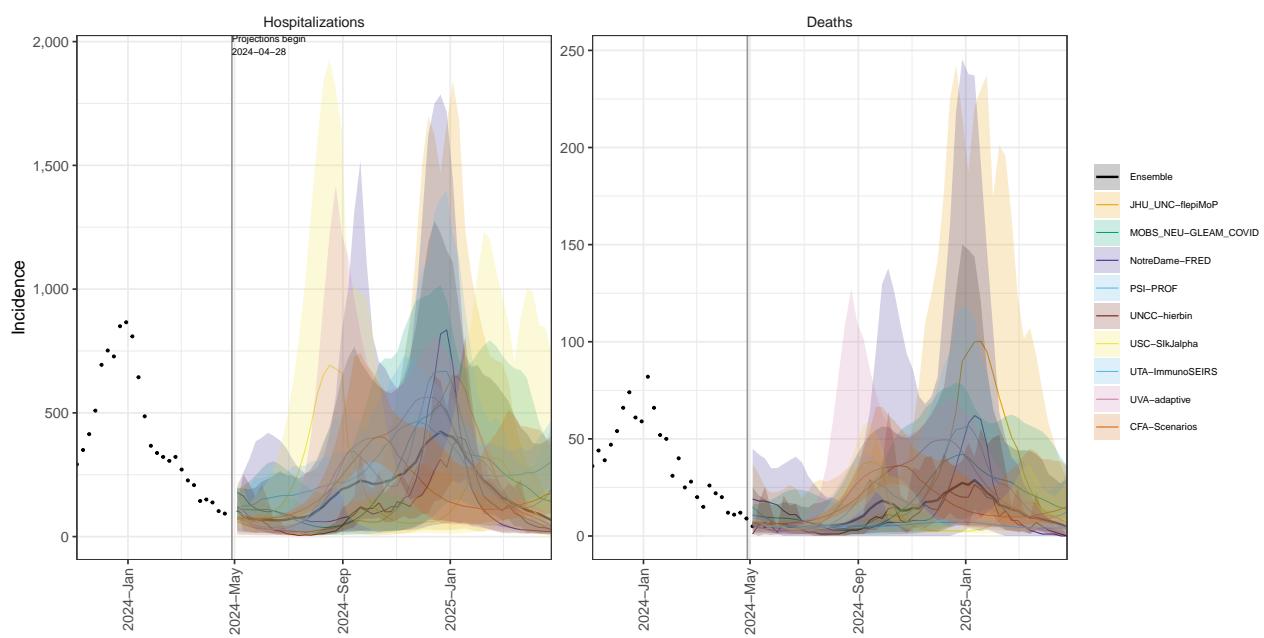
ID model variance & 95% projection intervals – Booster for all, Low immune escape



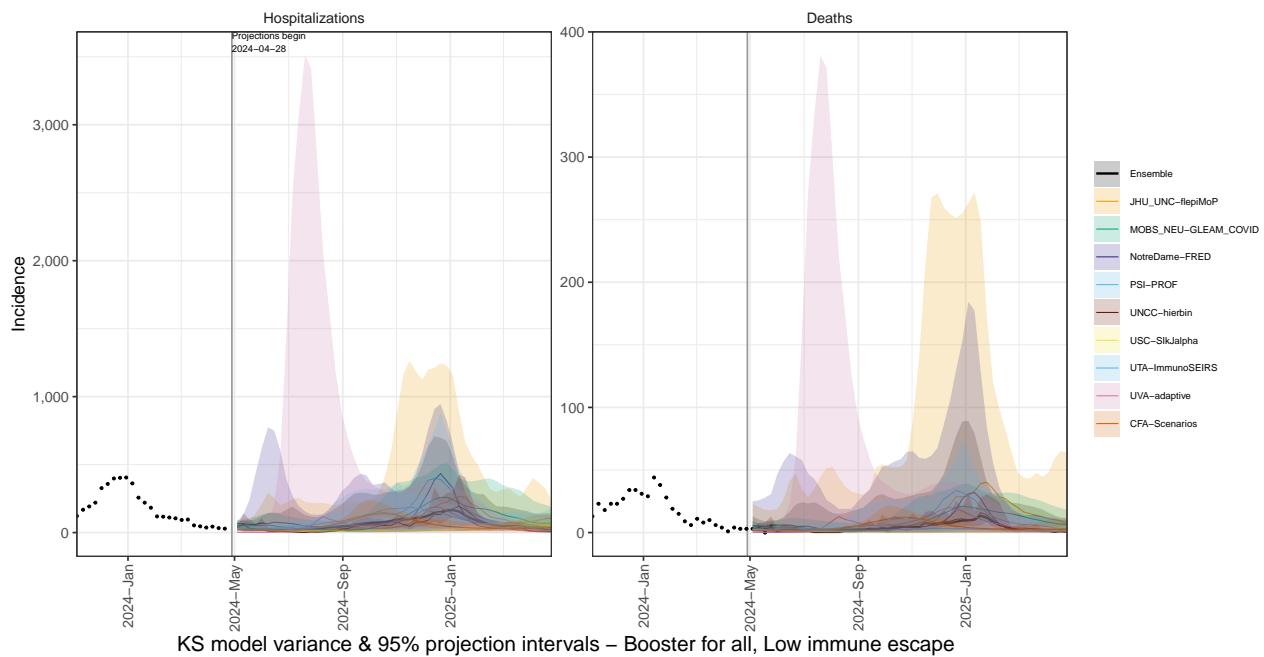
IL model variance & 95% projection intervals – Booster for all, Low immune escape



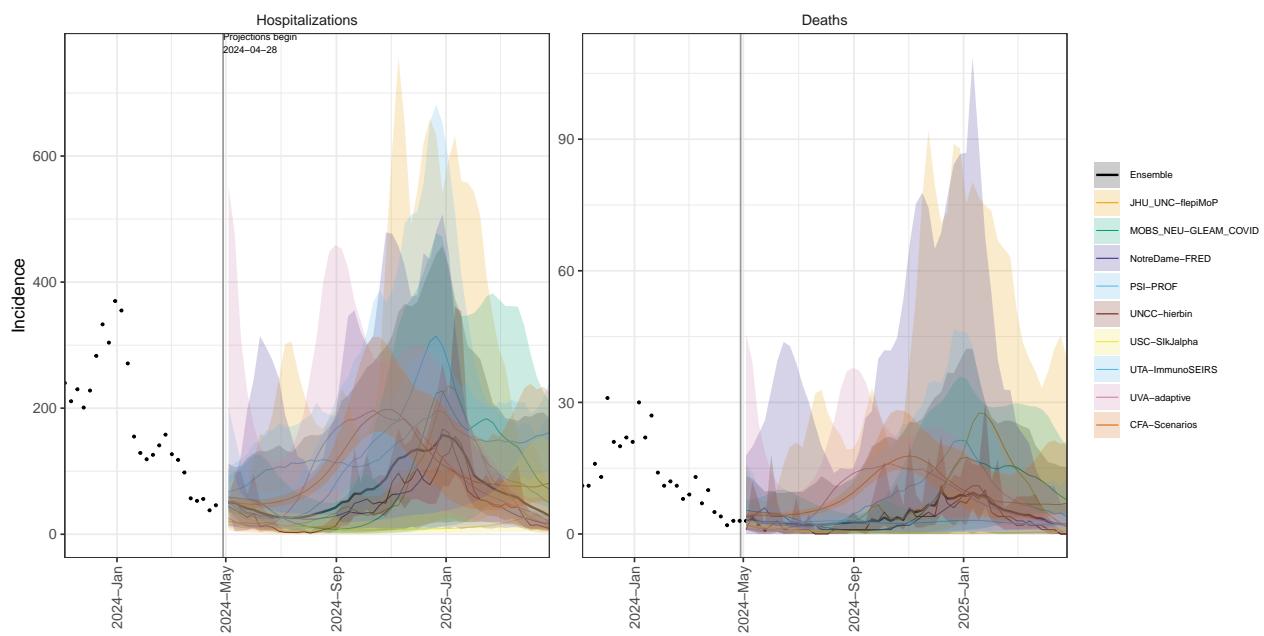
IN model variance & 95% projection intervals – Booster for all, Low immune escape



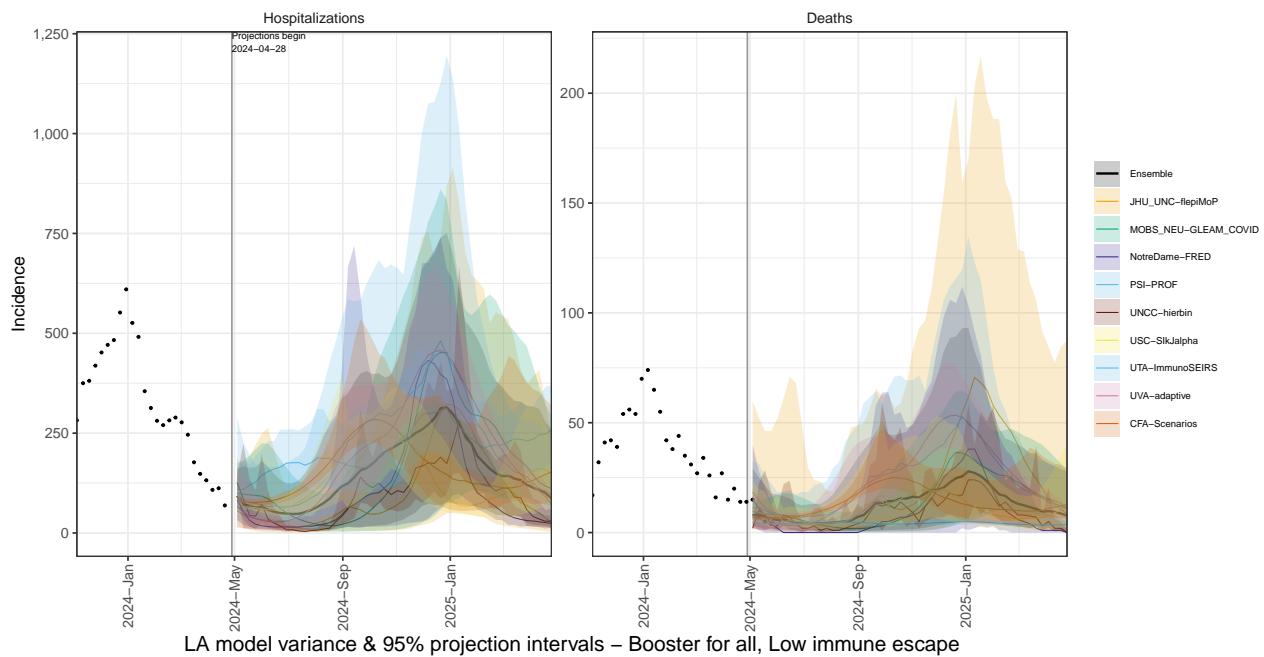
IA model variance & 95% projection intervals – Booster for all, Low immune escape



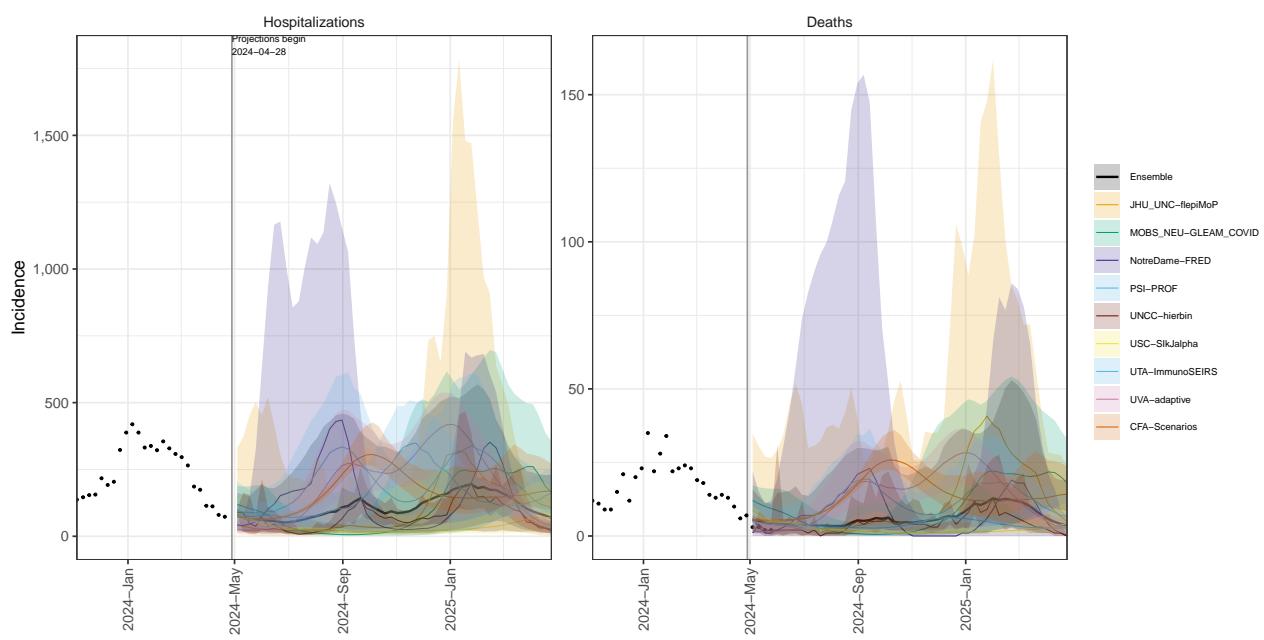
KS model variance & 95% projection intervals – Booster for all, Low immune escape



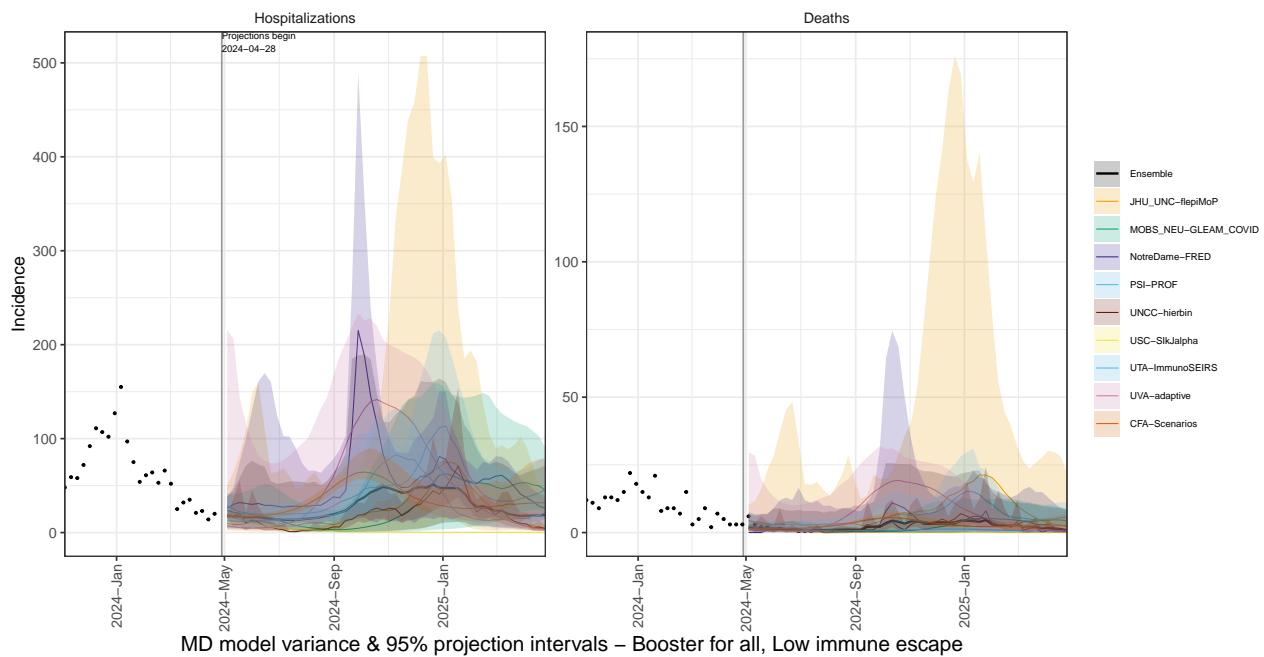
KY model variance & 95% projection intervals – Booster for all, Low immune escape



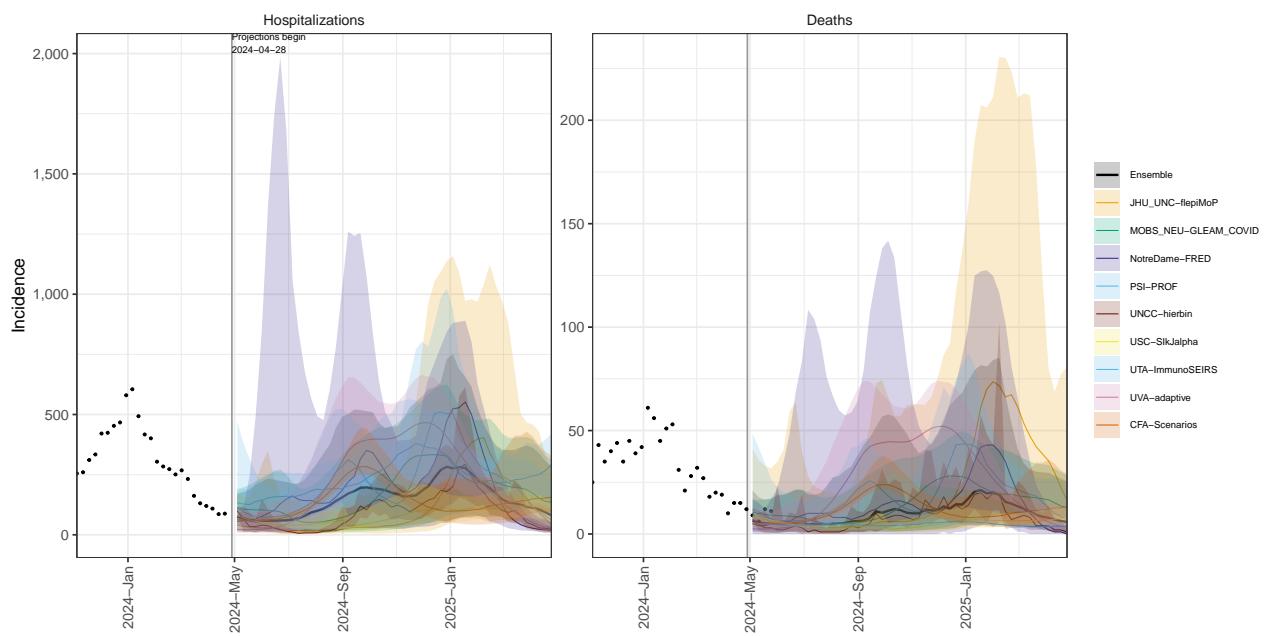
LA model variance & 95% projection intervals – Booster for all, Low immune escape



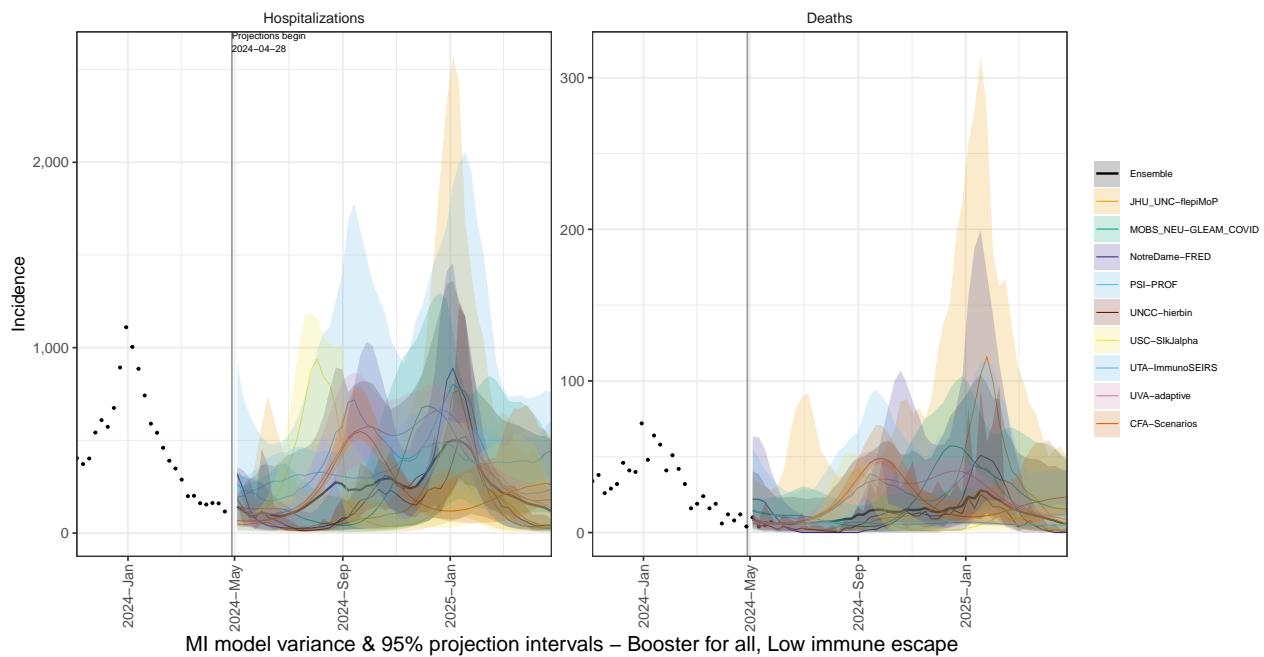
ME model variance & 95% projection intervals – Booster for all, Low immune escape



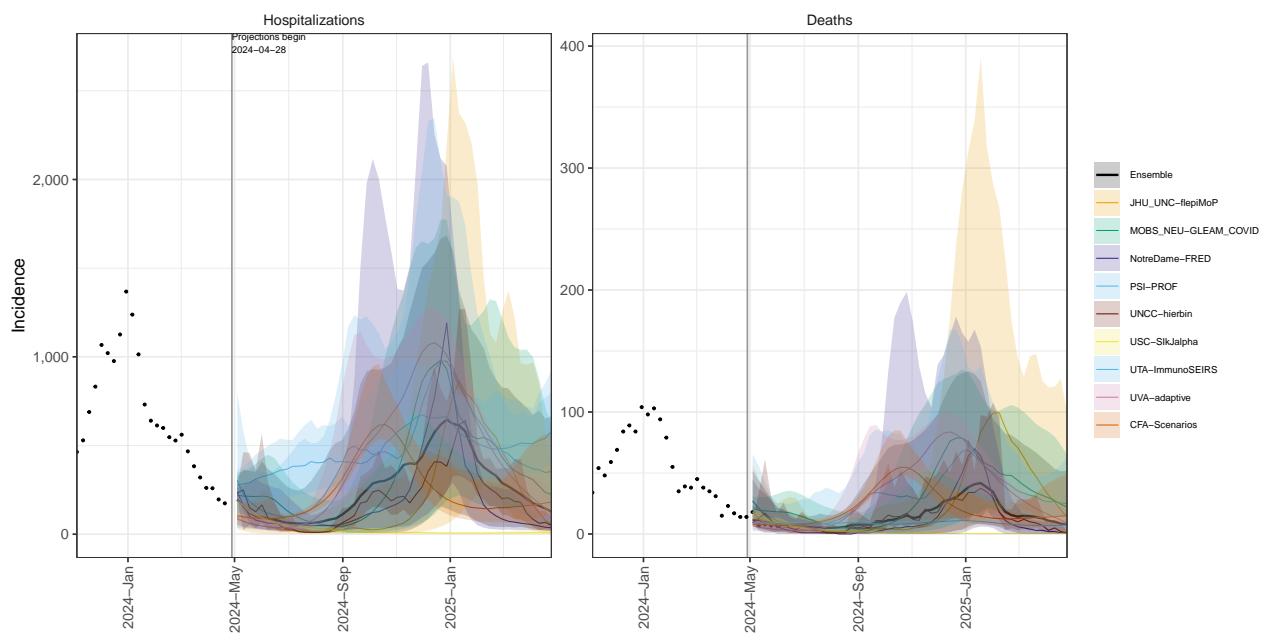
MD model variance & 95% projection intervals – Booster for all, Low immune escape



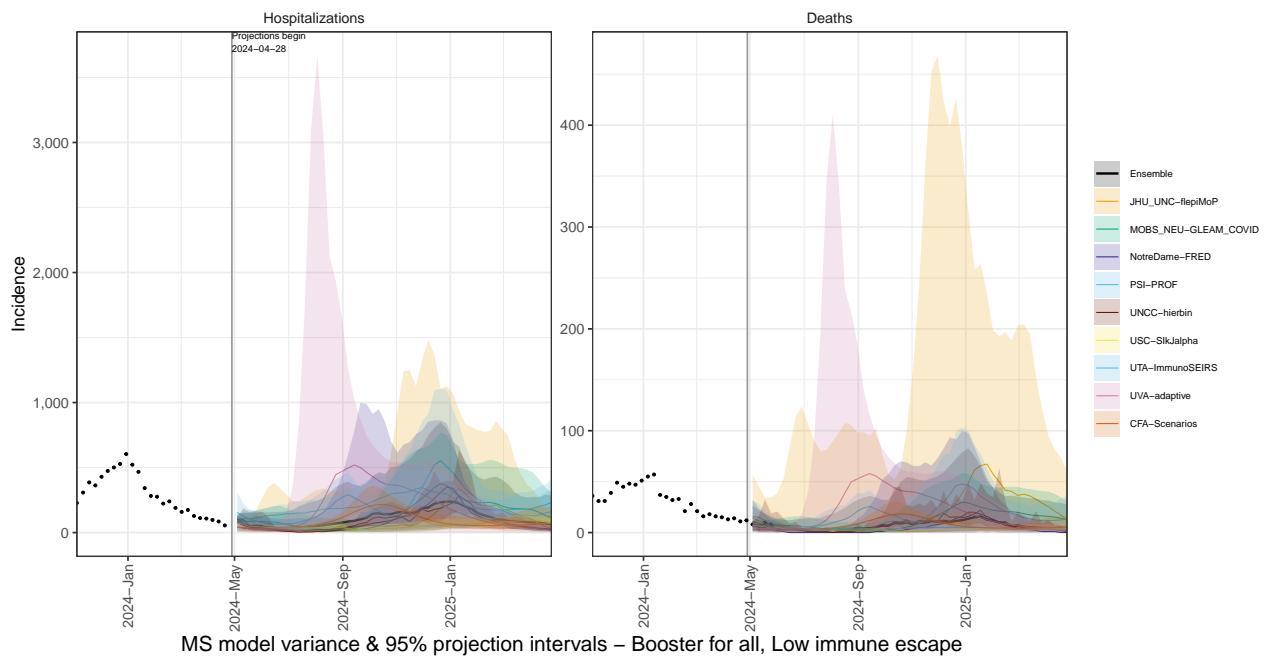
MA model variance & 95% projection intervals – Booster for all, Low immune escape



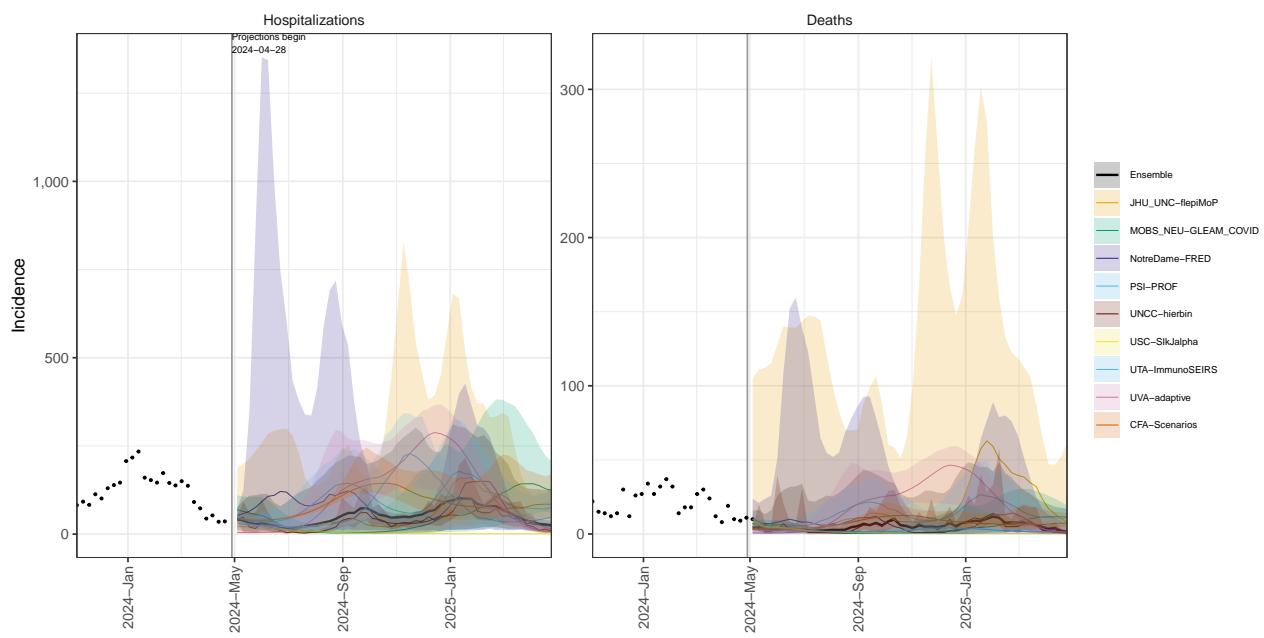
MI model variance & 95% projection intervals – Booster for all, Low immune escape



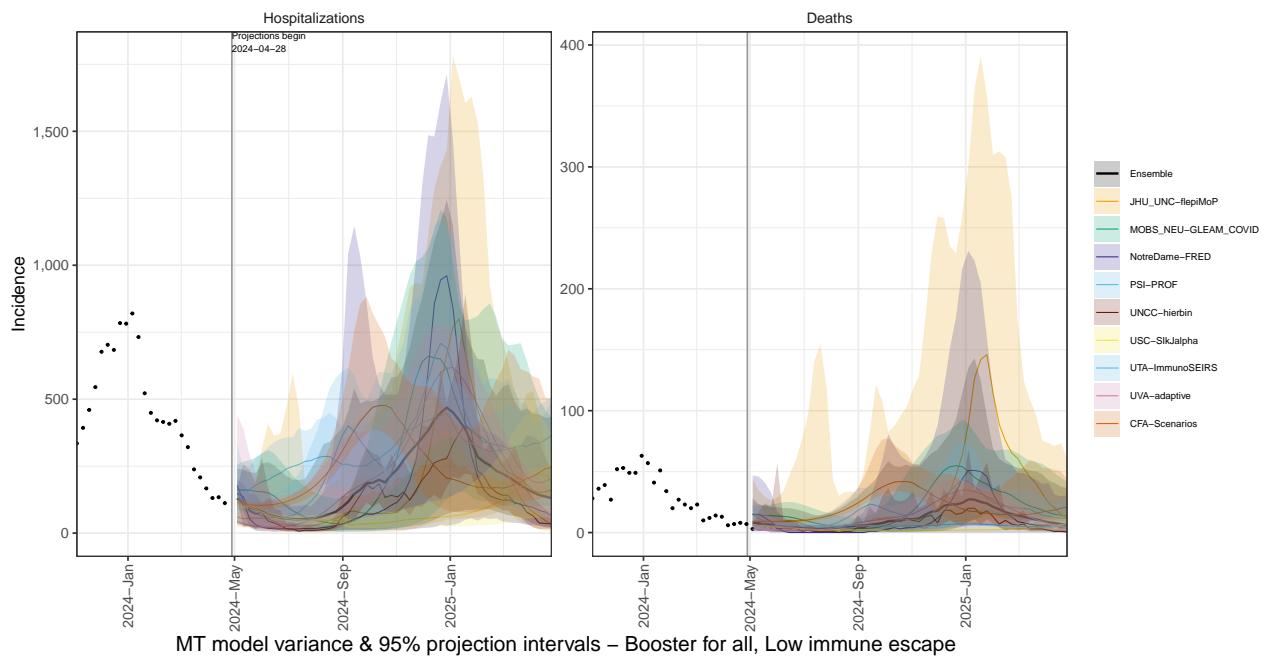
MN model variance & 95% projection intervals – Booster for all, Low immune escape



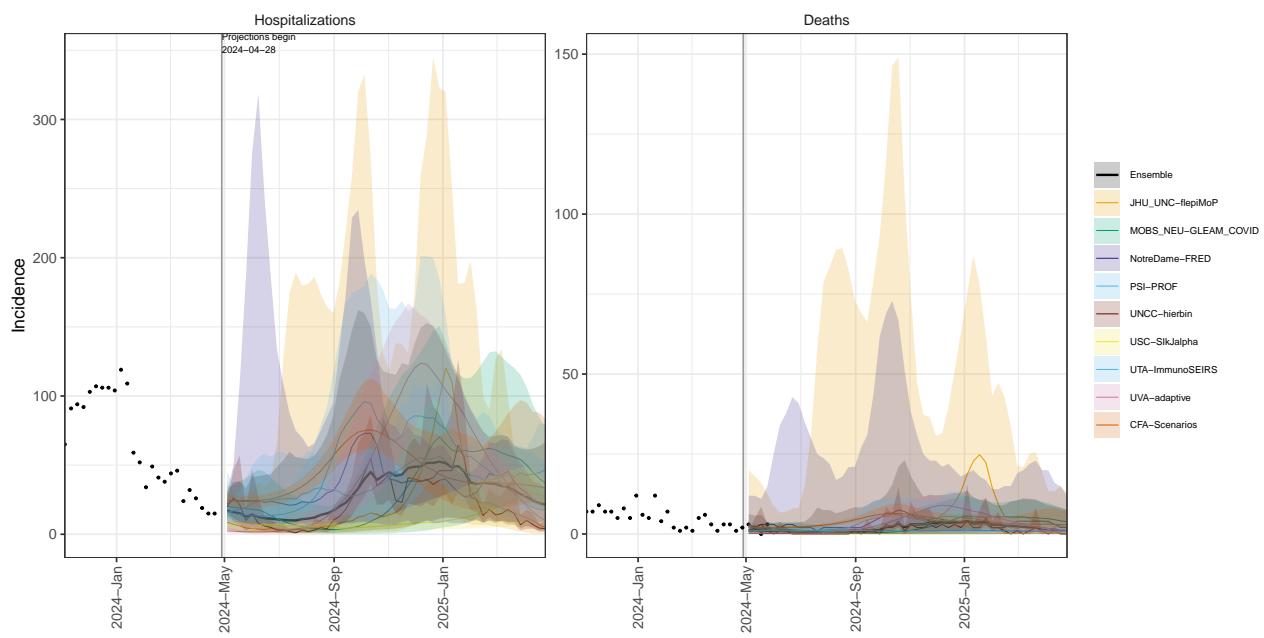
MS model variance & 95% projection intervals – Booster for all, Low immune escape



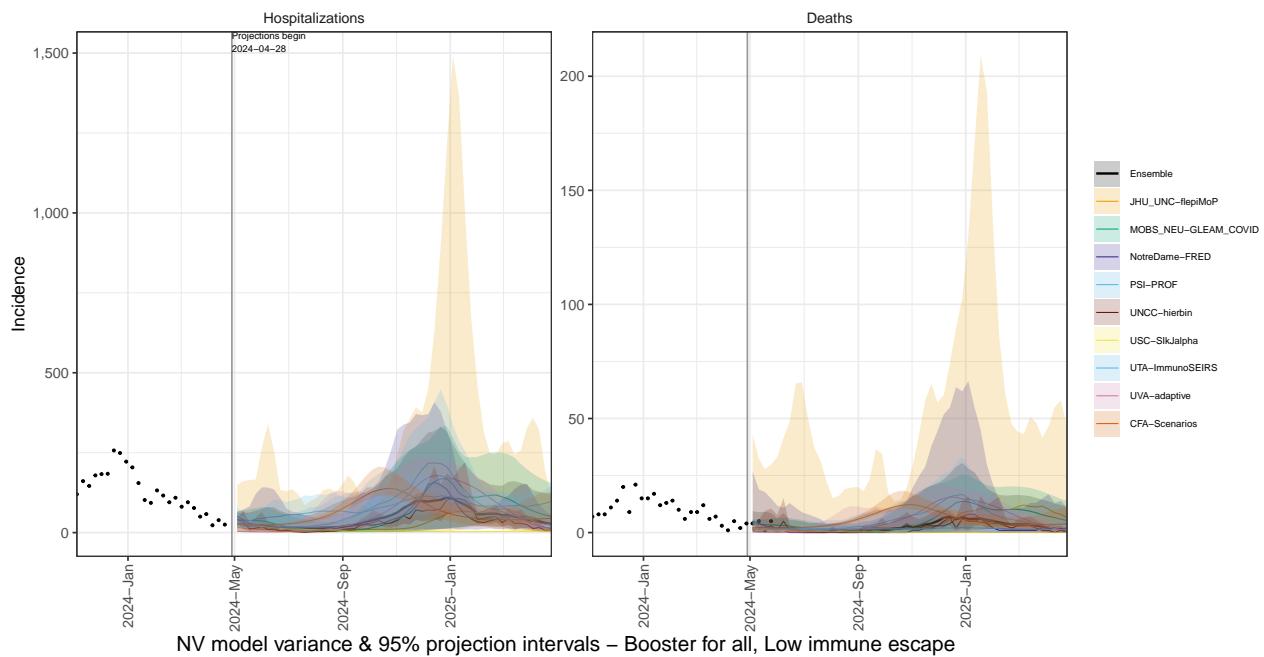
MO model variance & 95% projection intervals – Booster for all, Low immune escape



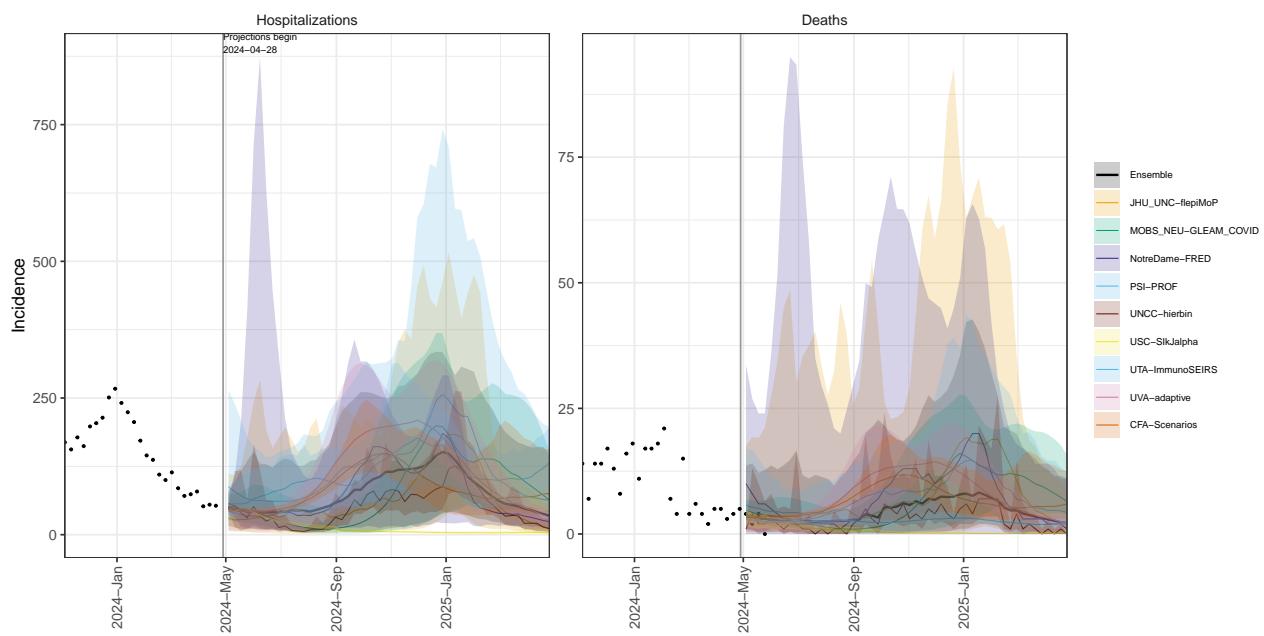
MT model variance & 95% projection intervals – Booster for all, Low immune escape



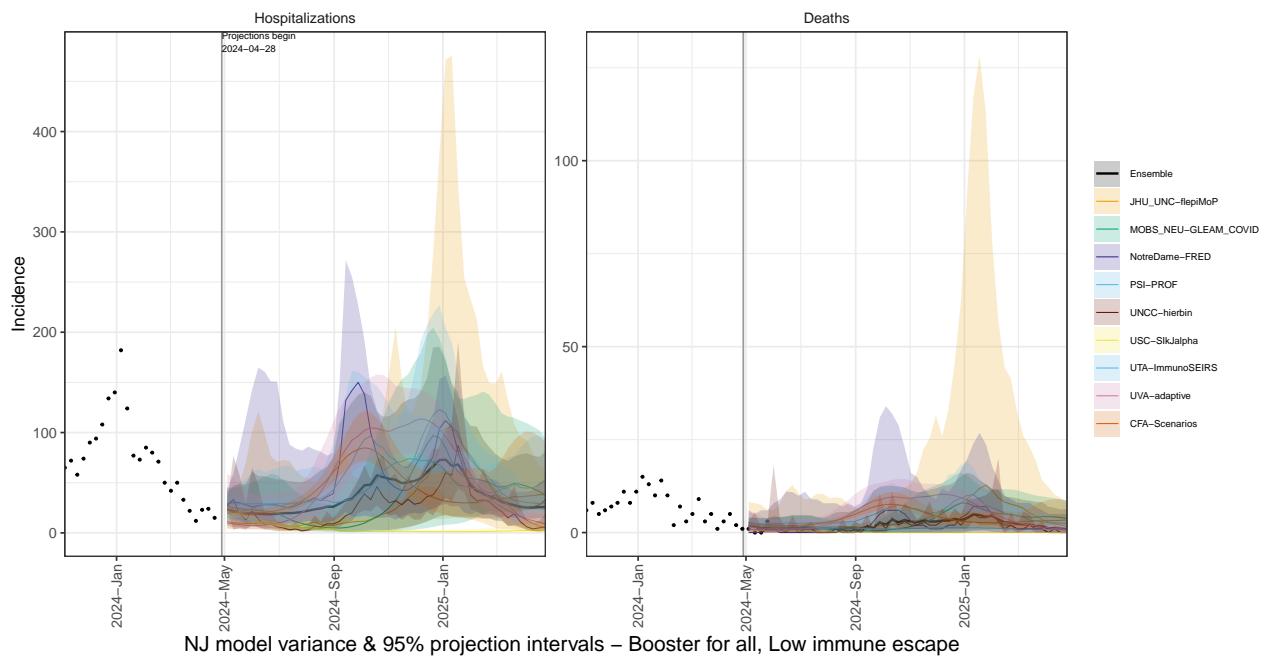
NE model variance & 95% projection intervals – Booster for all, Low immune escape



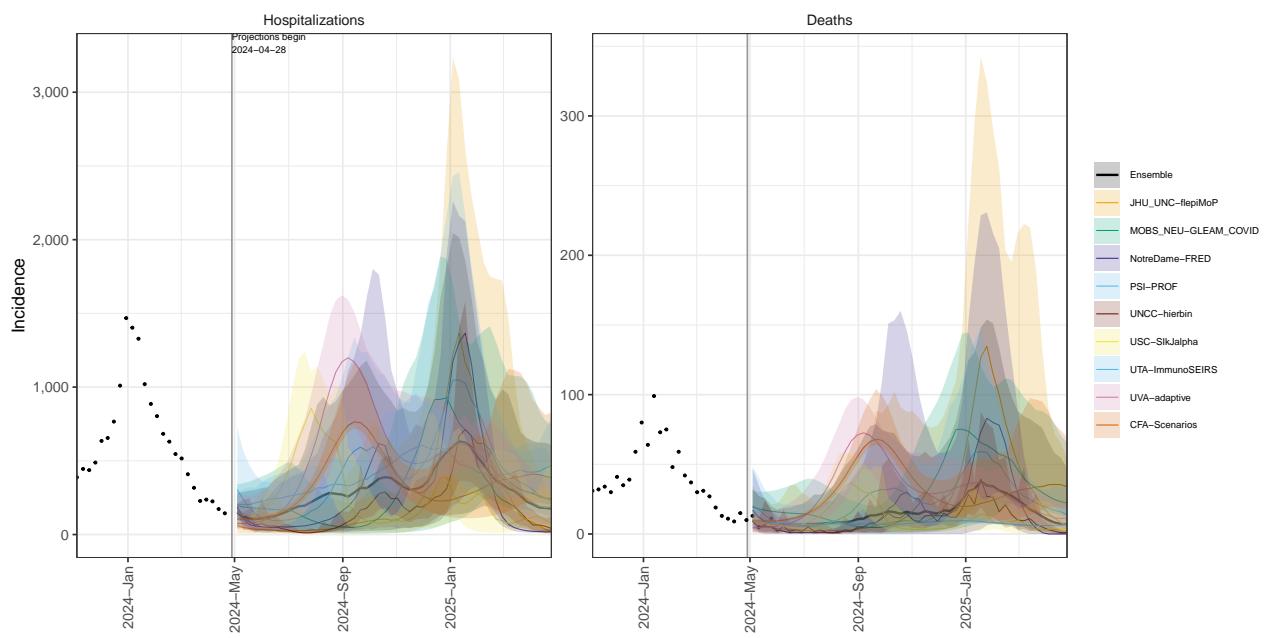
NV model variance & 95% projection intervals – Booster for all, Low immune escape



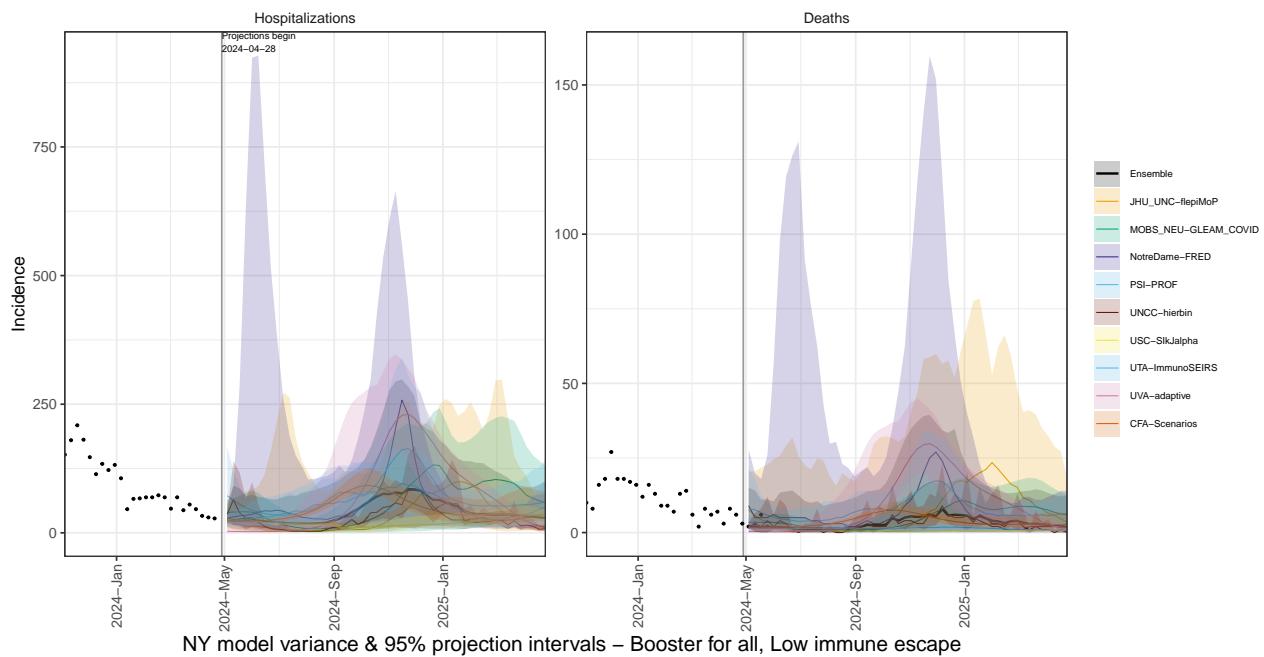
NH model variance & 95% projection intervals – Booster for all, Low immune escape



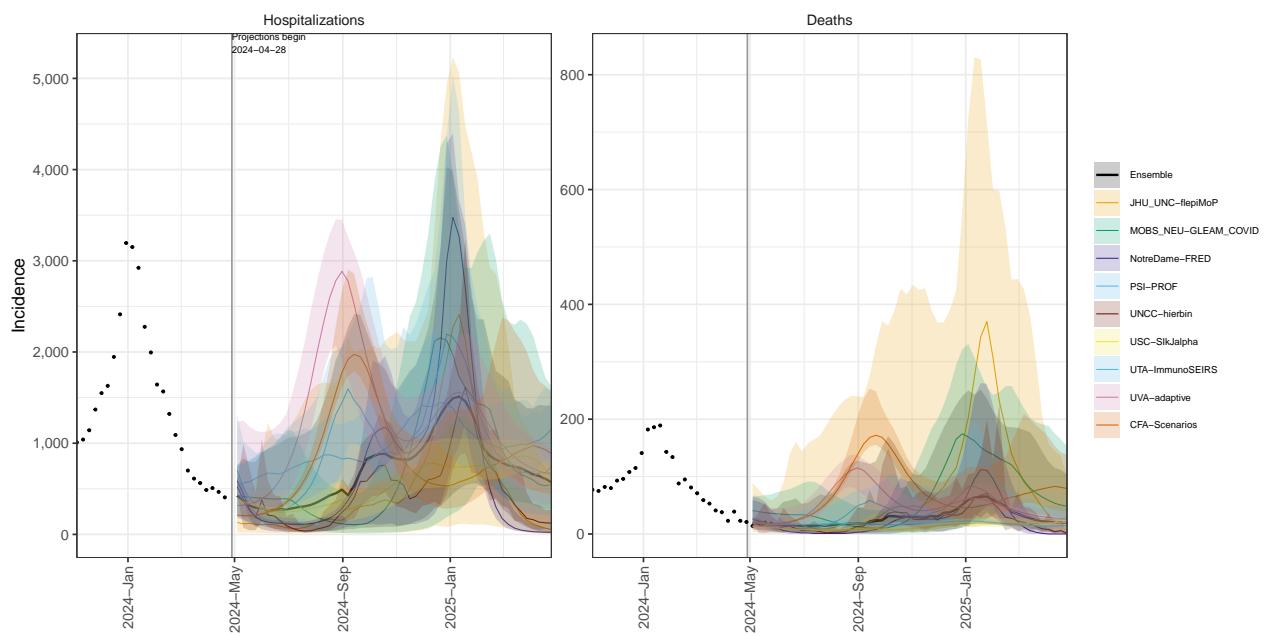
NJ model variance & 95% projection intervals – Booster for all, Low immune escape



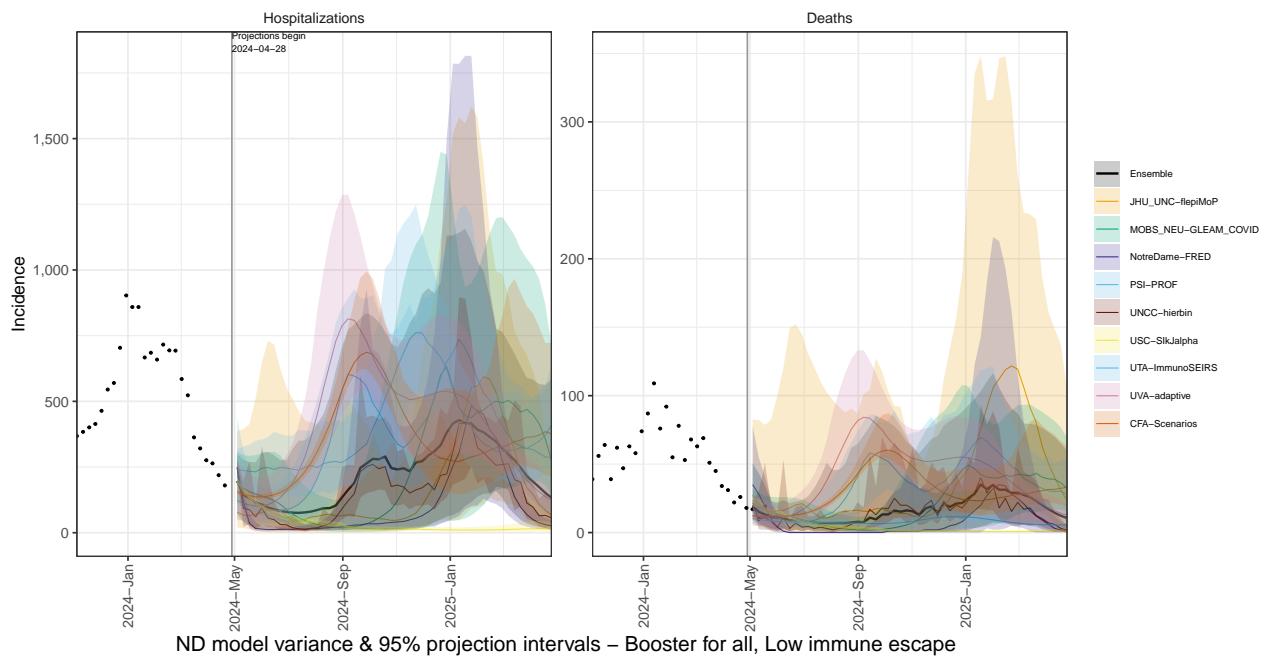
NM model variance & 95% projection intervals – Booster for all, Low immune escape



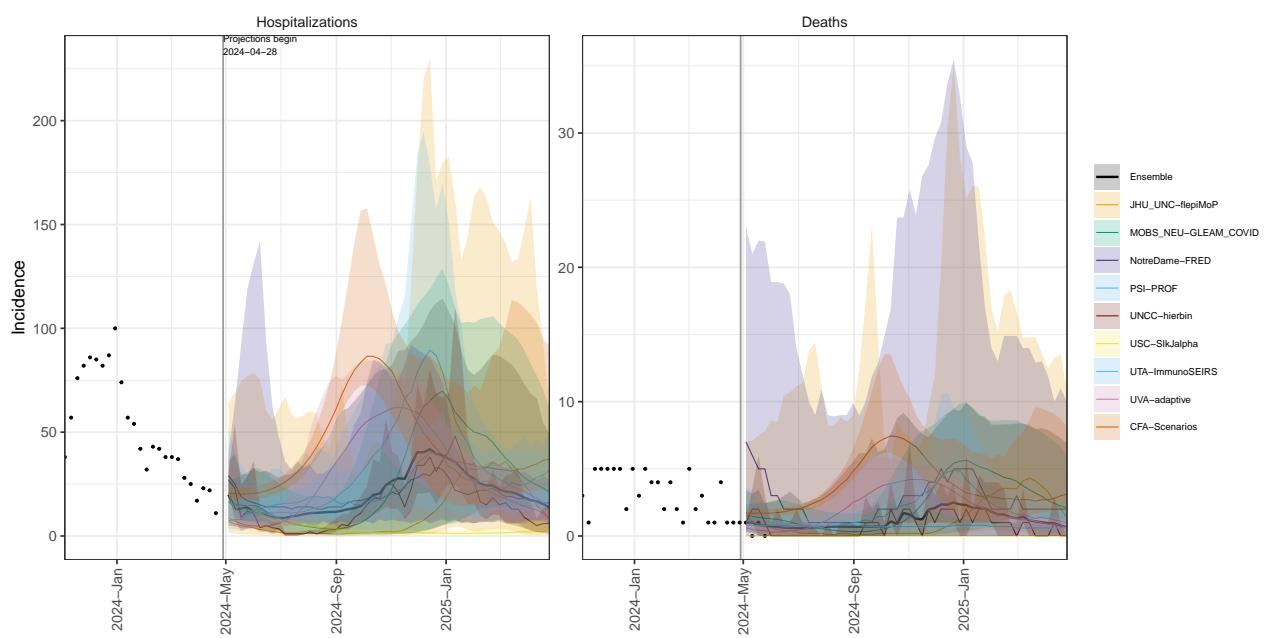
NY model variance & 95% projection intervals – Booster for all, Low immune escape



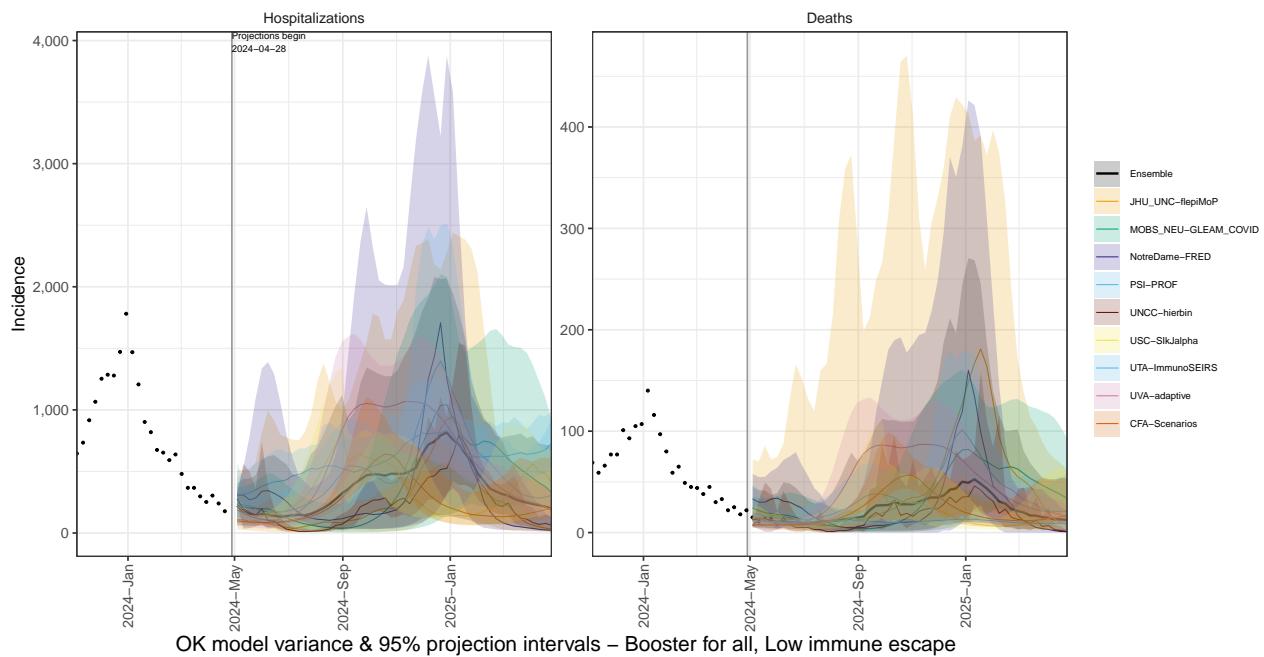
NC model variance & 95% projection intervals – Booster for all, Low immune escape



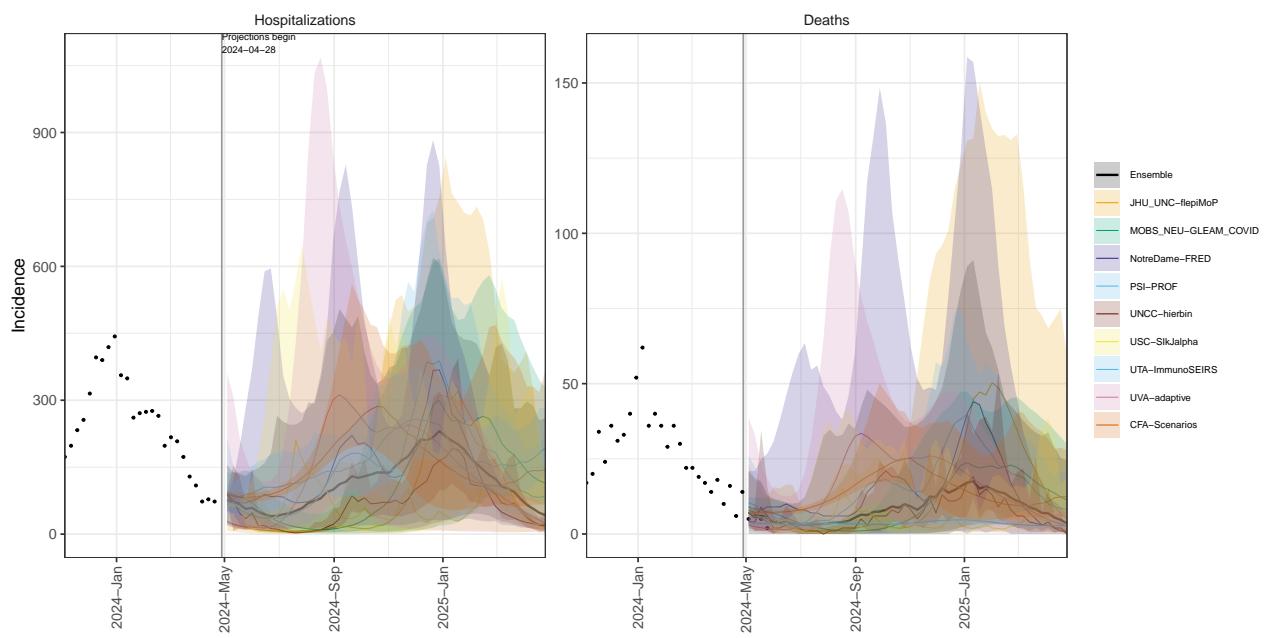
ND model variance & 95% projection intervals – Booster for all, Low immune escape



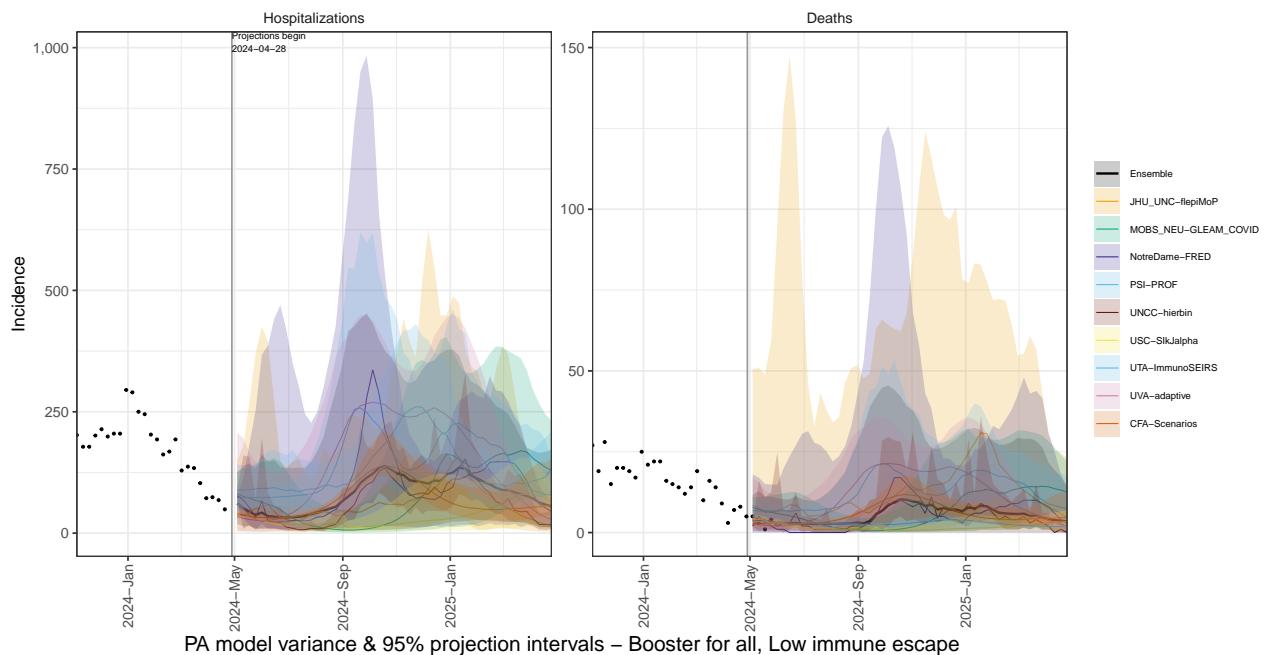
OH model variance & 95% projection intervals – Booster for all, Low immune escape



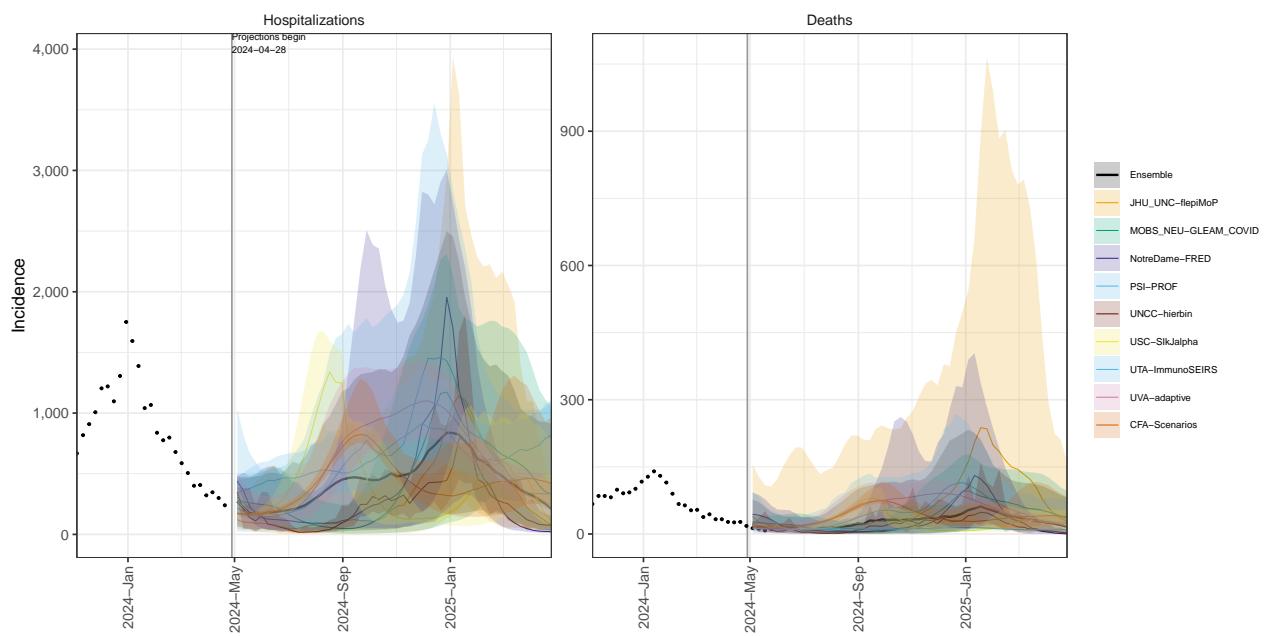
OK model variance & 95% projection intervals – Booster for all, Low immune escape



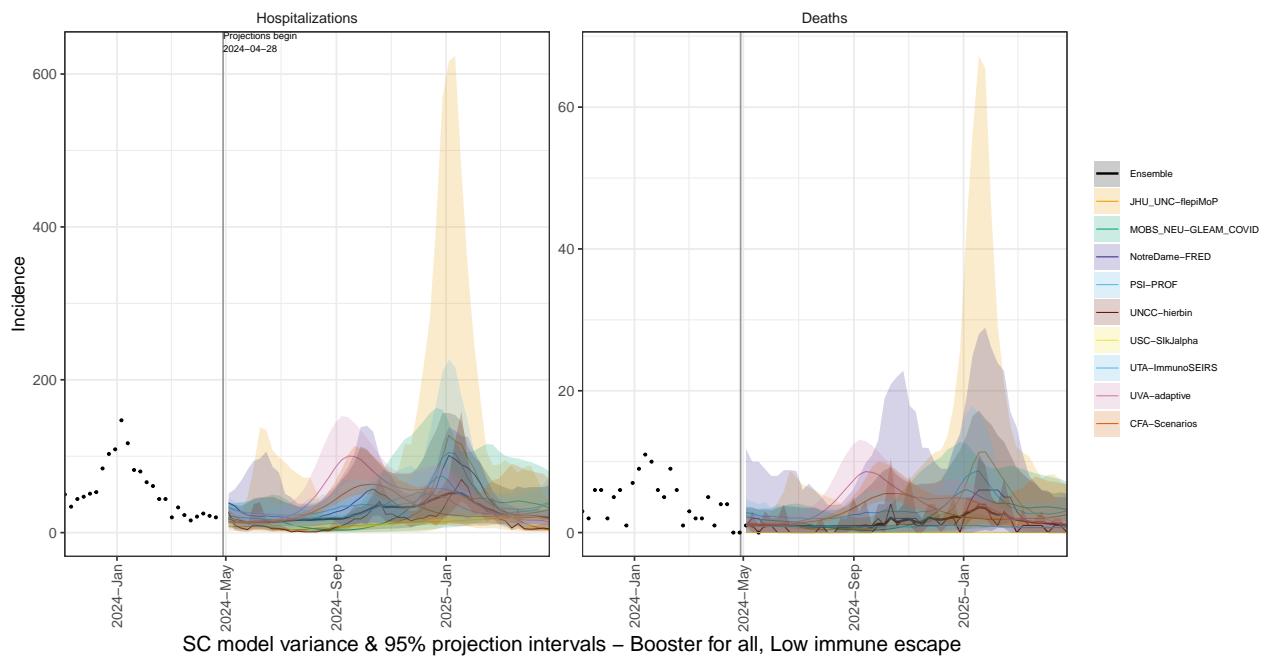
OR model variance & 95% projection intervals – Booster for all, Low immune escape



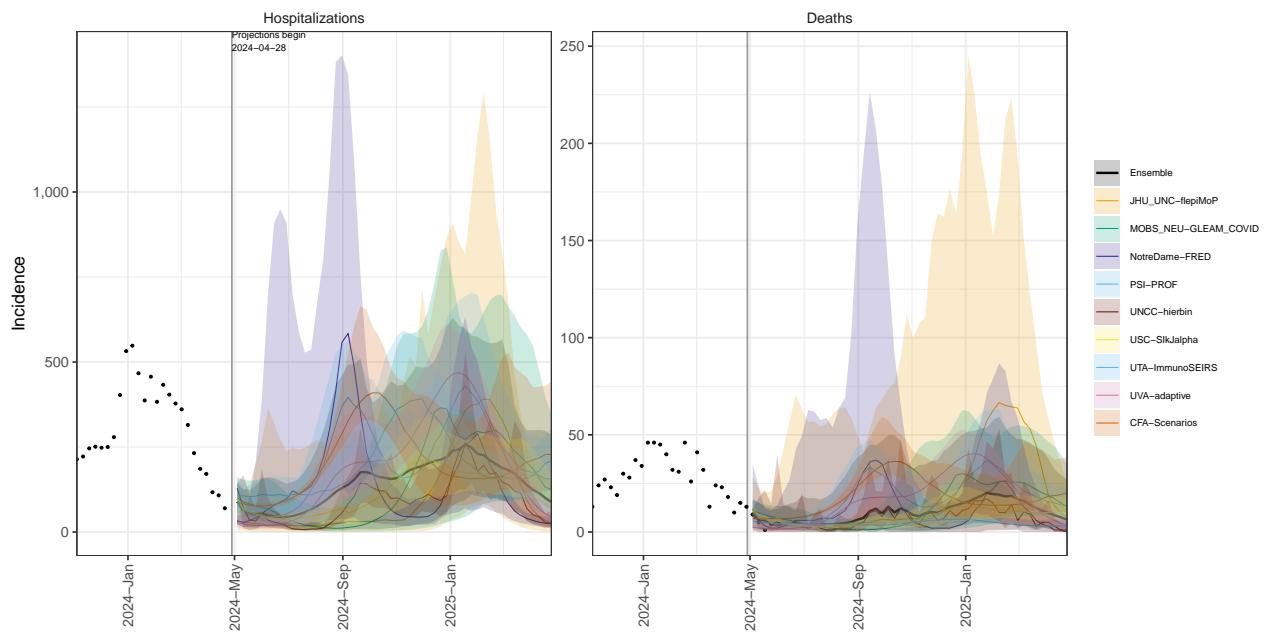
PA model variance & 95% projection intervals – Booster for all, Low immune escape



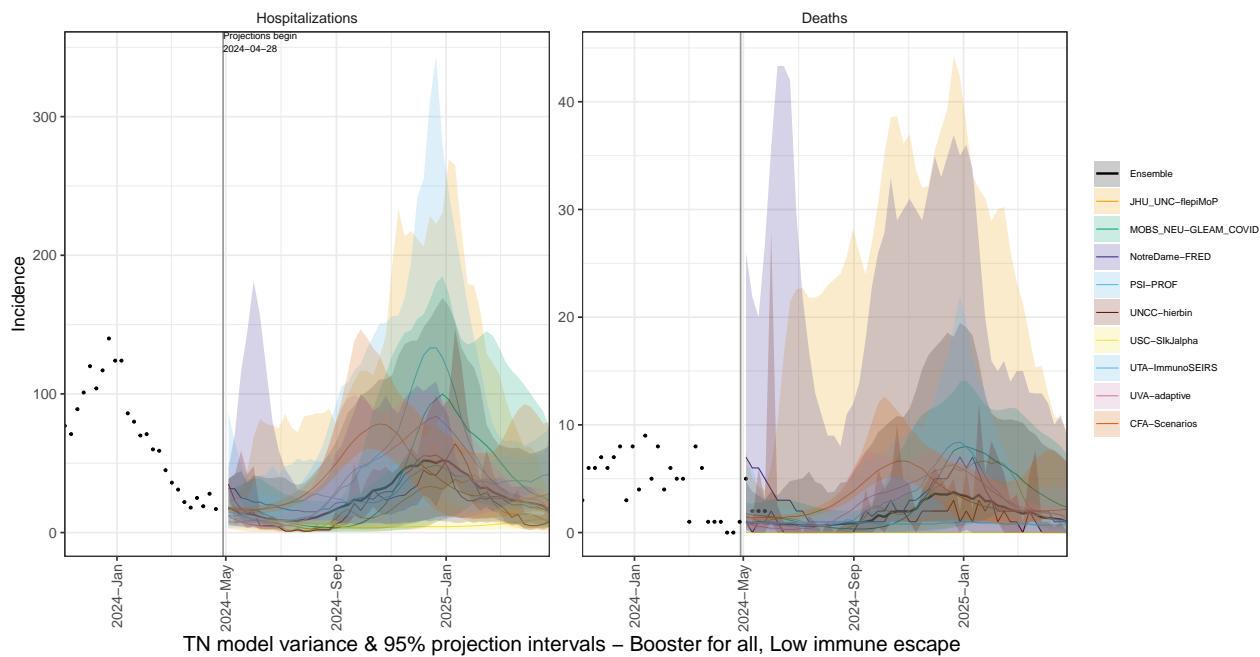
RI model variance & 95% projection intervals – Booster for all, Low immune escape



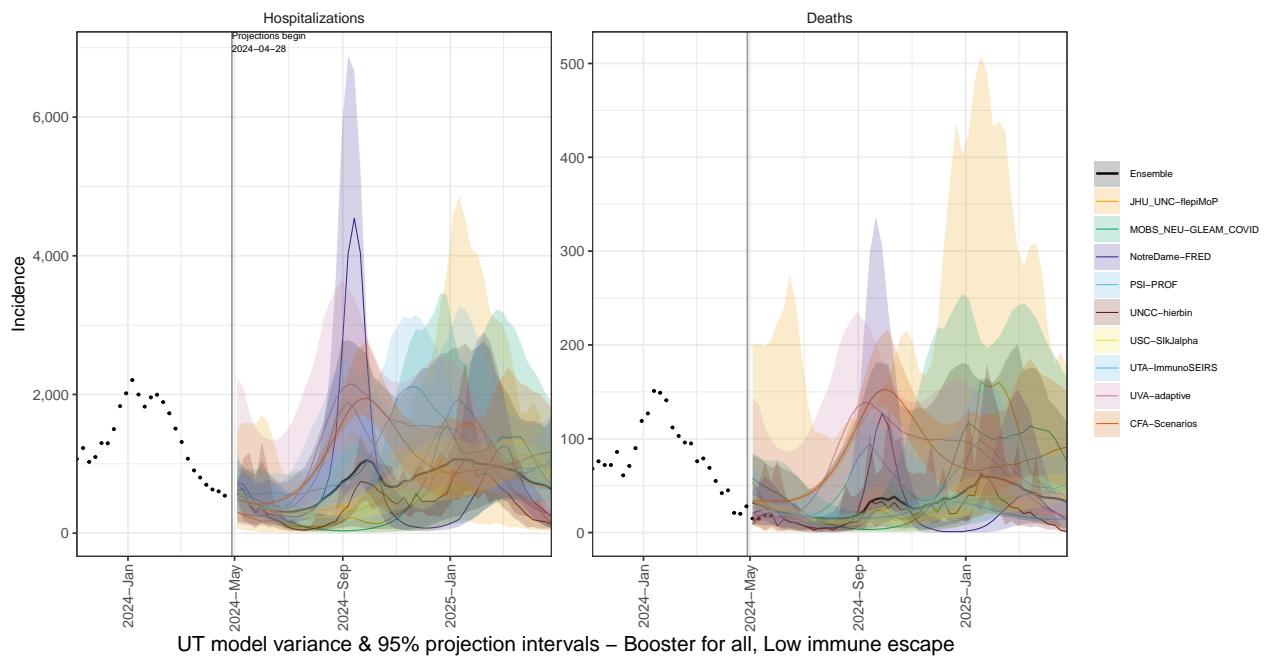
SC model variance & 95% projection intervals – Booster for all, Low immune escape



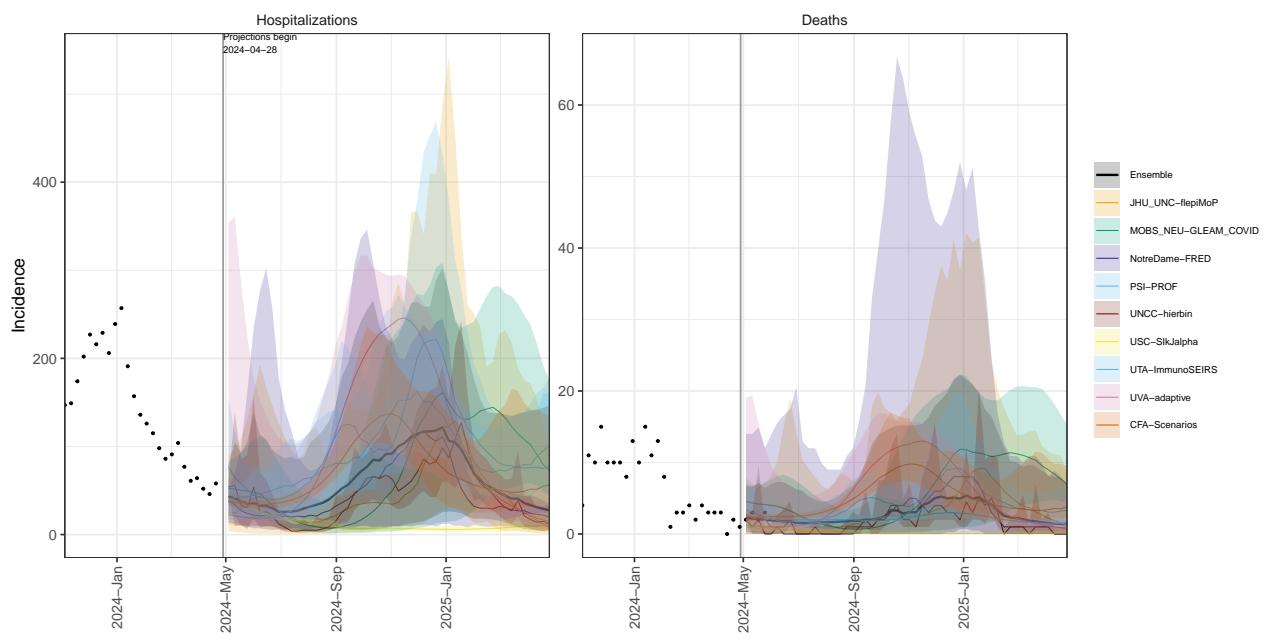
SD model variance & 95% projection intervals – Booster for all, Low immune escape



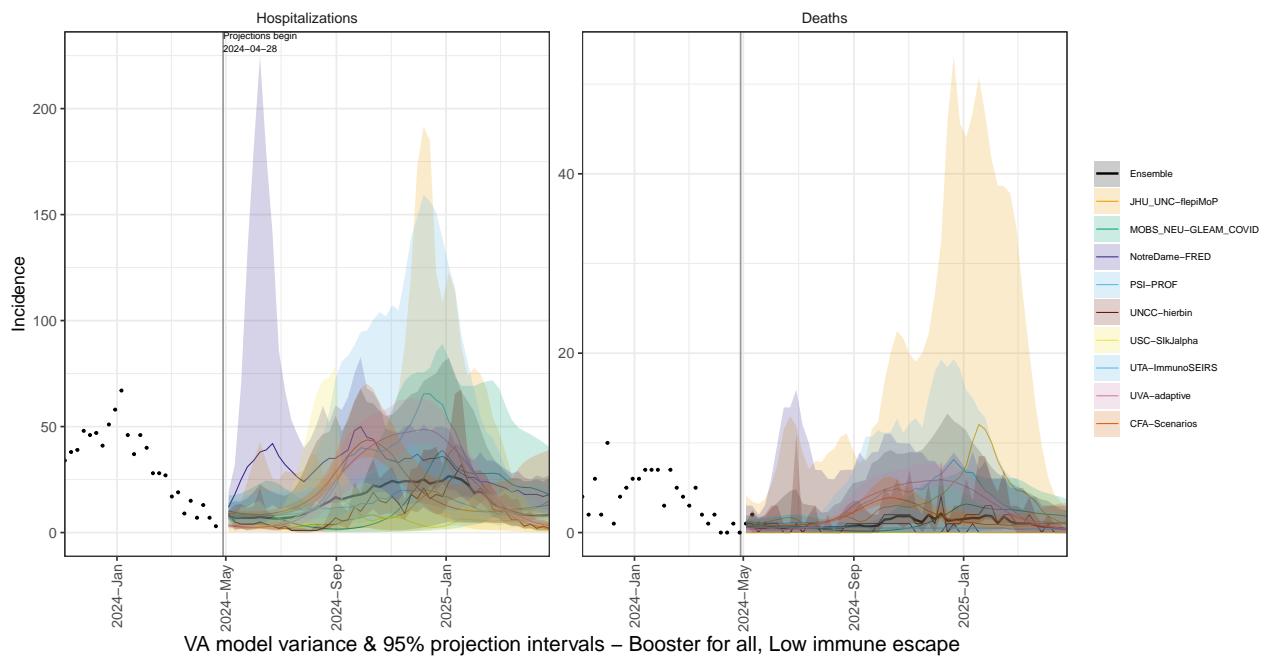
TX model variance & 95% projection intervals – Booster for all, Low immune escape



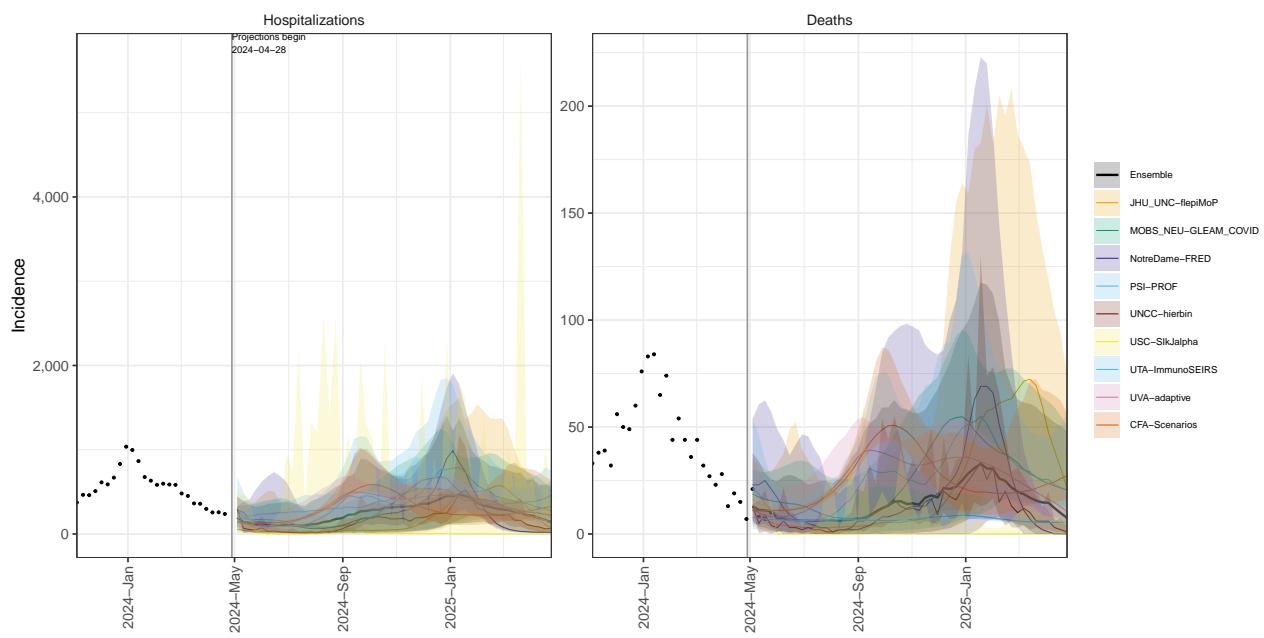
UT model variance & 95% projection intervals – Booster for all, Low immune escape



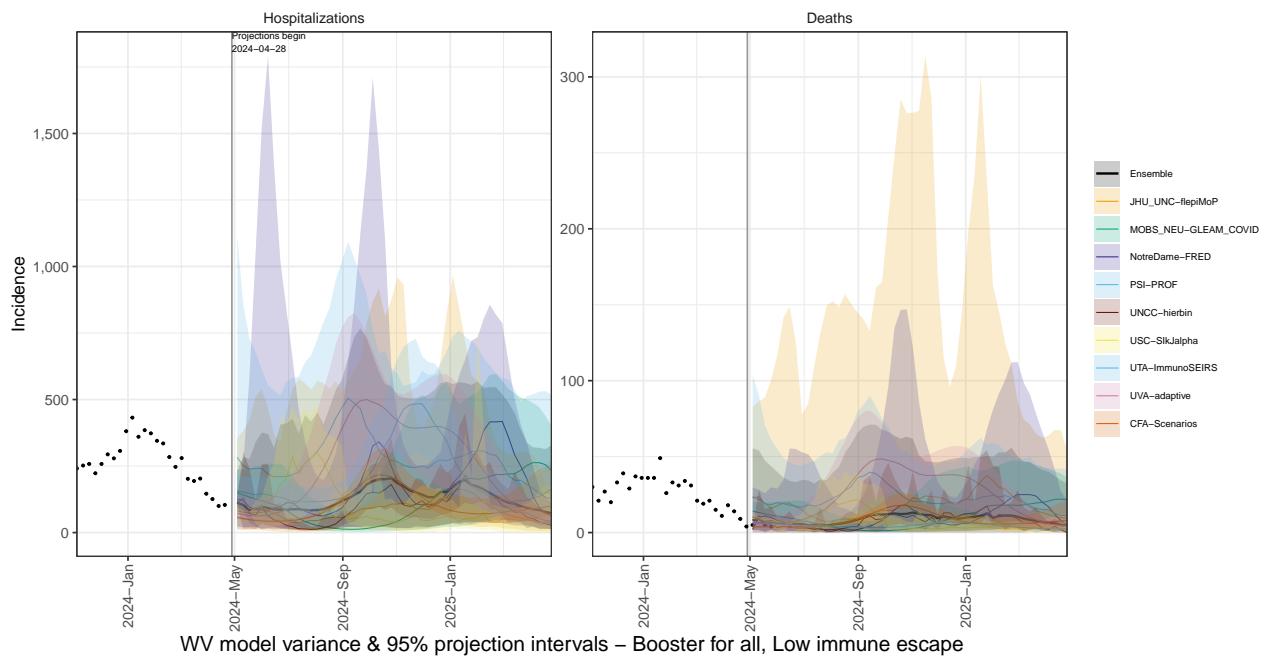
VT model variance & 95% projection intervals – Booster for all, Low immune escape



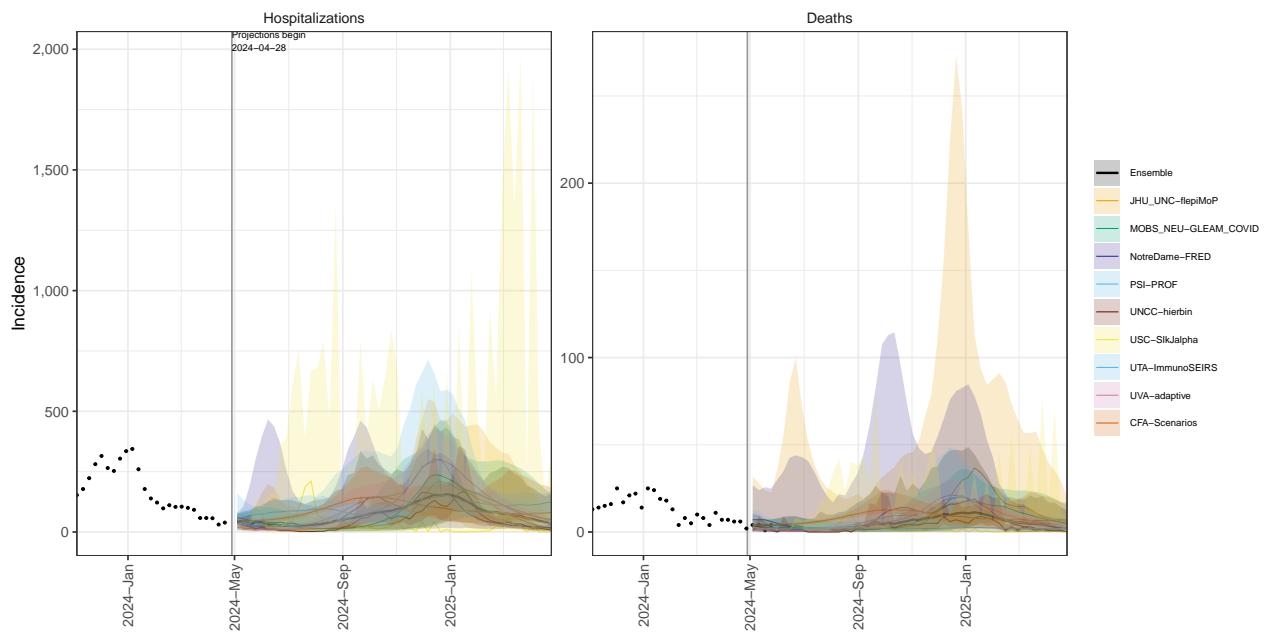
VA model variance & 95% projection intervals – Booster for all, Low immune escape



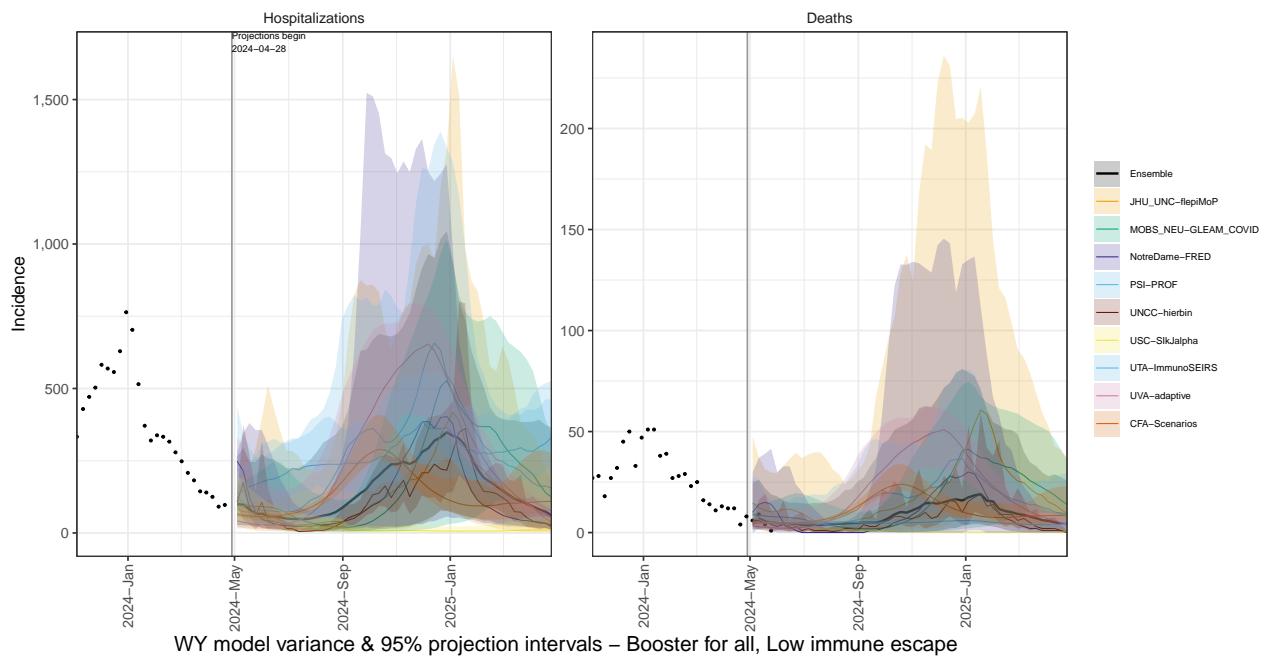
WA model variance & 95% projection intervals – Booster for all, Low immune escape



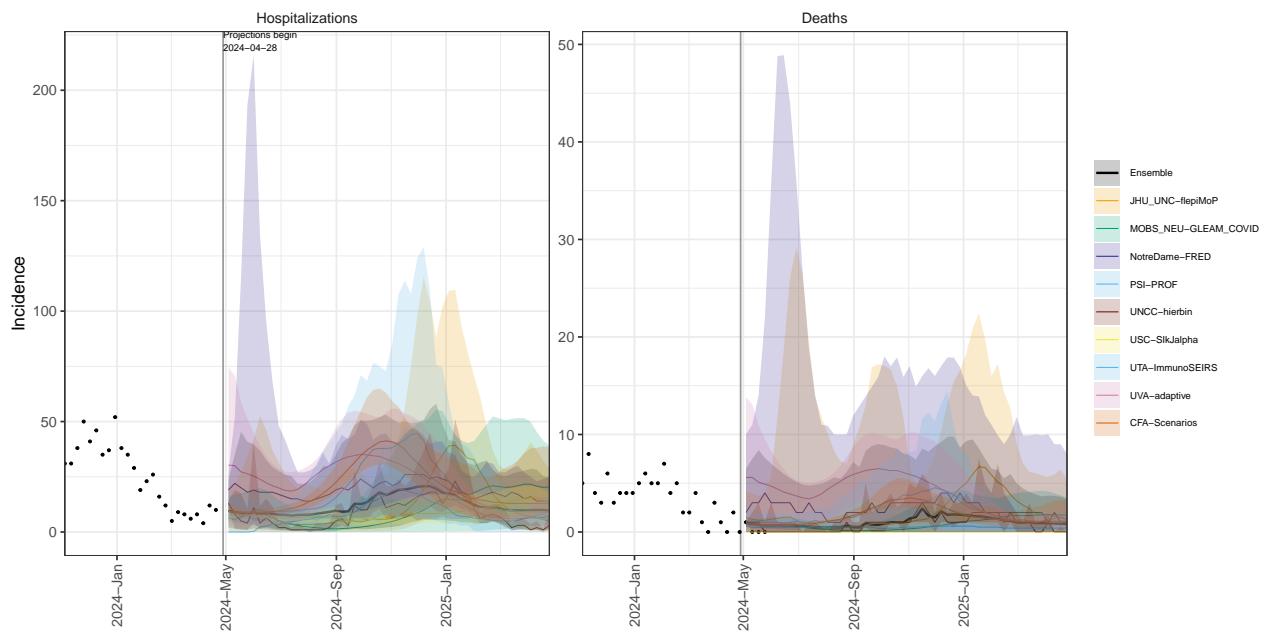
WV model variance & 95% projection intervals – Booster for all, Low immune escape



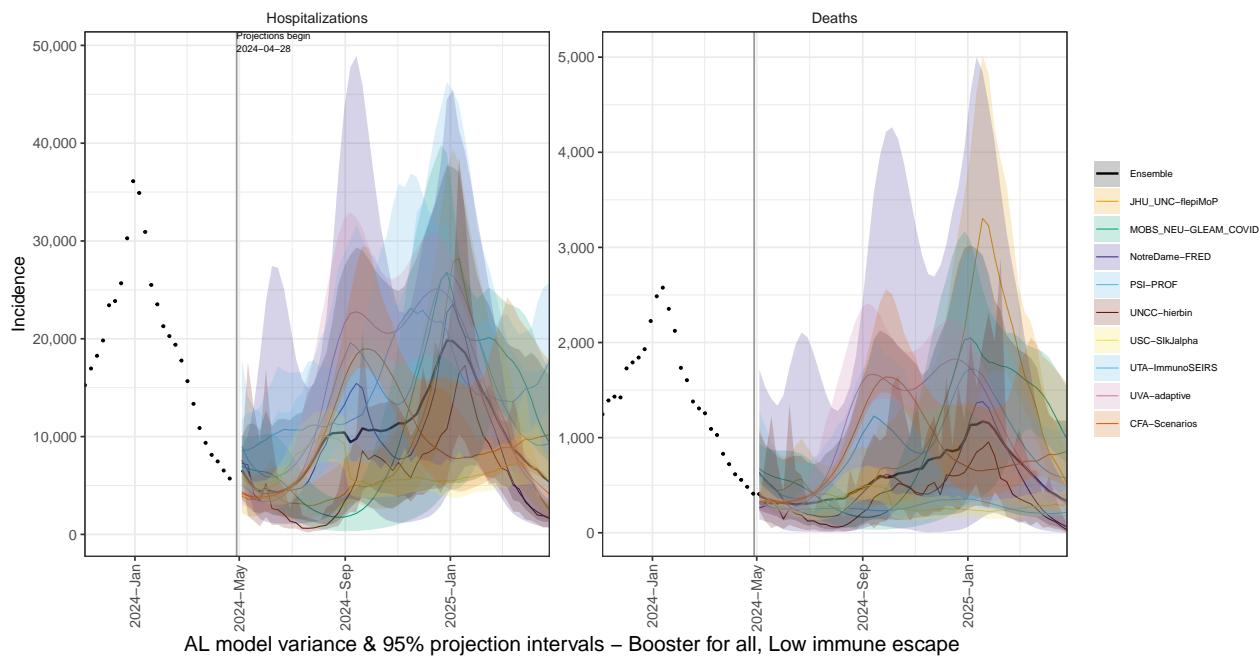
WI model variance & 95% projection intervals – Booster for all, Low immune escape



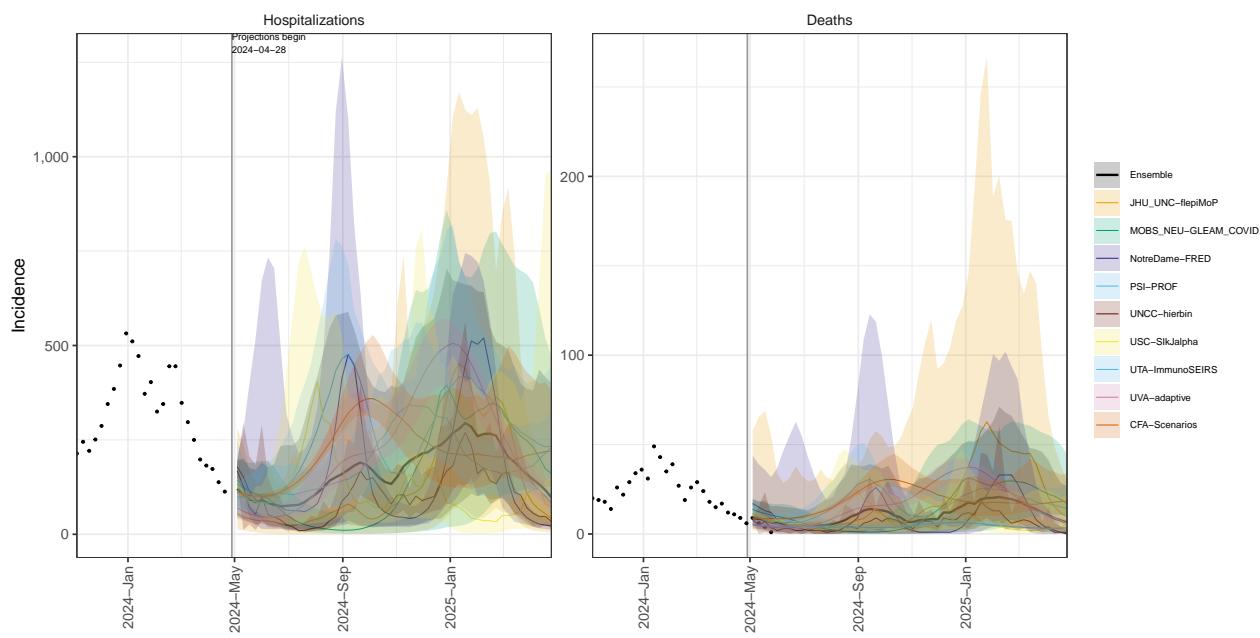
WY model variance & 95% projection intervals – Booster for all, Low immune escape



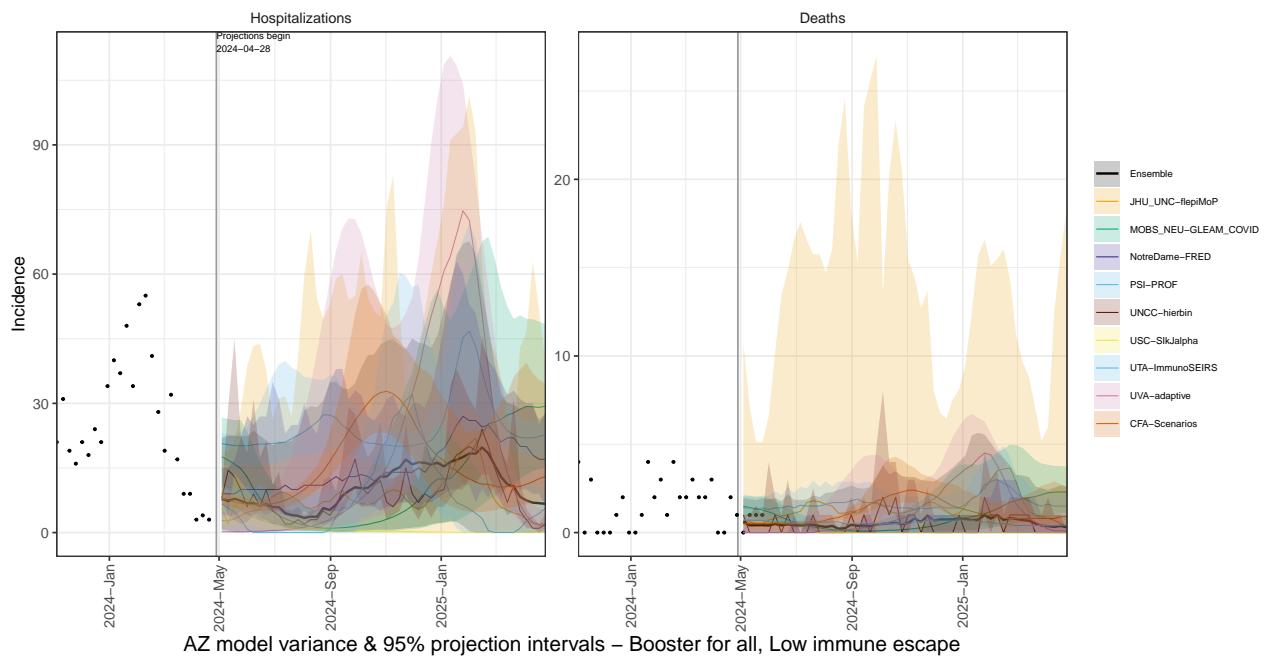
US model variance & 95% projection intervals – Booster for all, Low immune escape



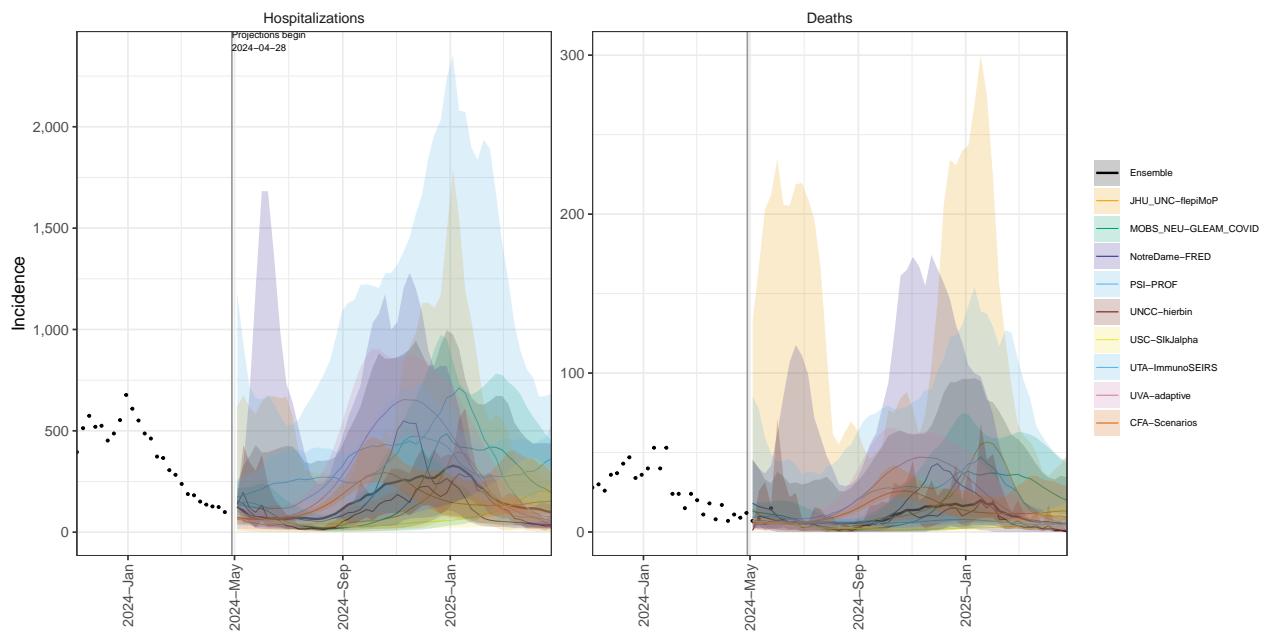
AL model variance & 95% projection intervals – Booster for all, Low immune escape



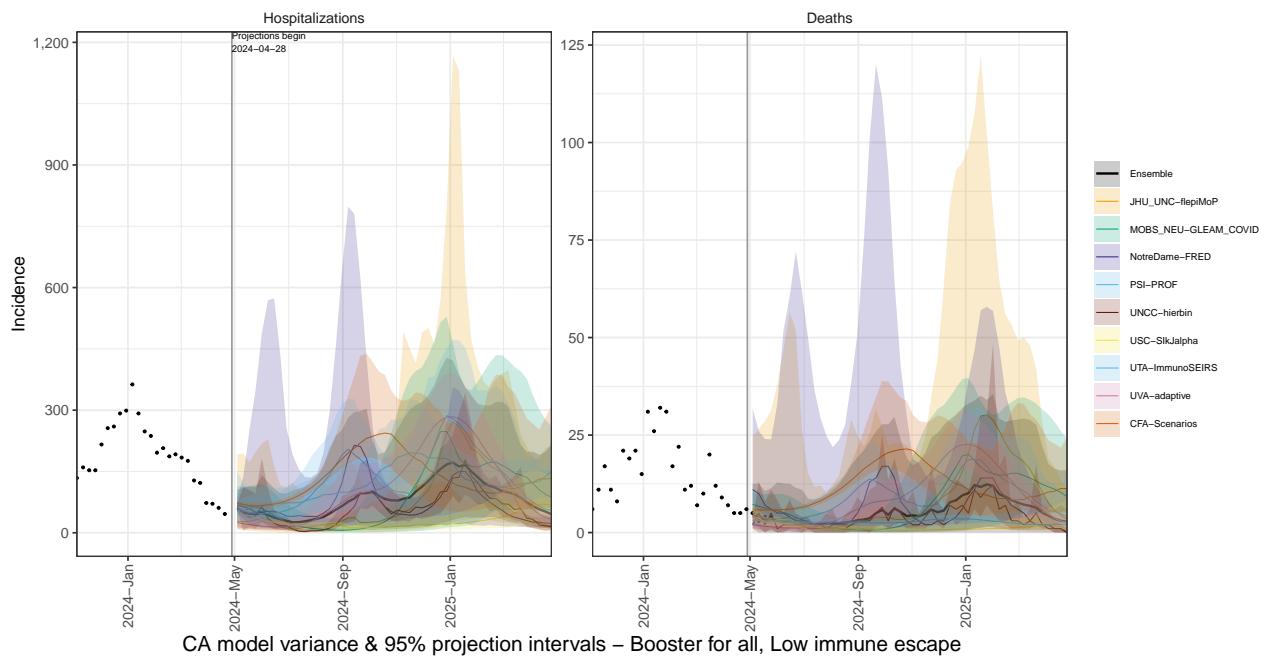
AK model variance & 95% projection intervals – Booster for all, Low immune escape



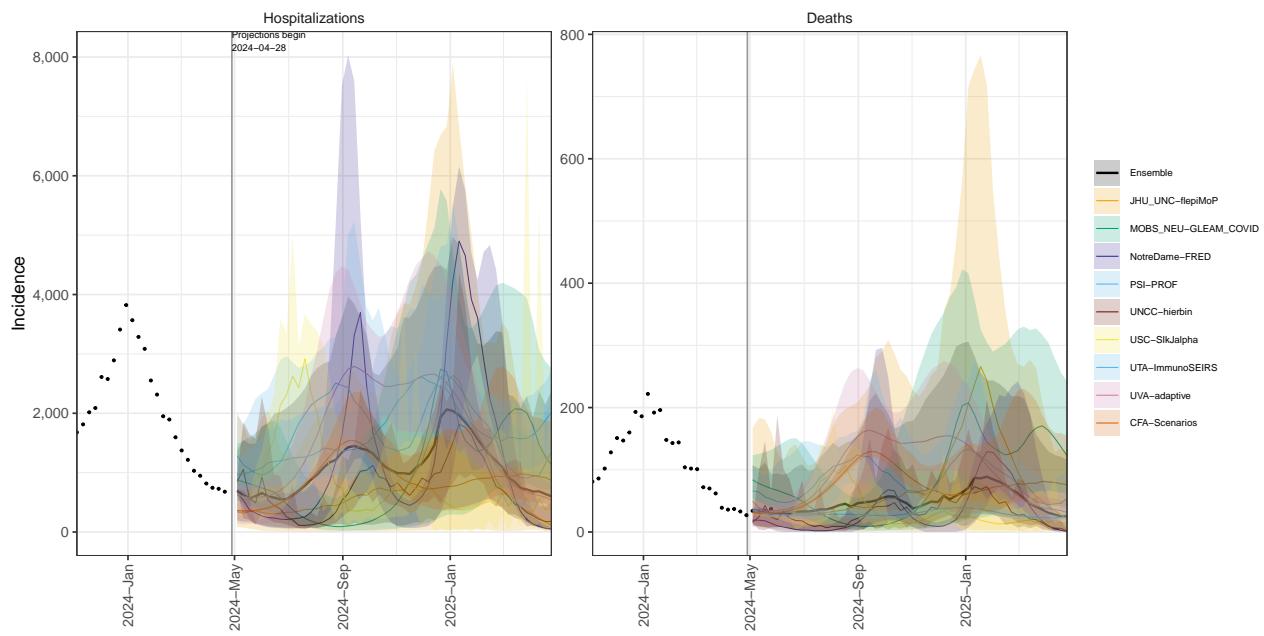
AZ model variance & 95% projection intervals – Booster for all, Low immune escape



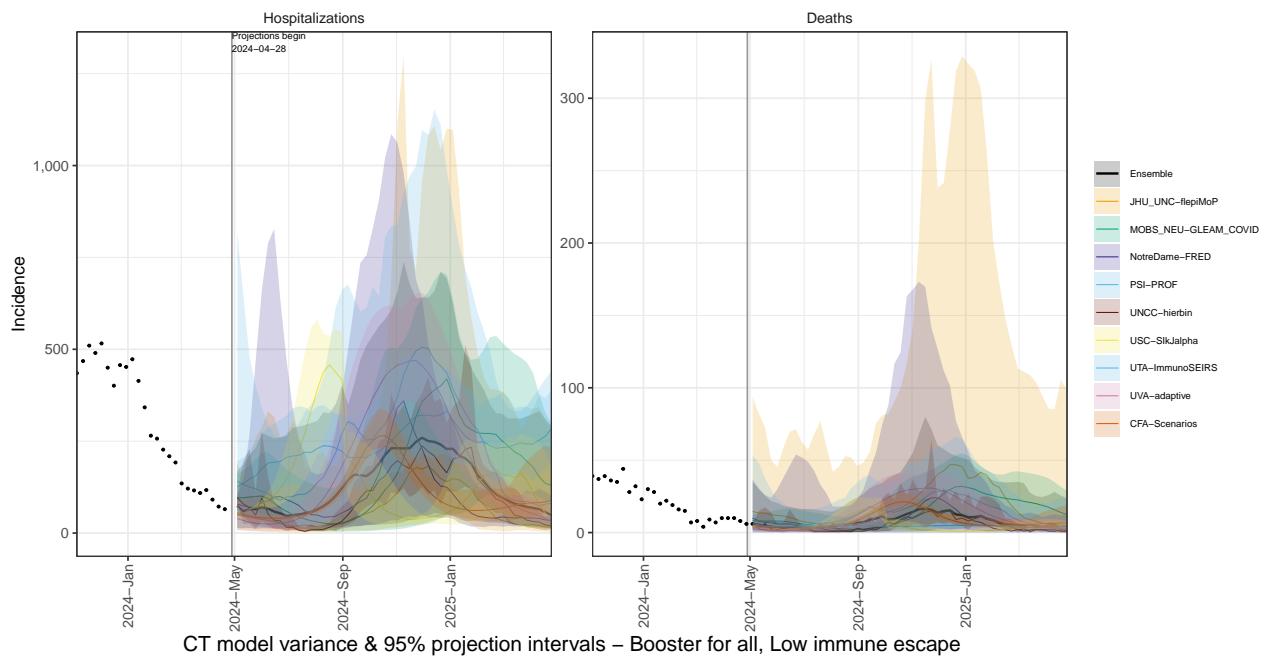
AR model variance & 95% projection intervals – Booster for all, Low immune escape



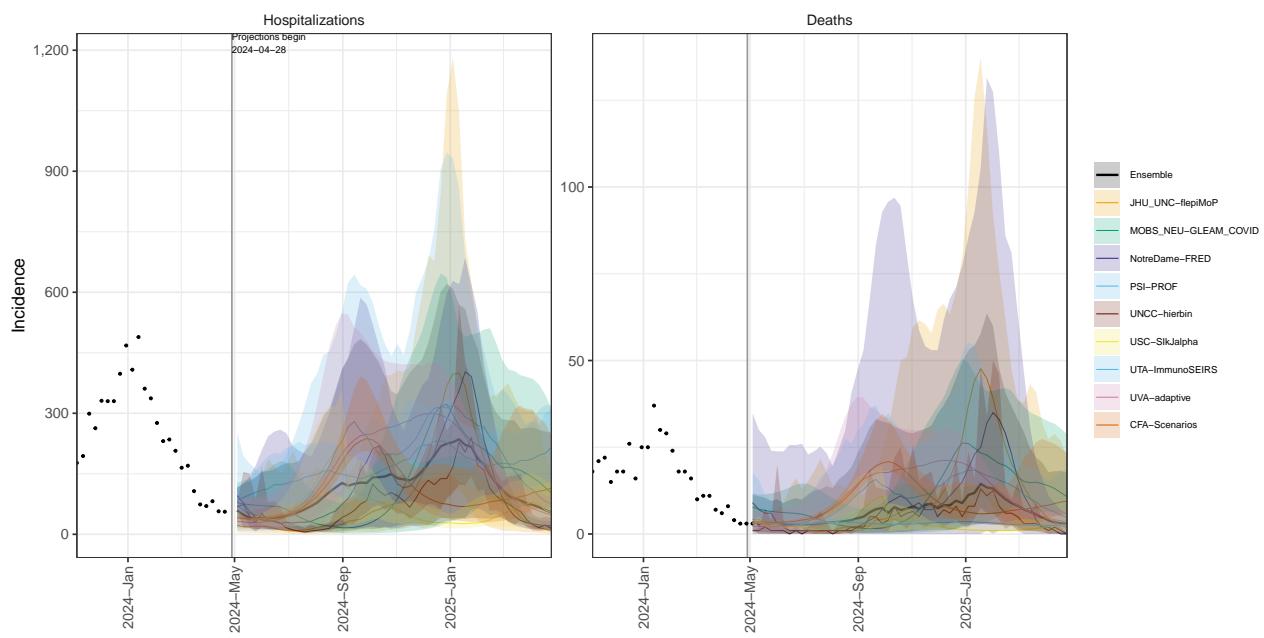
CA model variance & 95% projection intervals – Booster for all, Low immune escape



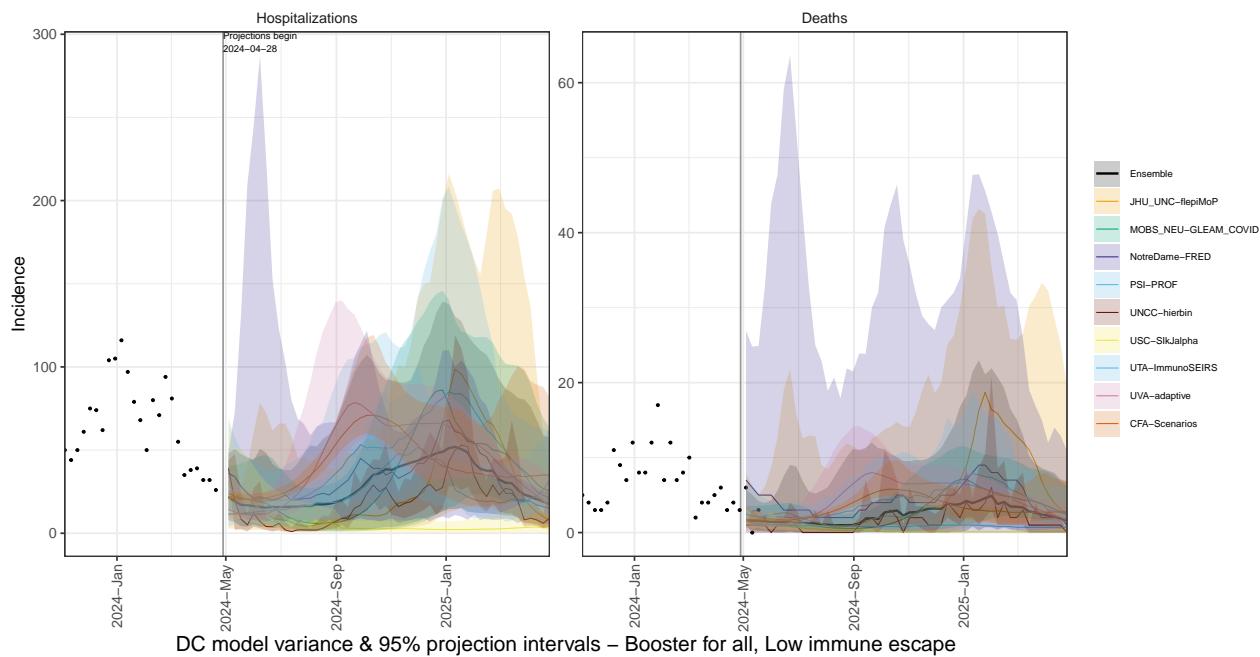
CO model variance & 95% projection intervals – Booster for all, Low immune escape



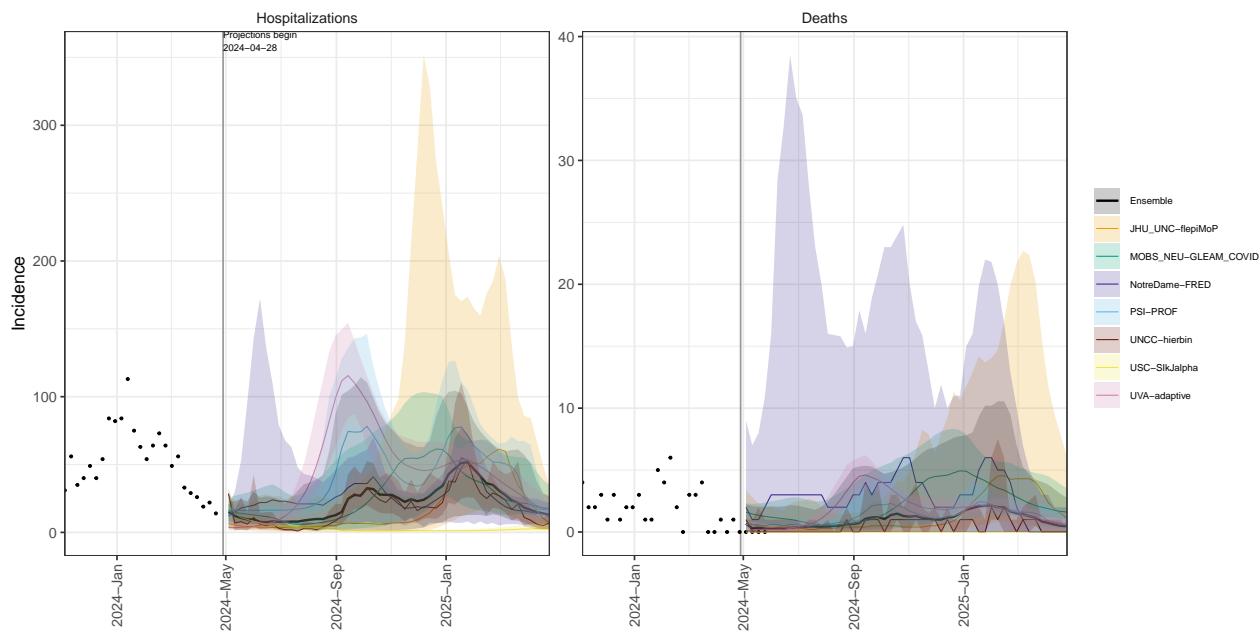
CT model variance & 95% projection intervals – Booster for all, Low immune escape



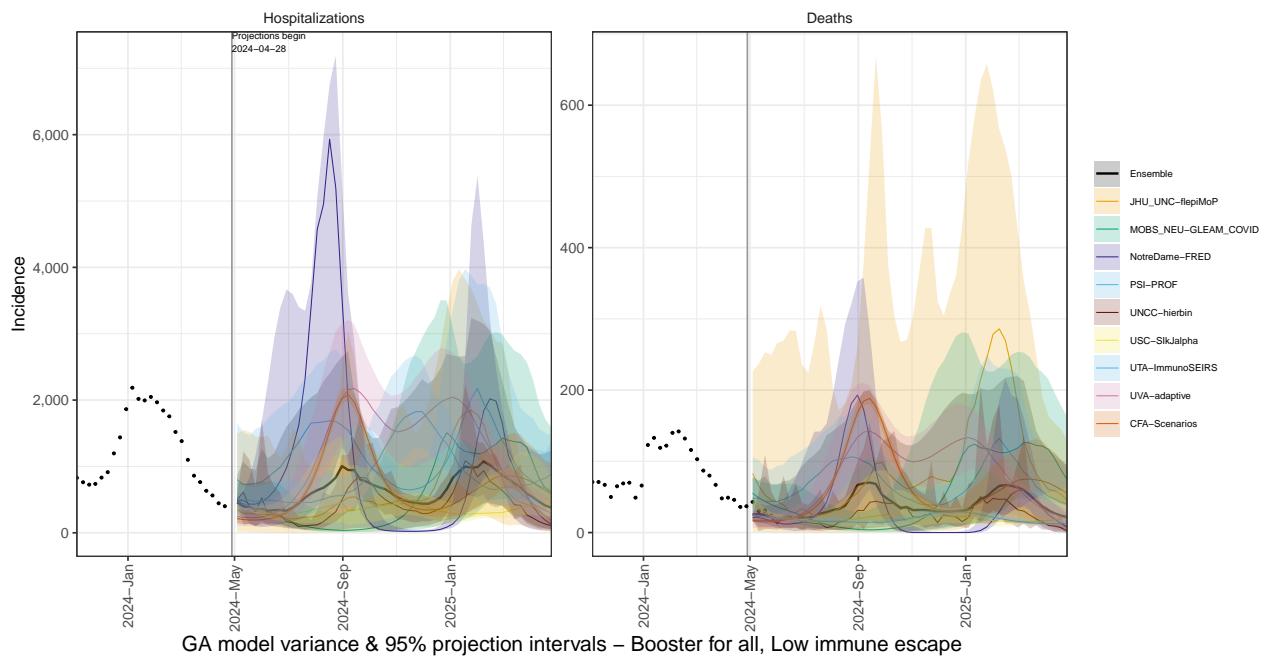
DE model variance & 95% projection intervals – Booster for all, Low immune escape



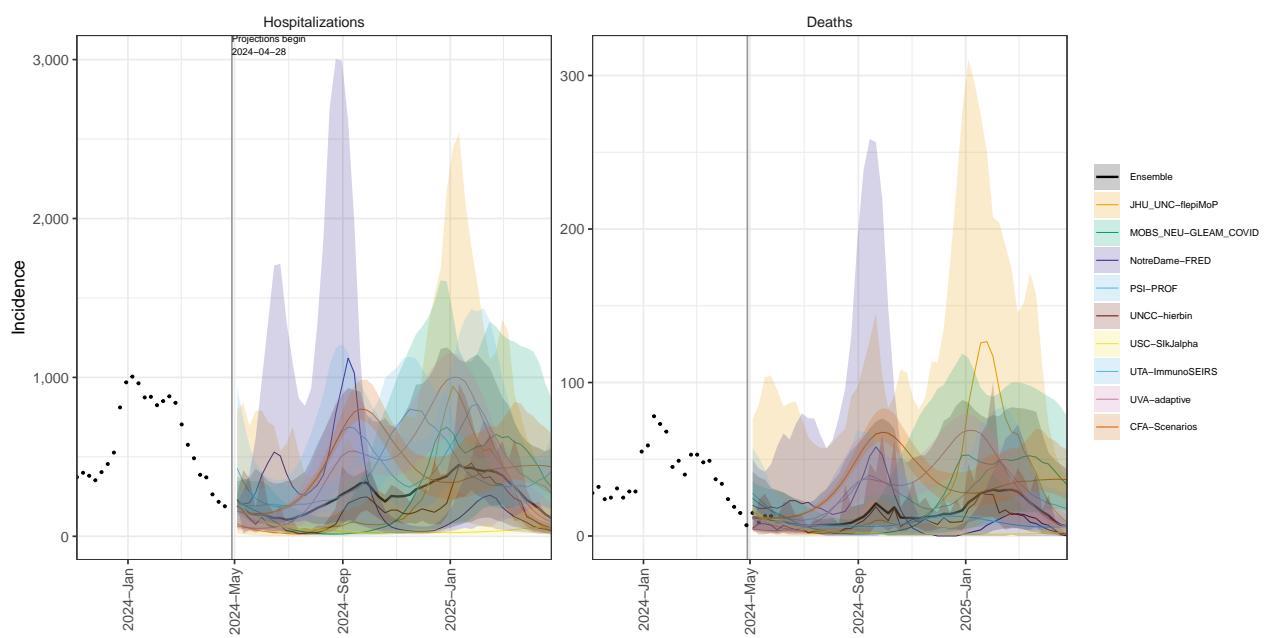
DC model variance & 95% projection intervals – Booster for all, Low immune escape



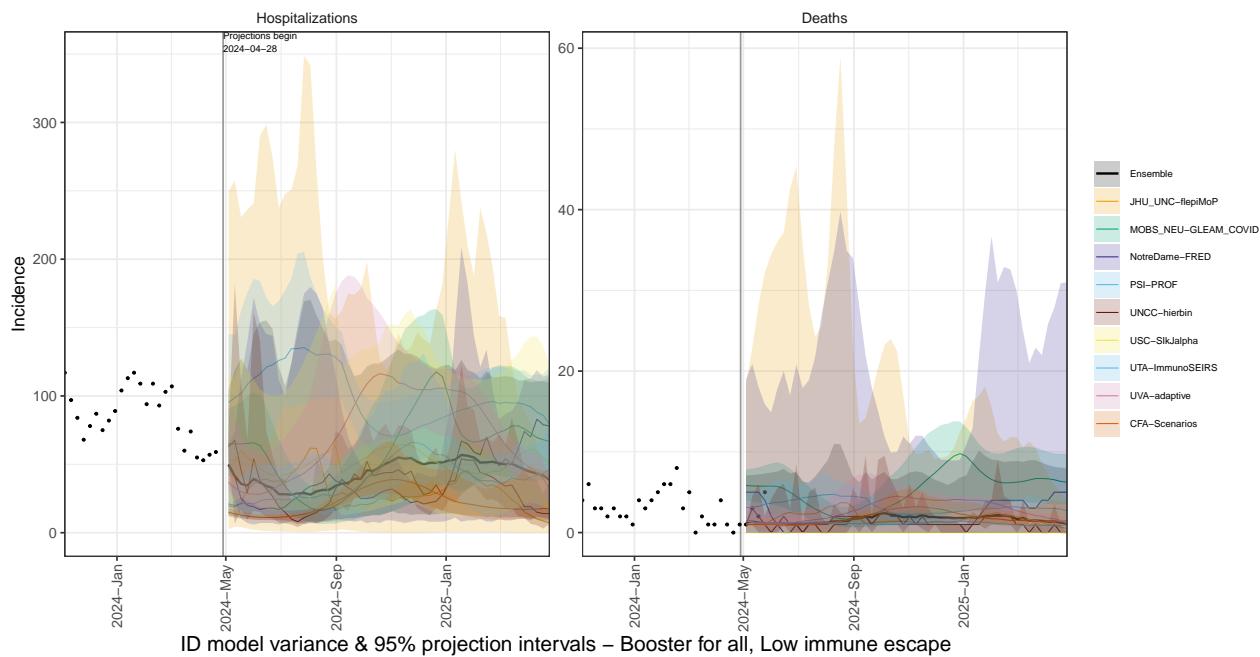
FL model variance & 95% projection intervals – Booster for all, Low immune escape



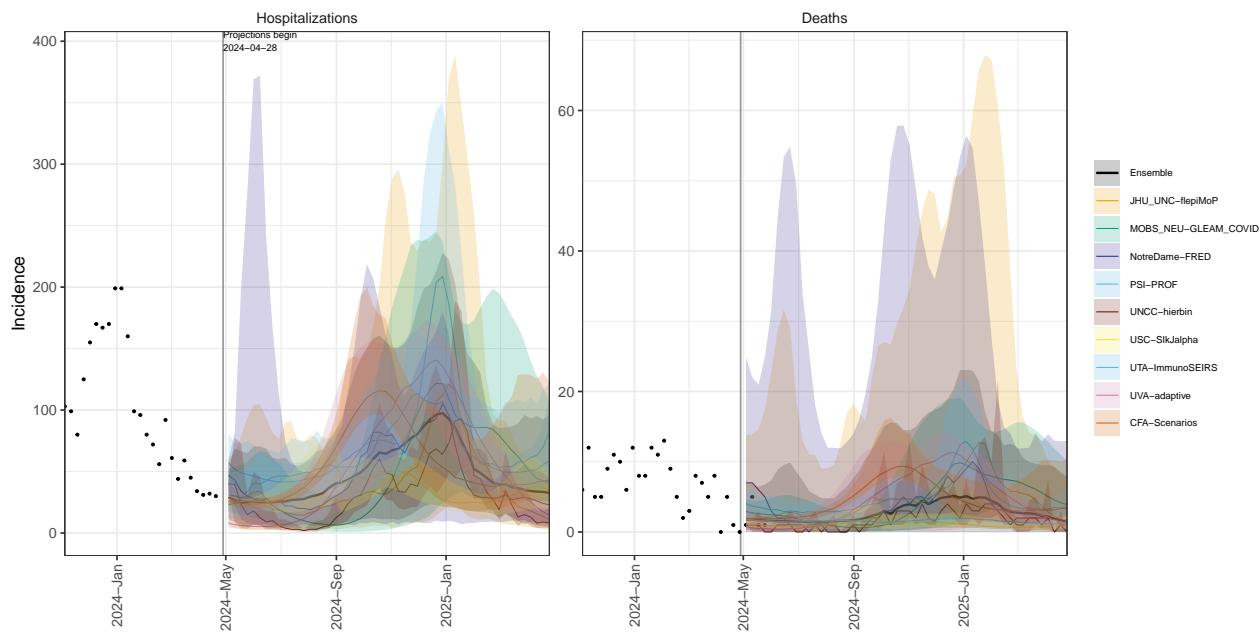
GA model variance & 95% projection intervals – Booster for all, Low immune escape



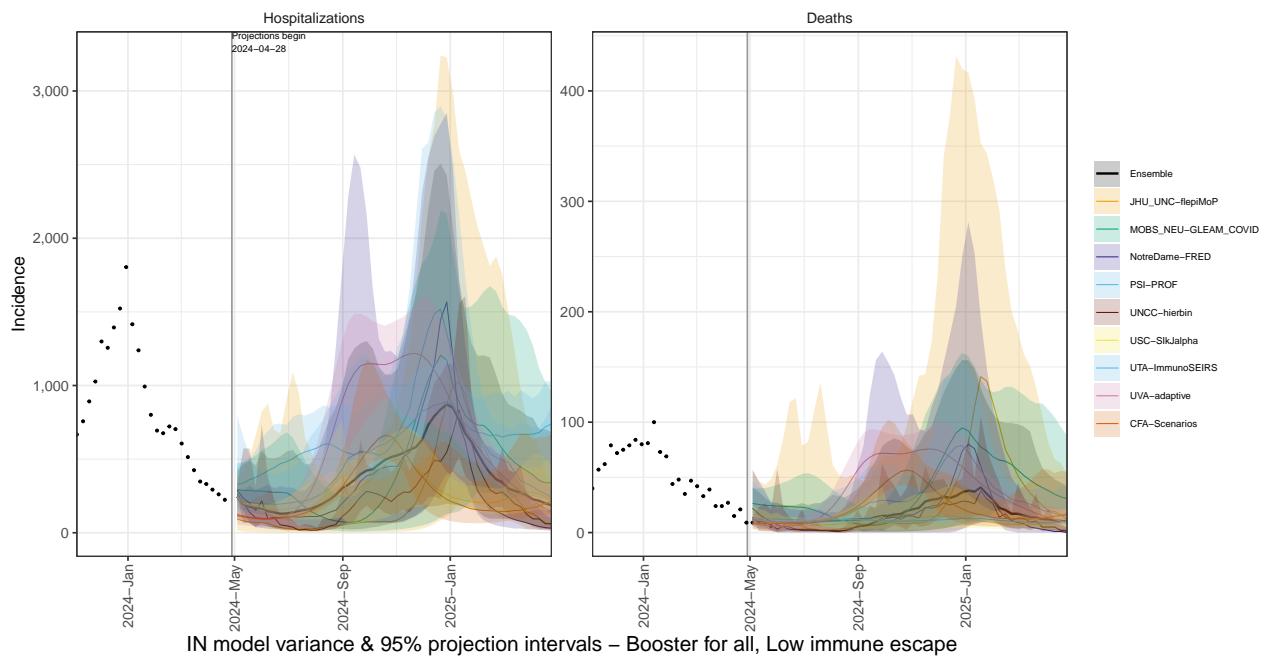
HI model variance & 95% projection intervals – Booster for all, Low immune escape



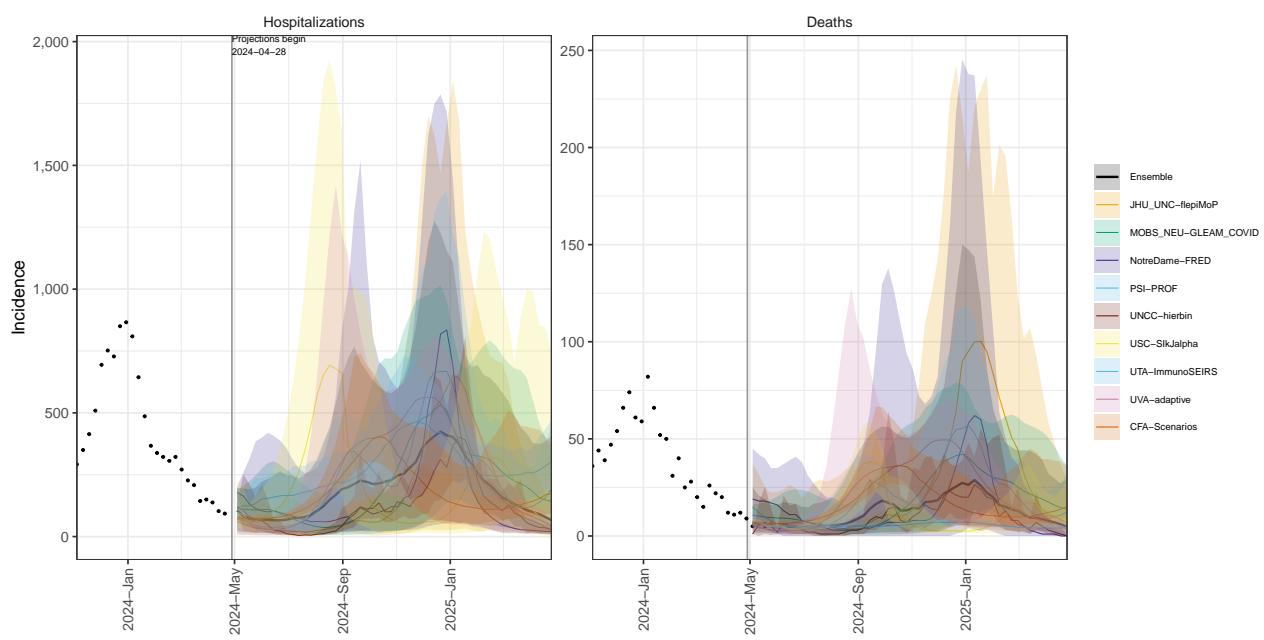
ID model variance & 95% projection intervals – Booster for all, Low immune escape



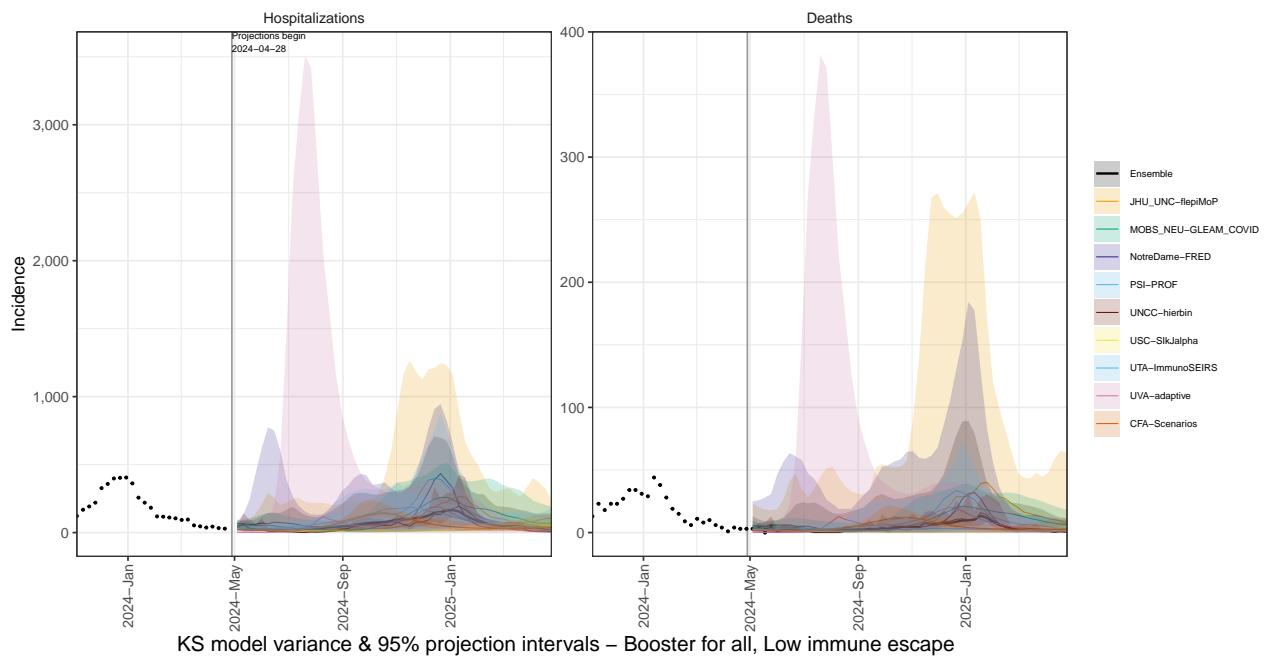
IL model variance & 95% projection intervals – Booster for all, Low immune escape



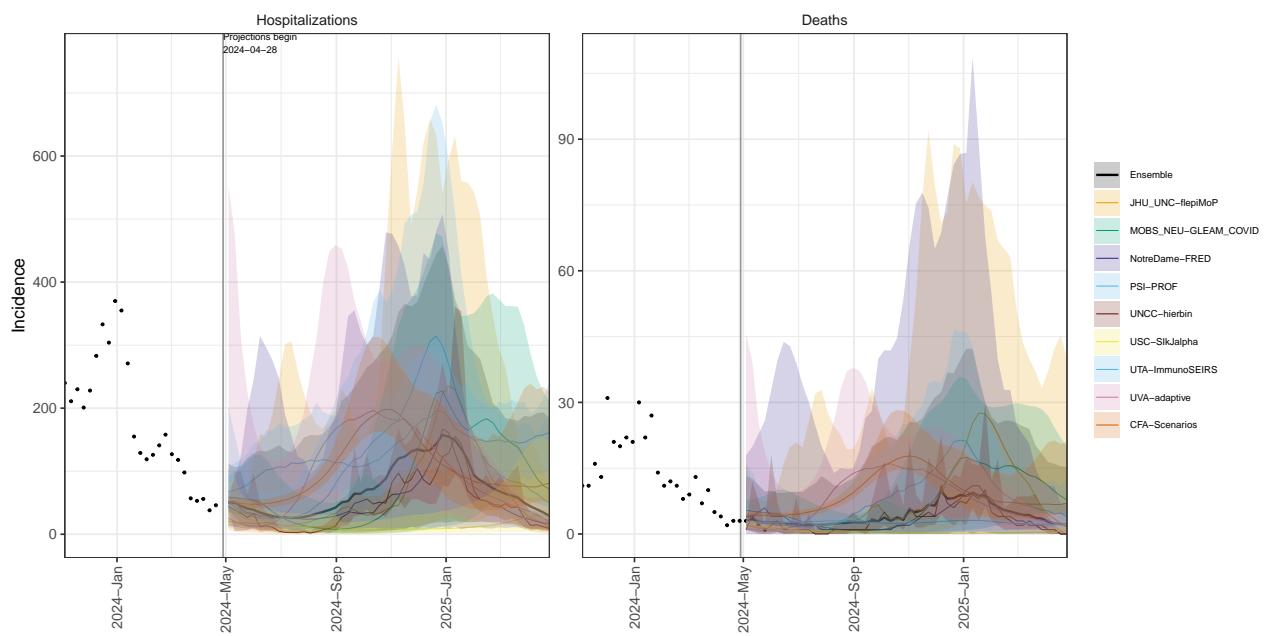
IN model variance & 95% projection intervals – Booster for all, Low immune escape



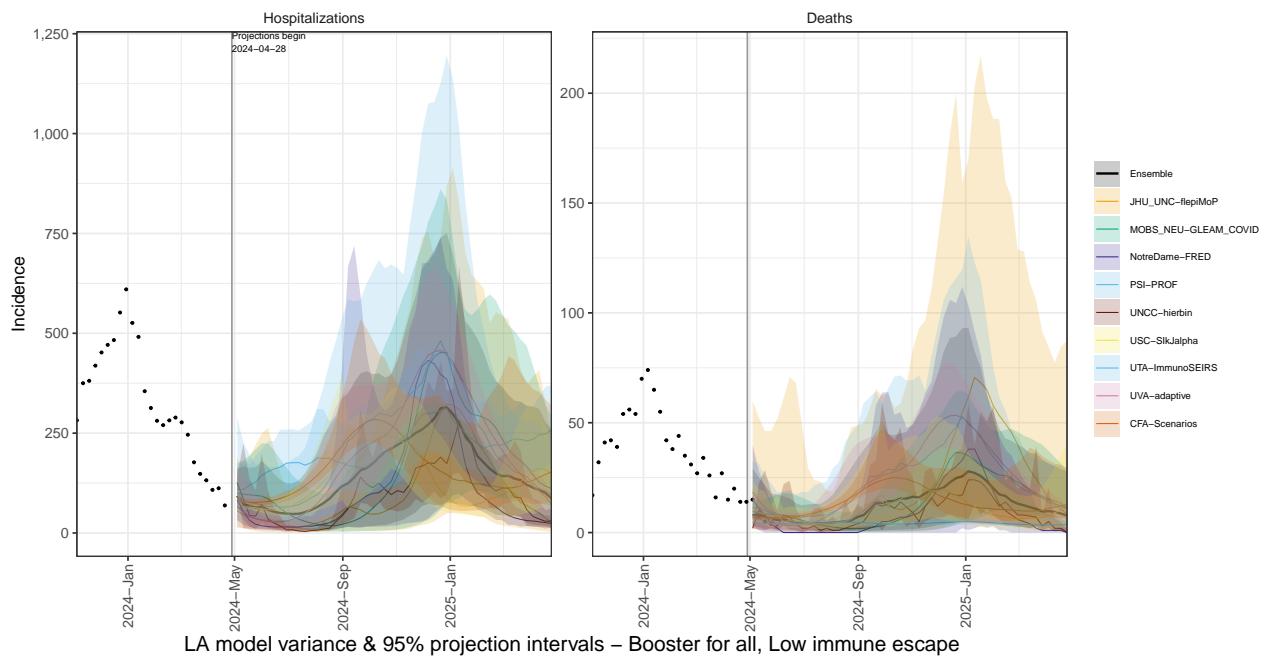
IA model variance & 95% projection intervals – Booster for all, Low immune escape



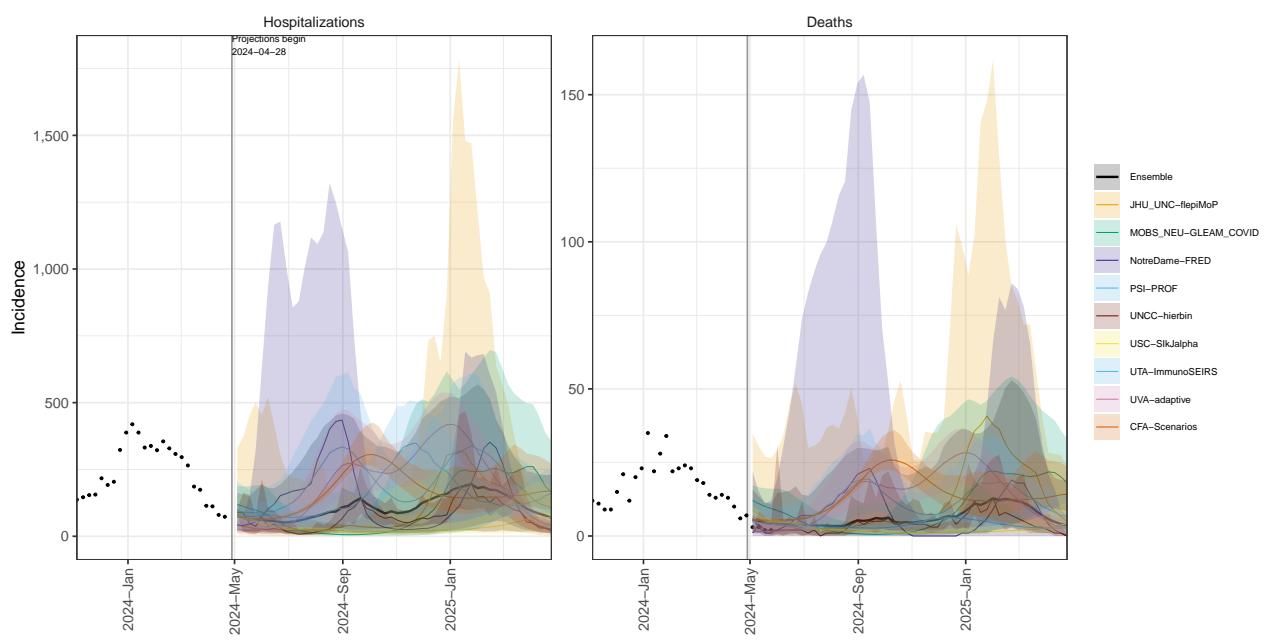
KS model variance & 95% projection intervals – Booster for all, Low immune escape



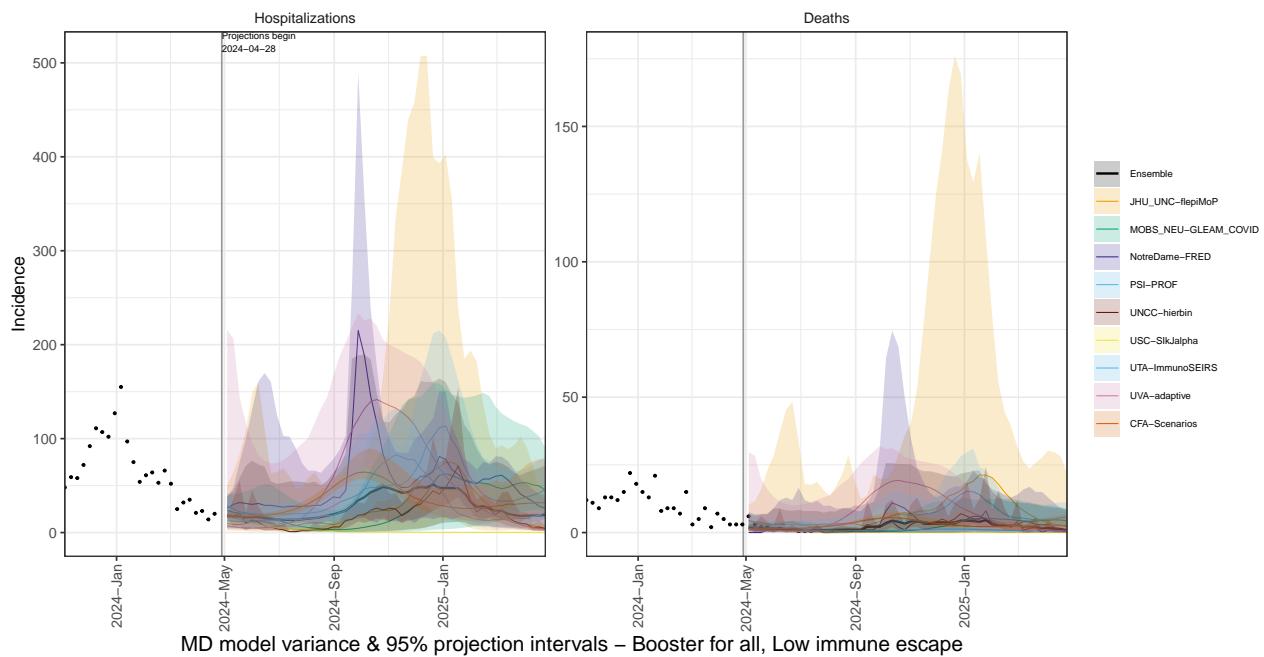
KY model variance & 95% projection intervals – Booster for all, Low immune escape



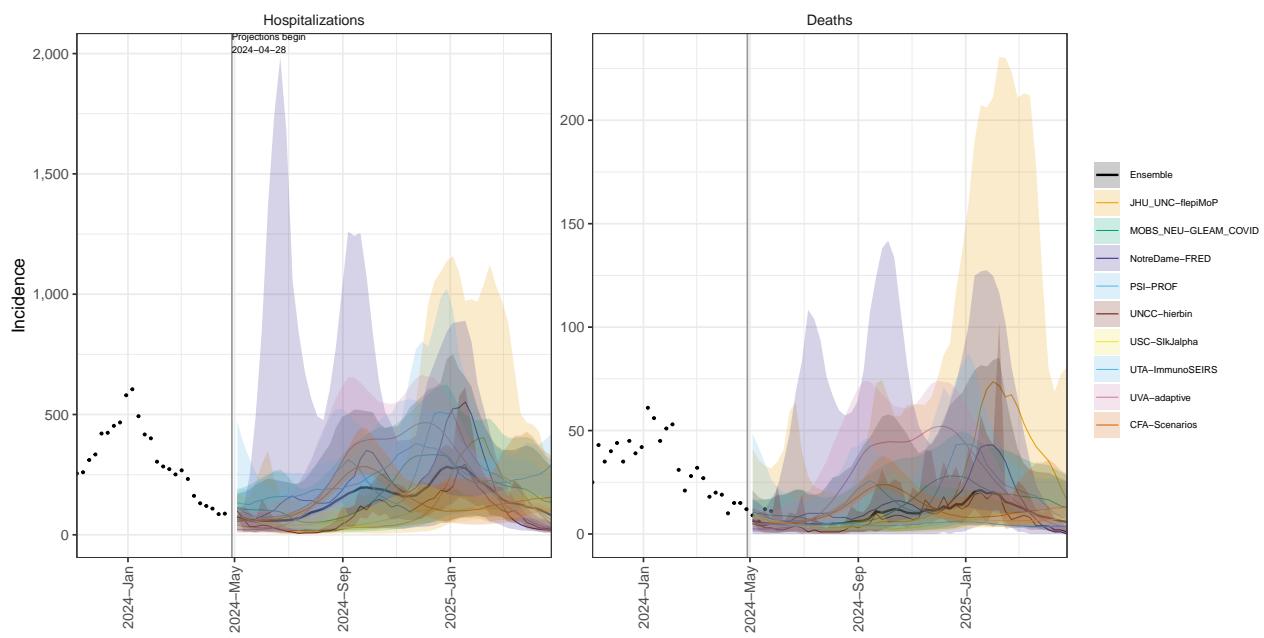
LA model variance & 95% projection intervals – Booster for all, Low immune escape



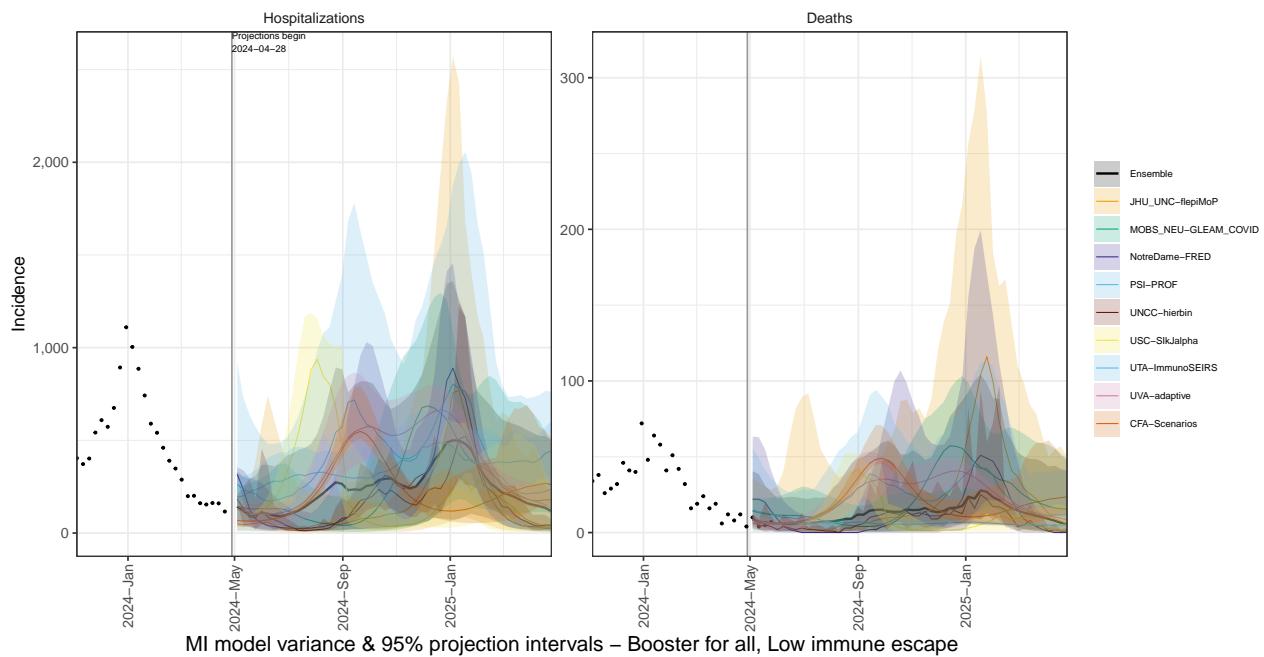
ME model variance & 95% projection intervals – Booster for all, Low immune escape



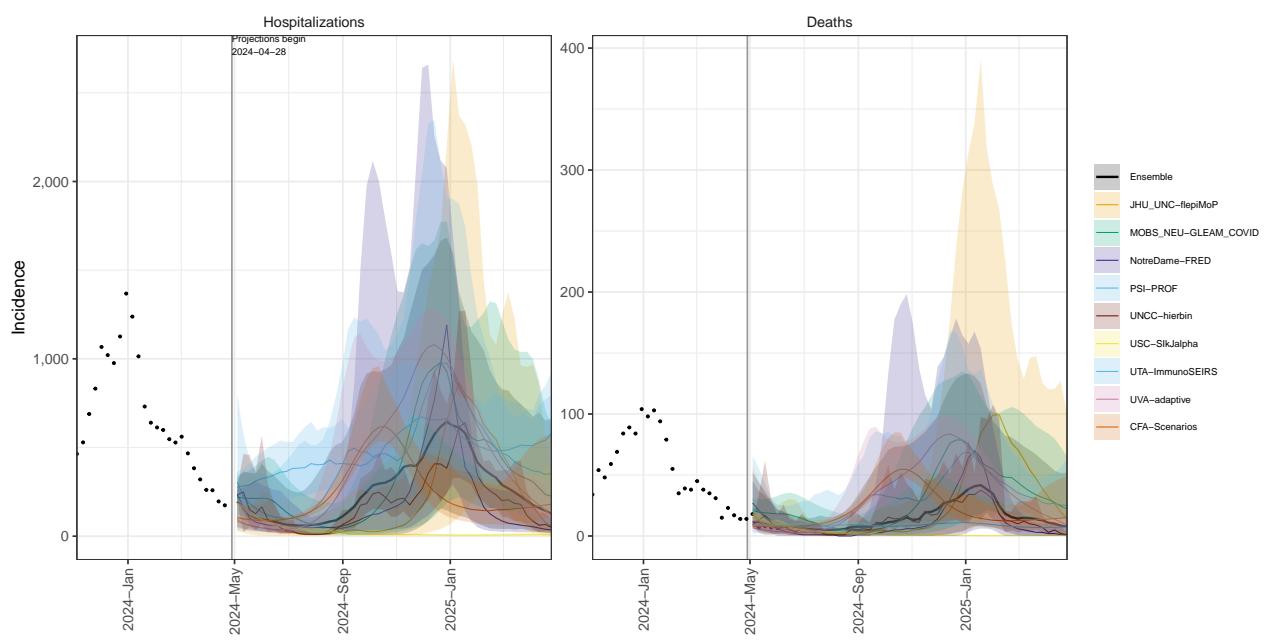
MD model variance & 95% projection intervals – Booster for all, Low immune escape



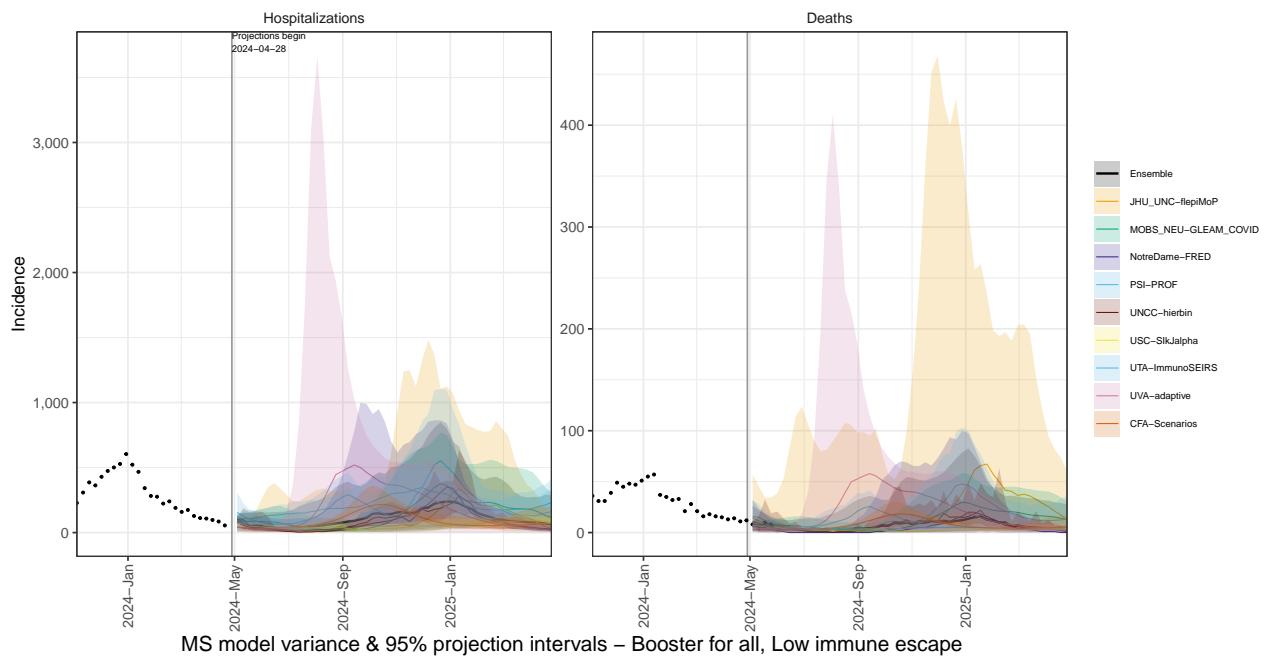
MA model variance & 95% projection intervals – Booster for all, Low immune escape



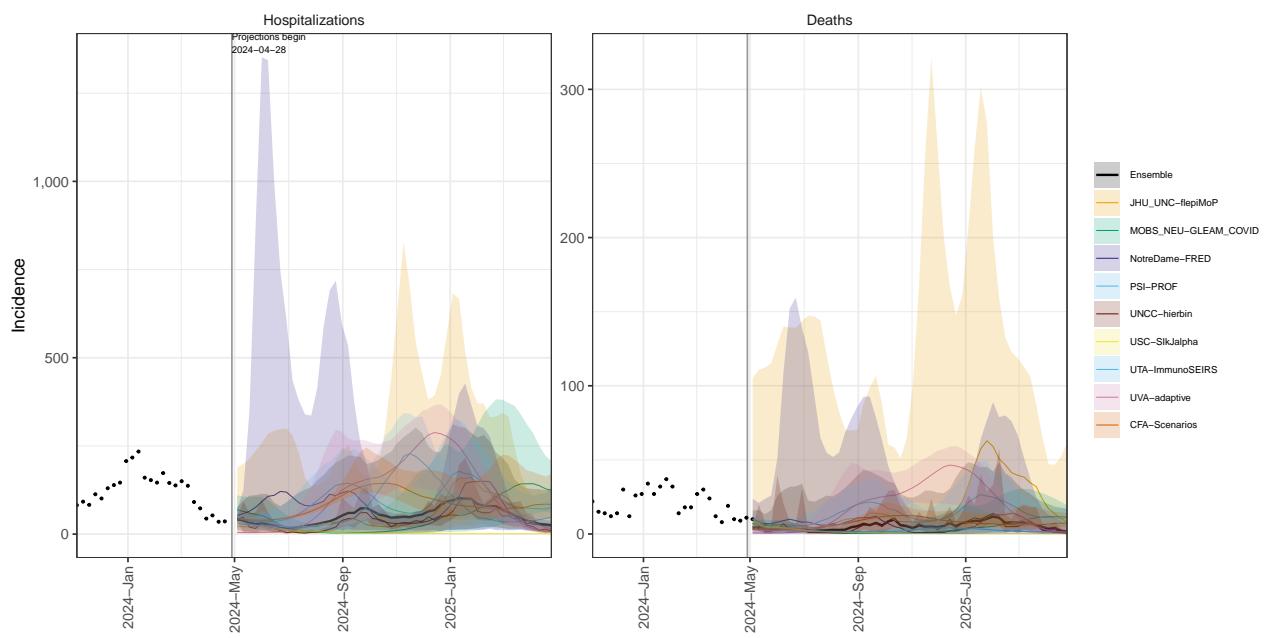
MI model variance & 95% projection intervals – Booster for all, Low immune escape



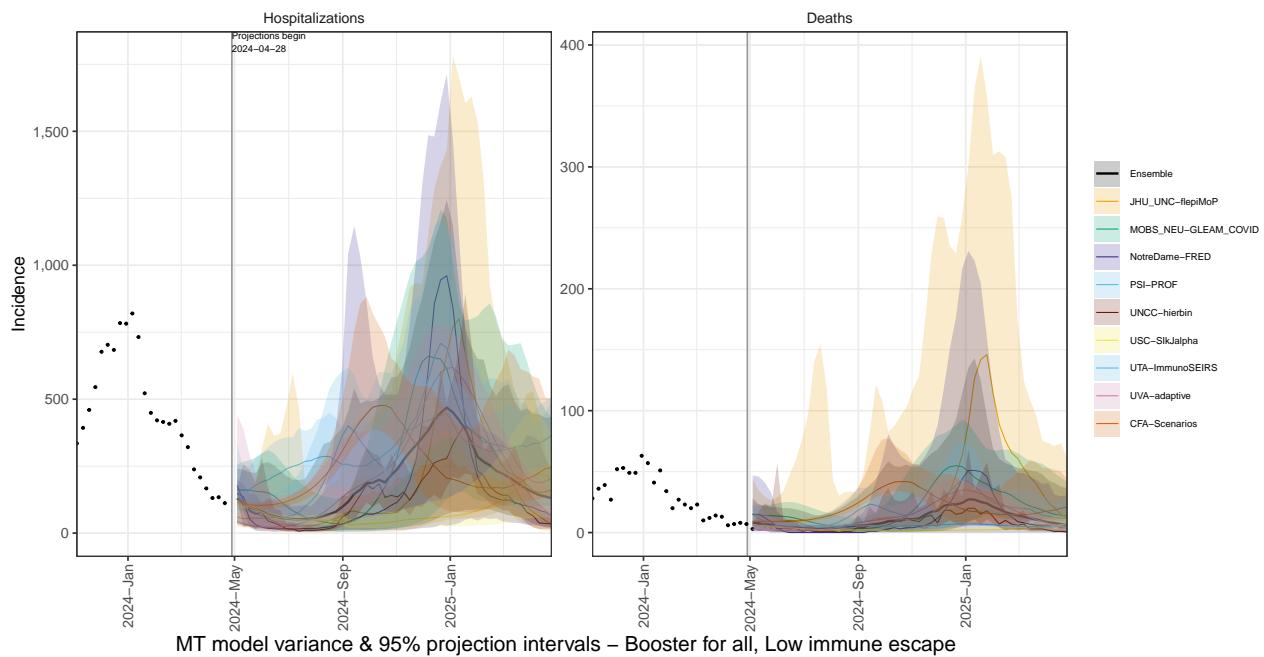
MN model variance & 95% projection intervals – Booster for all, Low immune escape



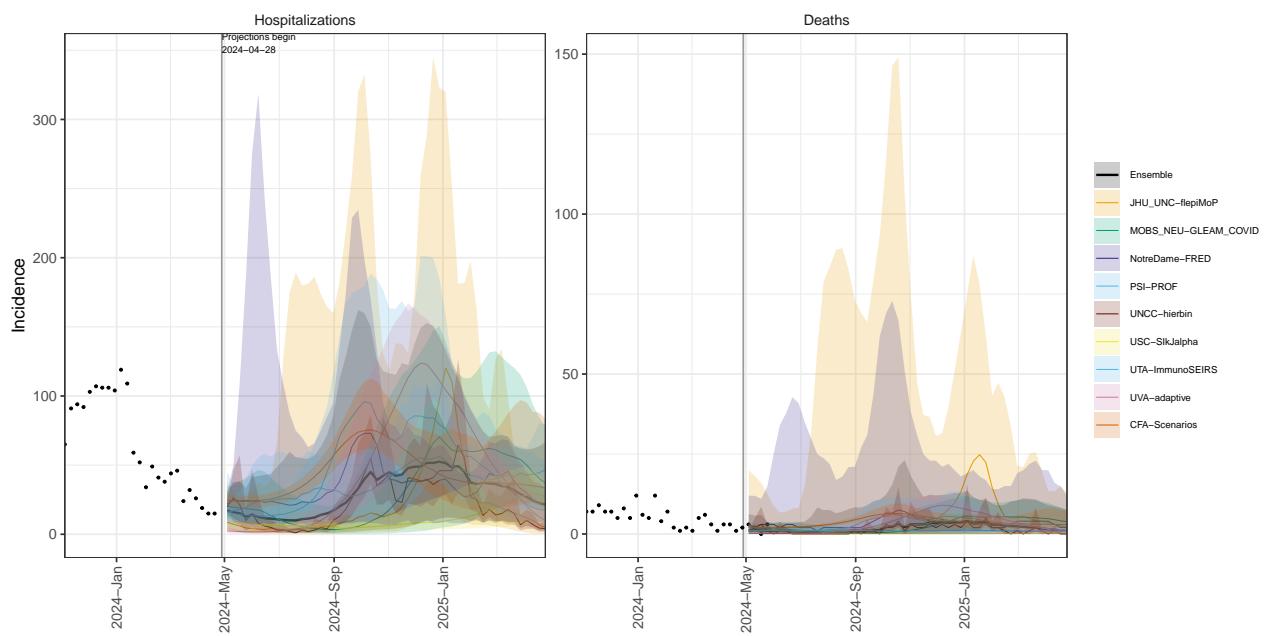
MS model variance & 95% projection intervals – Booster for all, Low immune escape



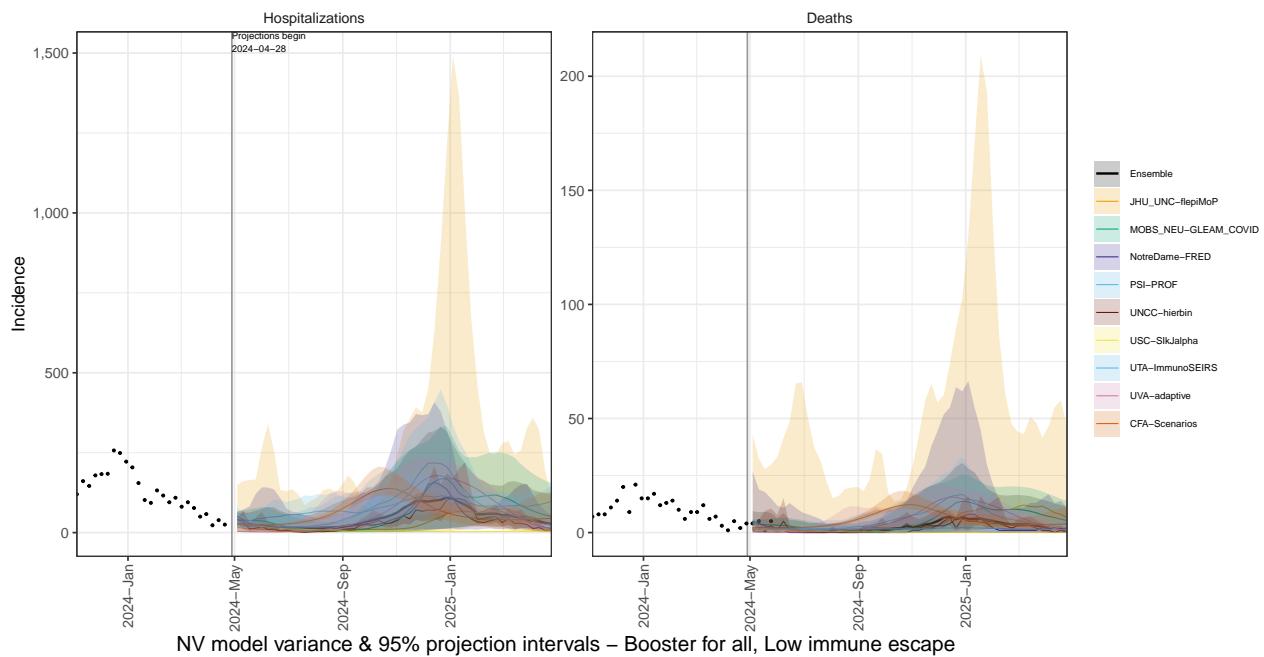
MO model variance & 95% projection intervals – Booster for all, Low immune escape



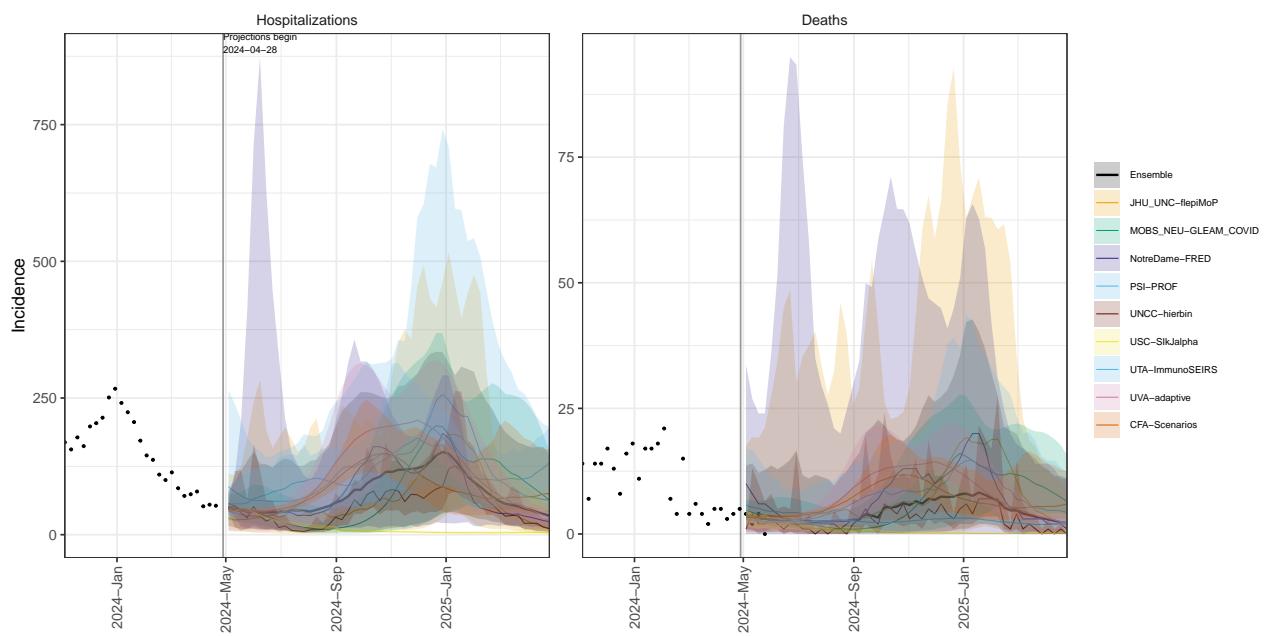
MT model variance & 95% projection intervals – Booster for all, Low immune escape



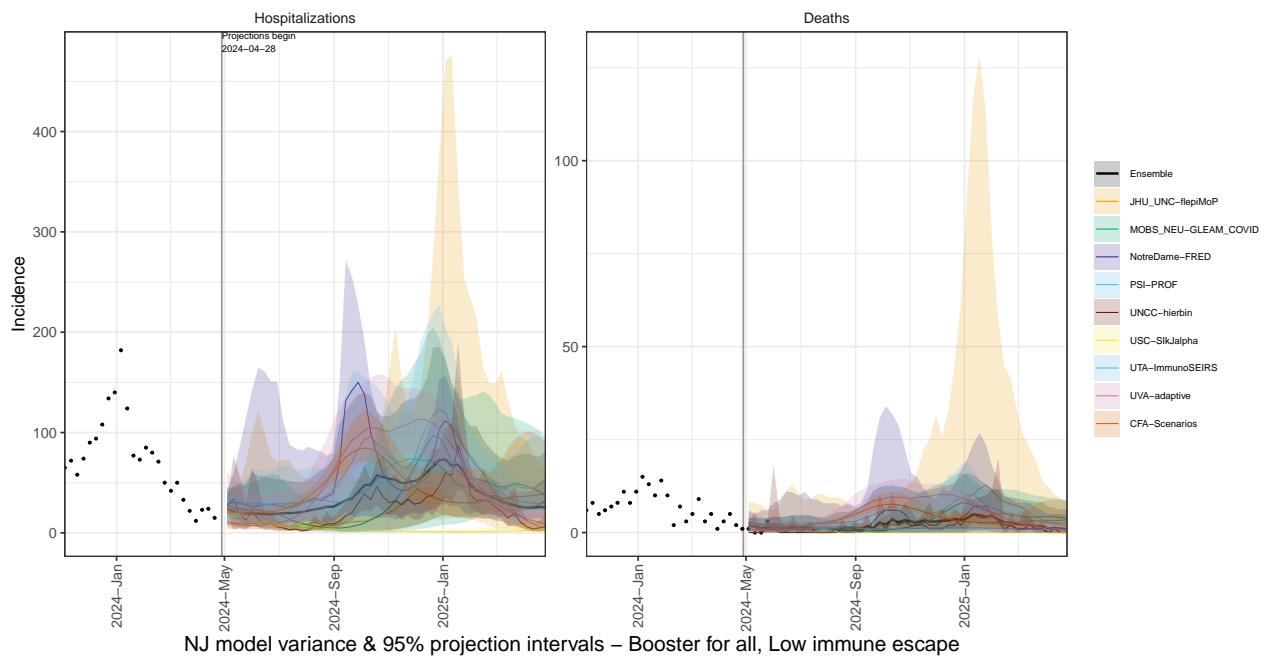
NE model variance & 95% projection intervals – Booster for all, Low immune escape



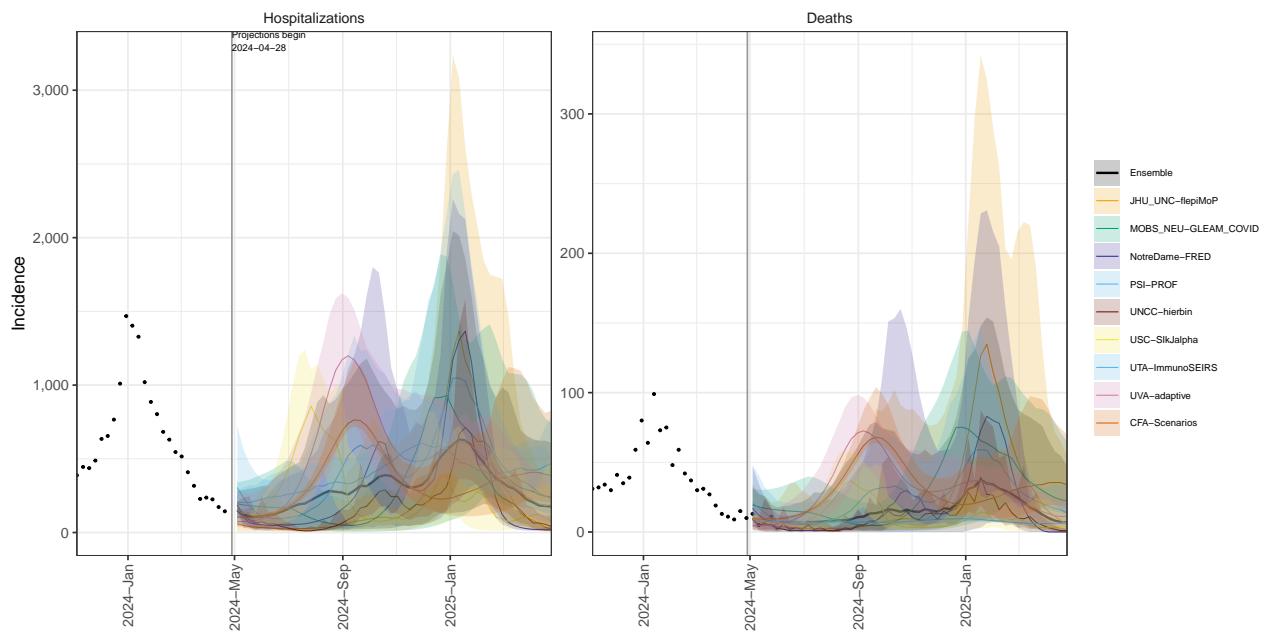
NV model variance & 95% projection intervals – Booster for all, Low immune escape



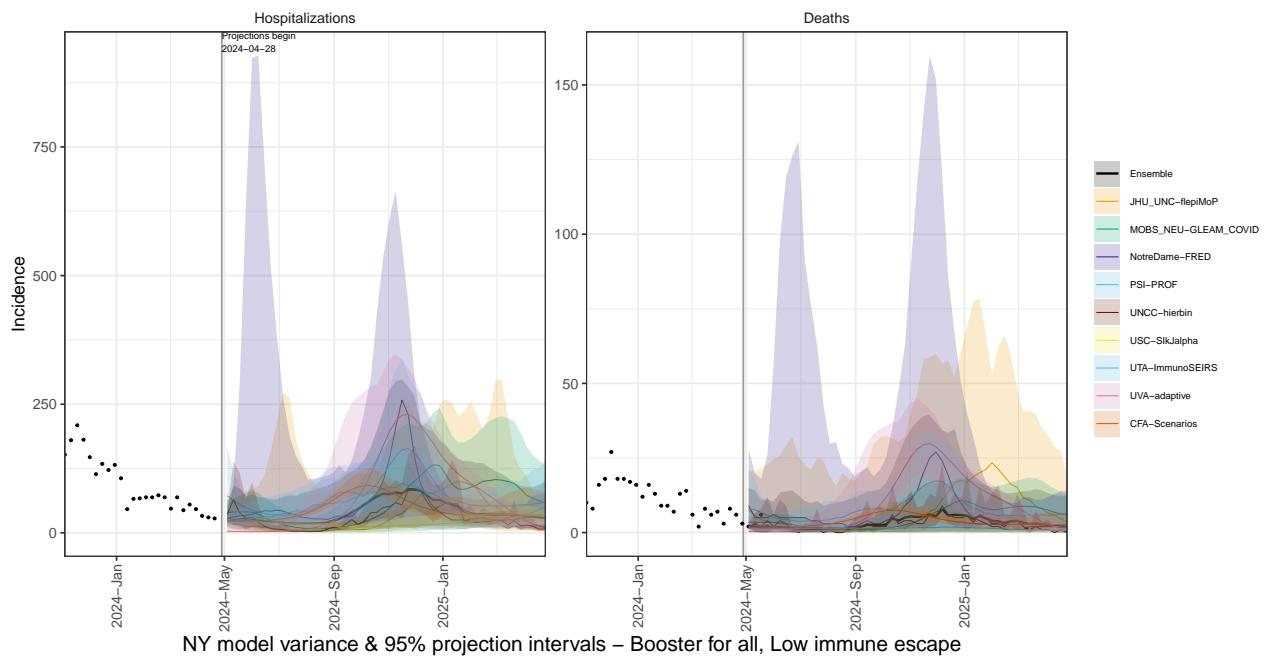
NH model variance & 95% projection intervals – Booster for all, Low immune escape



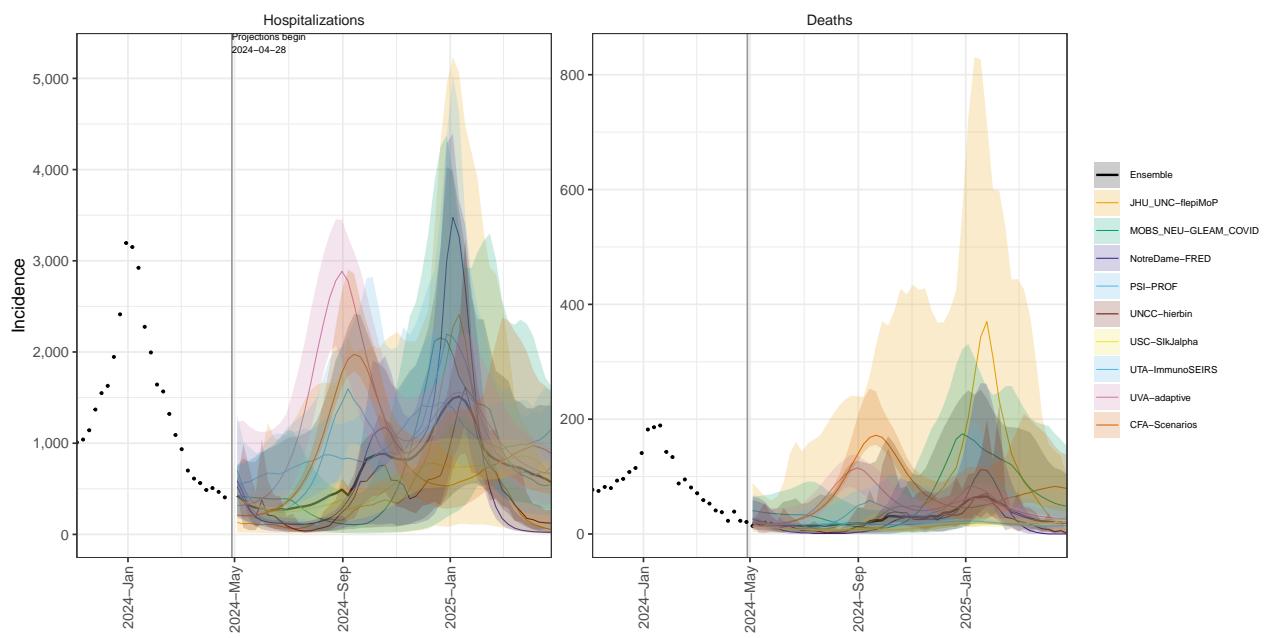
NJ model variance & 95% projection intervals – Booster for all, Low immune escape



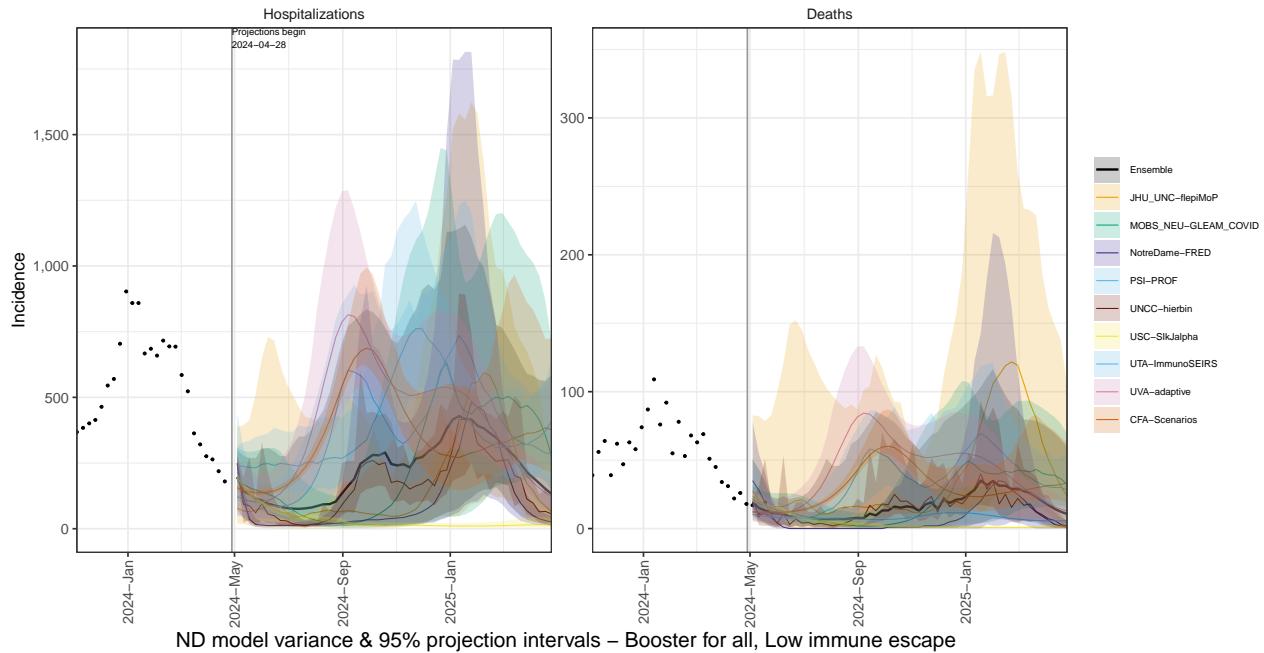
NM model variance & 95% projection intervals – Booster for all, Low immune escape



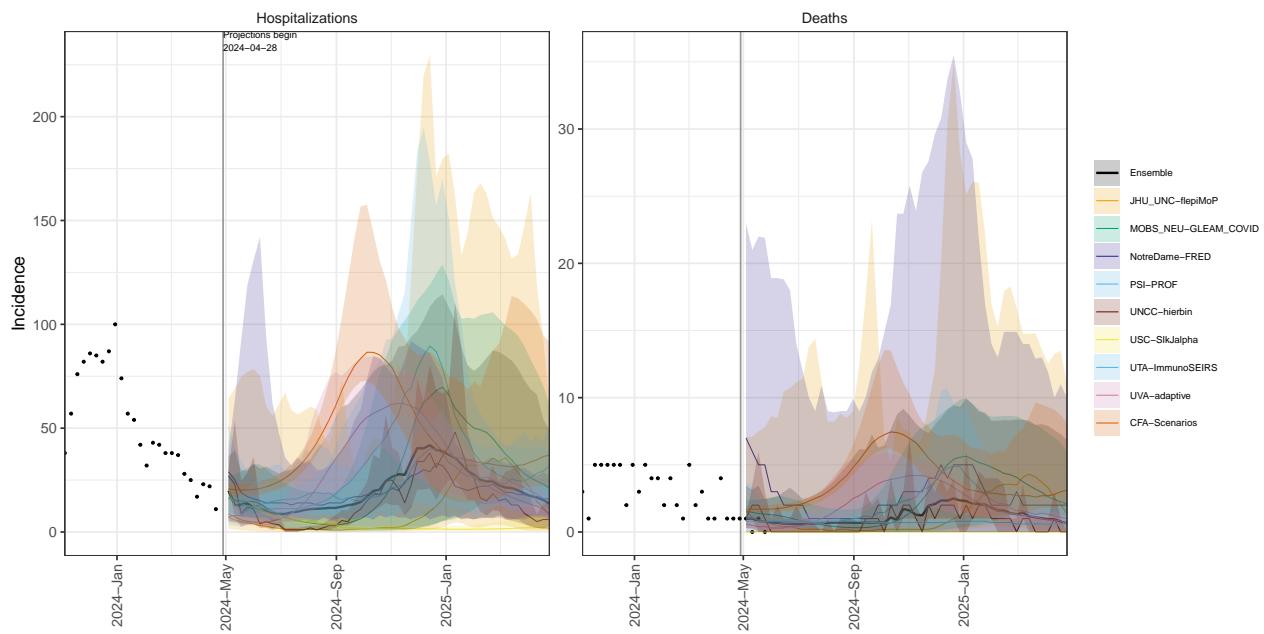
NY model variance & 95% projection intervals – Booster for all, Low immune escape



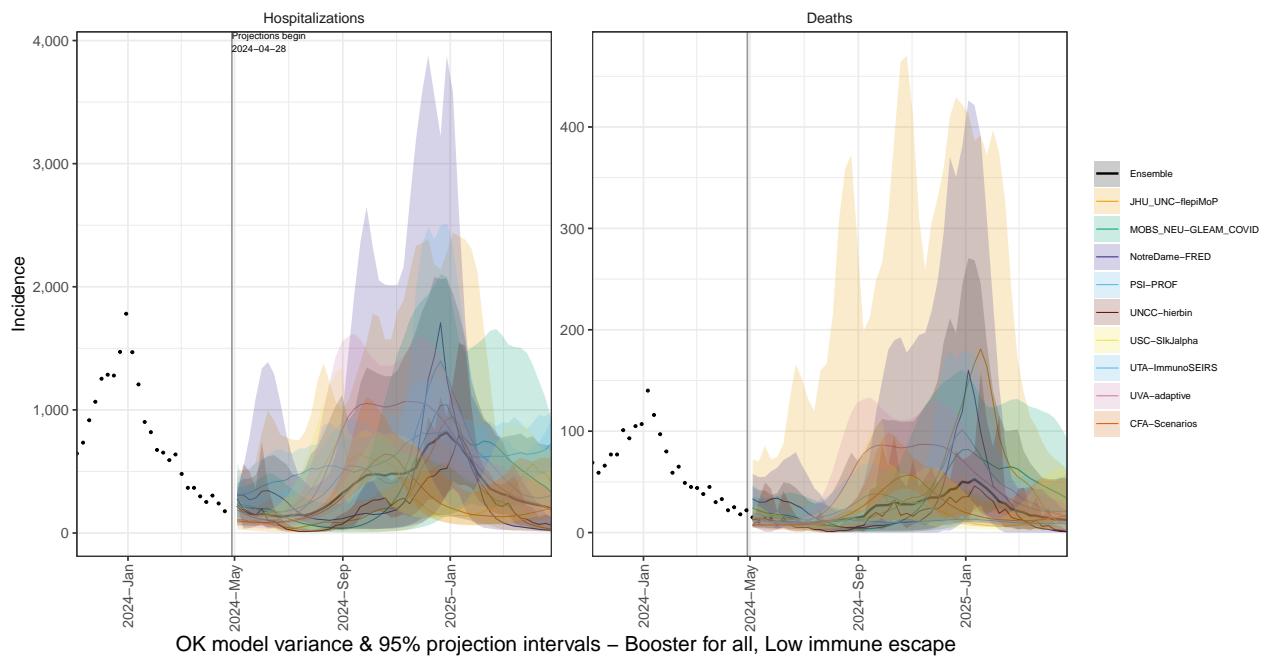
NC model variance & 95% projection intervals – Booster for all, Low immune escape



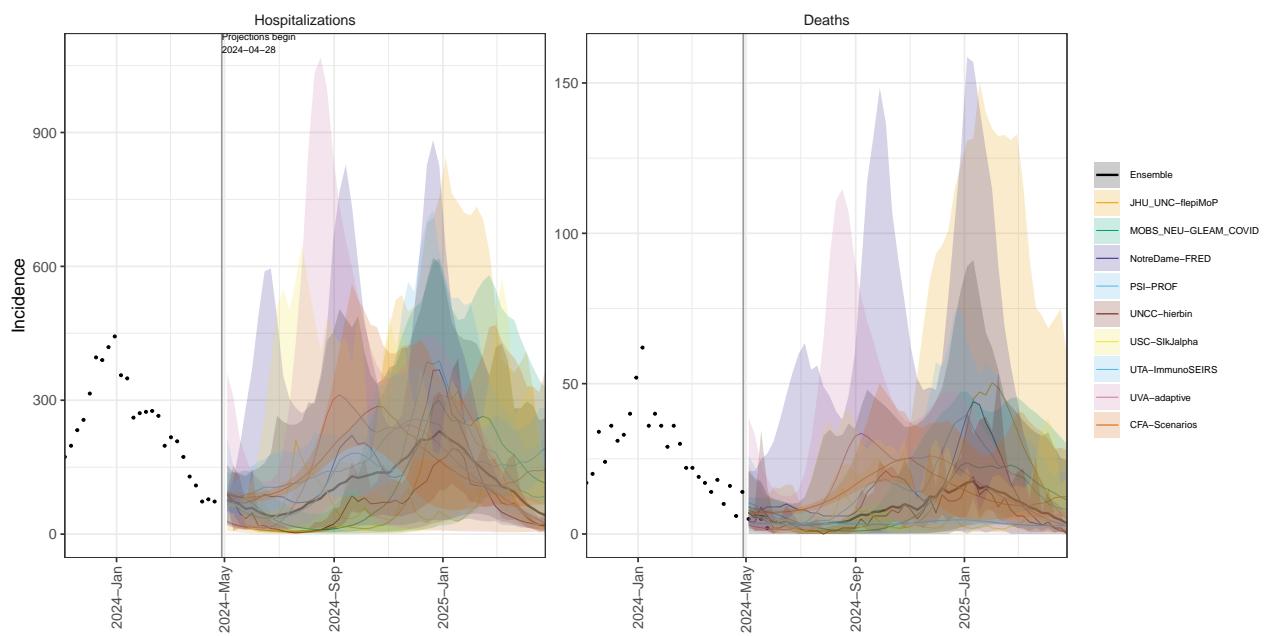
ND model variance & 95% projection intervals – Booster for all, Low immune escape



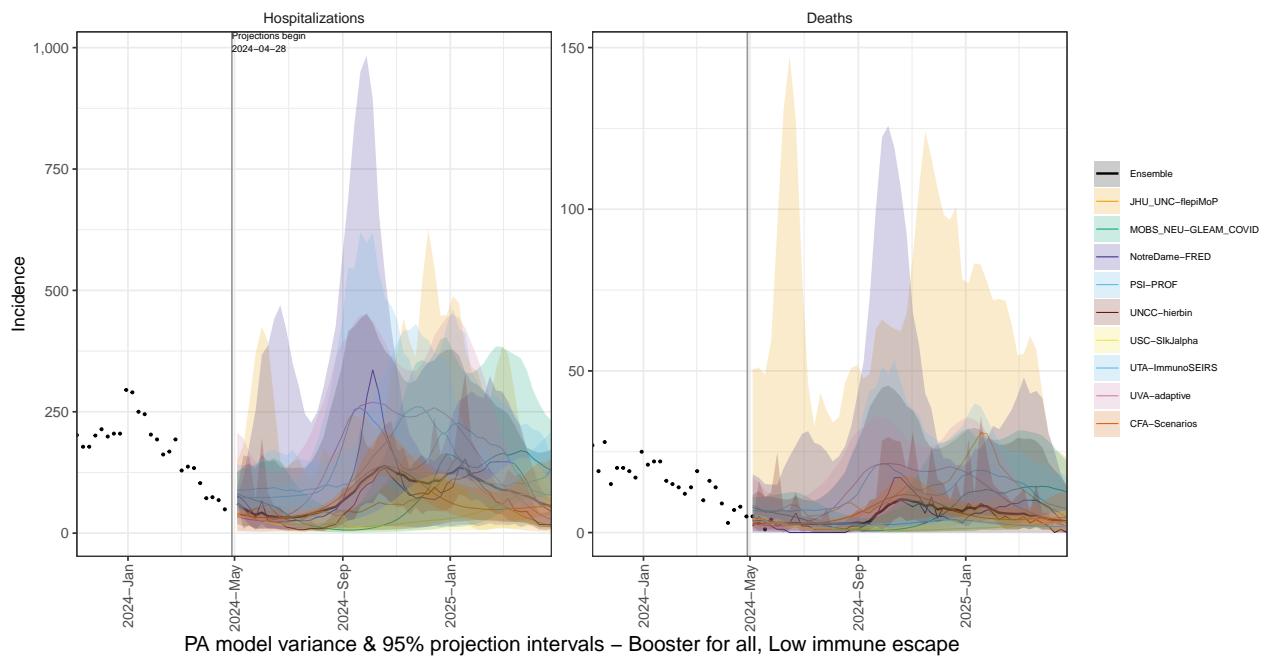
OH model variance & 95% projection intervals – Booster for all, Low immune escape



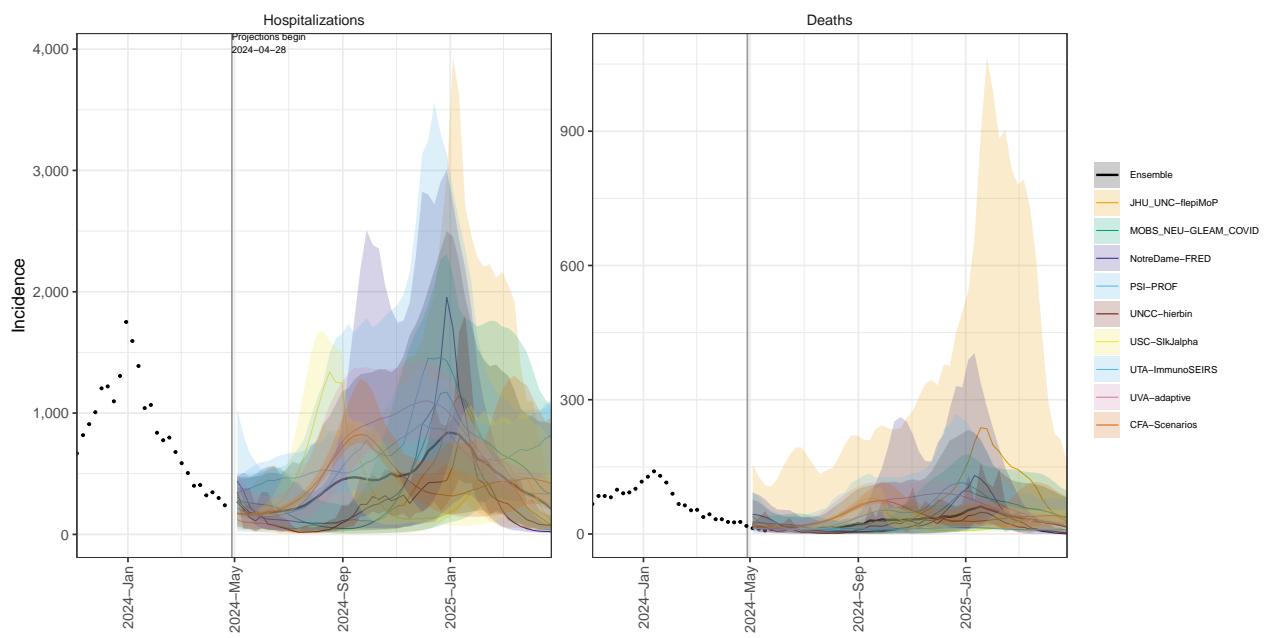
OK model variance & 95% projection intervals – Booster for all, Low immune escape



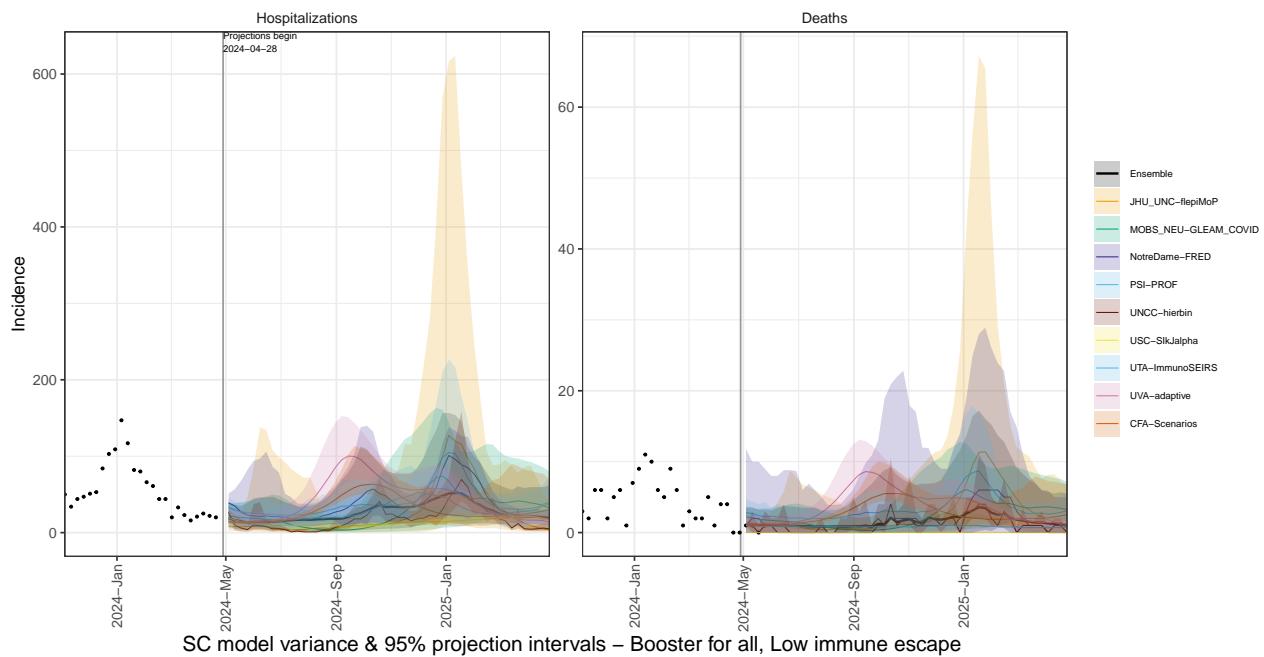
OR model variance & 95% projection intervals – Booster for all, Low immune escape



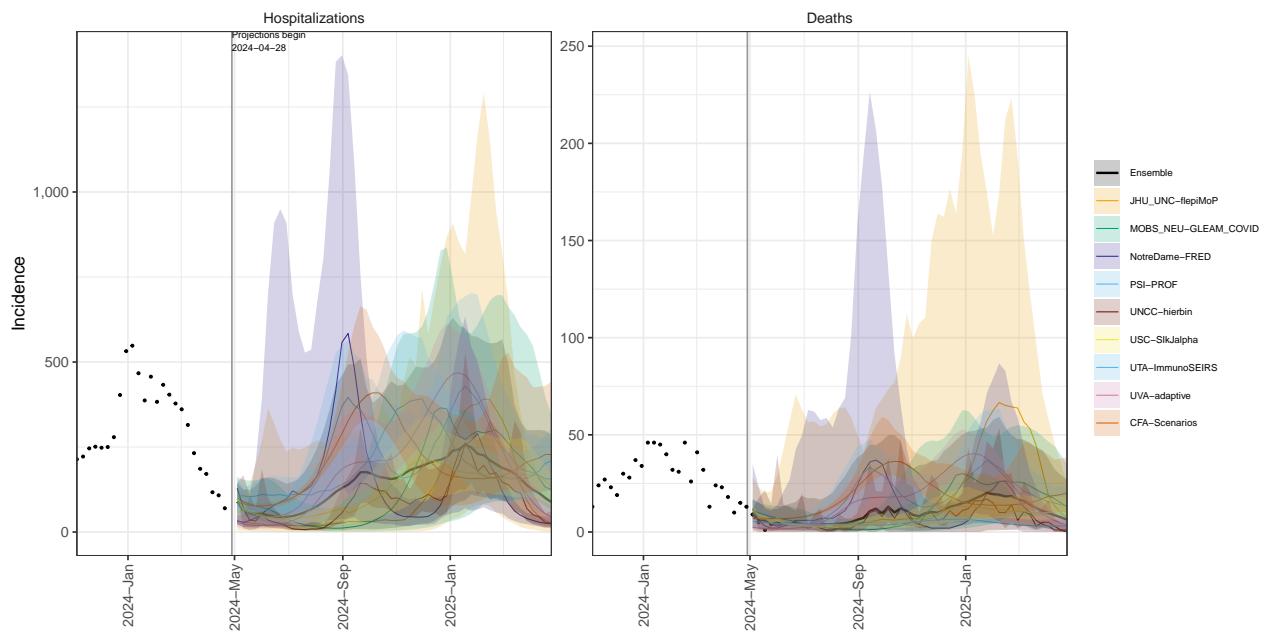
PA model variance & 95% projection intervals – Booster for all, Low immune escape



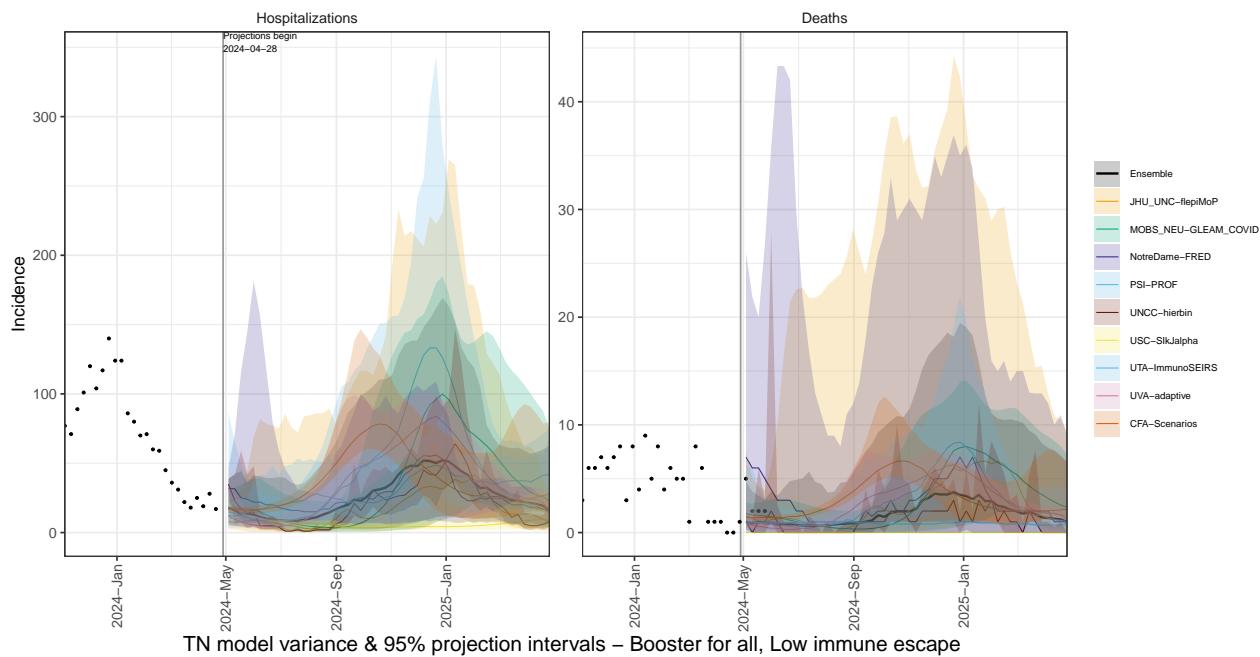
RI model variance & 95% projection intervals – Booster for all, Low immune escape



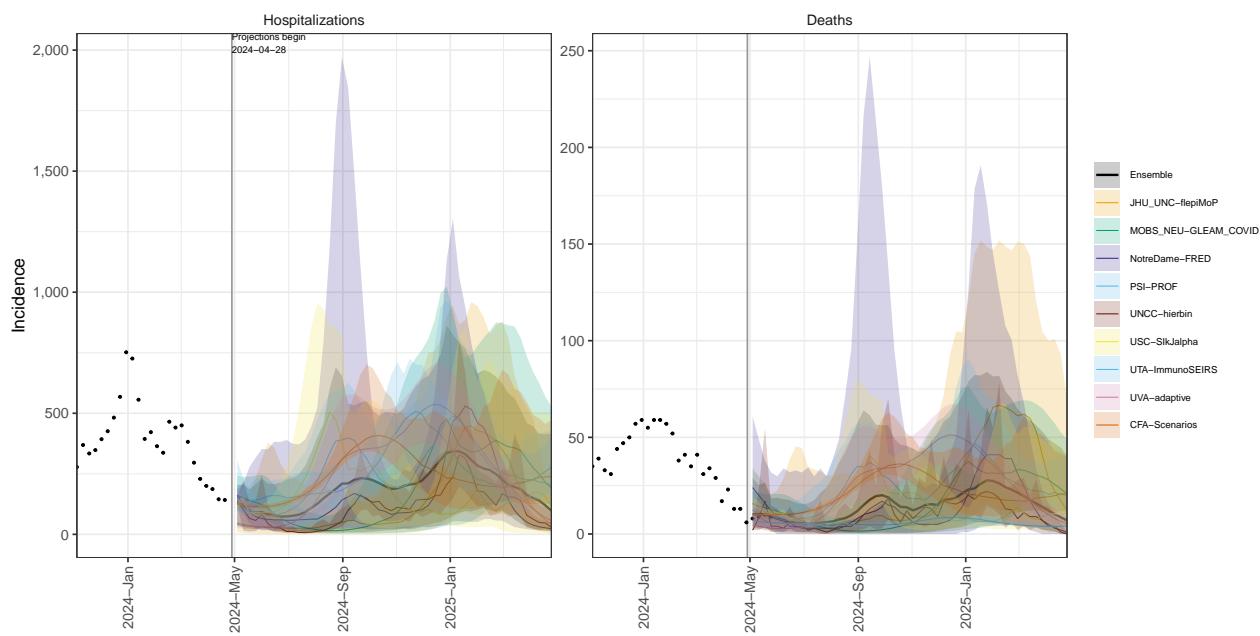
SC model variance & 95% projection intervals – Booster for all, Low immune escape



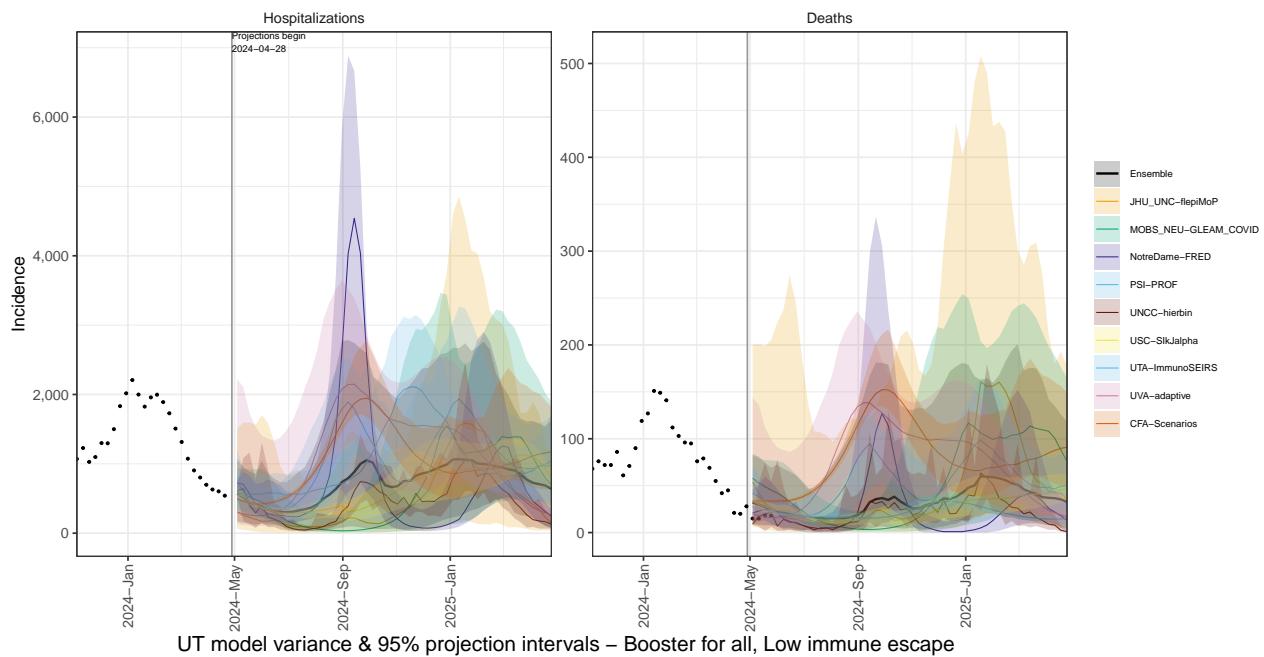
SD model variance & 95% projection intervals – Booster for all, Low immune escape



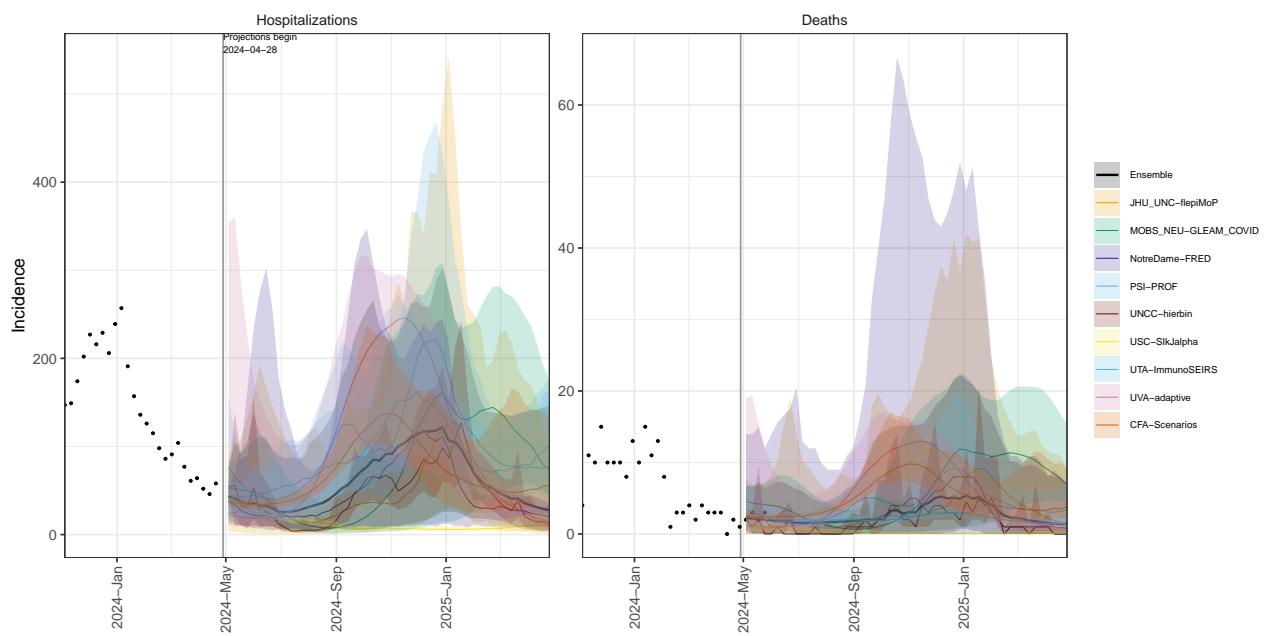
TN model variance & 95% projection intervals – Booster for all, Low immune escape



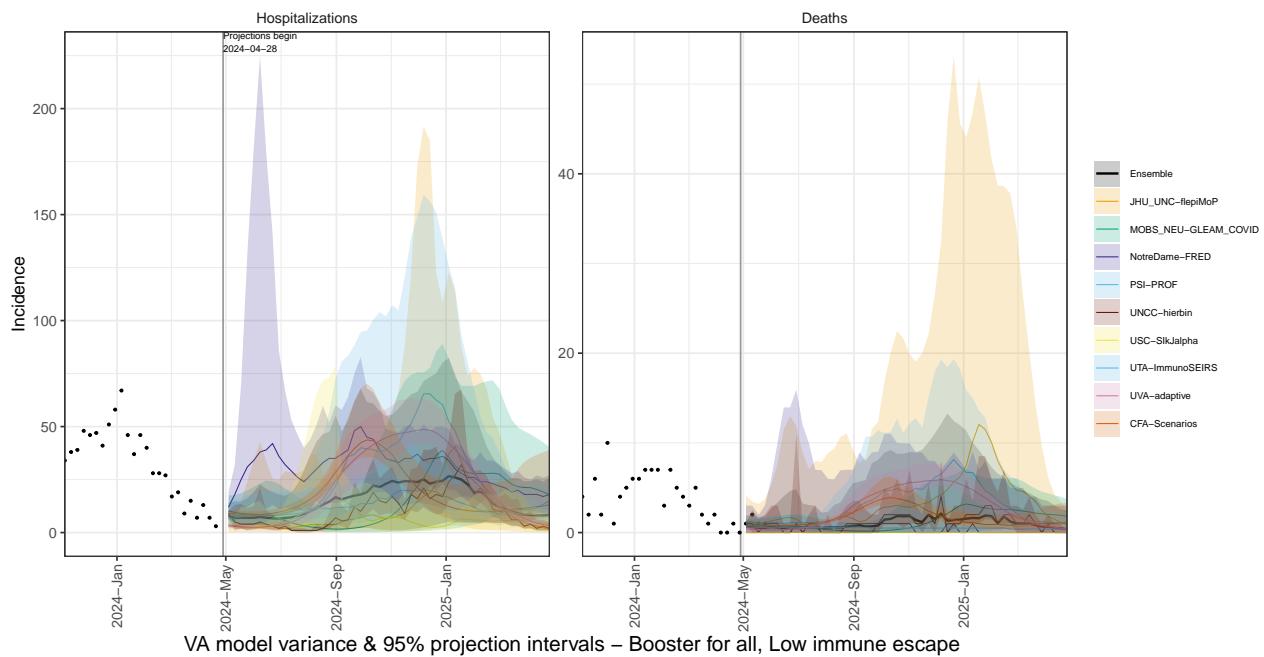
TX model variance & 95% projection intervals – Booster for all, Low immune escape



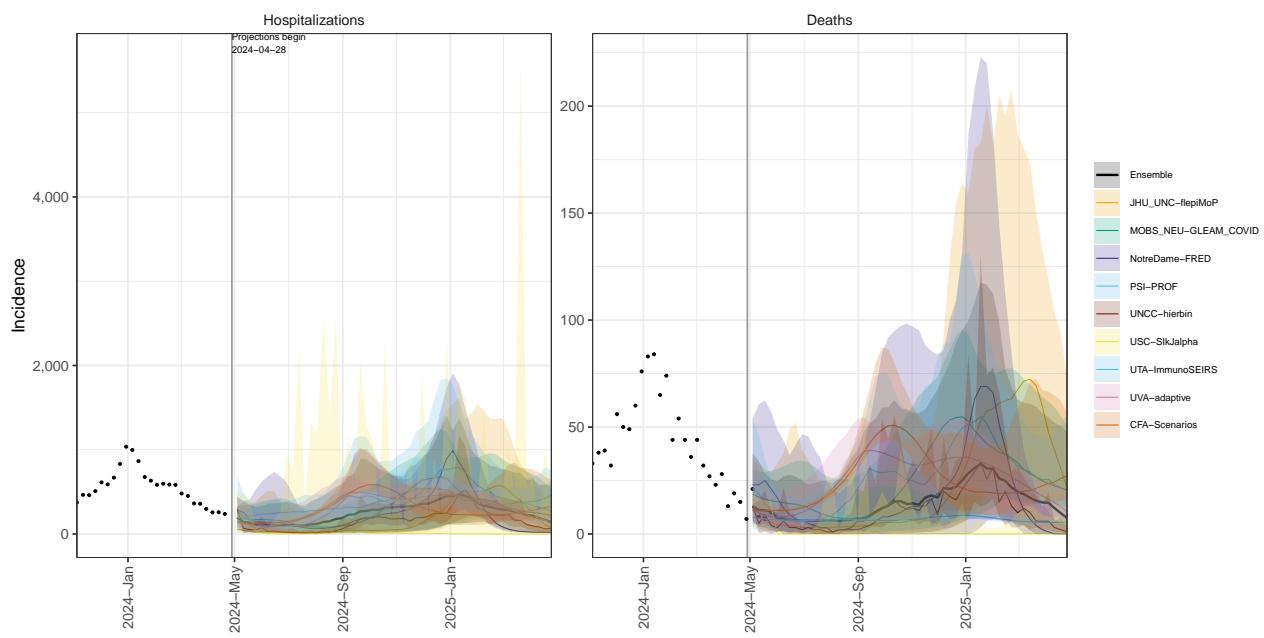
UT model variance & 95% projection intervals – Booster for all, Low immune escape



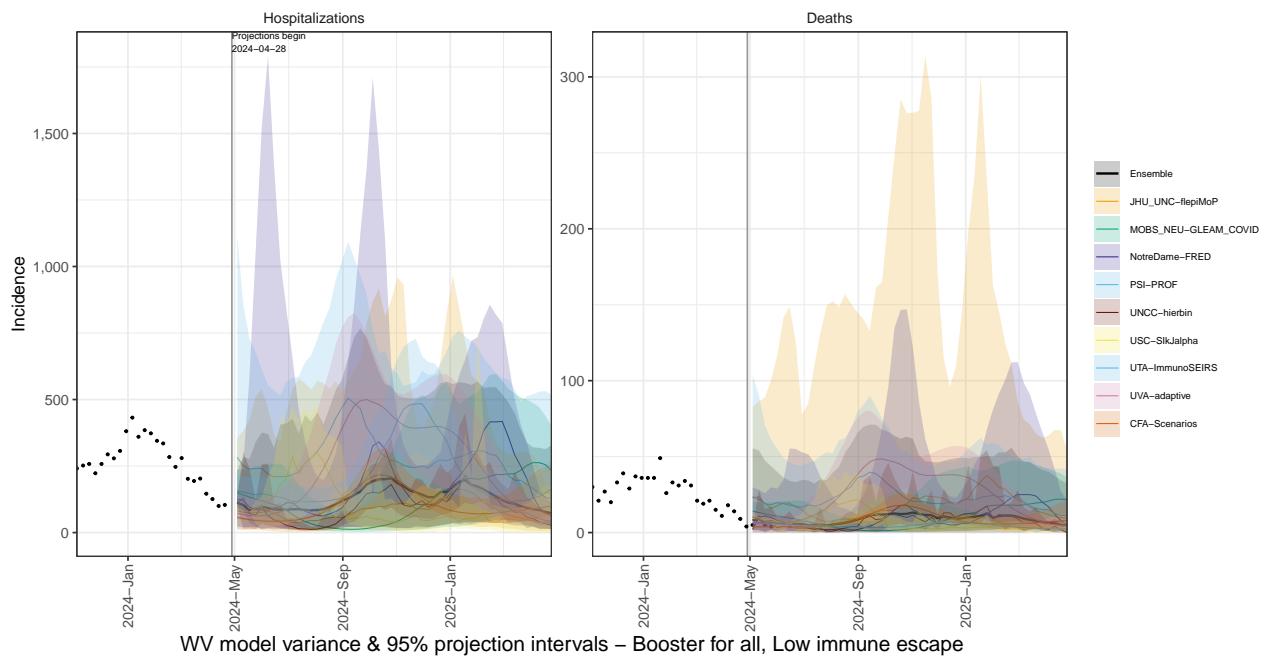
VT model variance & 95% projection intervals – Booster for all, Low immune escape



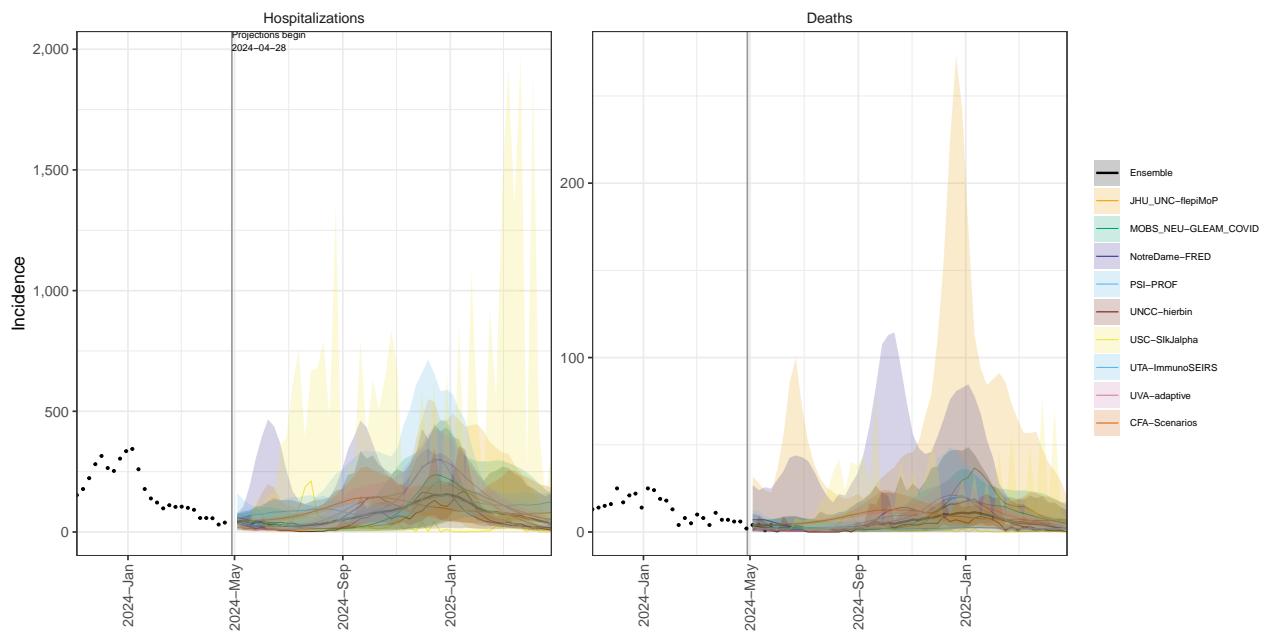
VA model variance & 95% projection intervals – Booster for all, Low immune escape



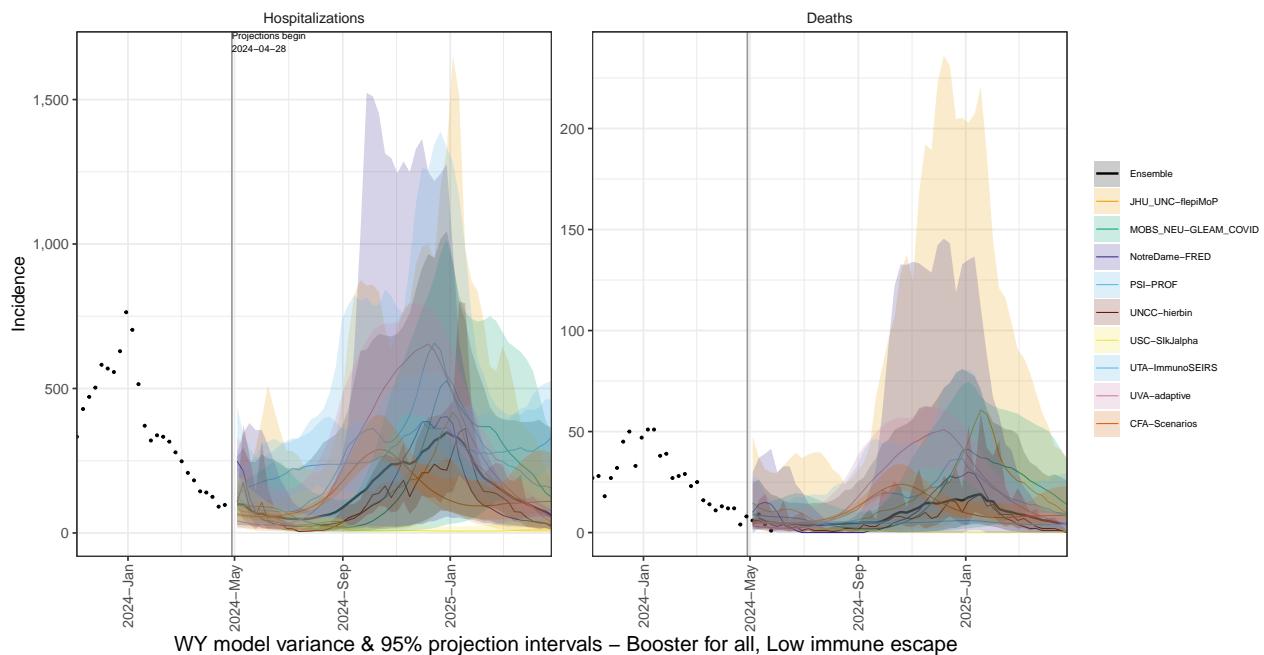
WA model variance & 95% projection intervals – Booster for all, Low immune escape



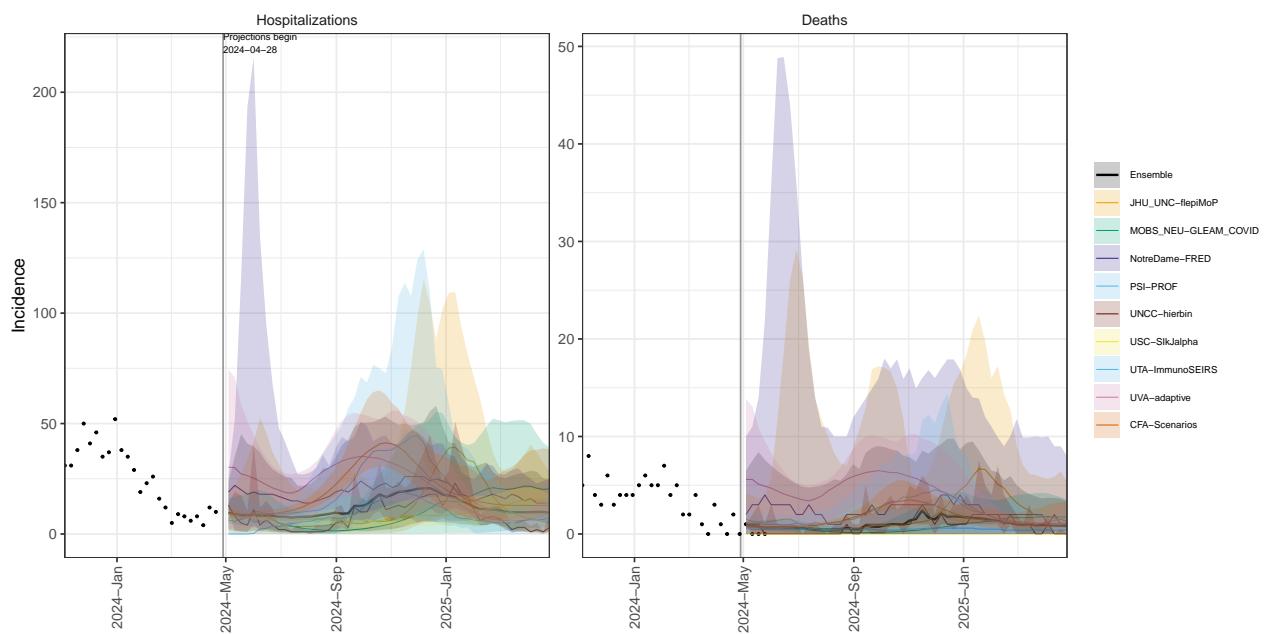
WV model variance & 95% projection intervals – Booster for all, Low immune escape



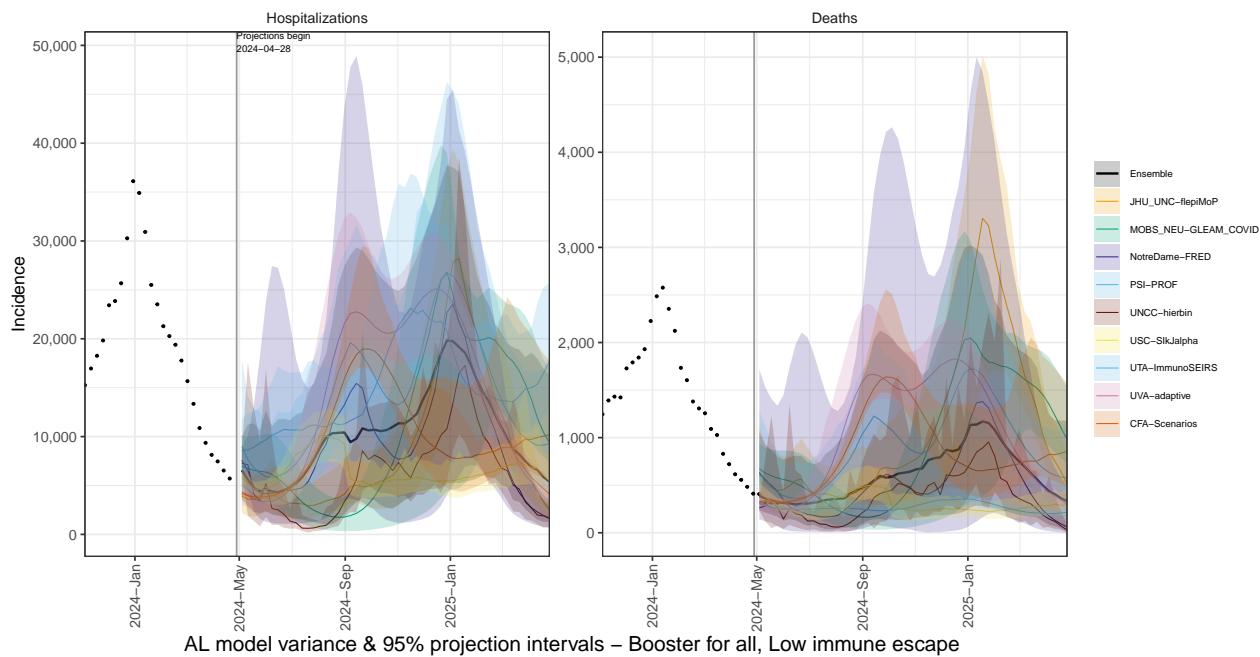
WI model variance & 95% projection intervals – Booster for all, Low immune escape



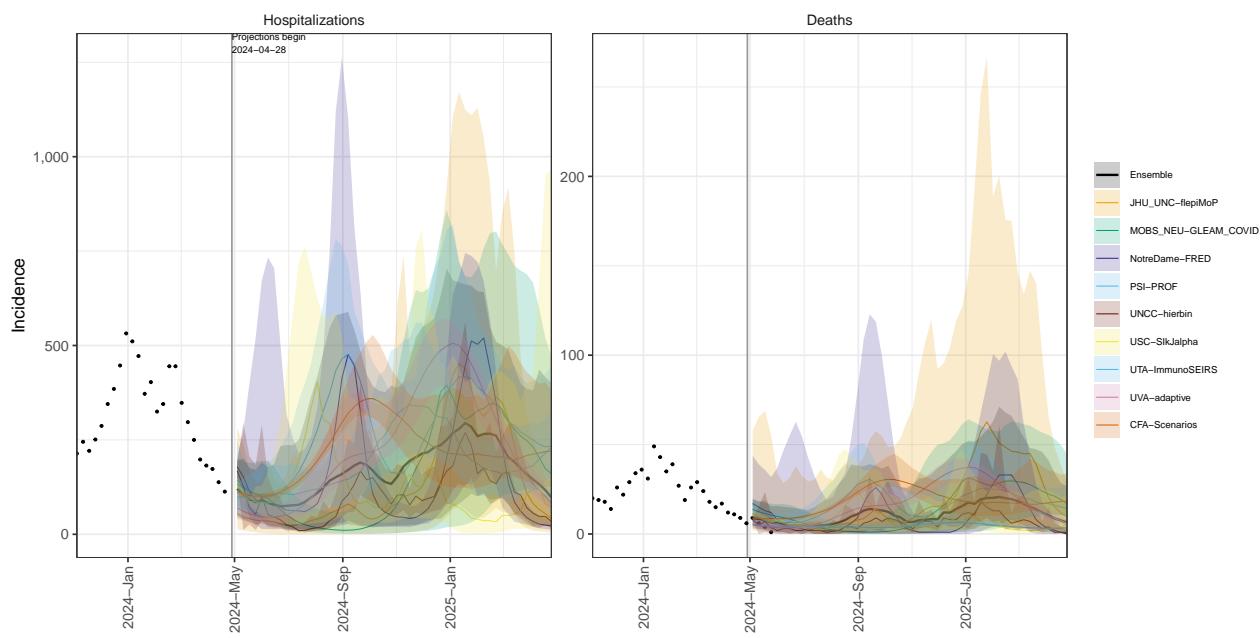
WY model variance & 95% projection intervals – Booster for all, Low immune escape



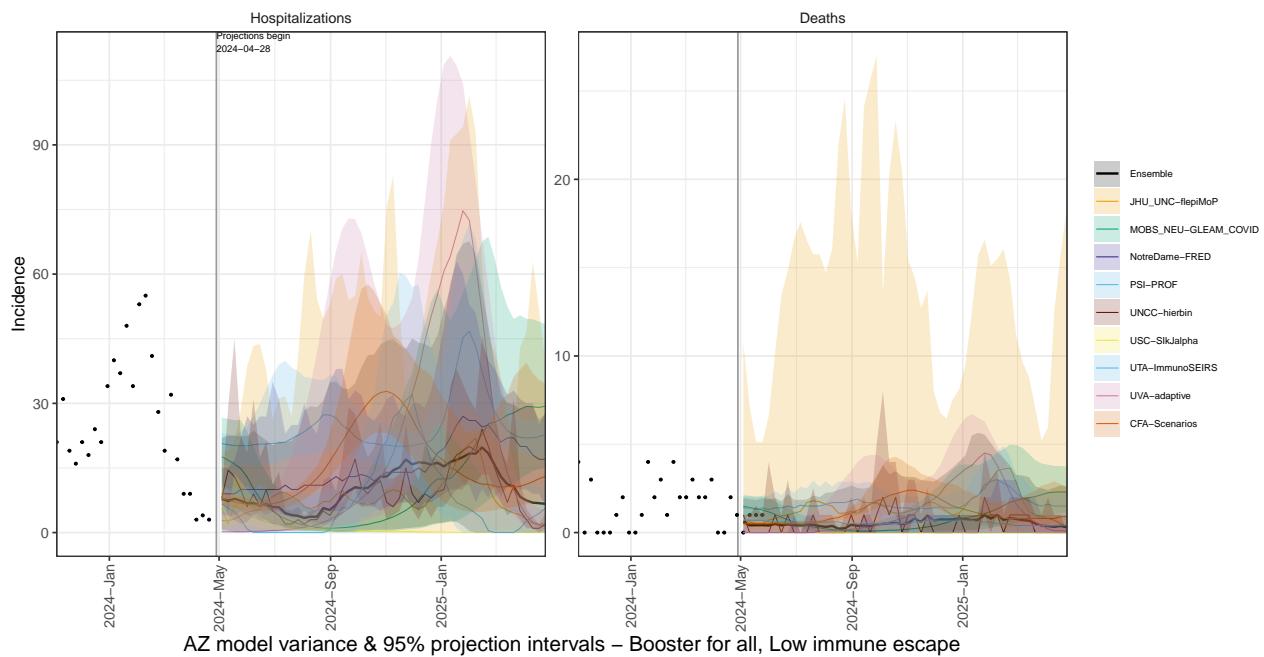
US model variance & 95% projection intervals – Booster for all, Low immune escape



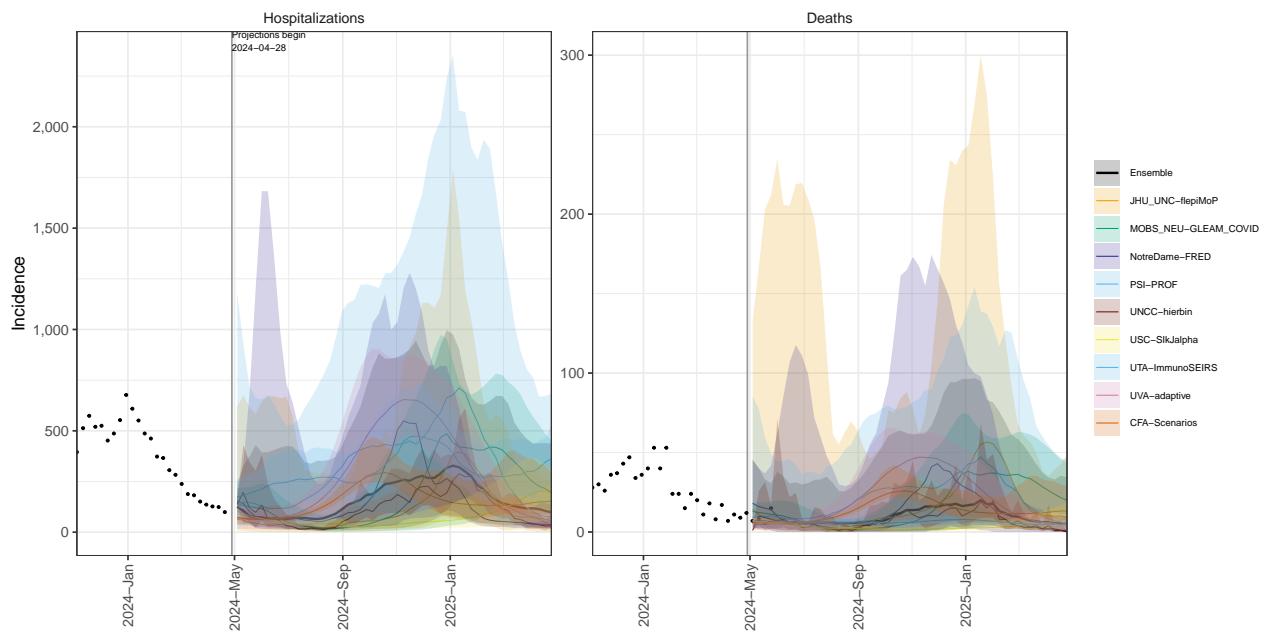
AL model variance & 95% projection intervals – Booster for all, Low immune escape



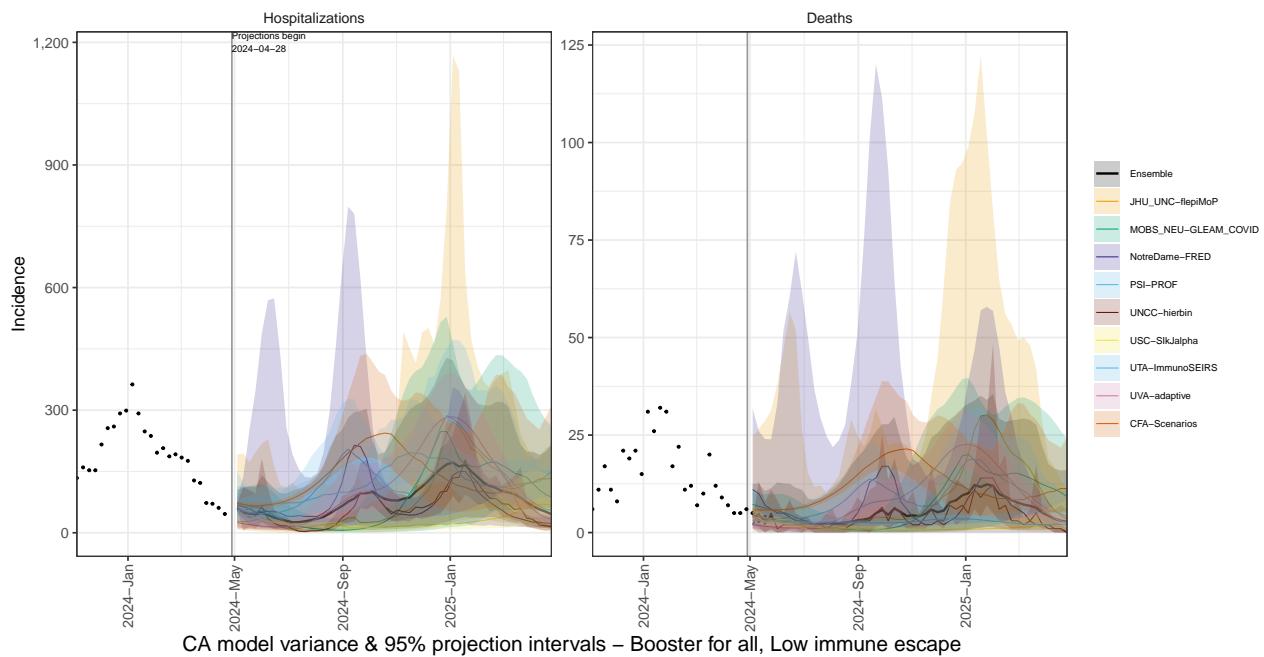
AK model variance & 95% projection intervals – Booster for all, Low immune escape



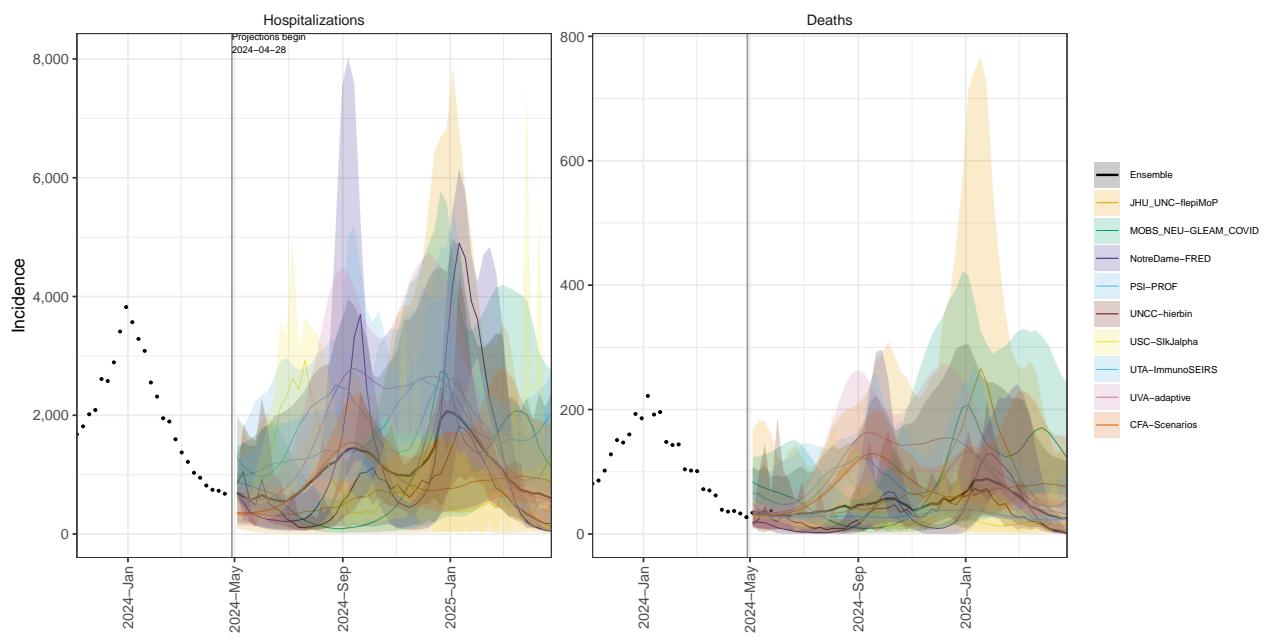
AZ model variance & 95% projection intervals – Booster for all, Low immune escape



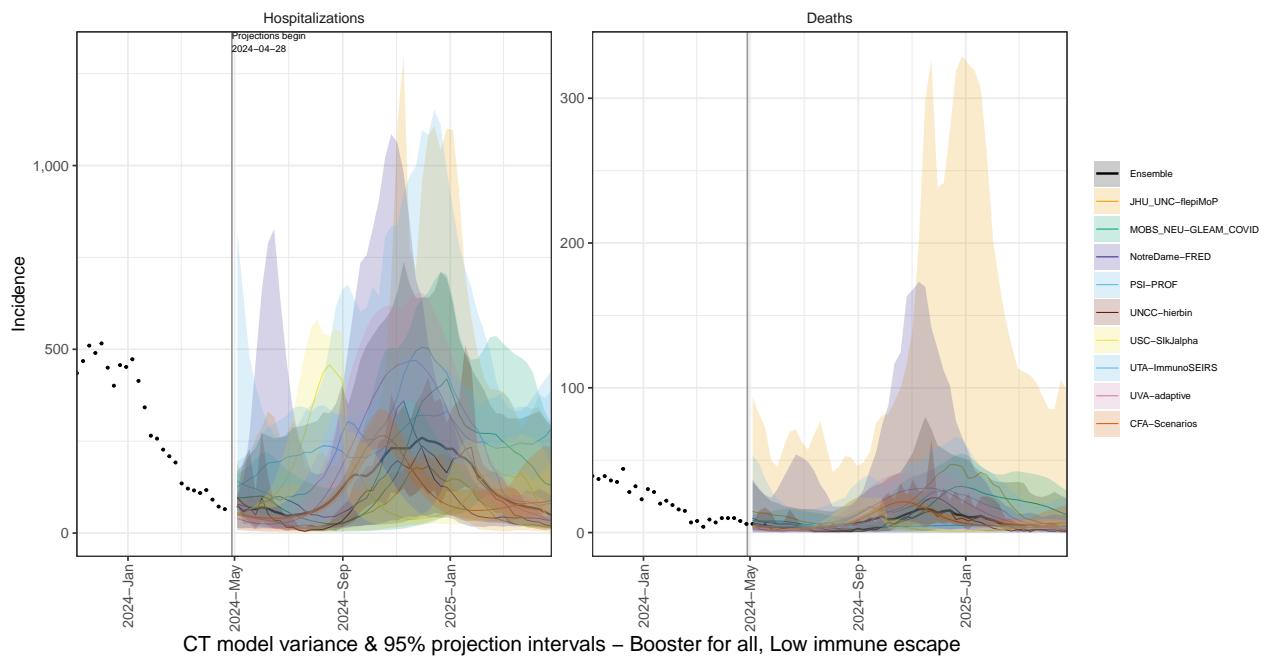
AR model variance & 95% projection intervals – Booster for all, Low immune escape



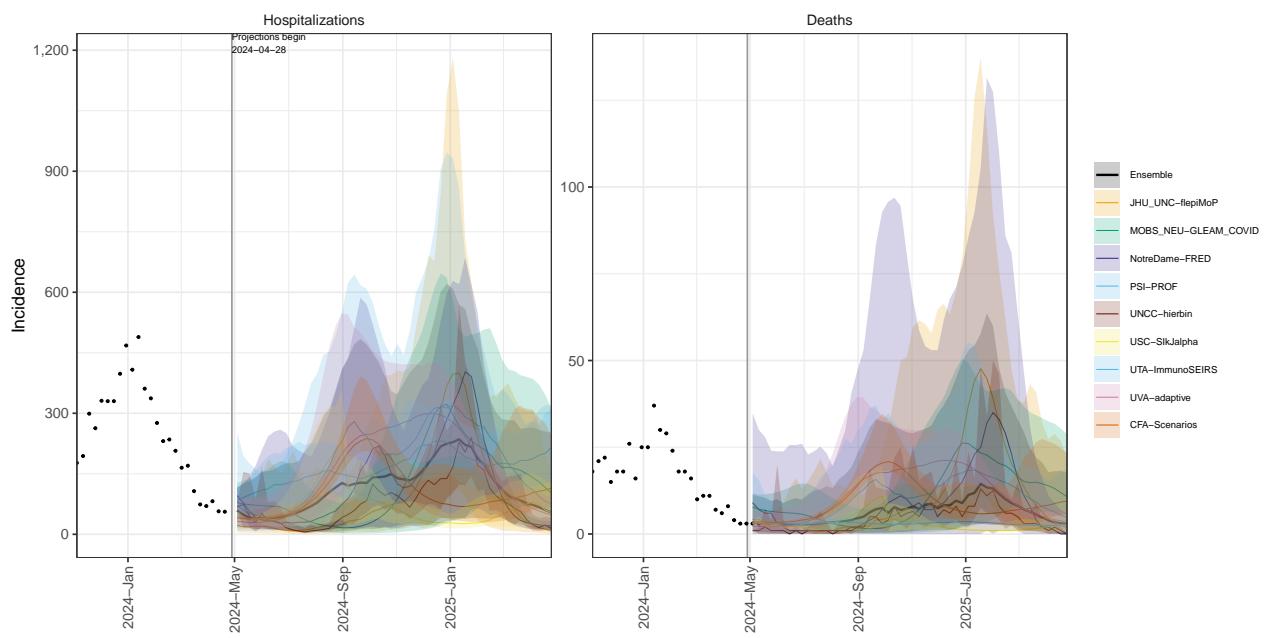
CA model variance & 95% projection intervals – Booster for all, Low immune escape



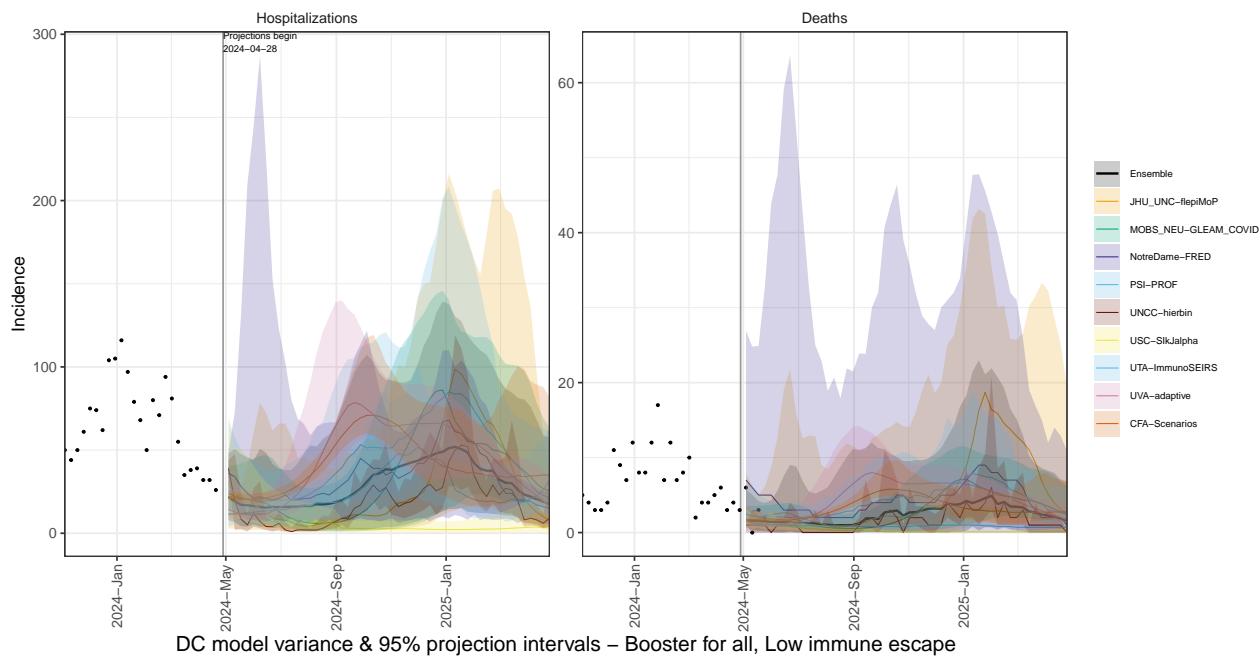
CO model variance & 95% projection intervals – Booster for all, Low immune escape



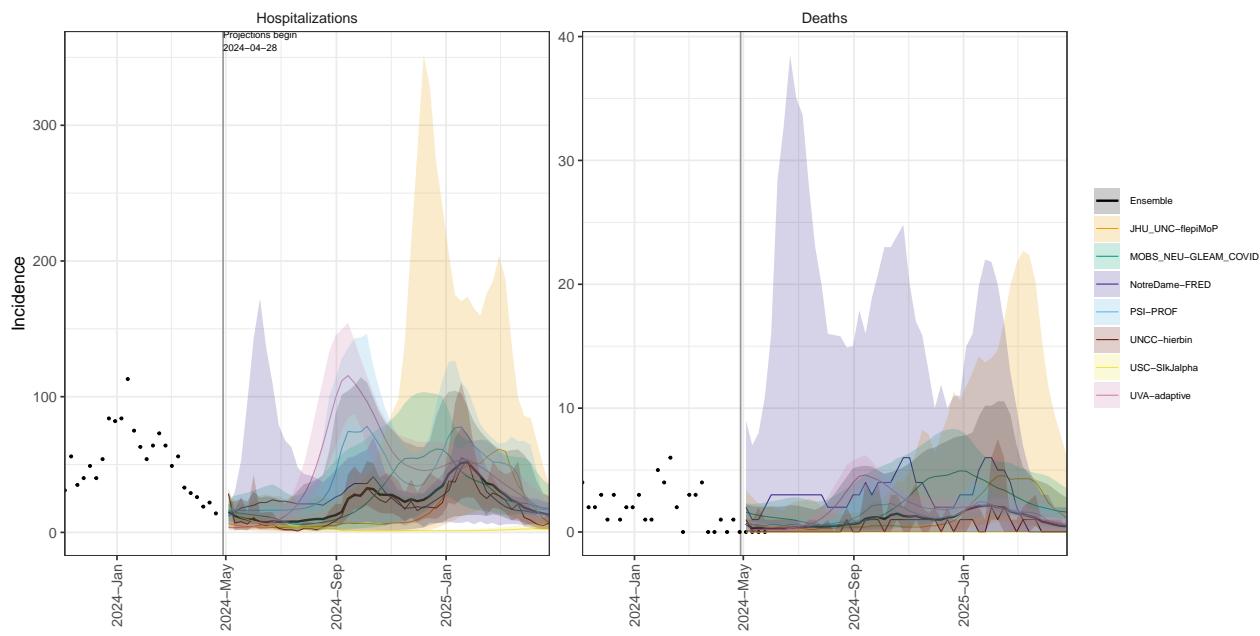
CT model variance & 95% projection intervals – Booster for all, Low immune escape



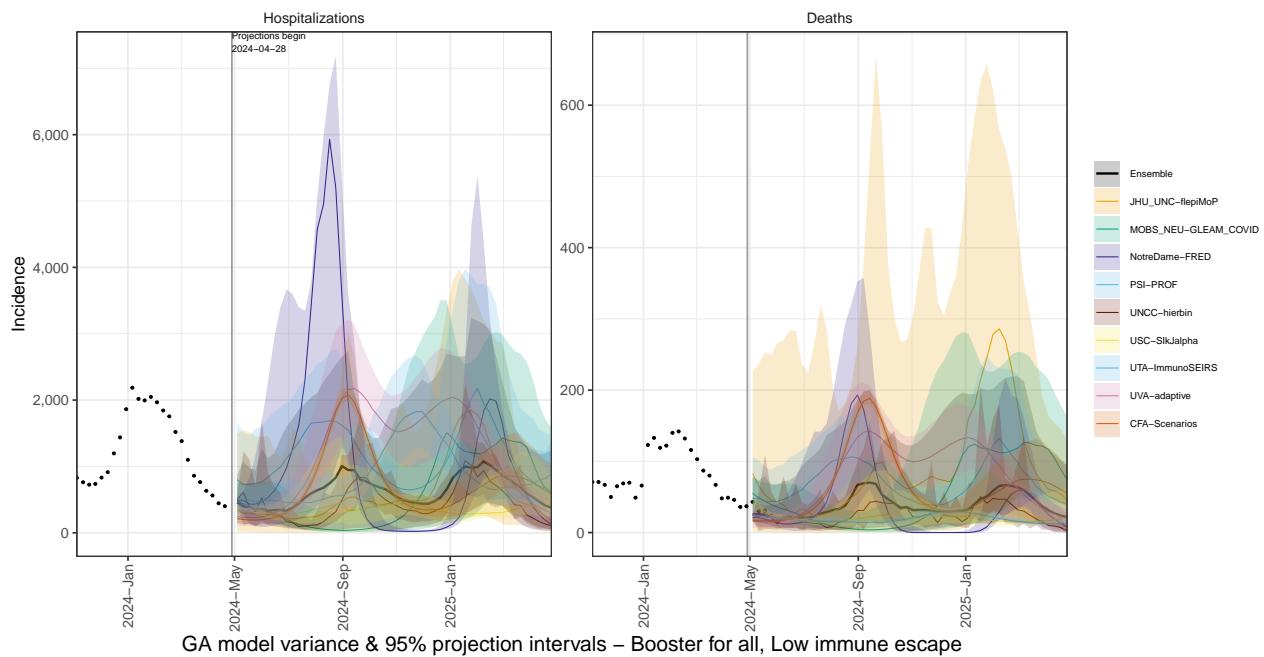
DE model variance & 95% projection intervals – Booster for all, Low immune escape



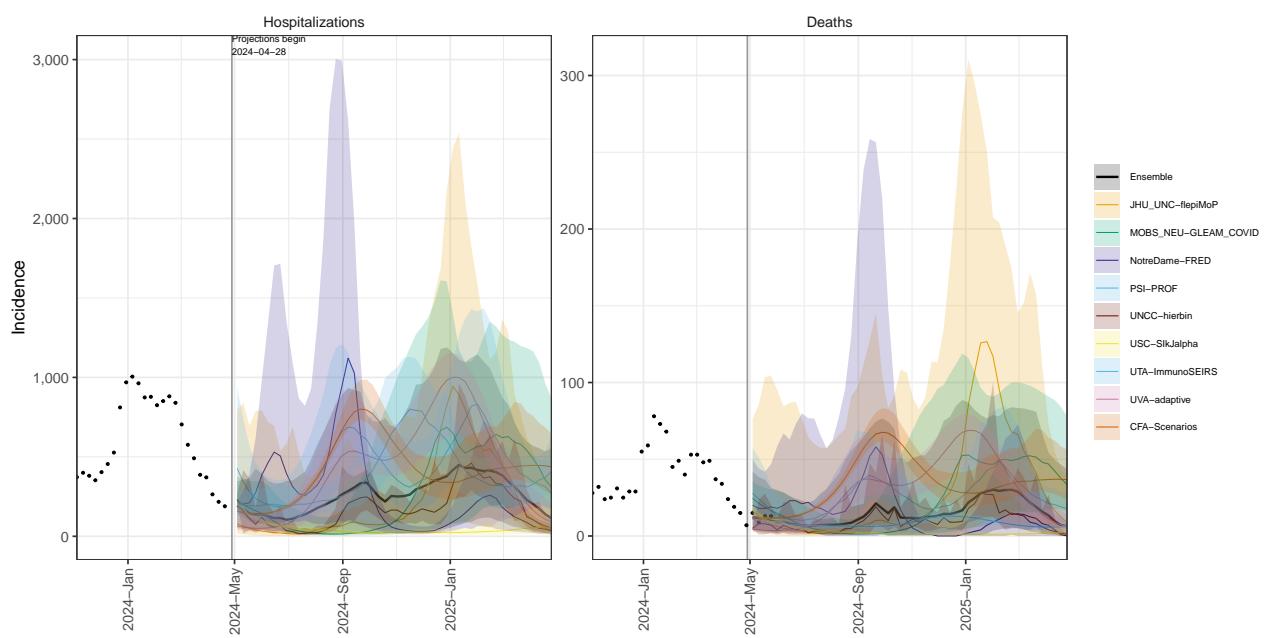
DC model variance & 95% projection intervals – Booster for all, Low immune escape



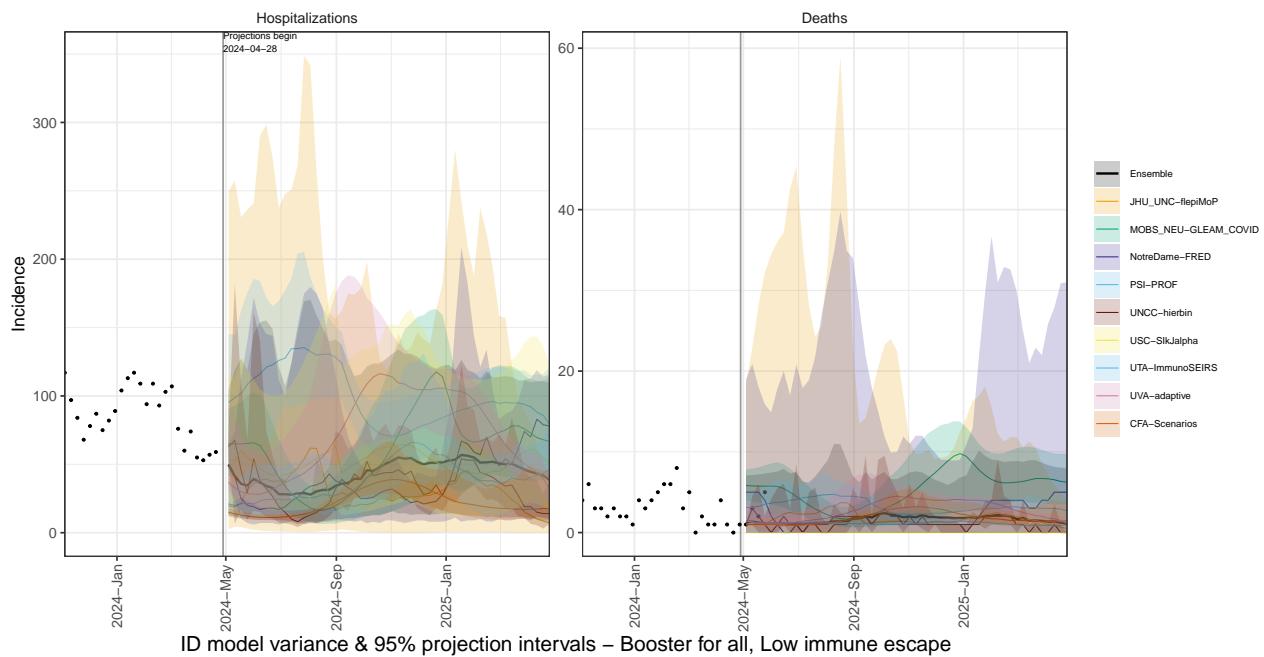
FL model variance & 95% projection intervals – Booster for all, Low immune escape



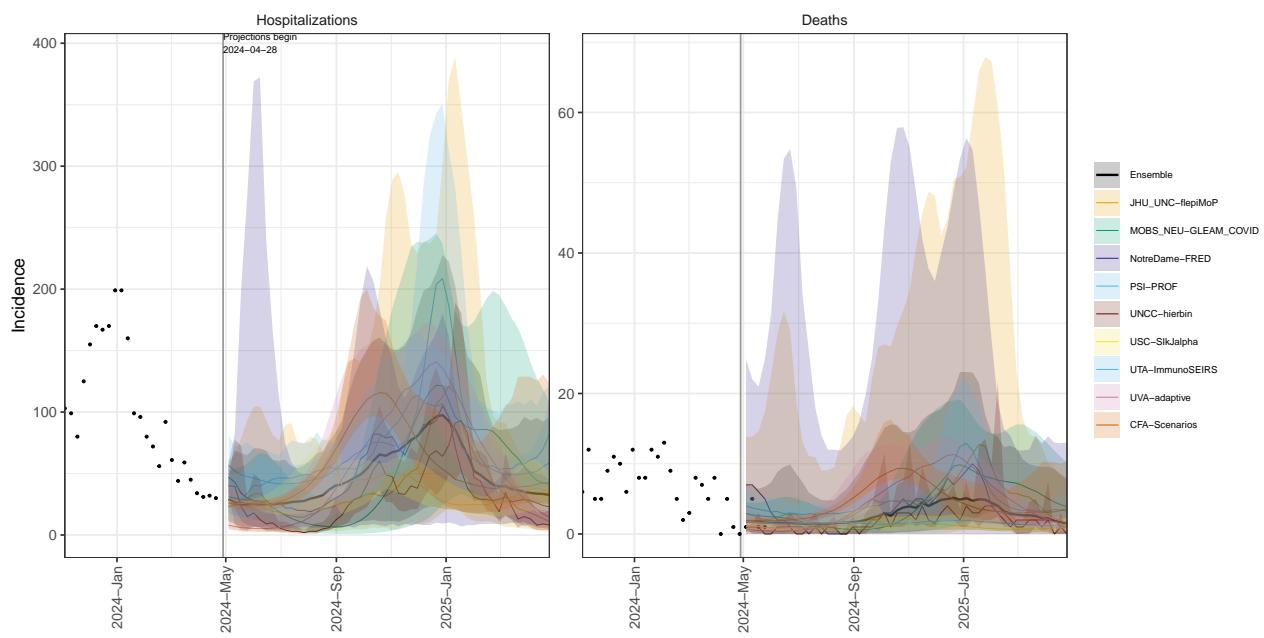
GA model variance & 95% projection intervals – Booster for all, Low immune escape



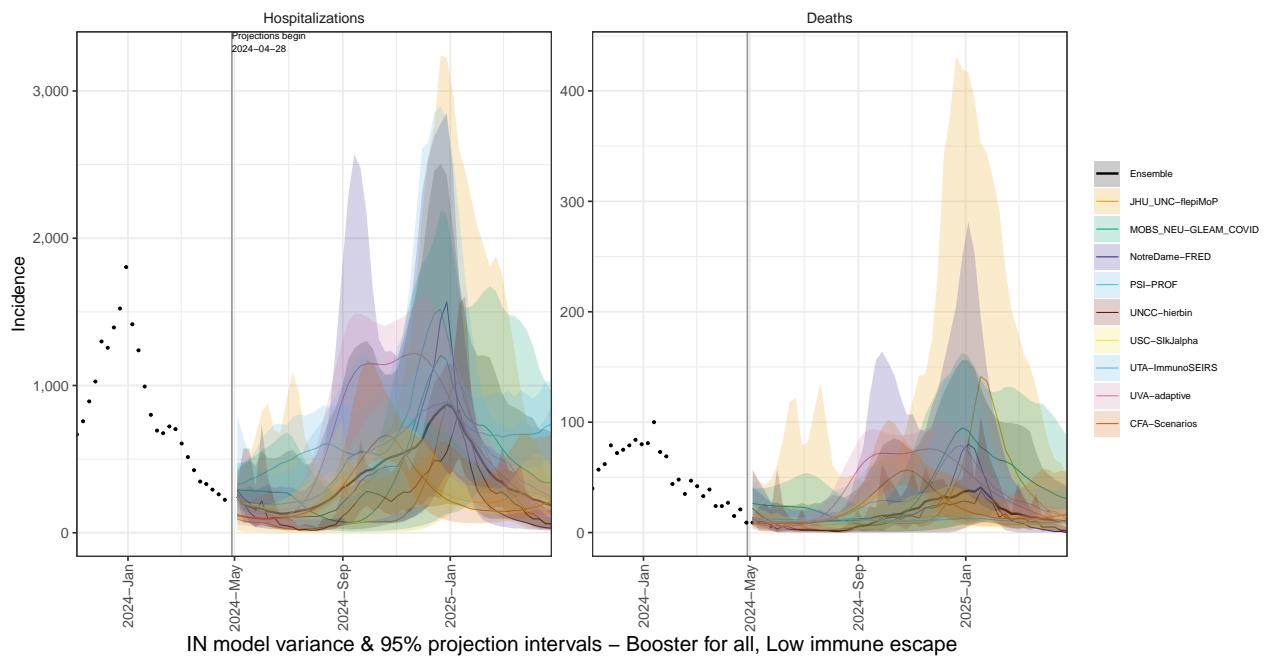
HI model variance & 95% projection intervals – Booster for all, Low immune escape



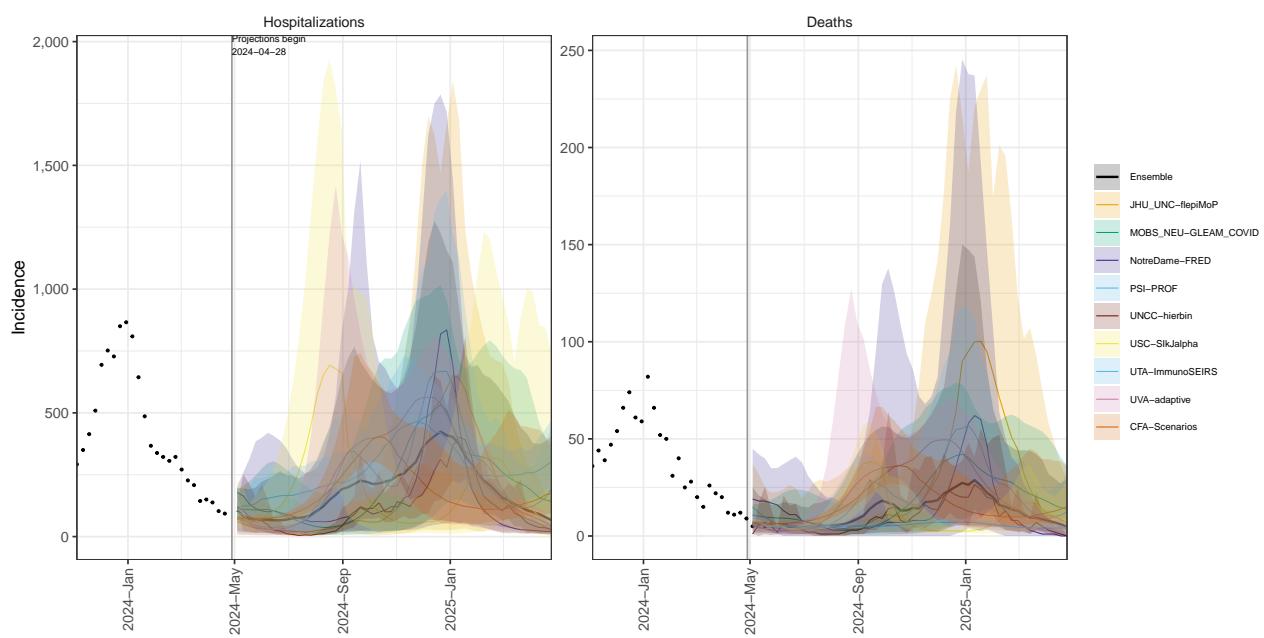
ID model variance & 95% projection intervals – Booster for all, Low immune escape



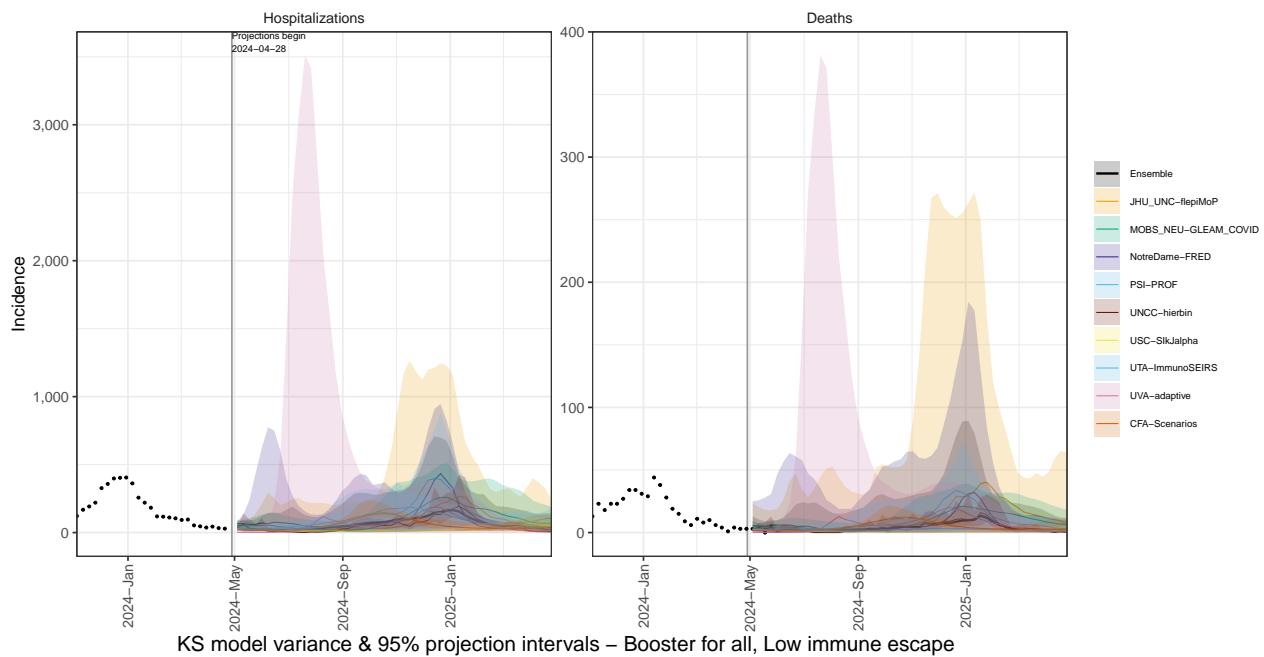
IL model variance & 95% projection intervals – Booster for all, Low immune escape



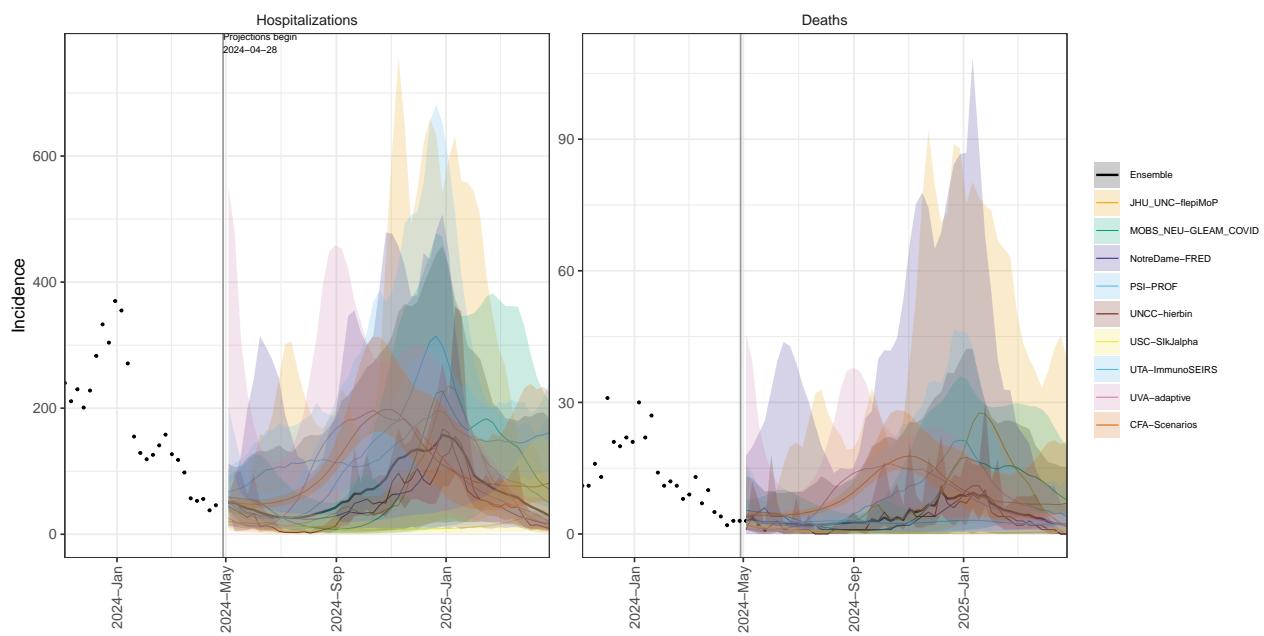
IN model variance & 95% projection intervals – Booster for all, Low immune escape



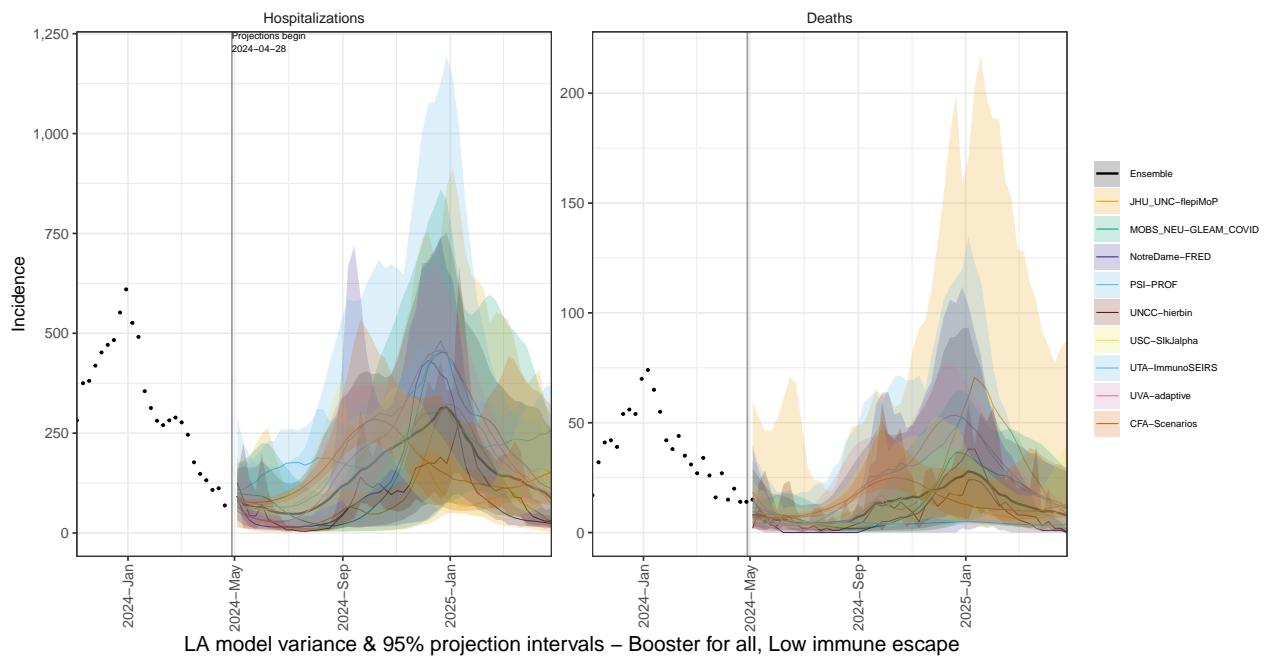
IA model variance & 95% projection intervals – Booster for all, Low immune escape



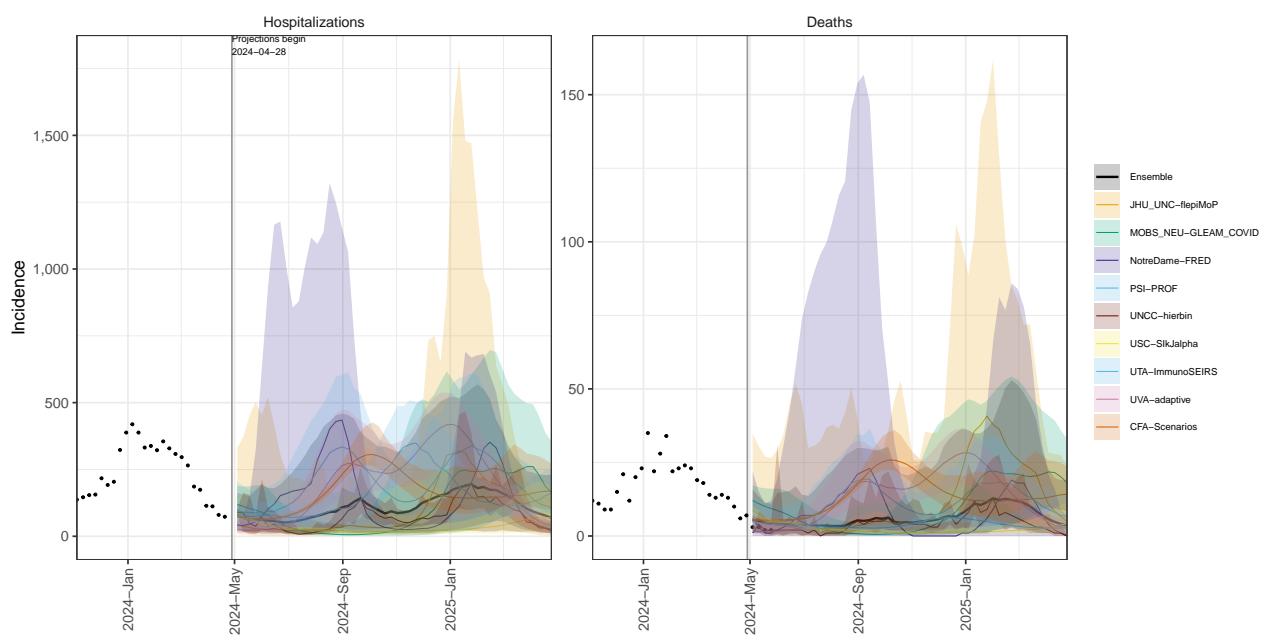
KS model variance & 95% projection intervals – Booster for all, Low immune escape



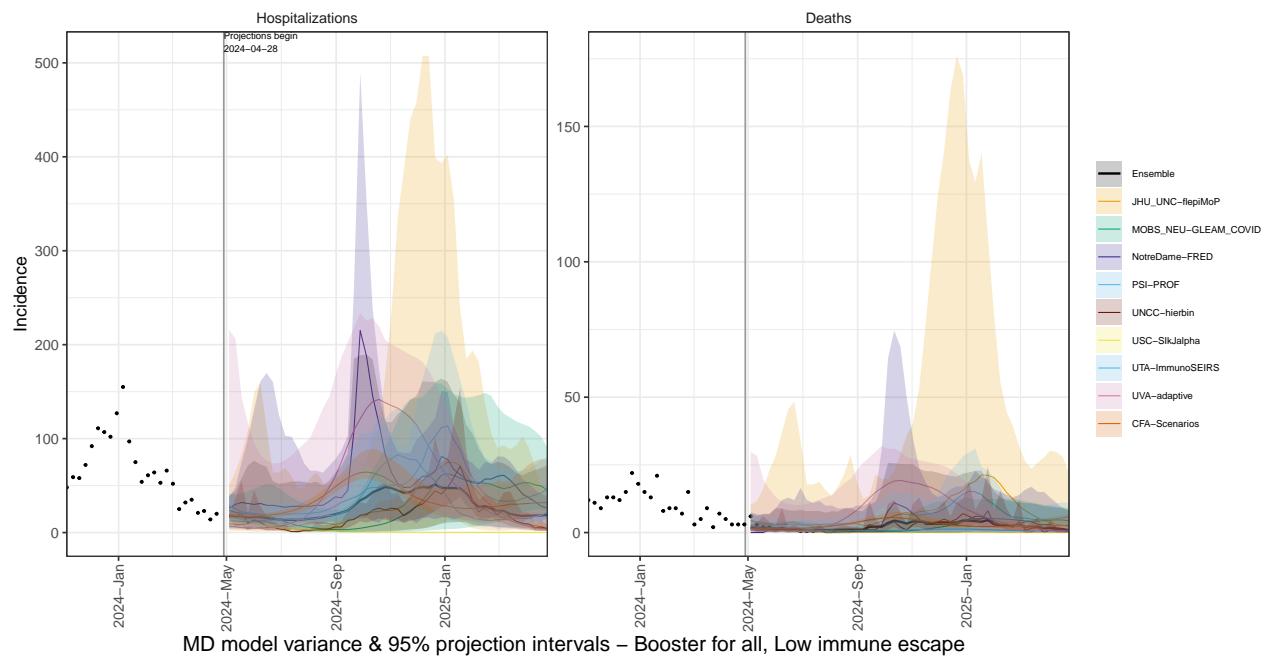
KY model variance & 95% projection intervals – Booster for all, Low immune escape



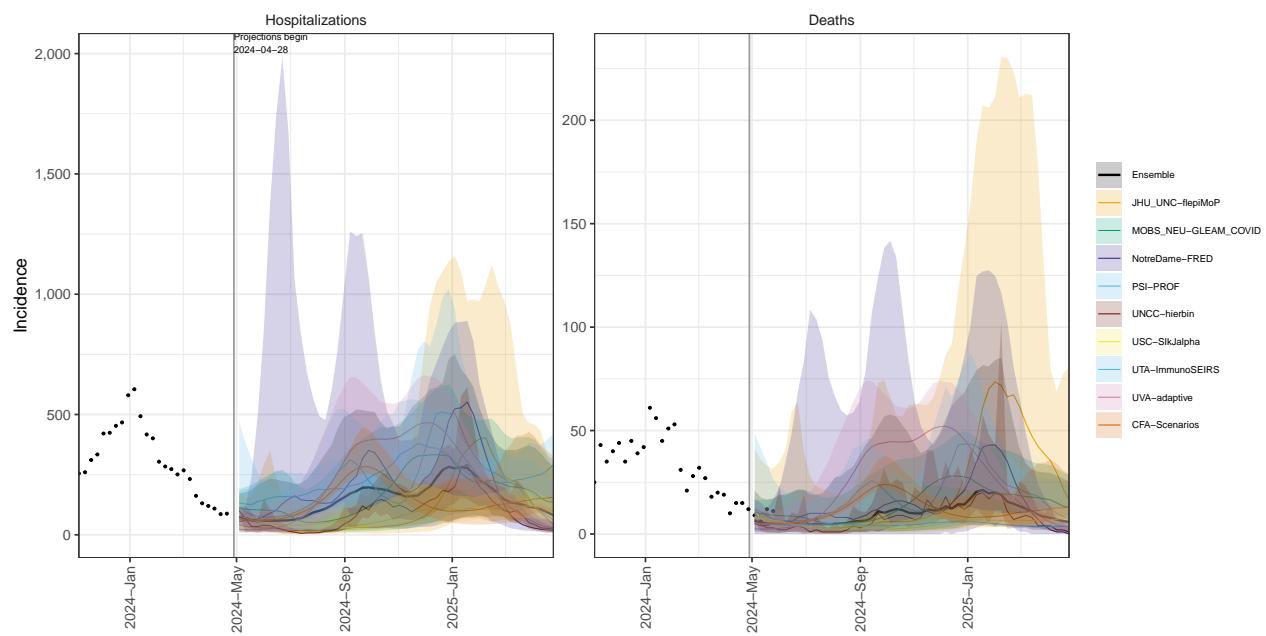
LA model variance & 95% projection intervals – Booster for all, Low immune escape



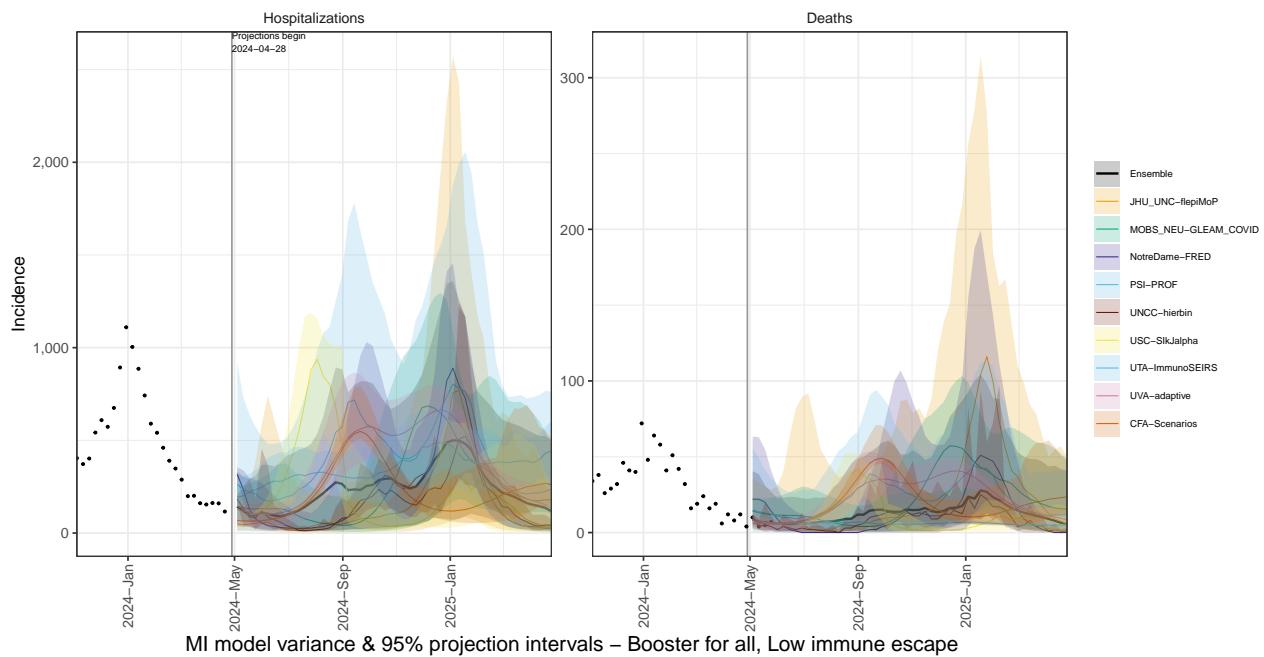
ME model variance & 95% projection intervals – Booster for all, Low immune escape



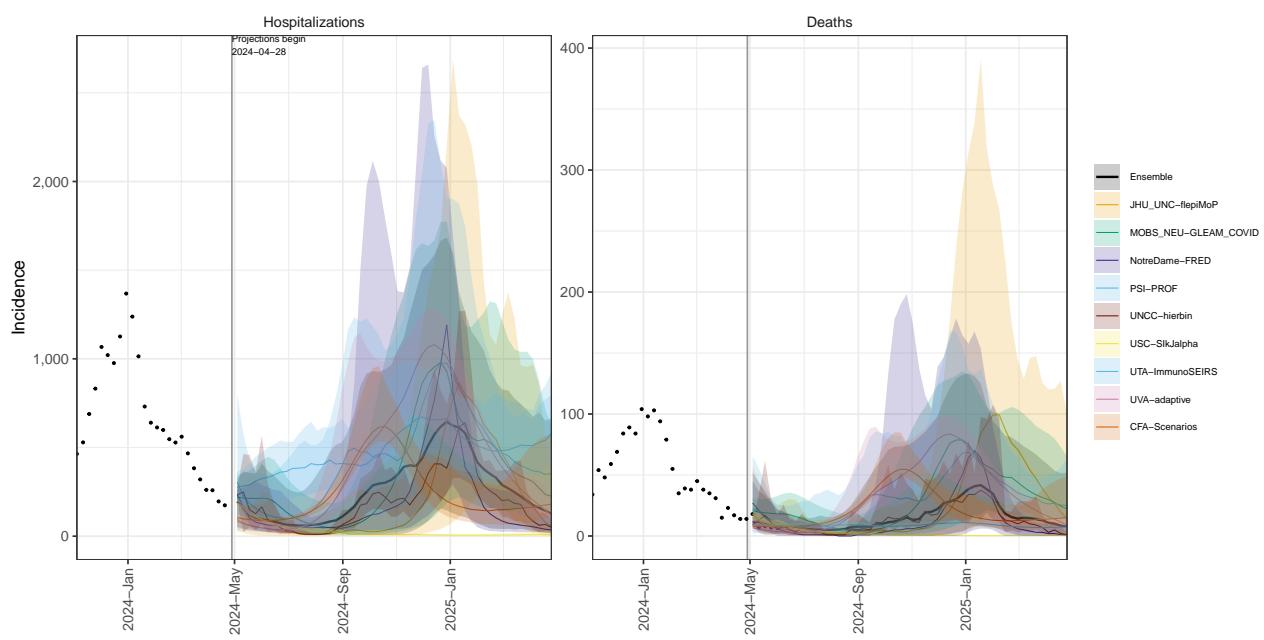
MD model variance & 95% projection intervals – Booster for all, Low immune escape



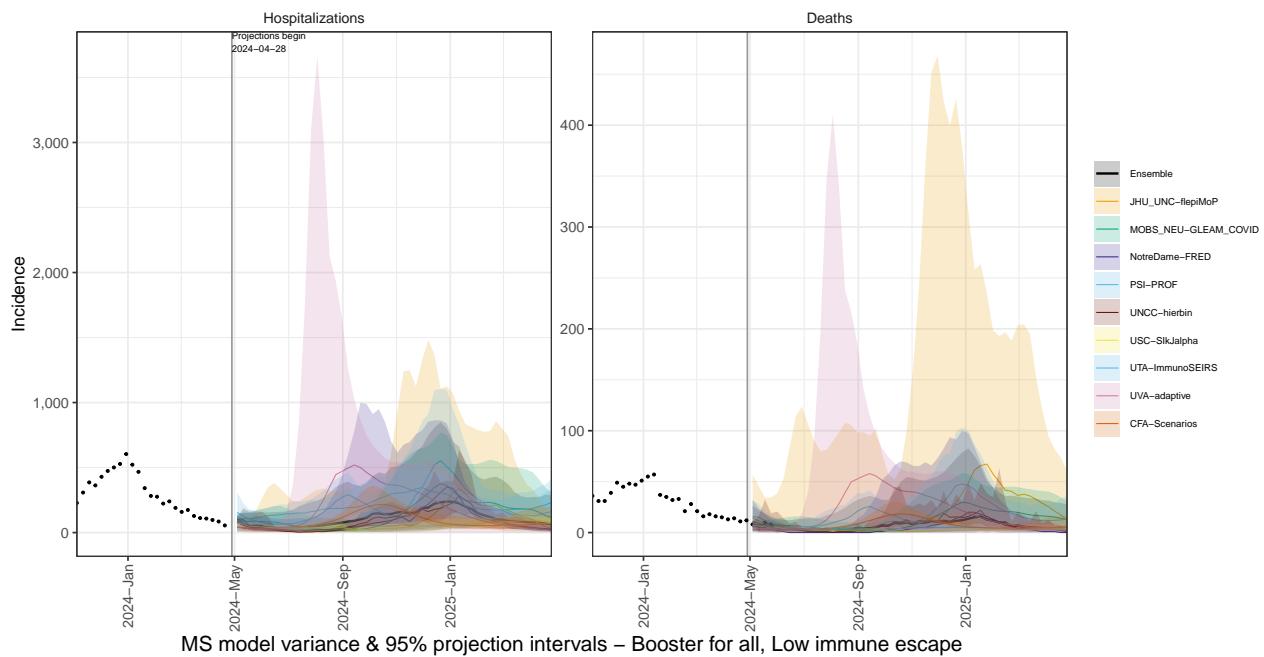
MA model variance & 95% projection intervals – Booster for all, Low immune escape



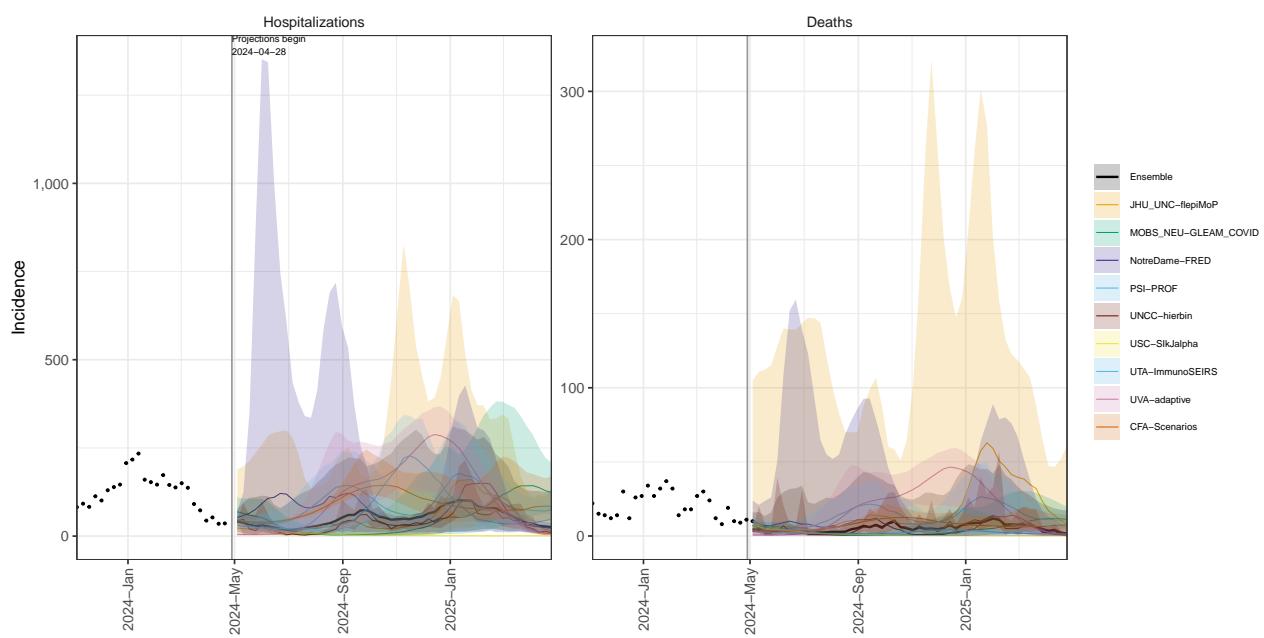
MI model variance & 95% projection intervals – Booster for all, Low immune escape



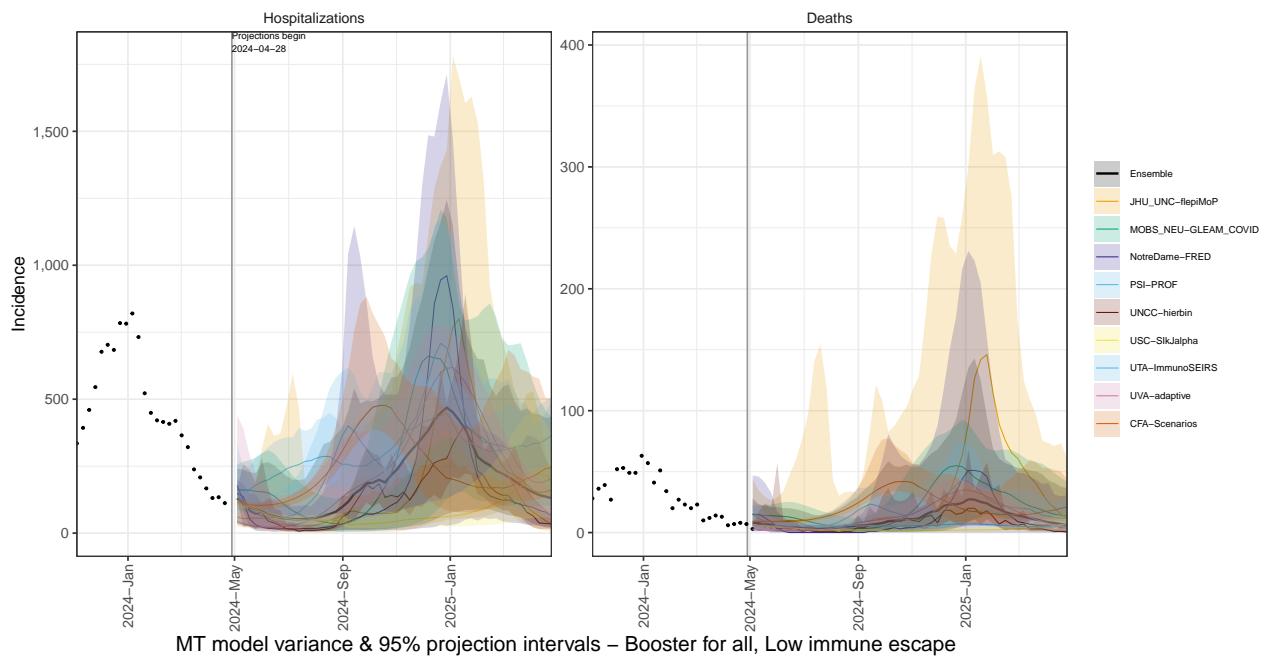
MN model variance & 95% projection intervals – Booster for all, Low immune escape



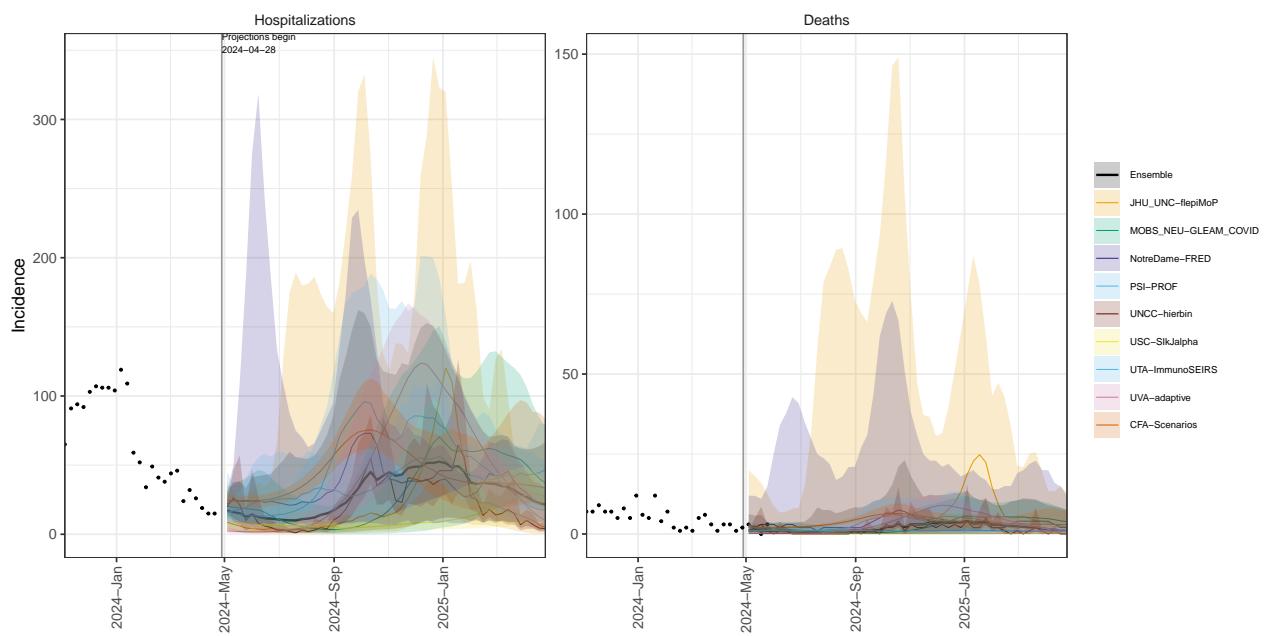
MS model variance & 95% projection intervals – Booster for all, Low immune escape



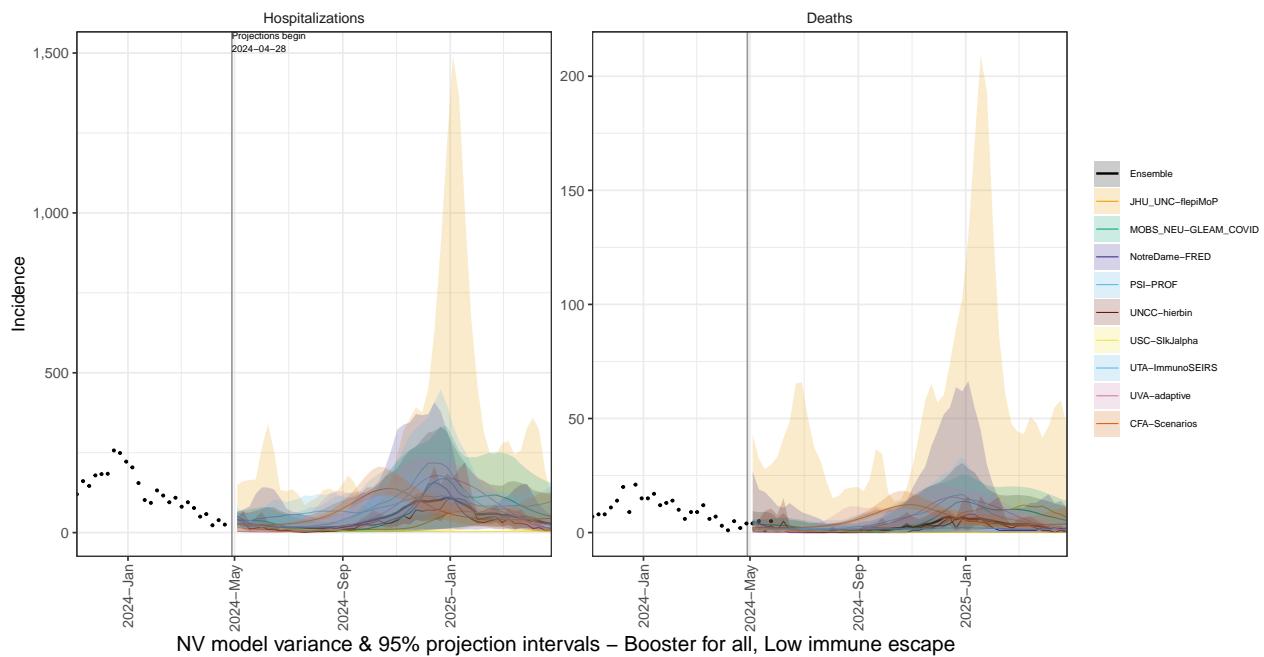
MO model variance & 95% projection intervals – Booster for all, Low immune escape



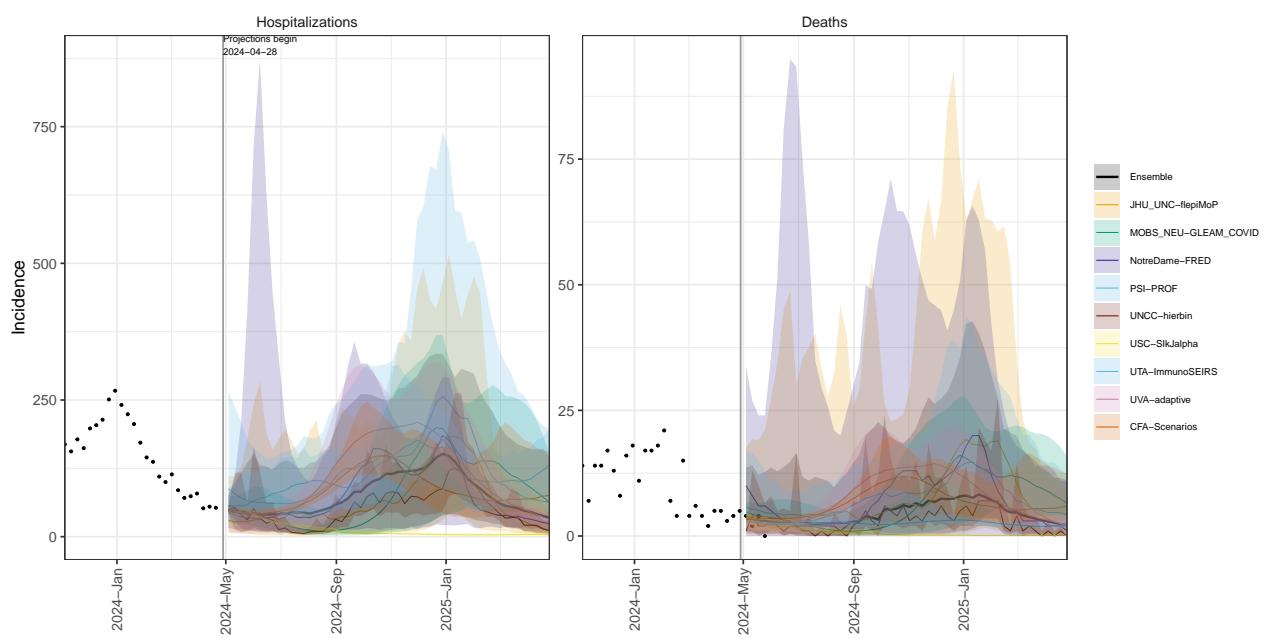
MT model variance & 95% projection intervals – Booster for all, Low immune escape



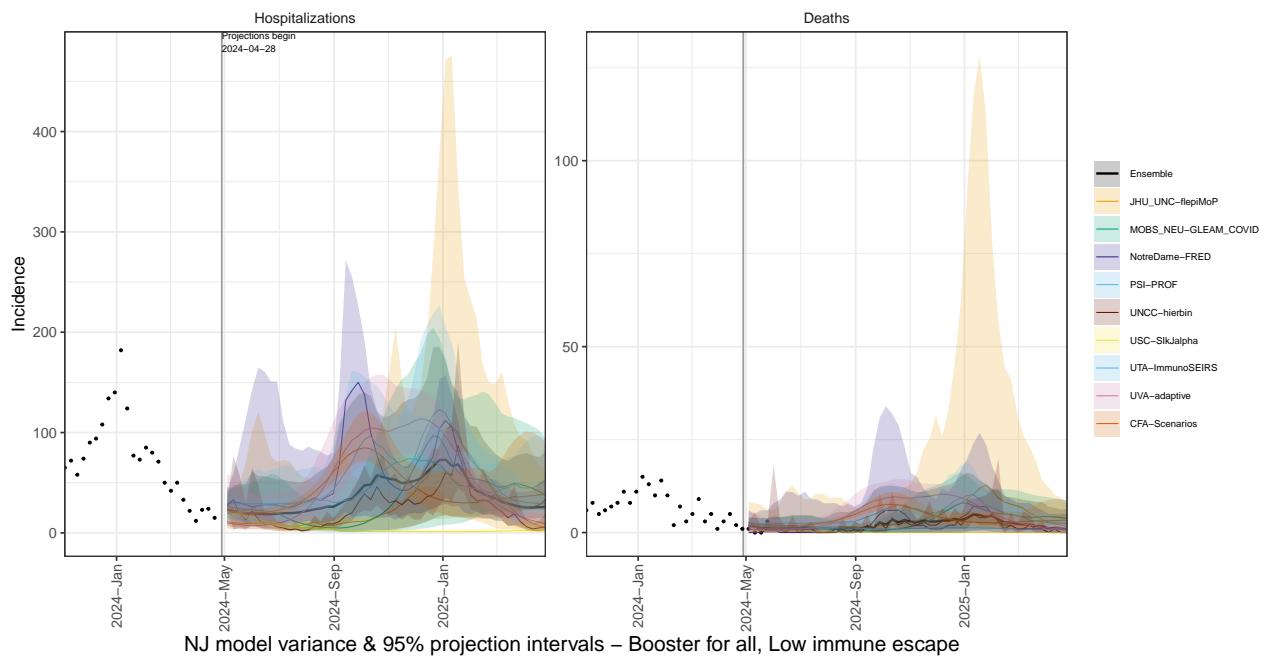
NE model variance & 95% projection intervals – Booster for all, Low immune escape



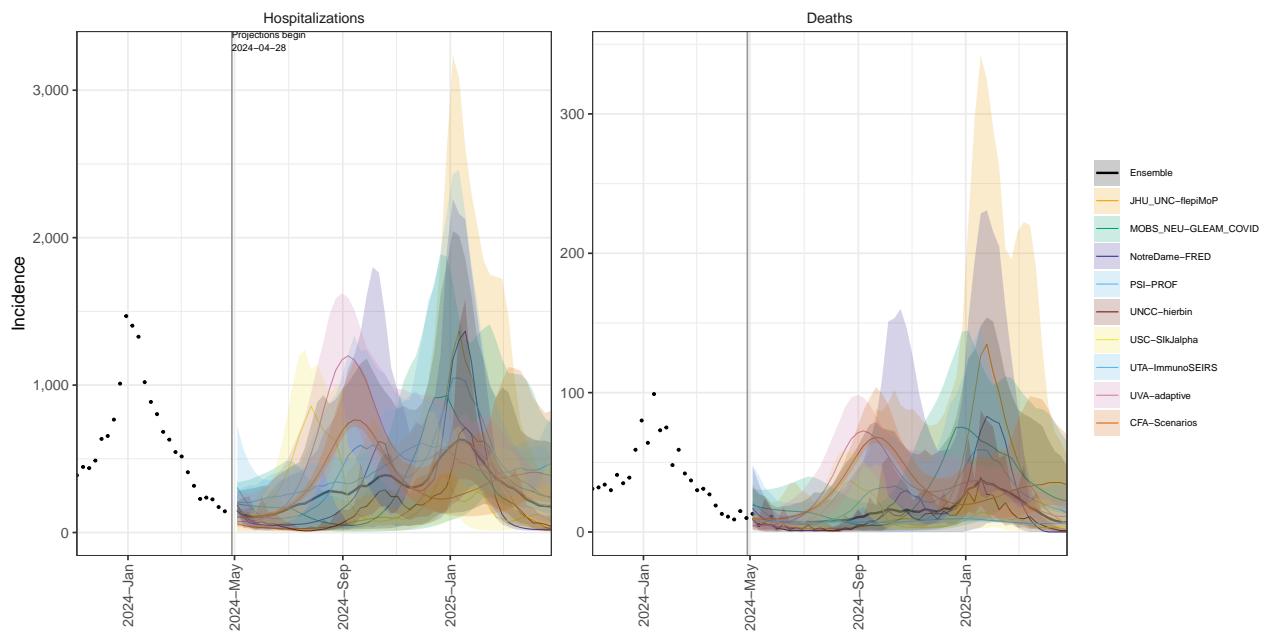
NV model variance & 95% projection intervals – Booster for all, Low immune escape



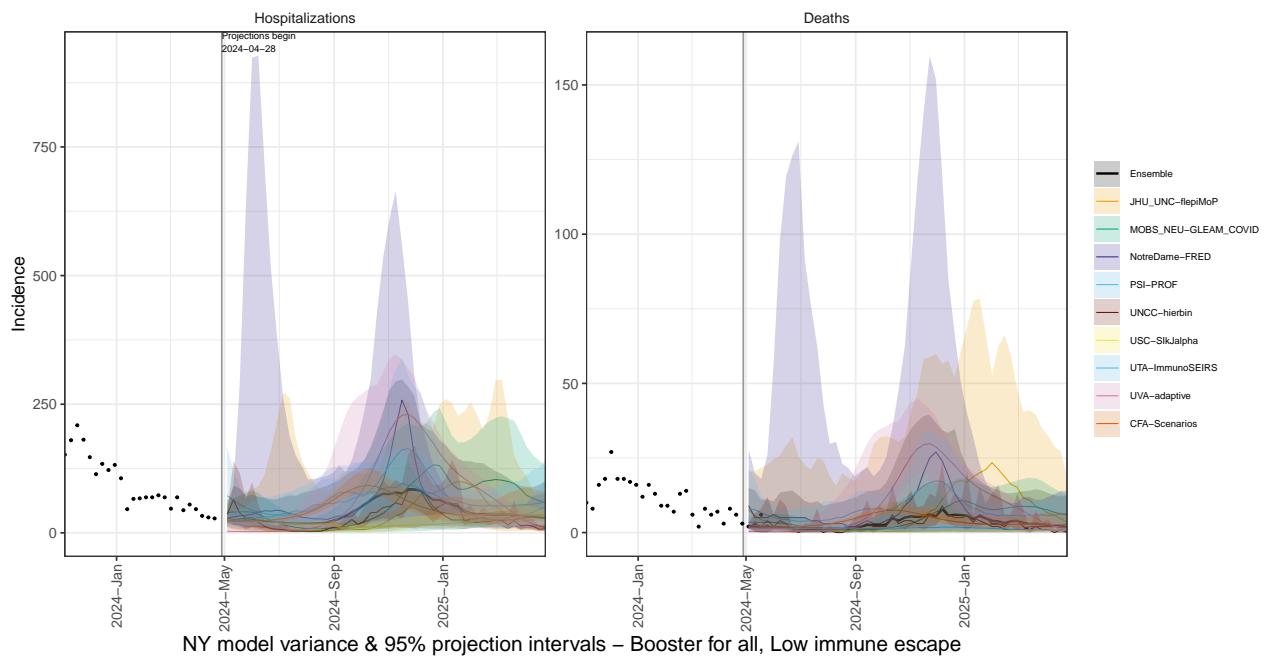
NH model variance & 95% projection intervals – Booster for all, Low immune escape



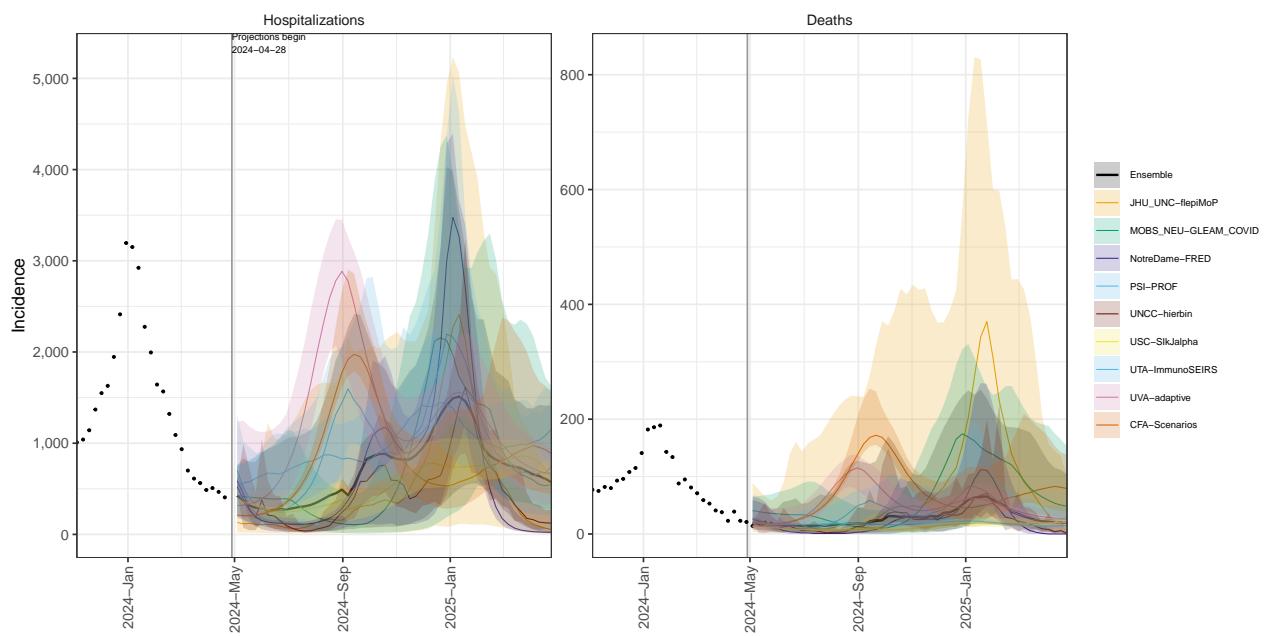
NJ model variance & 95% projection intervals – Booster for all, Low immune escape



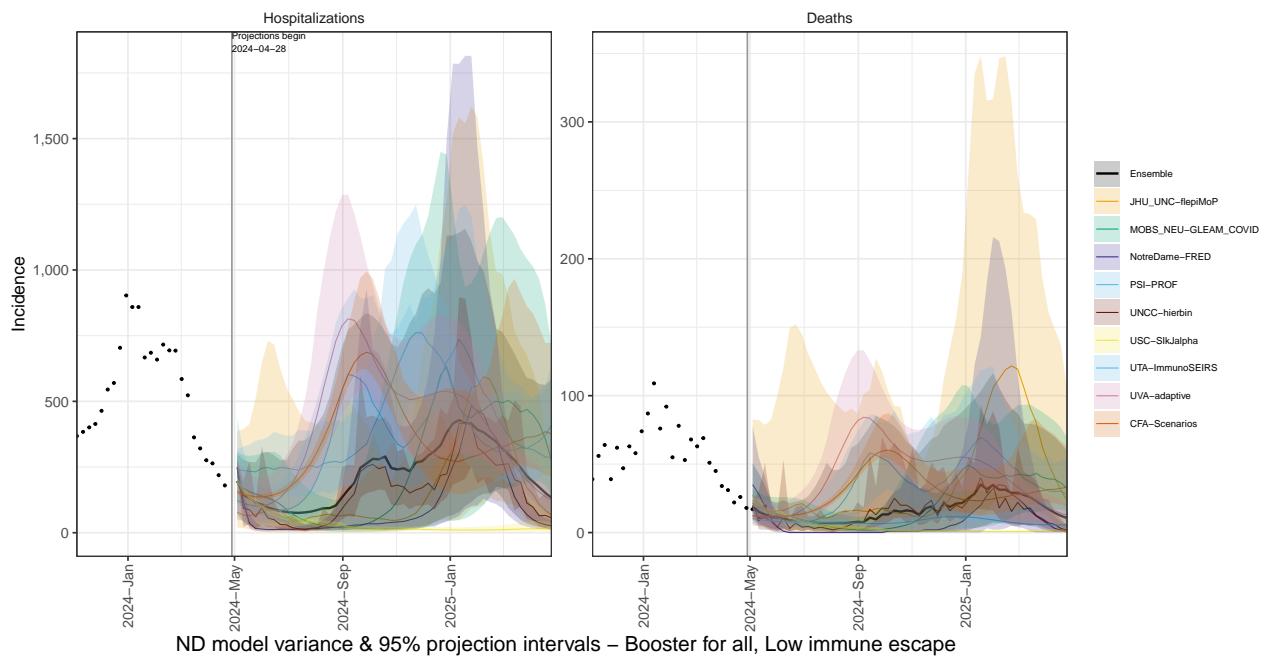
NM model variance & 95% projection intervals – Booster for all, Low immune escape



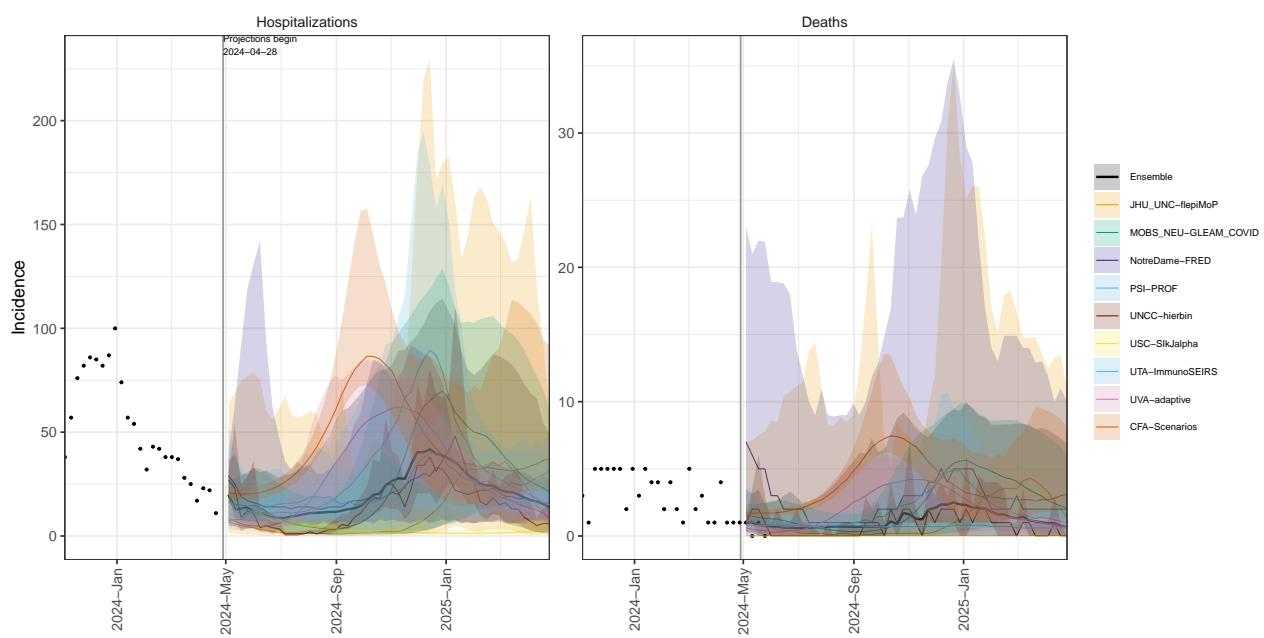
NY model variance & 95% projection intervals – Booster for all, Low immune escape



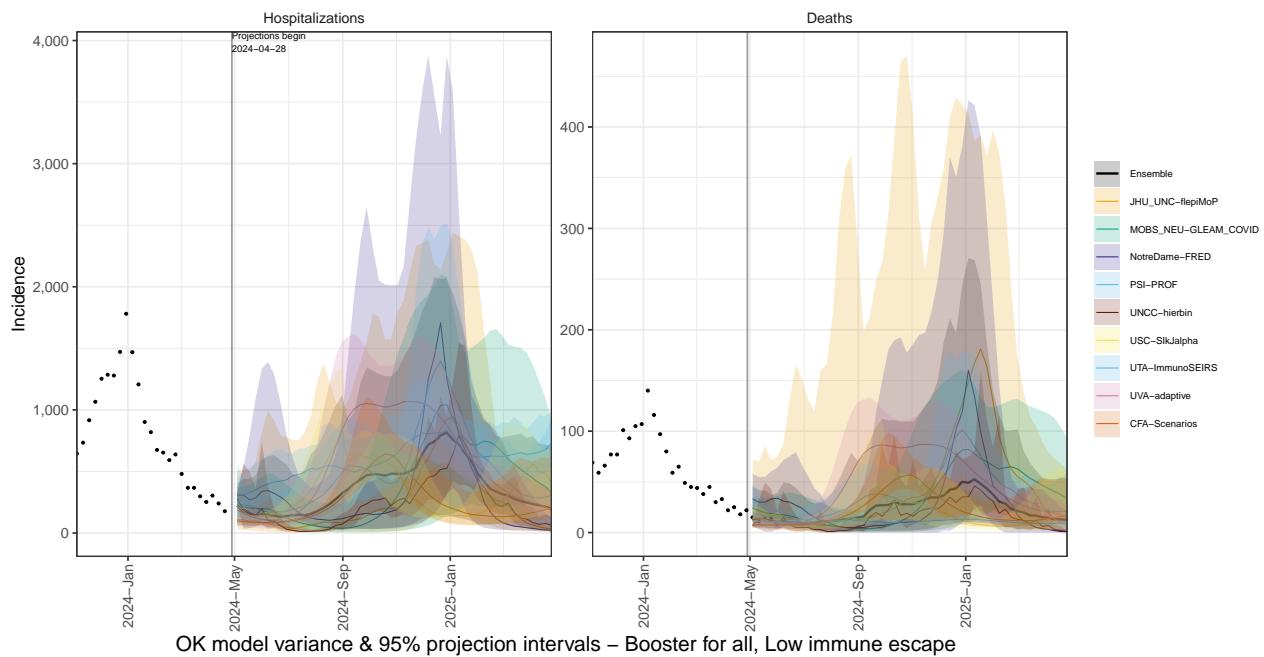
NC model variance & 95% projection intervals – Booster for all, Low immune escape



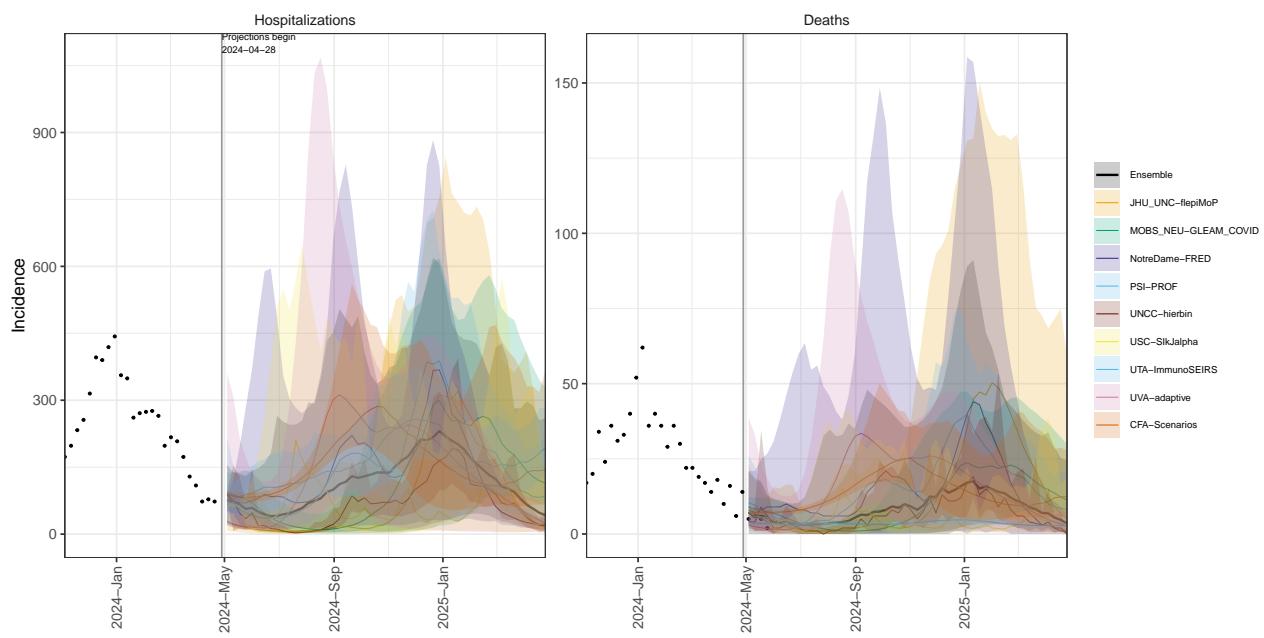
ND model variance & 95% projection intervals – Booster for all, Low immune escape



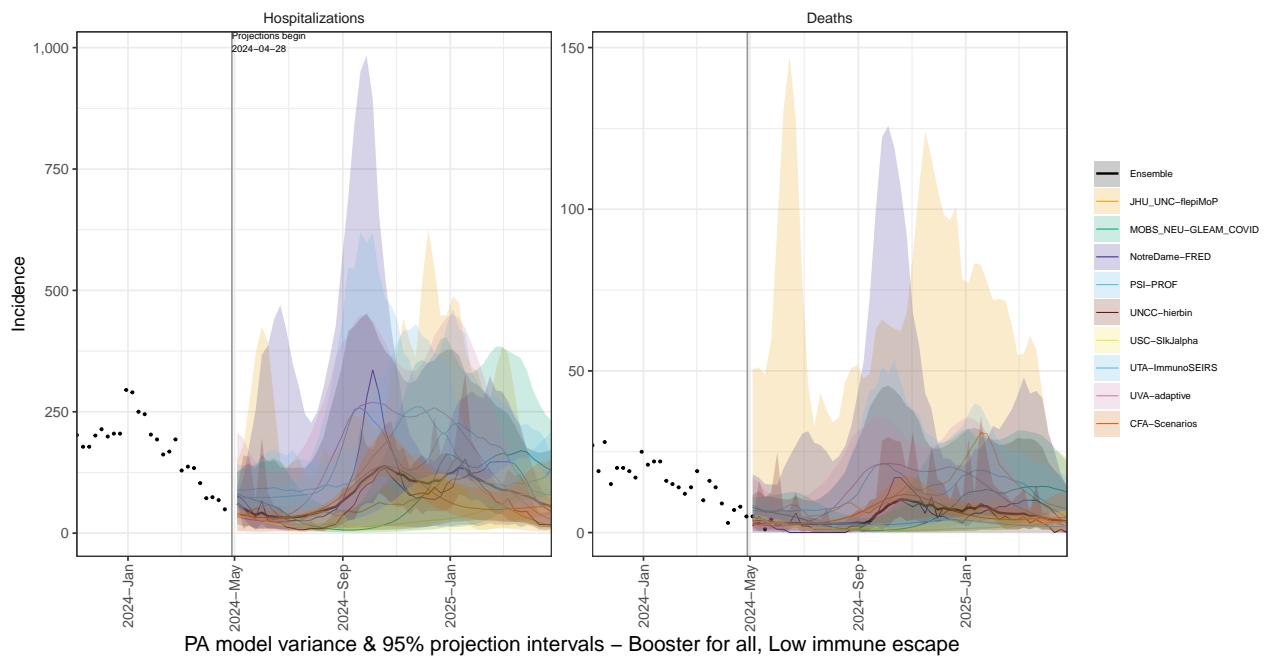
OH model variance & 95% projection intervals – Booster for all, Low immune escape



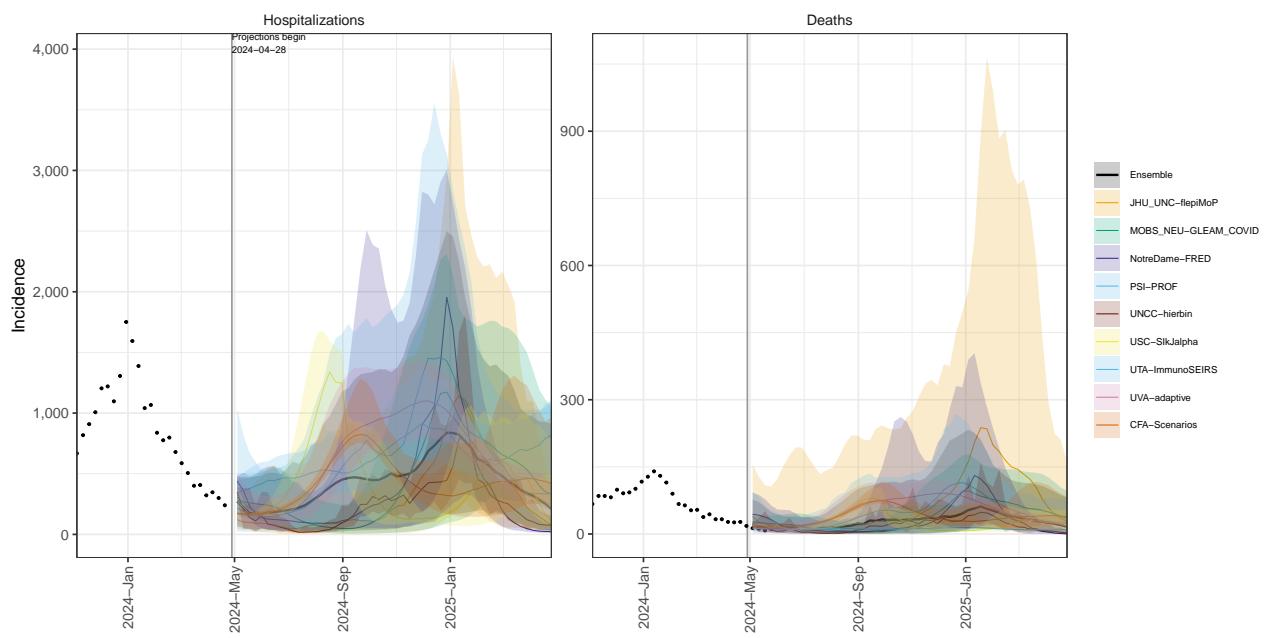
OK model variance & 95% projection intervals – Booster for all, Low immune escape



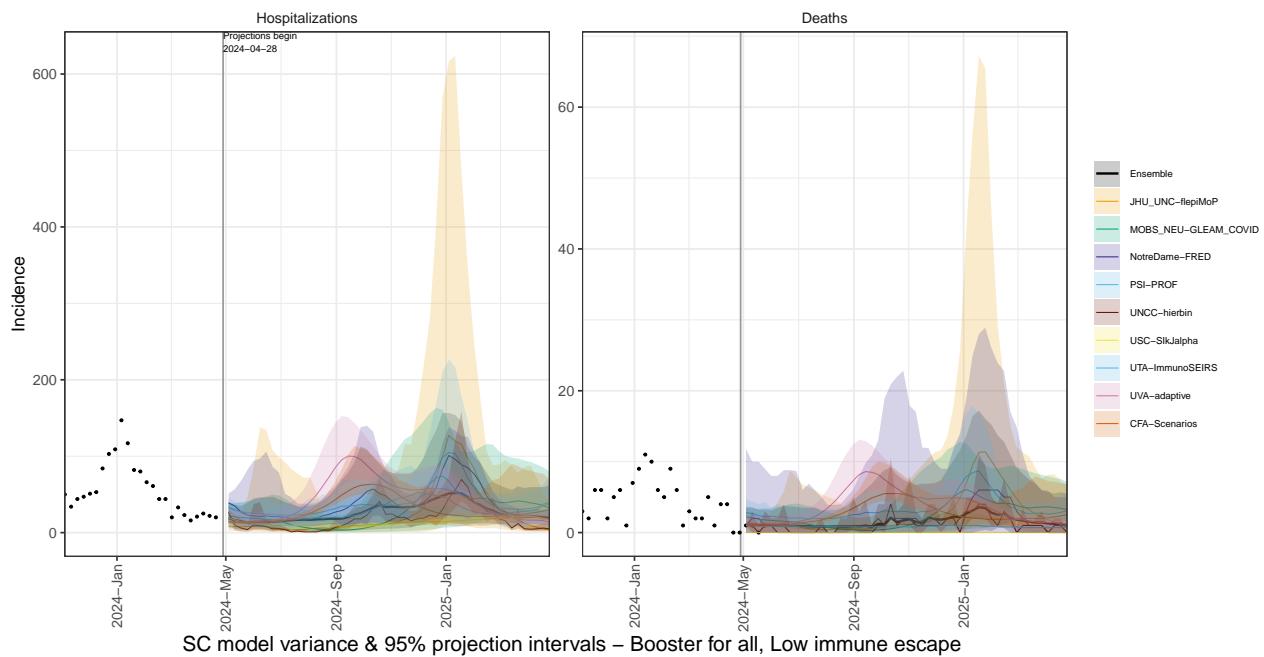
OR model variance & 95% projection intervals – Booster for all, Low immune escape



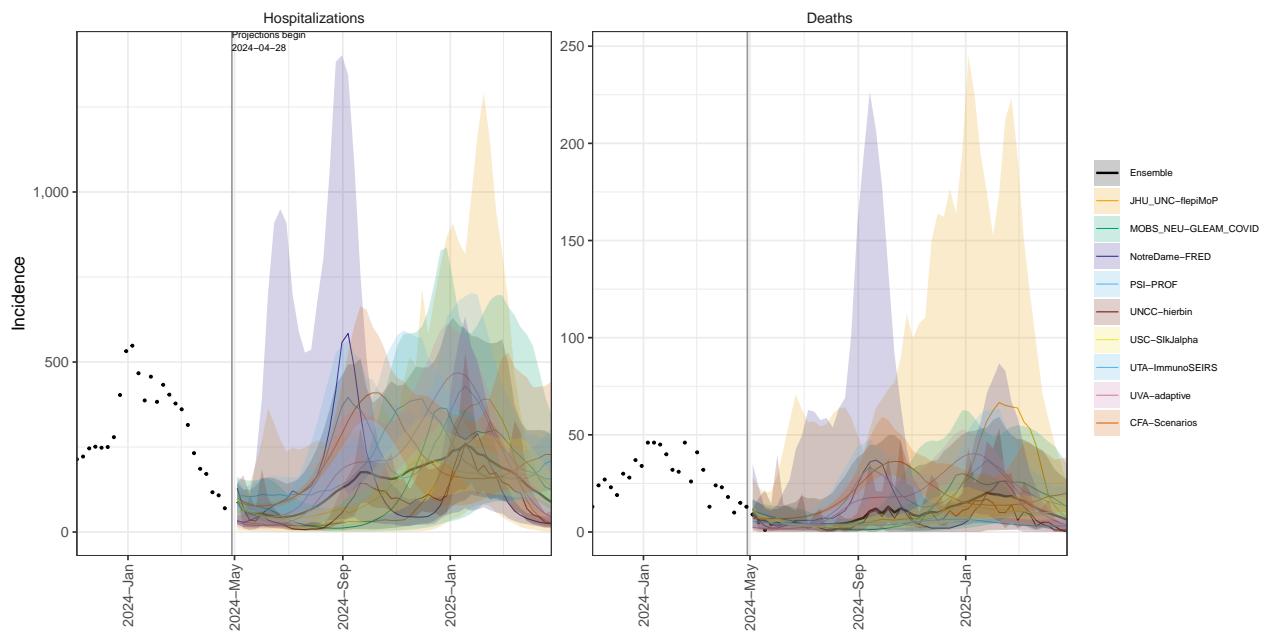
PA model variance & 95% projection intervals – Booster for all, Low immune escape



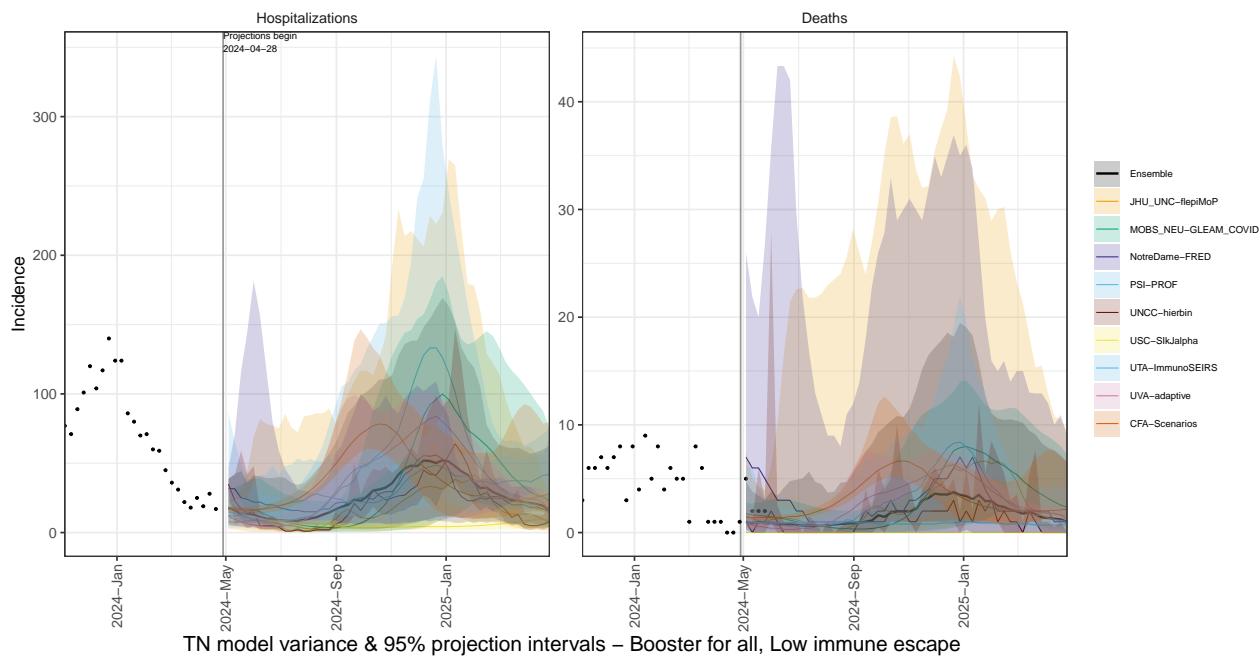
RI model variance & 95% projection intervals – Booster for all, Low immune escape



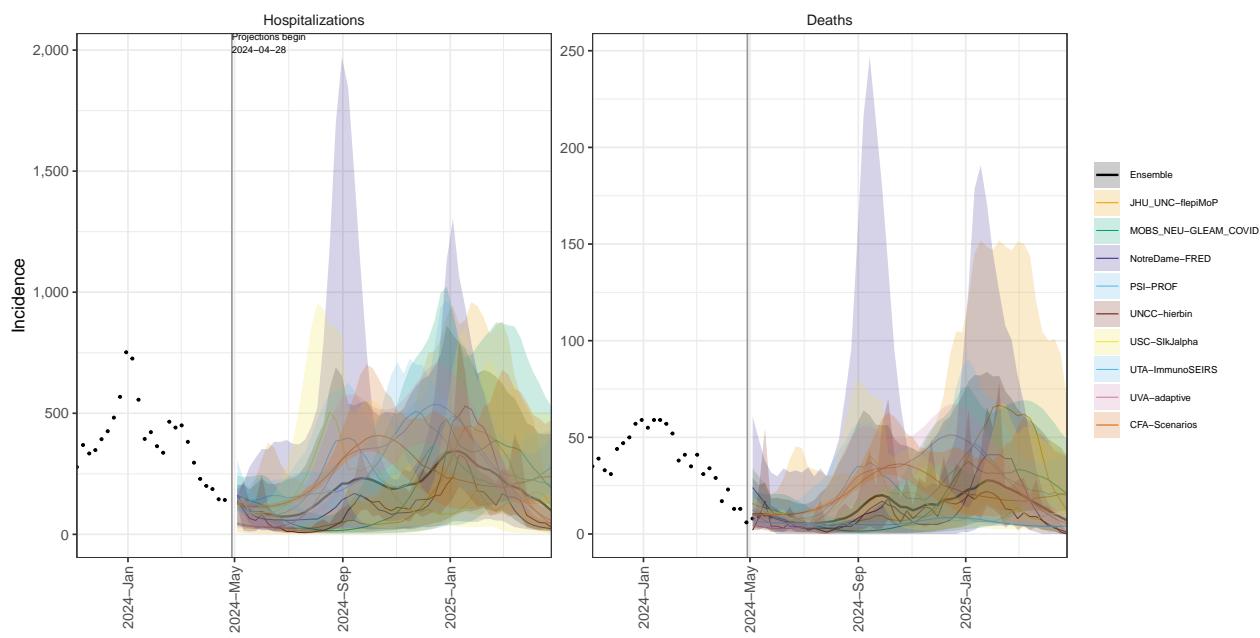
SC model variance & 95% projection intervals – Booster for all, Low immune escape



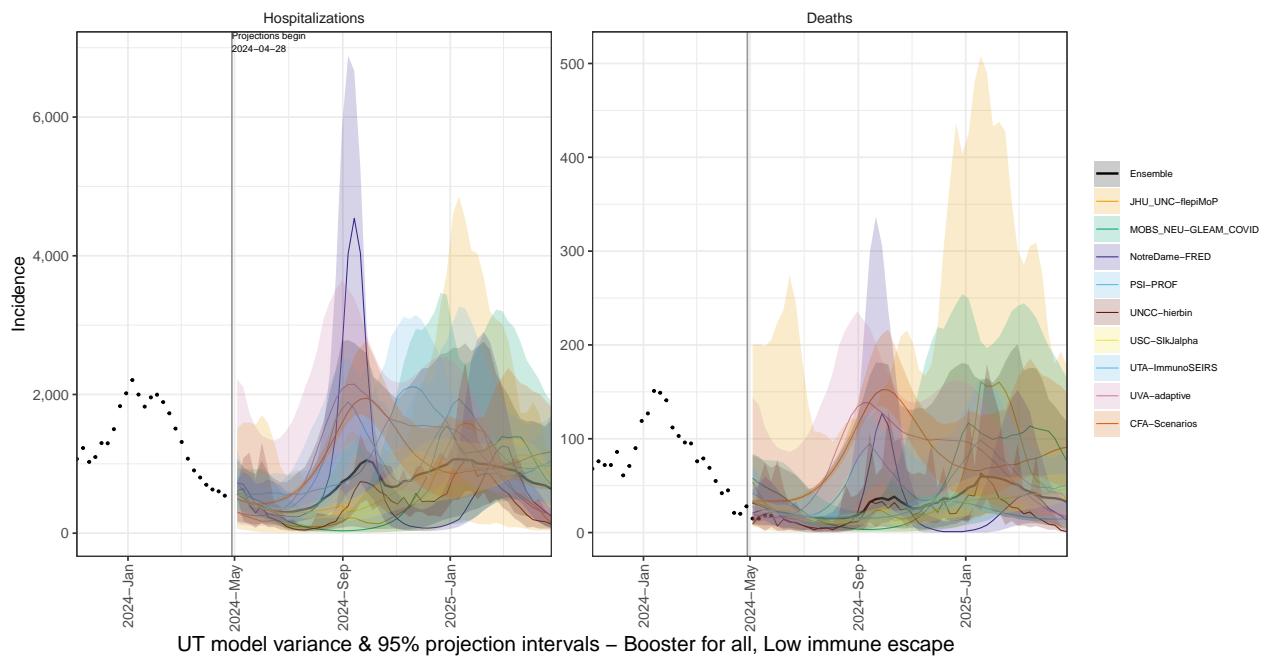
SD model variance & 95% projection intervals – Booster for all, Low immune escape



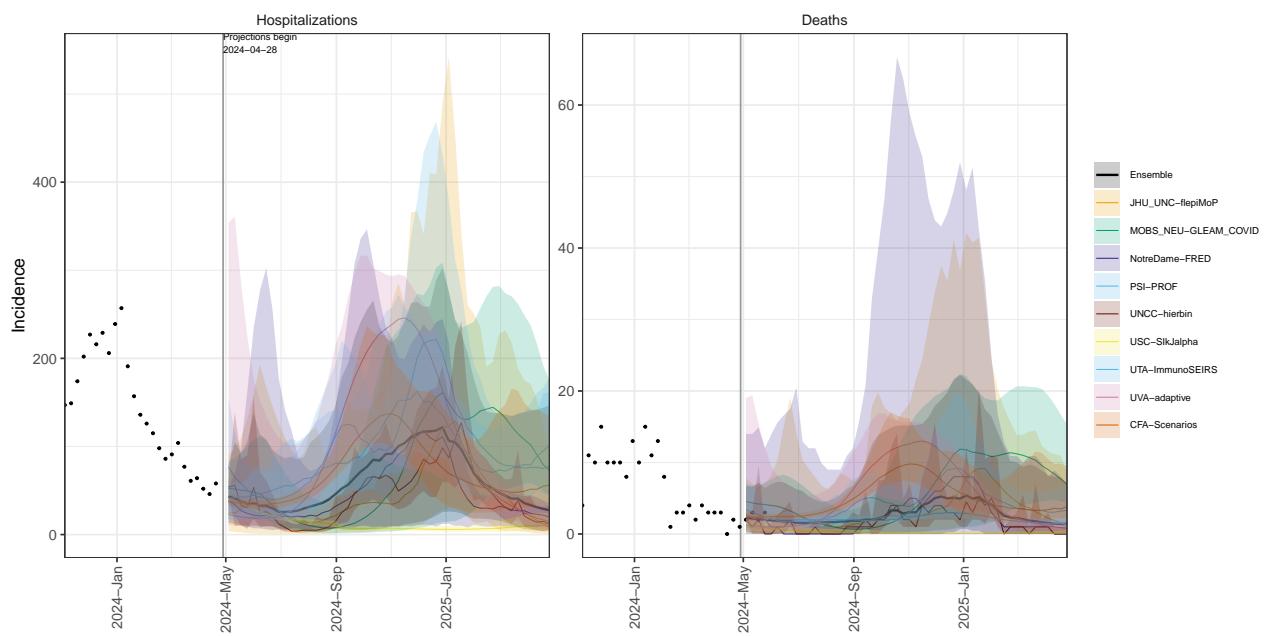
TN model variance & 95% projection intervals – Booster for all, Low immune escape



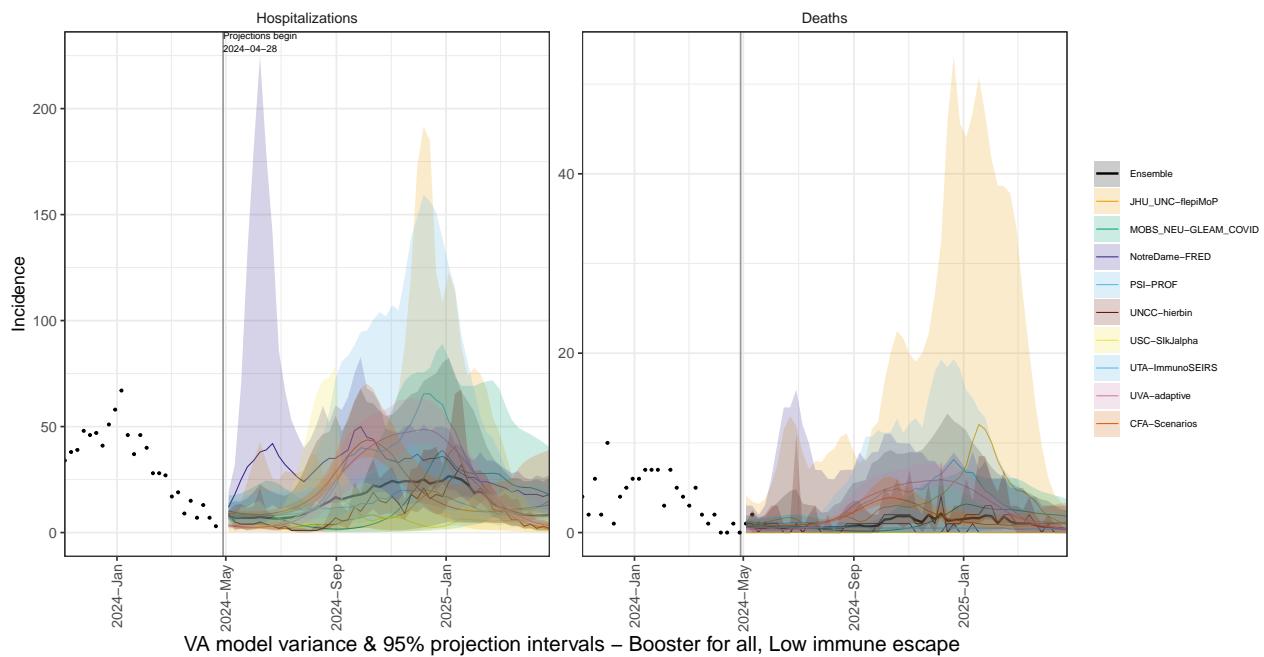
TX model variance & 95% projection intervals – Booster for all, Low immune escape



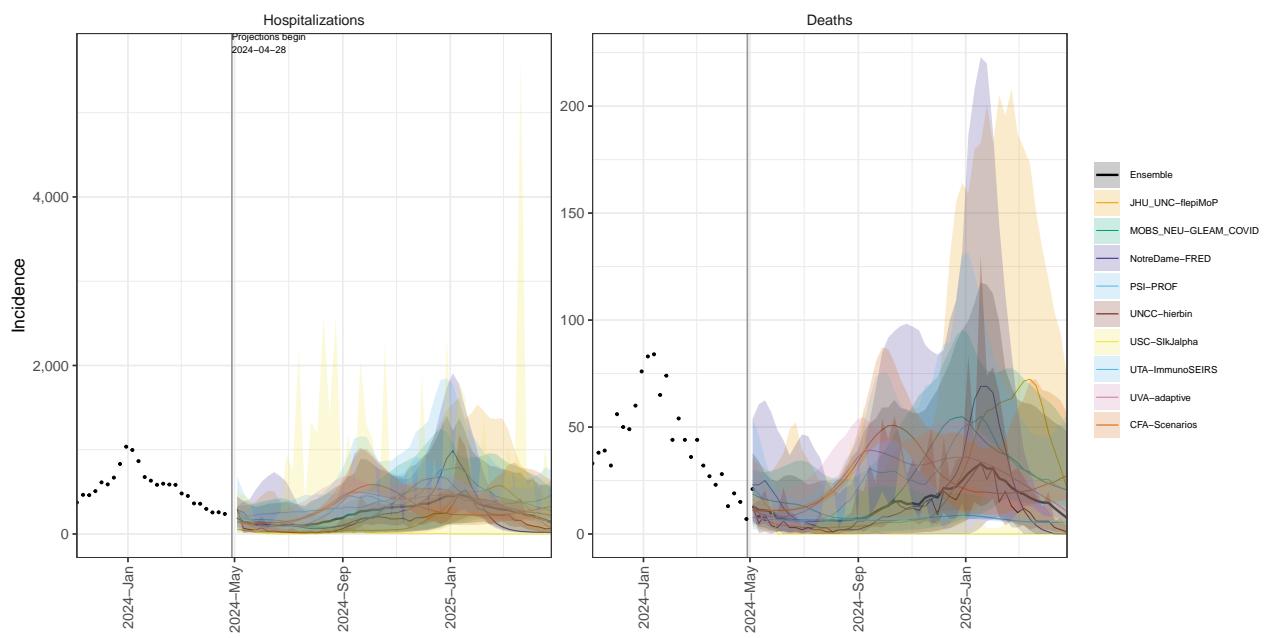
UT model variance & 95% projection intervals – Booster for all, Low immune escape



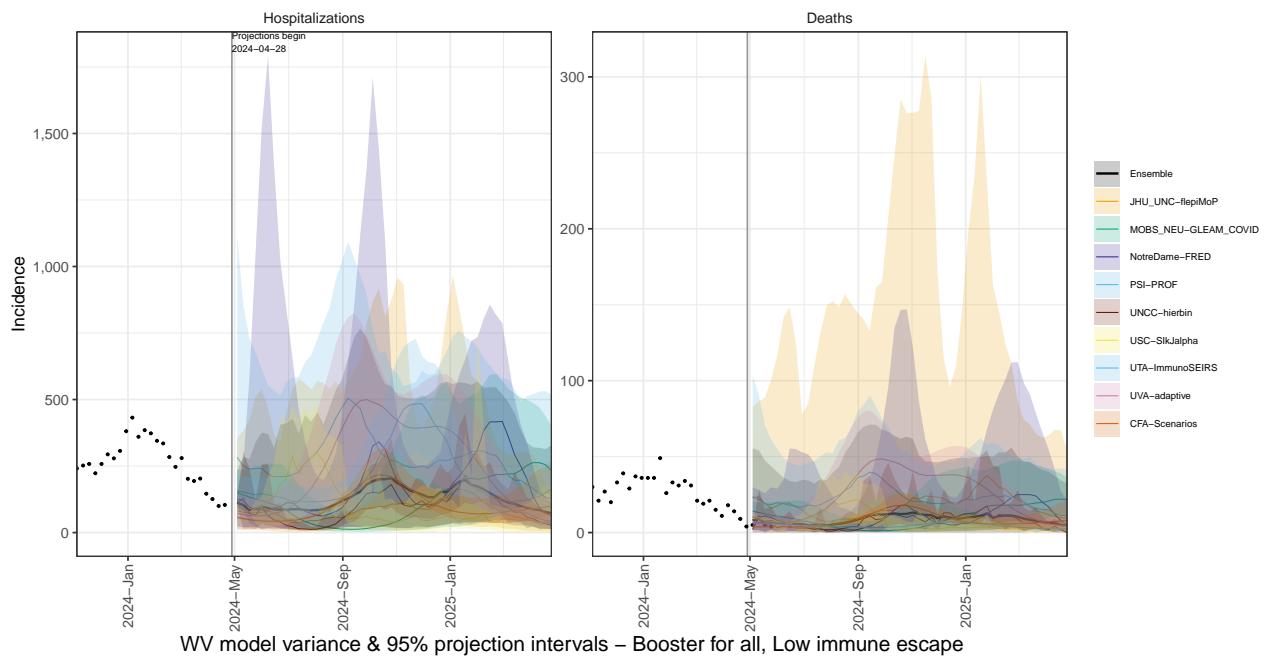
VT model variance & 95% projection intervals – Booster for all, Low immune escape



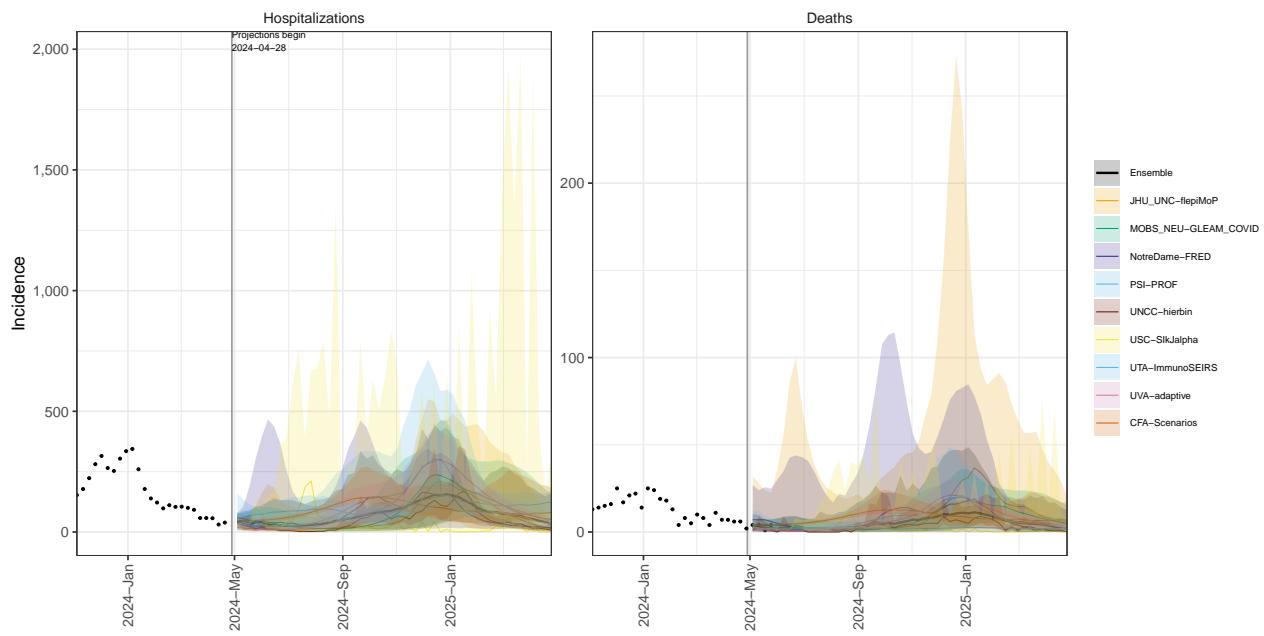
VA model variance & 95% projection intervals – Booster for all, Low immune escape



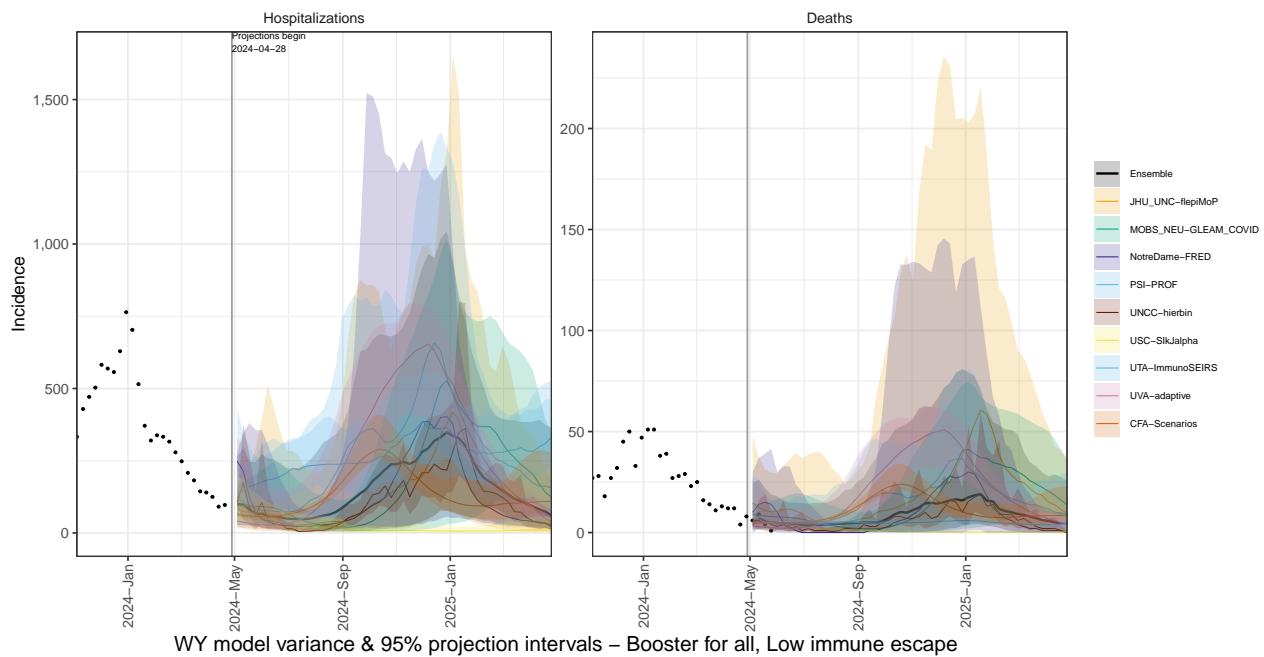
WA model variance & 95% projection intervals – Booster for all, Low immune escape



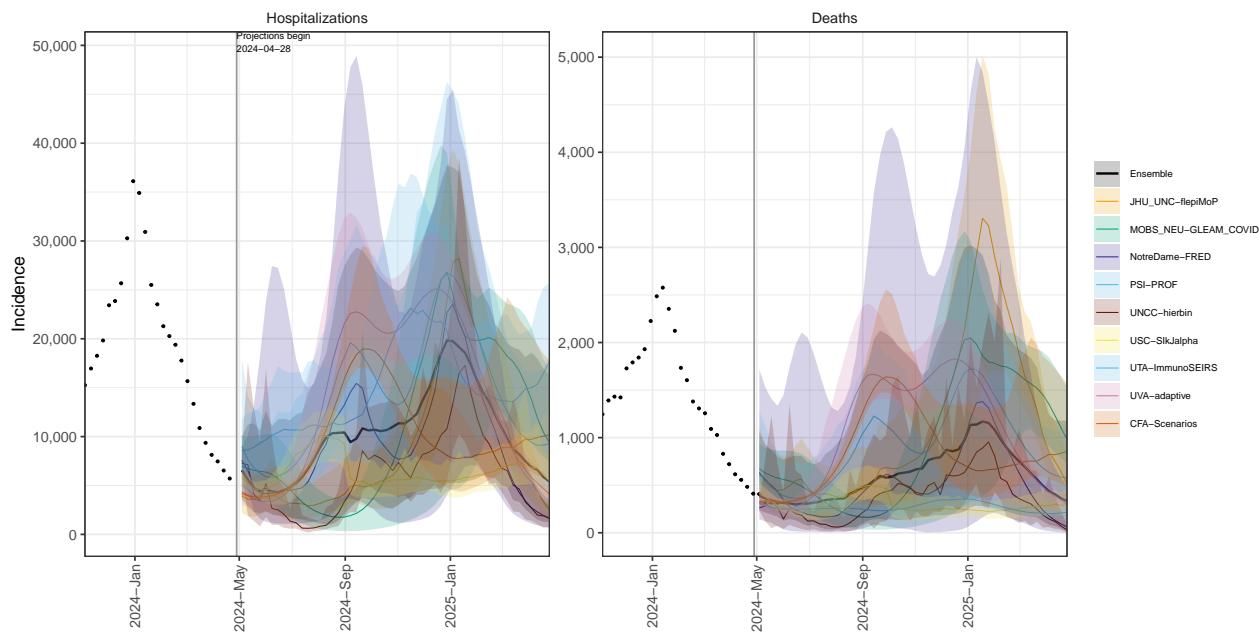
WV model variance & 95% projection intervals – Booster for all, Low immune escape



WI model variance & 95% projection intervals – Booster for all, Low immune escape

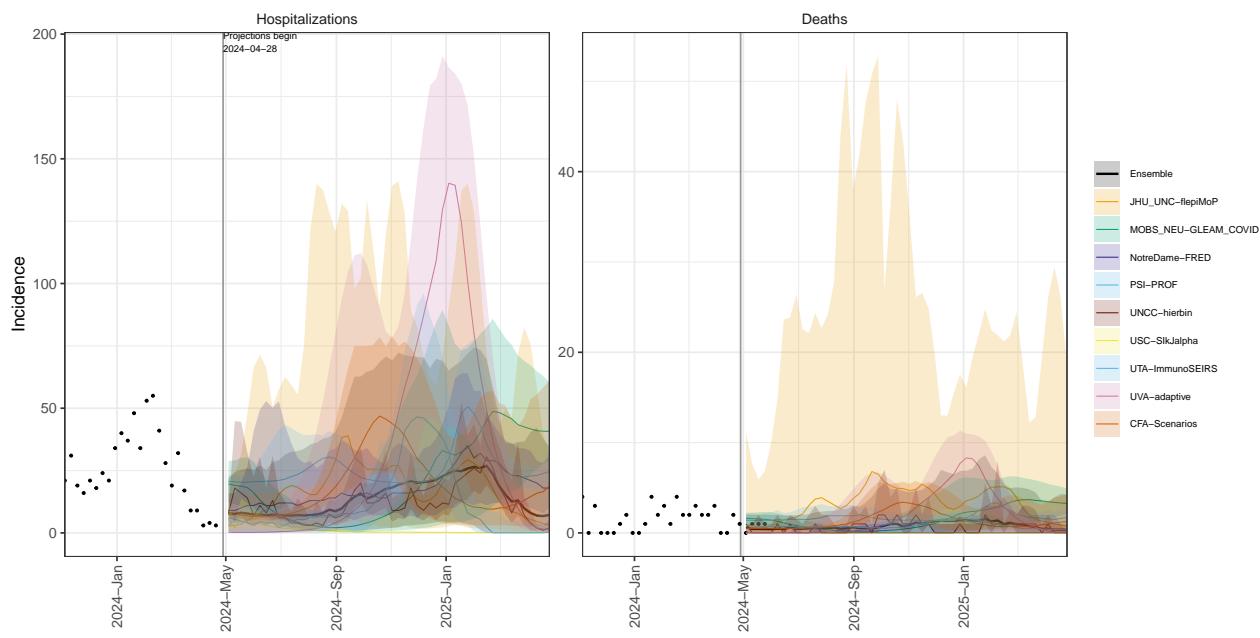


US model variance & 95% projection intervals – Booster for all, Low immune escape

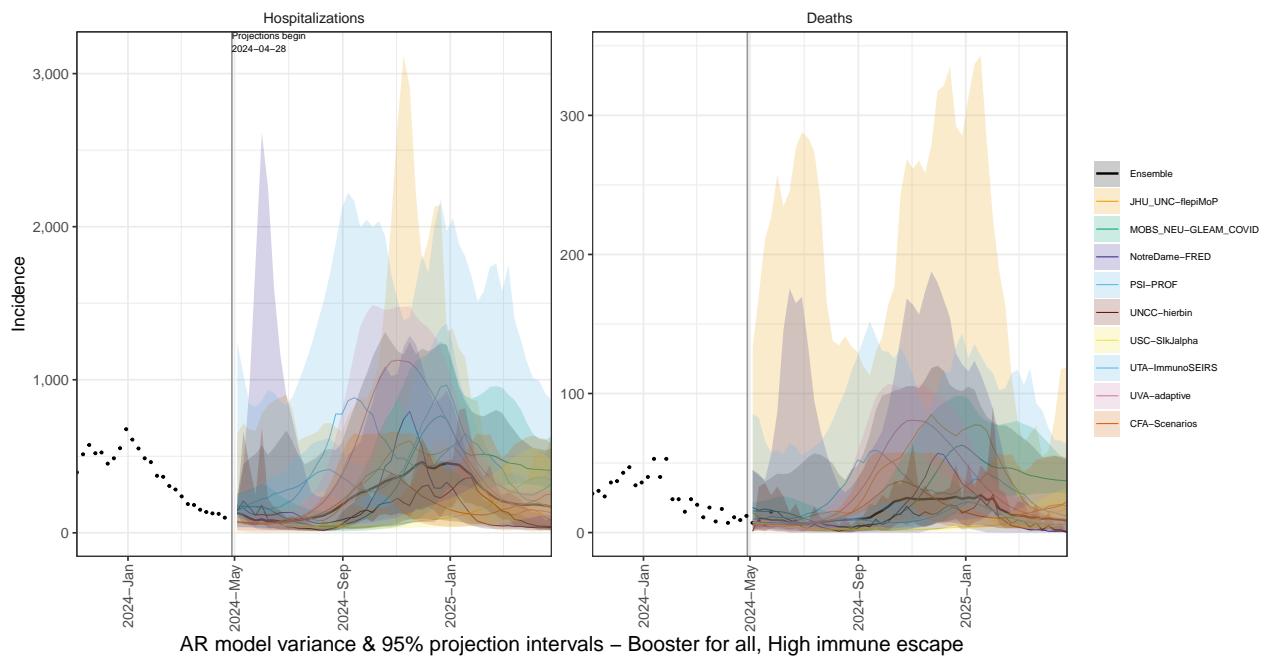


Model variation for Booster for all, High immune escape scenario.

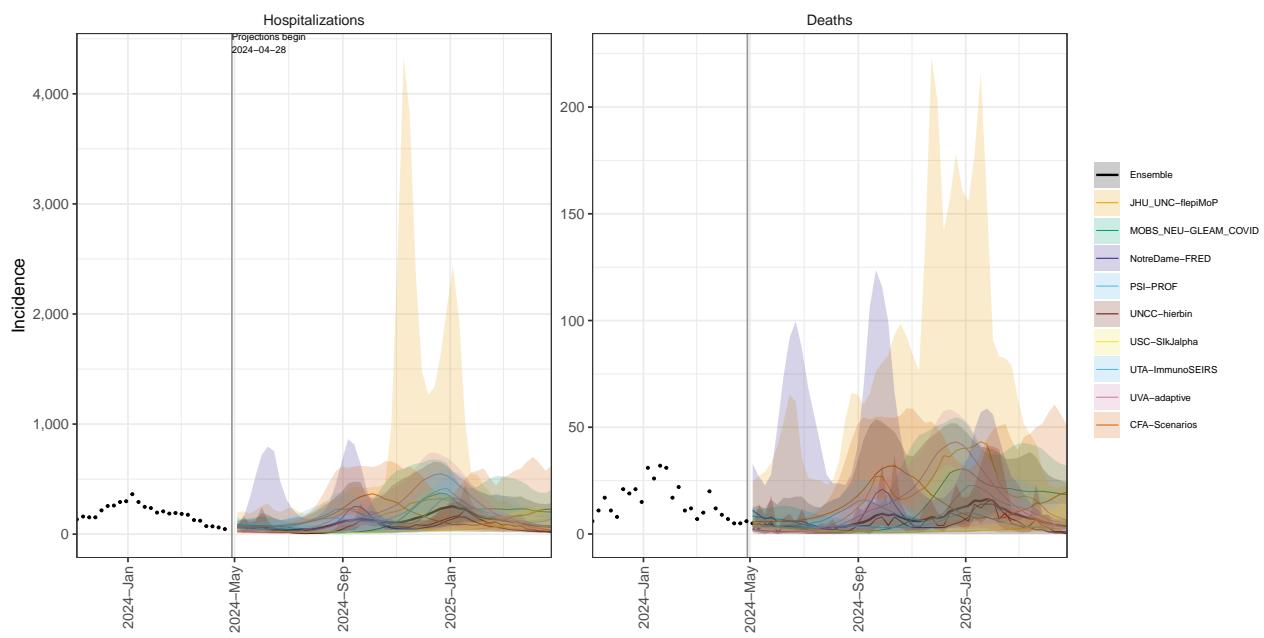
AK model variance & 95% projection intervals – Booster for all, High immune escape



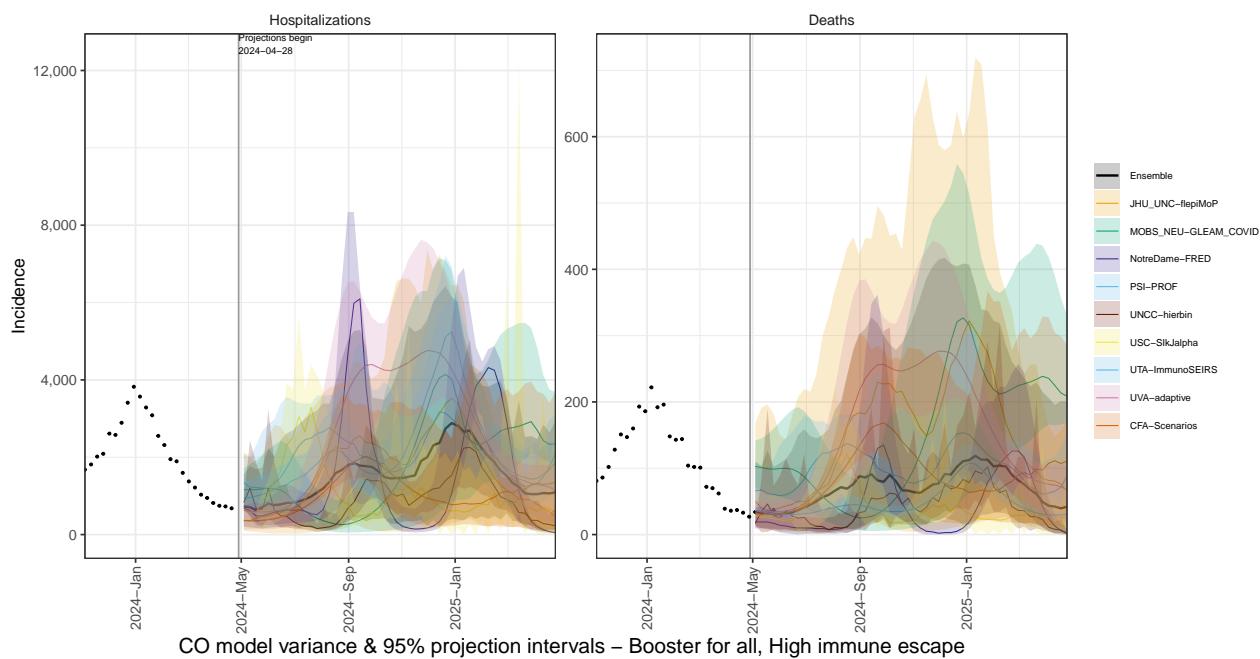
AZ model variance & 95% projection intervals – Booster for all, High immune escape



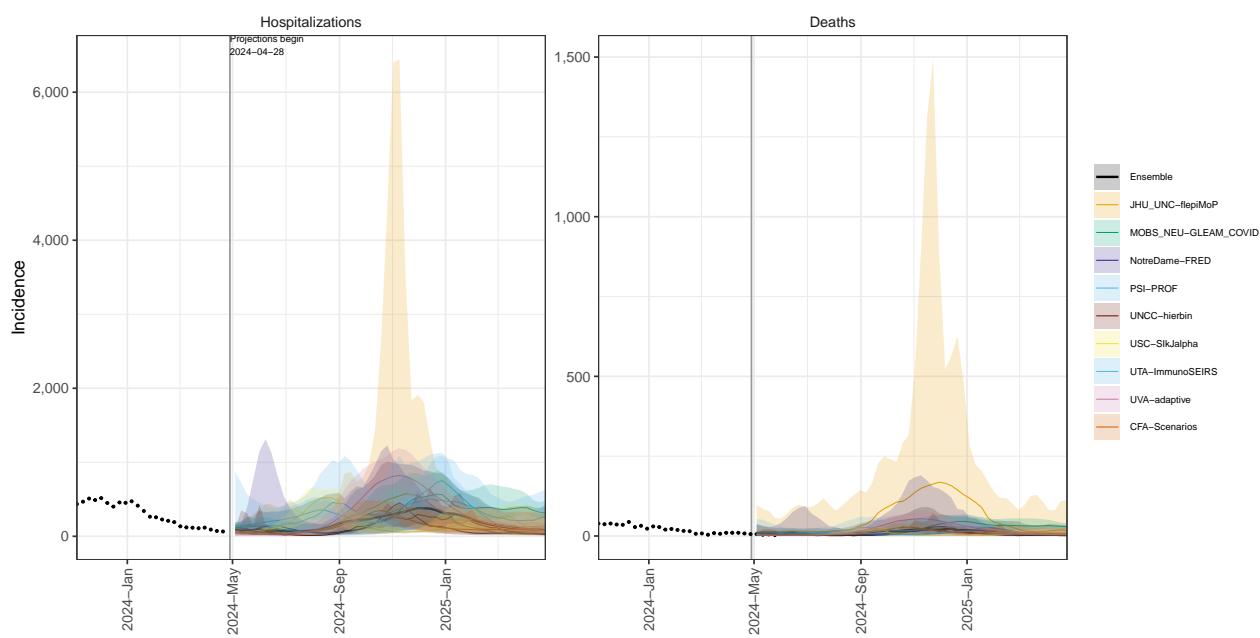
AR model variance & 95% projection intervals – Booster for all, High immune escape



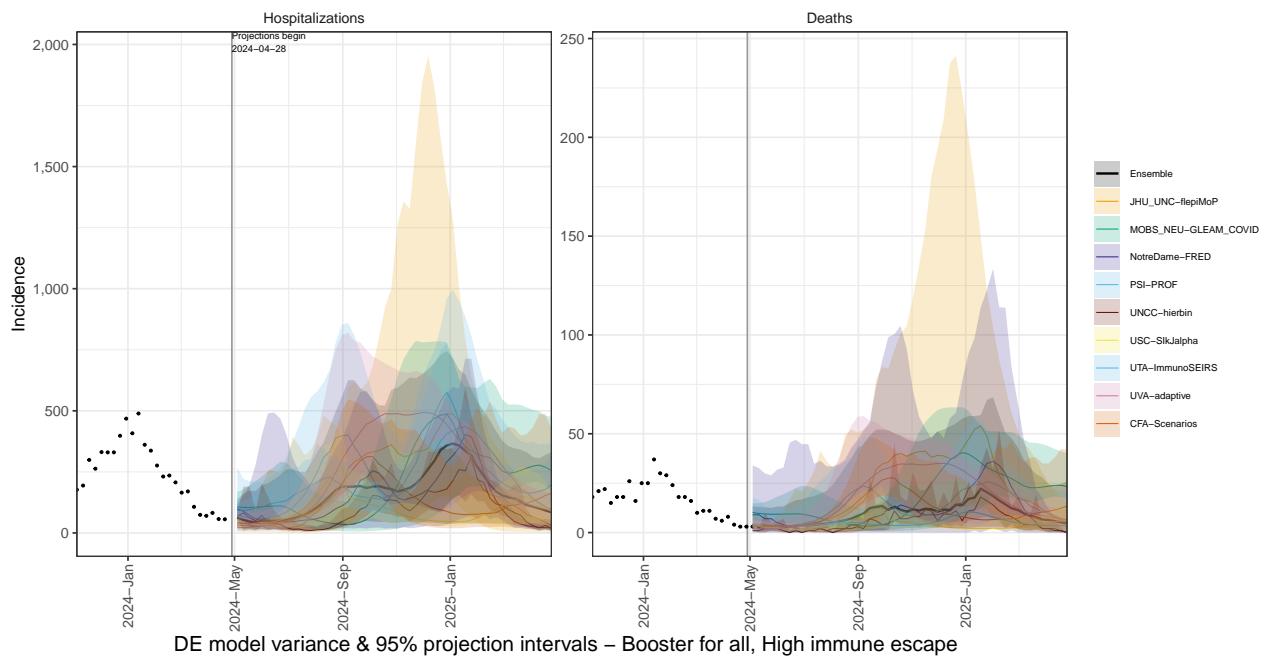
CA model variance & 95% projection intervals – Booster for all, High immune escape



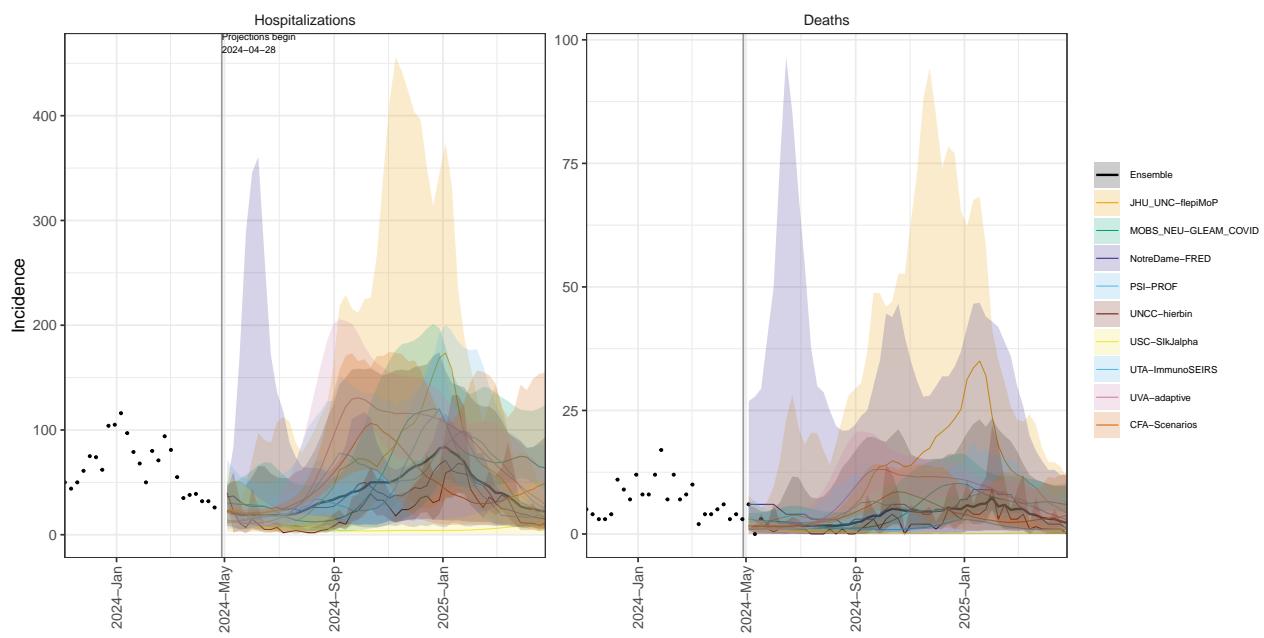
CO model variance & 95% projection intervals – Booster for all, High immune escape



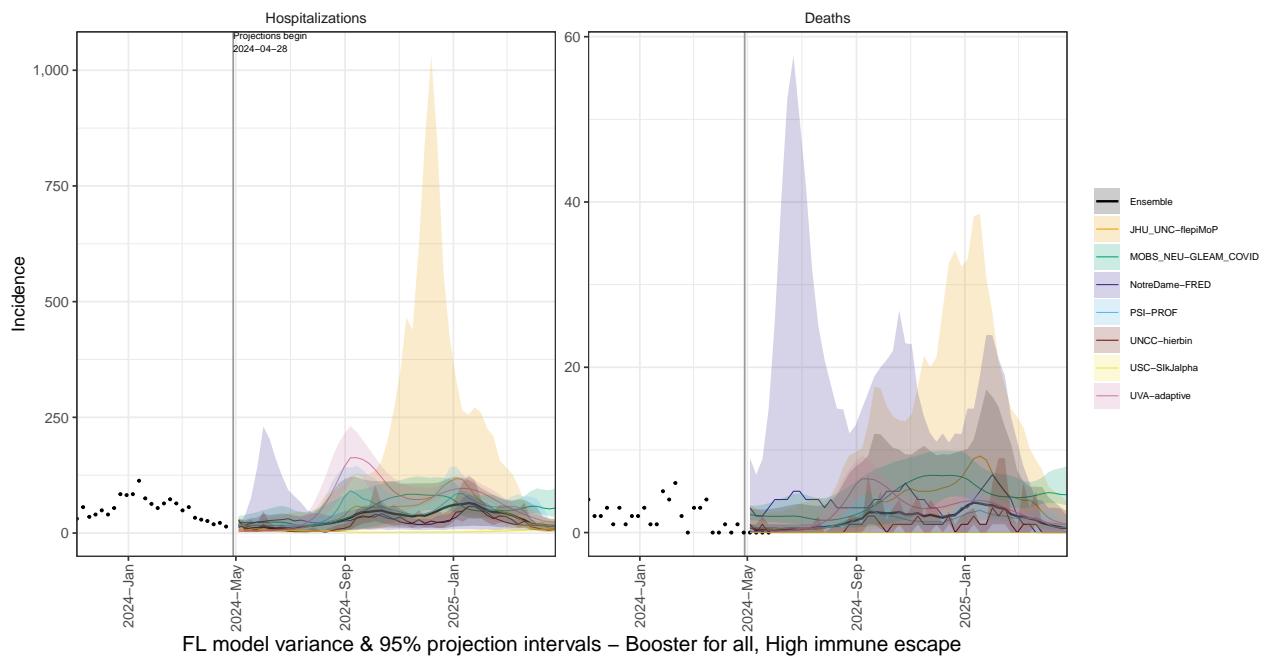
CT model variance & 95% projection intervals – Booster for all, High immune escape



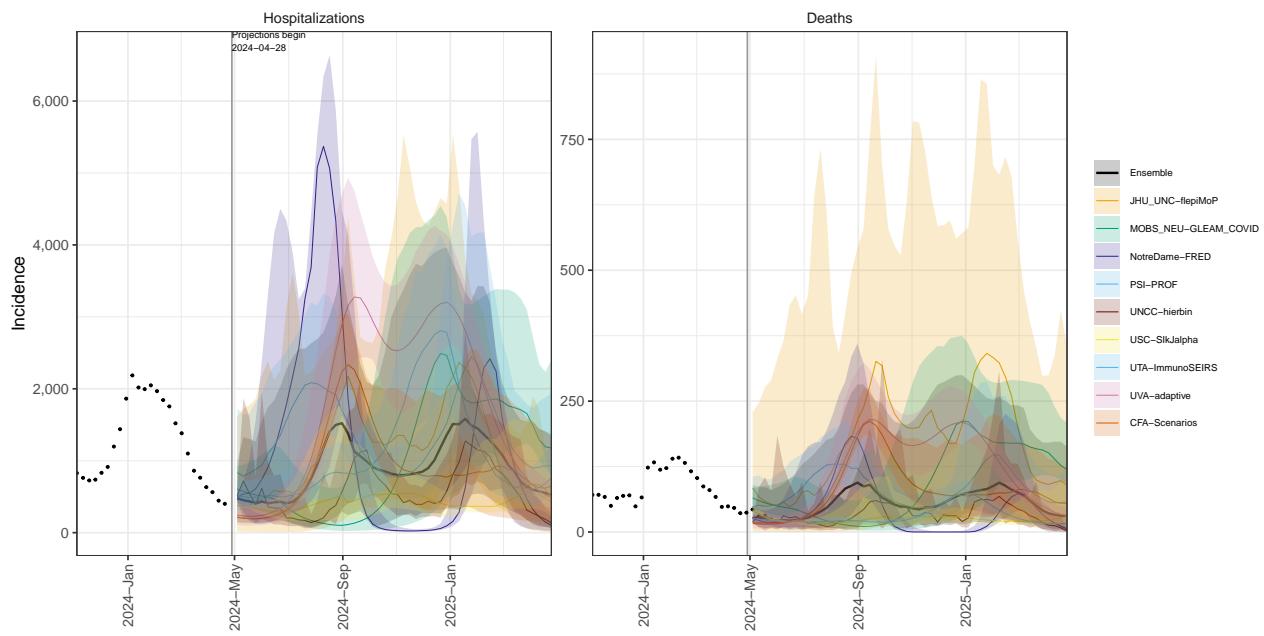
DE model variance & 95% projection intervals – Booster for all, High immune escape



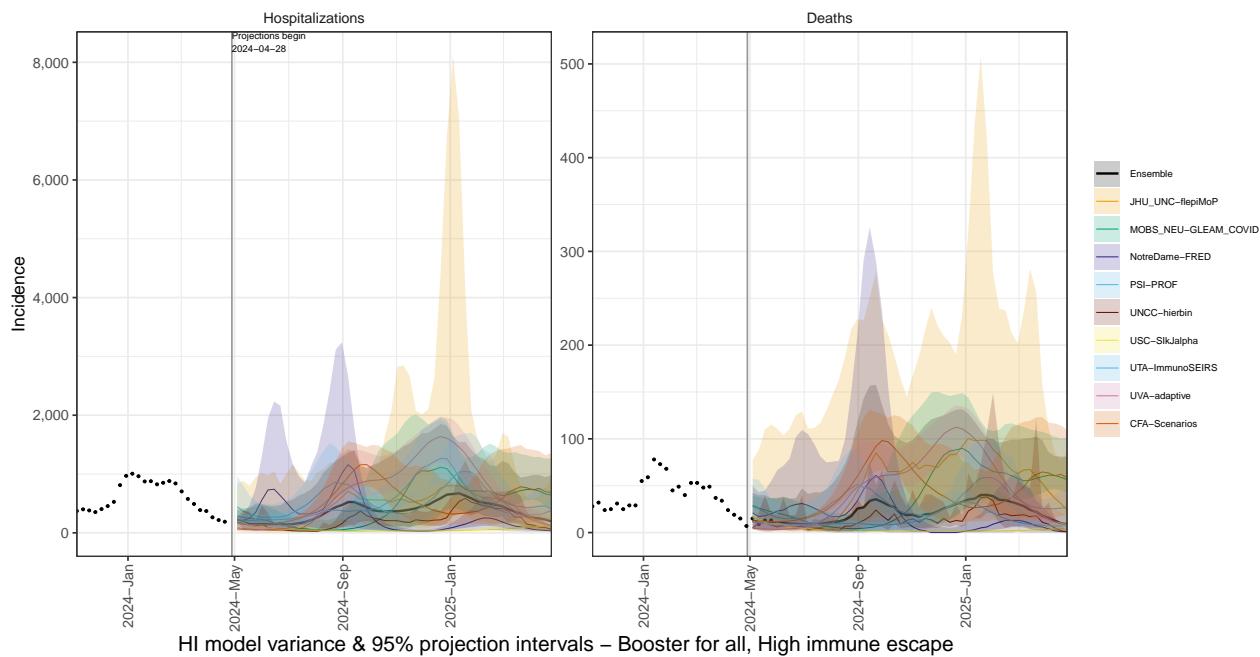
DC model variance & 95% projection intervals – Booster for all, High immune escape



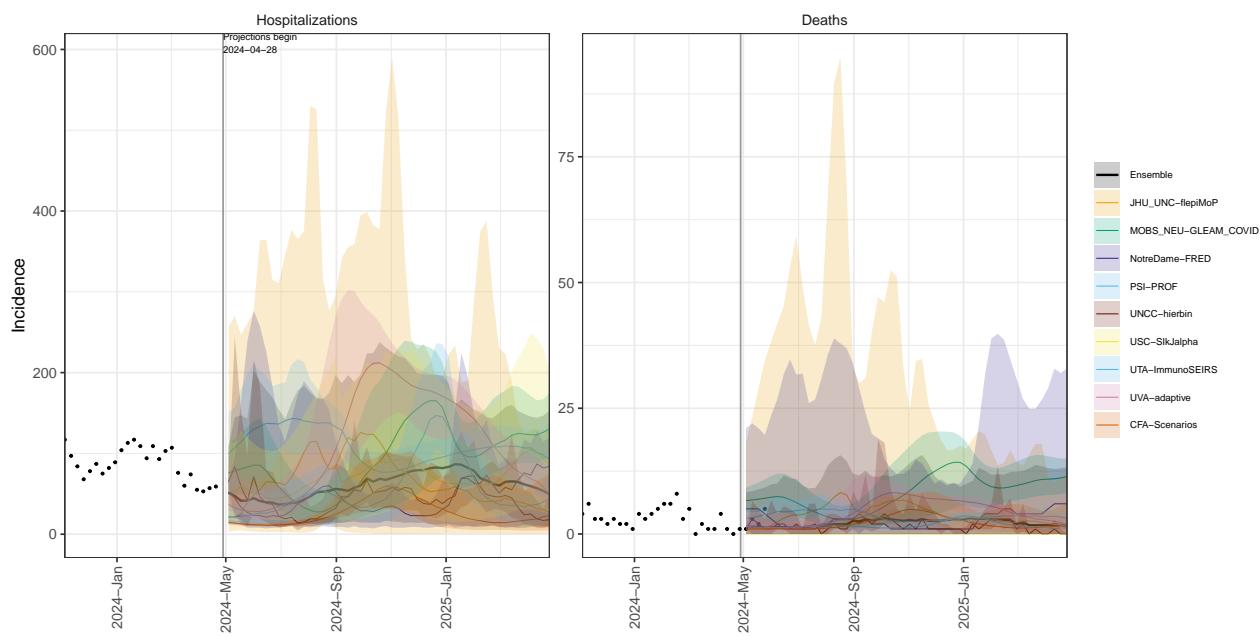
FL model variance & 95% projection intervals – Booster for all, High immune escape



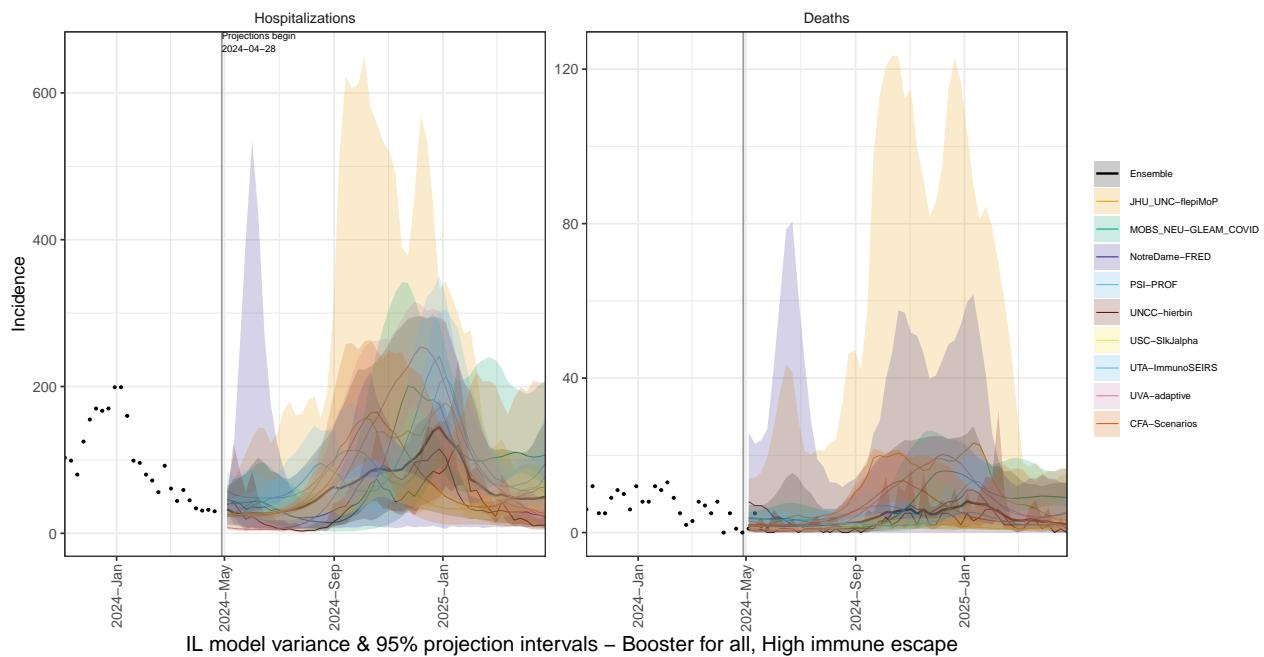
GA model variance & 95% projection intervals – Booster for all, High immune escape



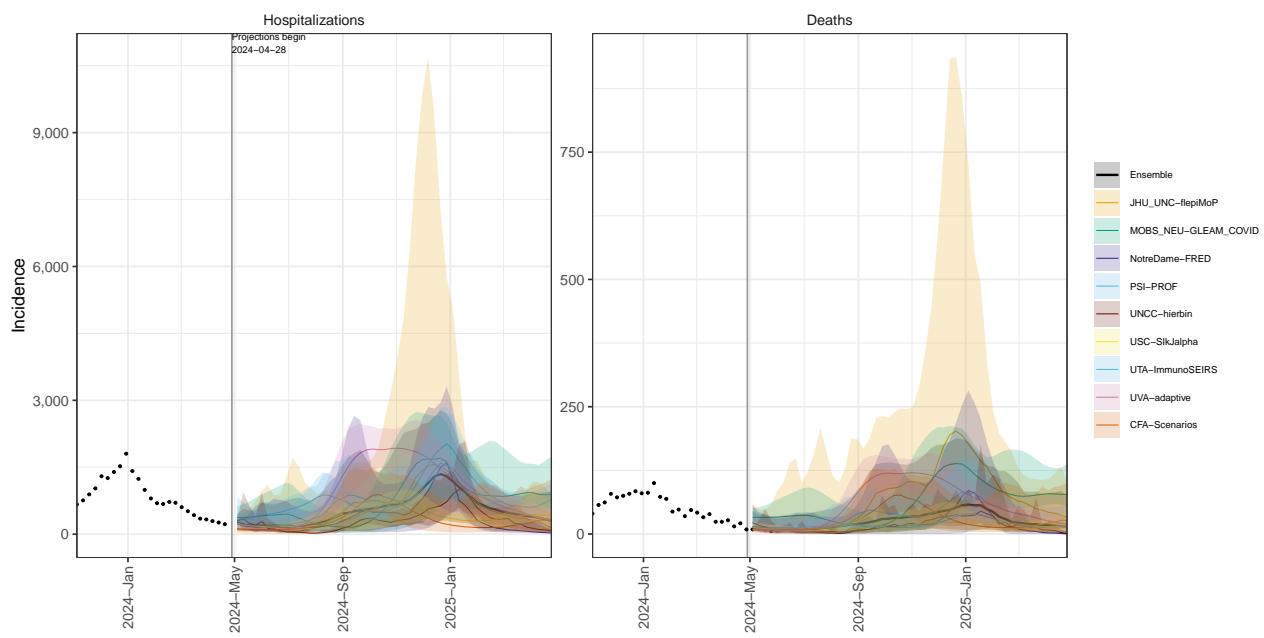
HI model variance & 95% projection intervals – Booster for all, High immune escape



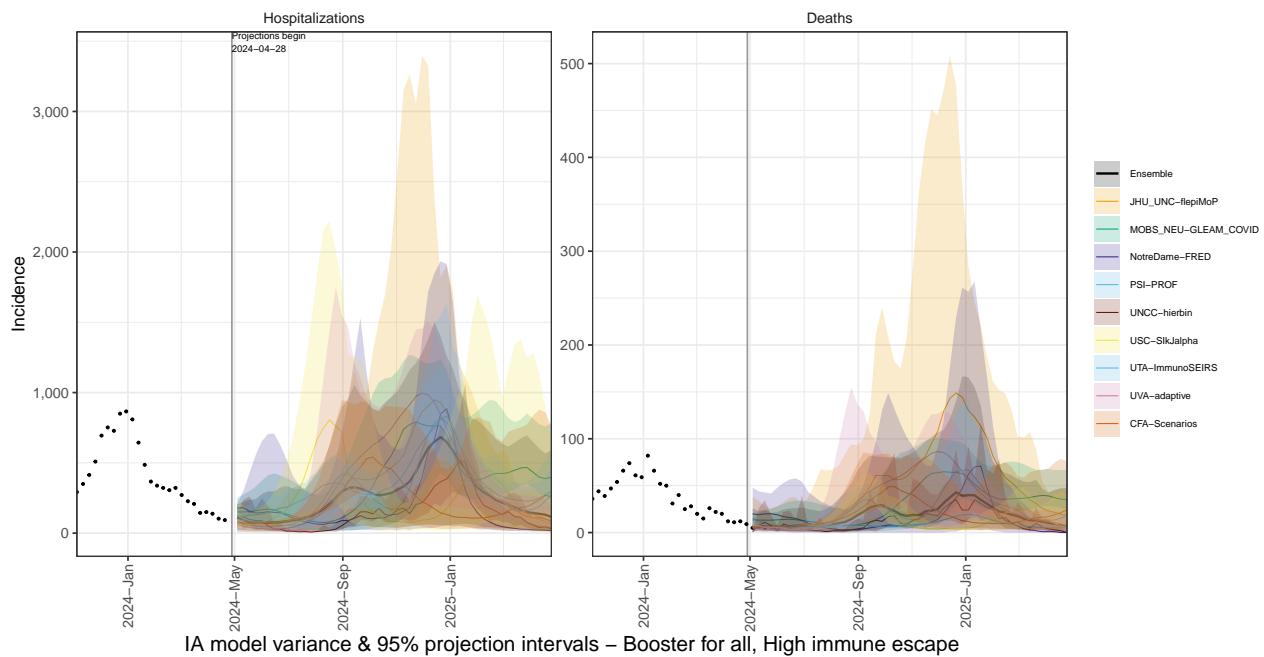
ID model variance & 95% projection intervals – Booster for all, High immune escape



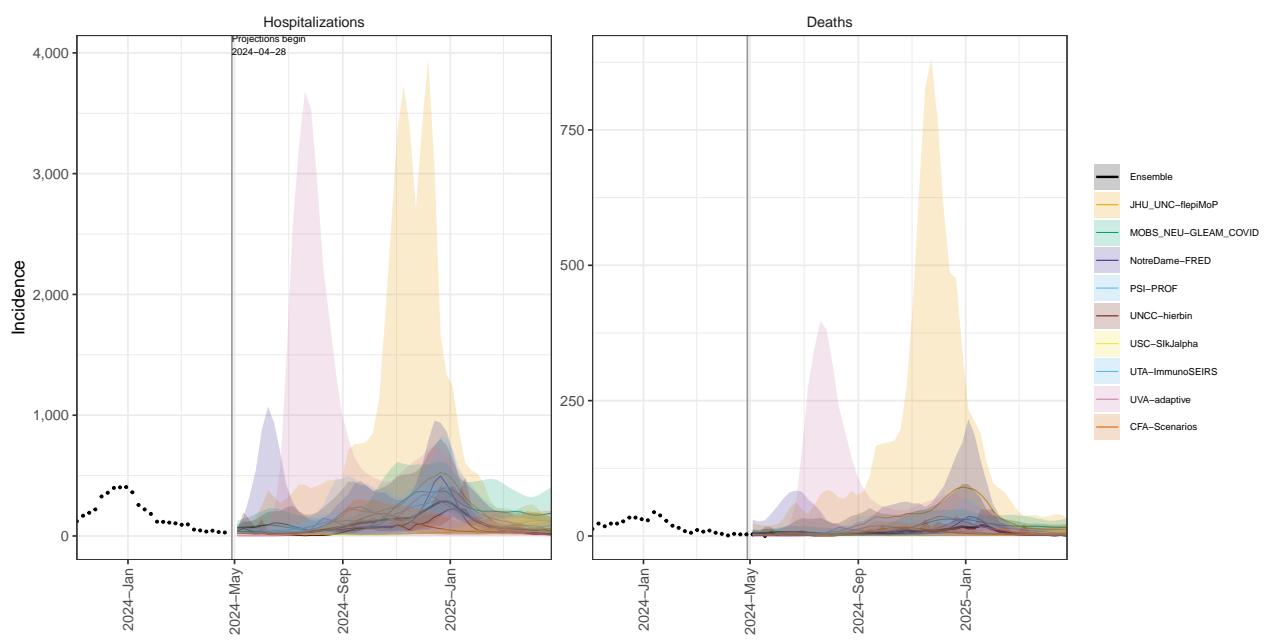
IL model variance & 95% projection intervals – Booster for all, High immune escape



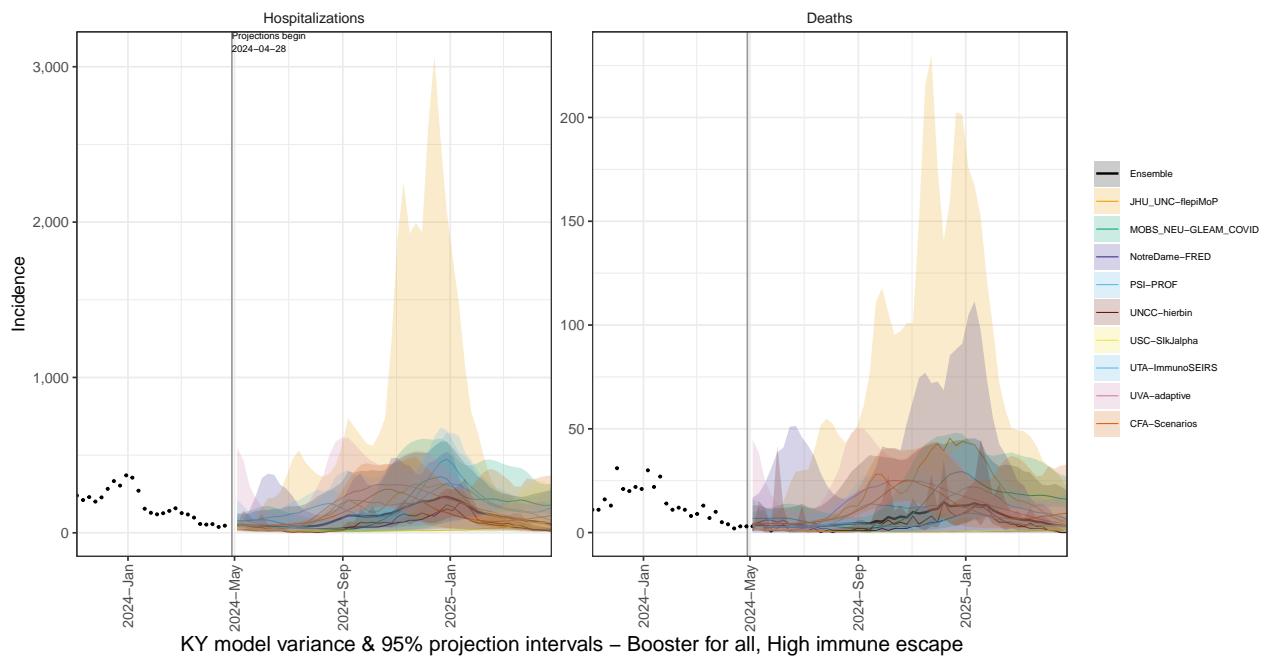
IN model variance & 95% projection intervals – Booster for all, High immune escape



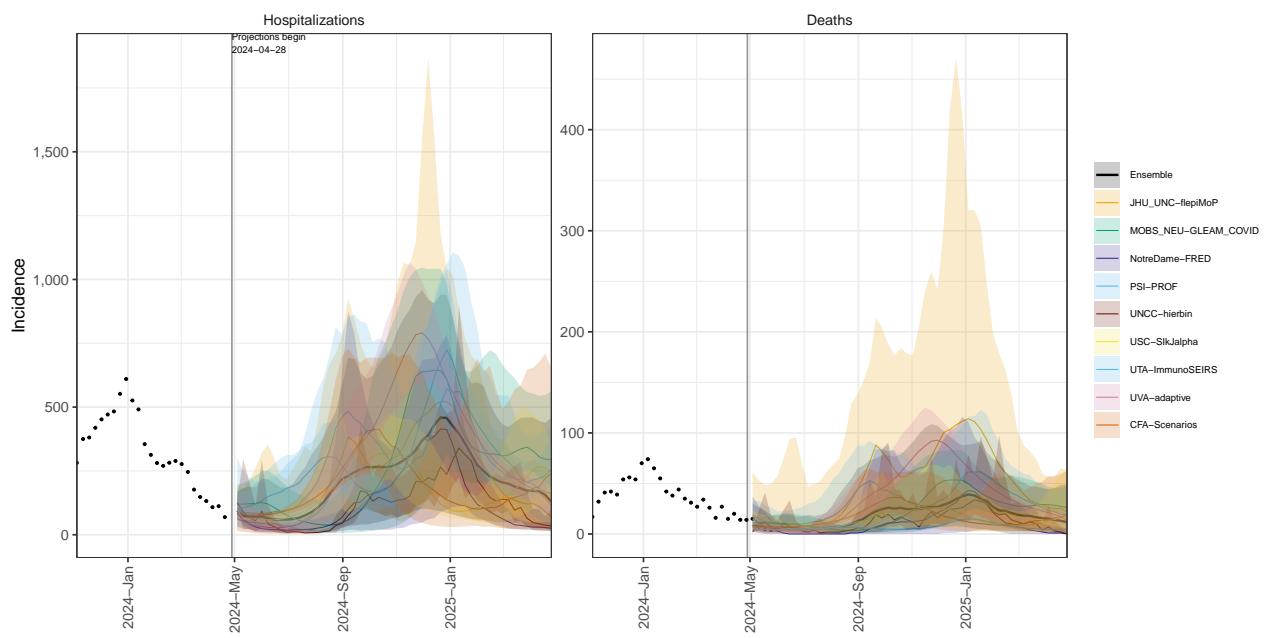
IA model variance & 95% projection intervals – Booster for all, High immune escape



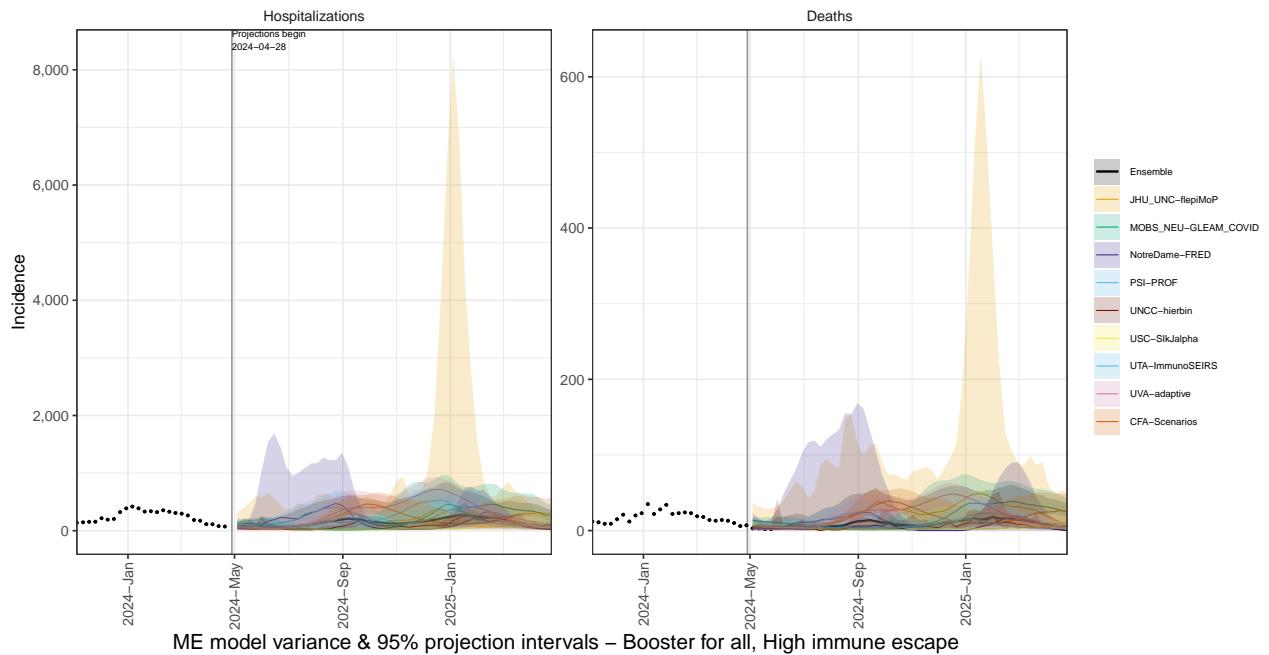
KS model variance & 95% projection intervals – Booster for all, High immune escape



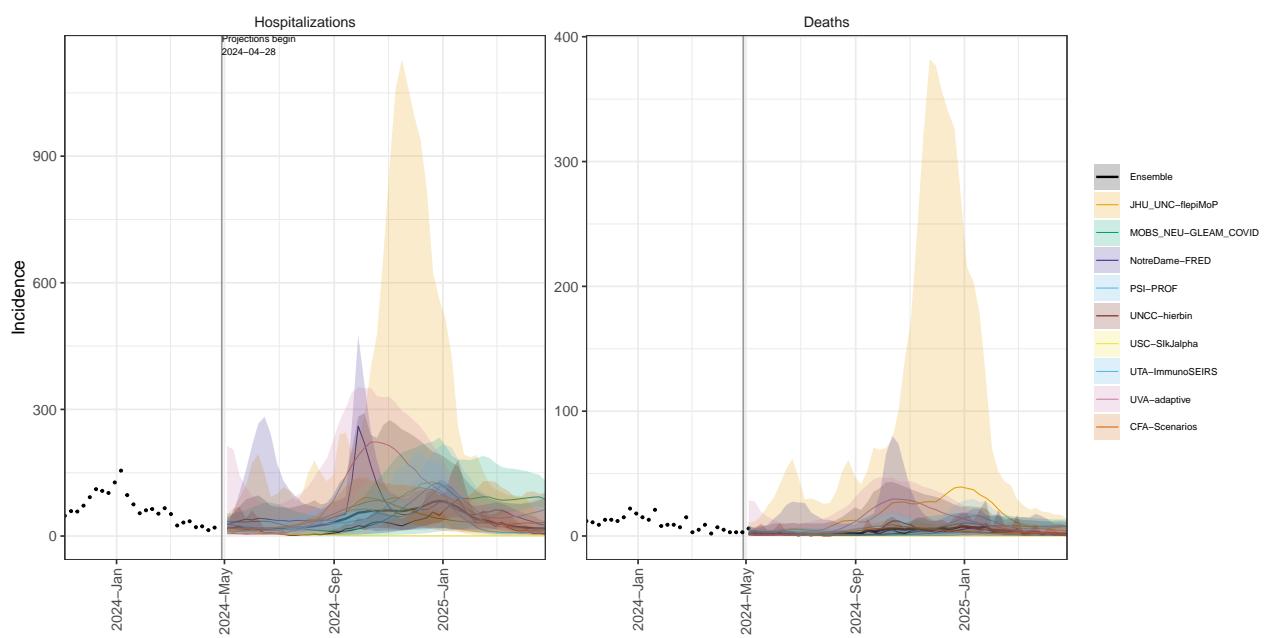
KY model variance & 95% projection intervals – Booster for all, High immune escape



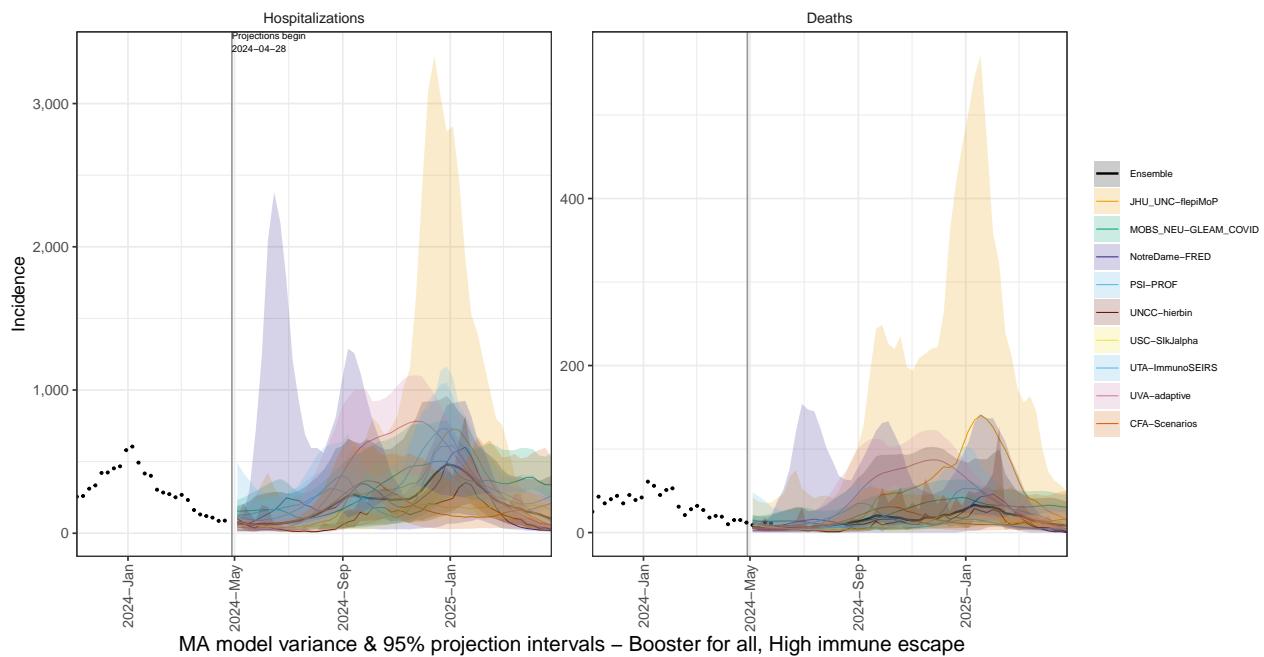
LA model variance & 95% projection intervals – Booster for all, High immune escape



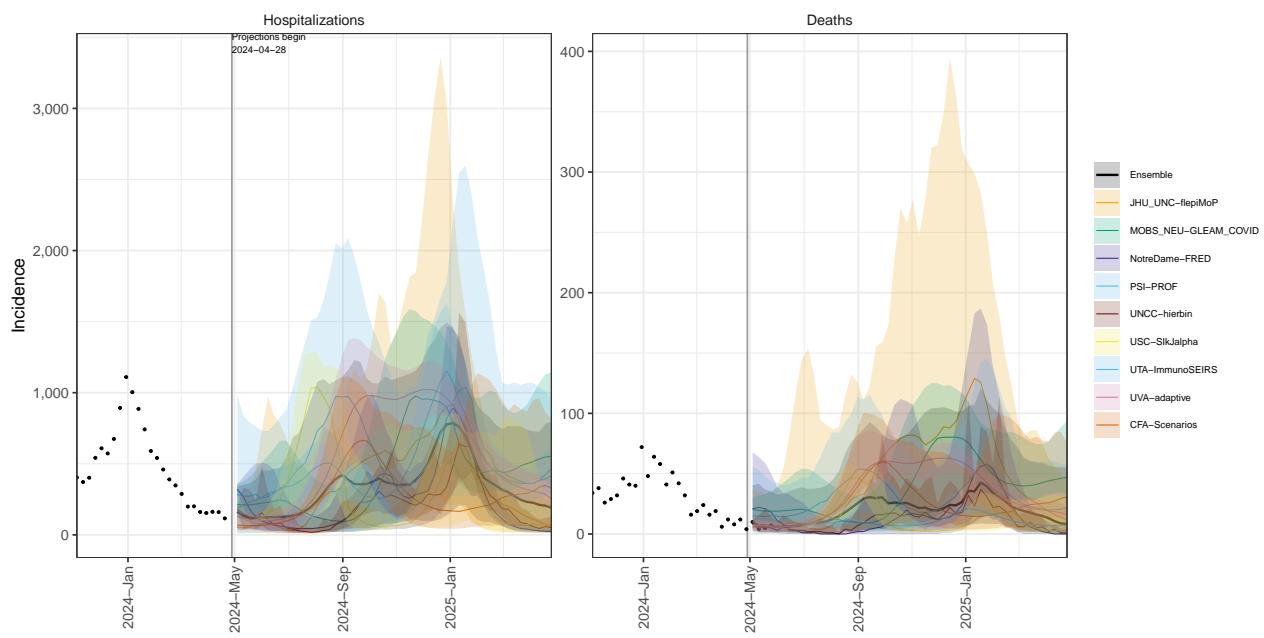
ME model variance & 95% projection intervals – Booster for all, High immune escape



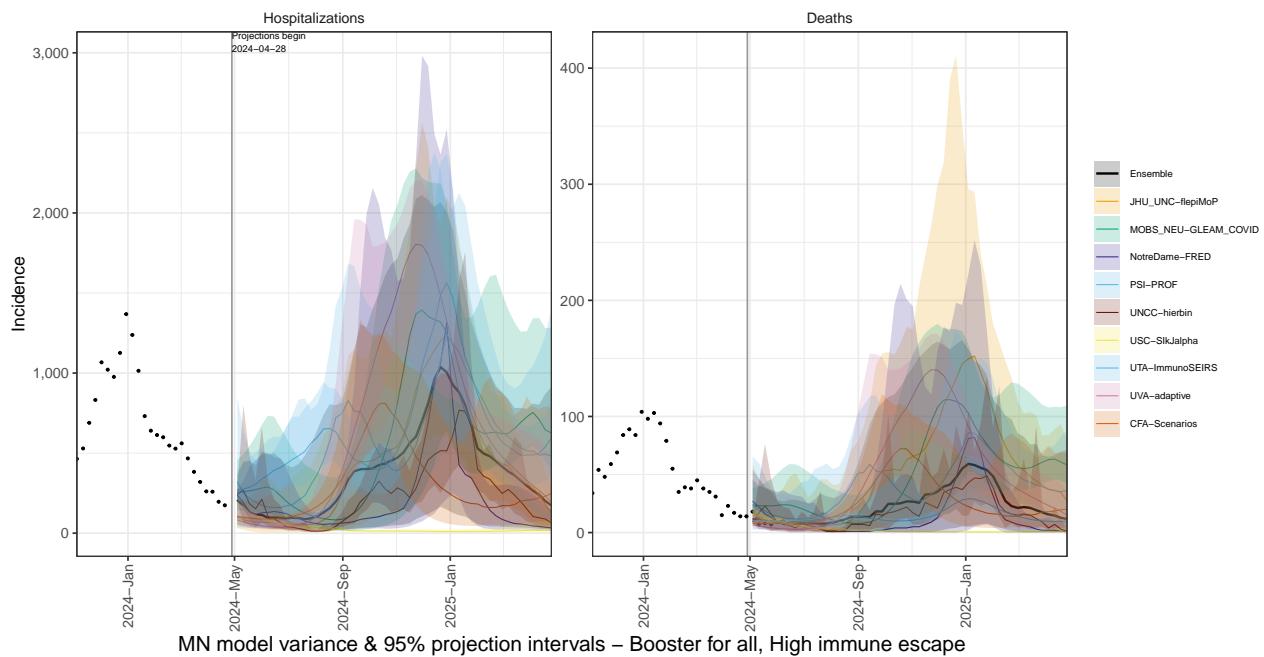
MD model variance & 95% projection intervals – Booster for all, High immune escape



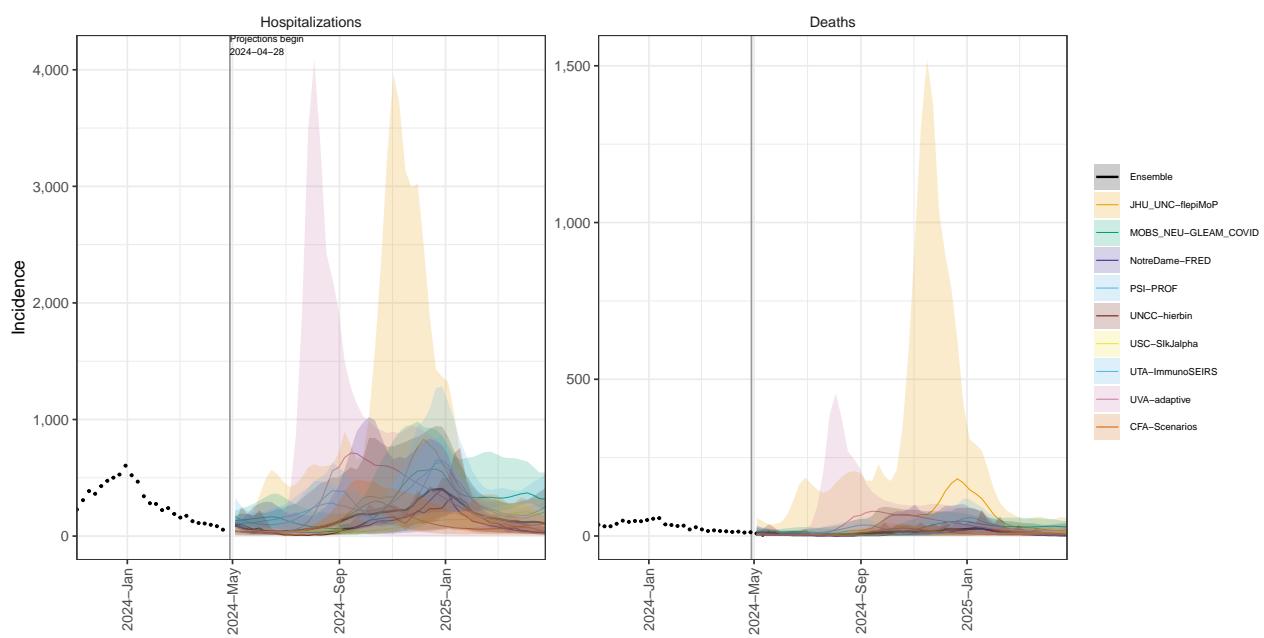
MA model variance & 95% projection intervals – Booster for all, High immune escape



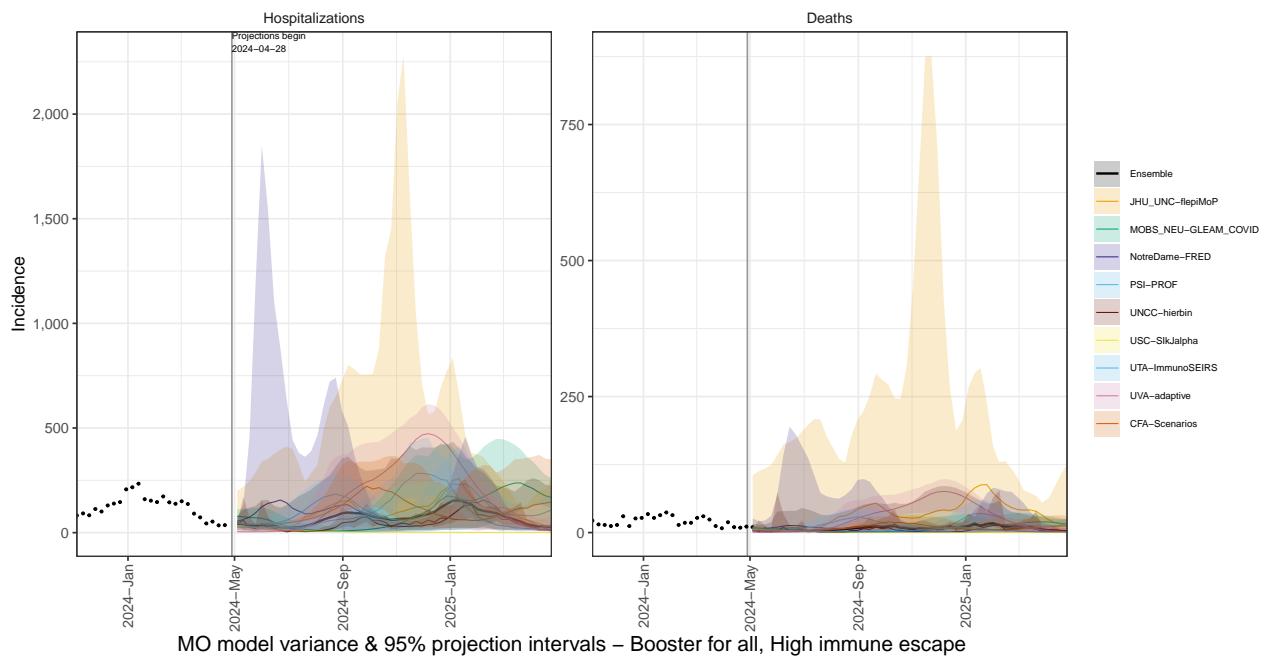
MI model variance & 95% projection intervals – Booster for all, High immune escape



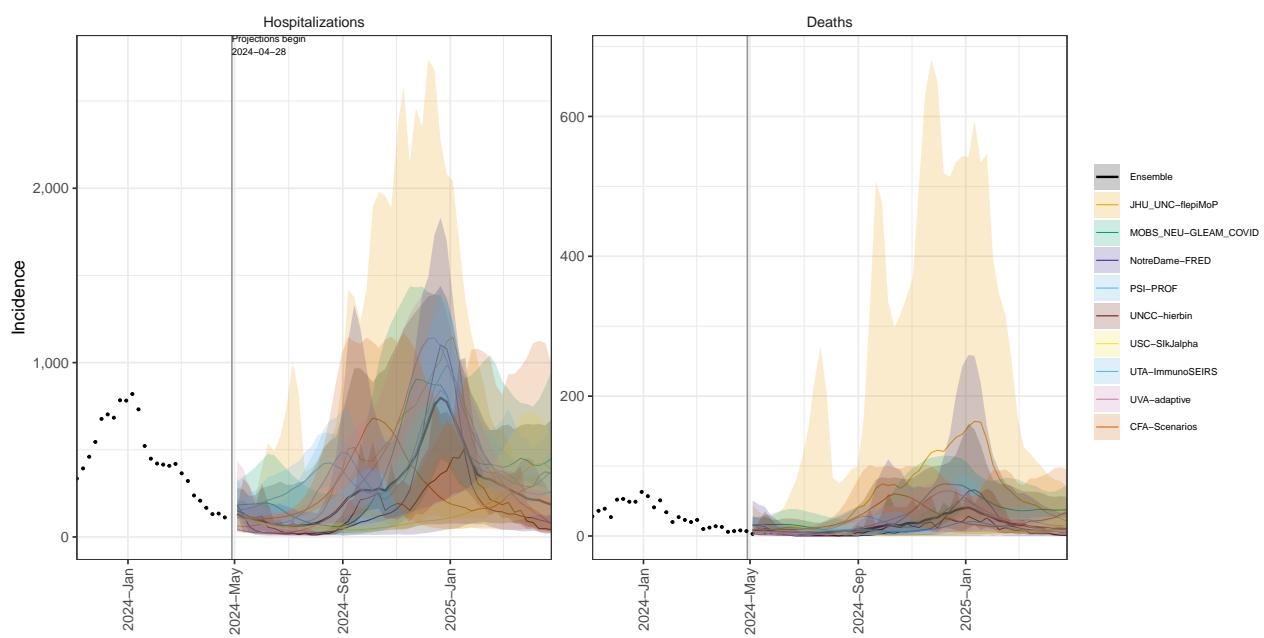
MN model variance & 95% projection intervals – Booster for all, High immune escape



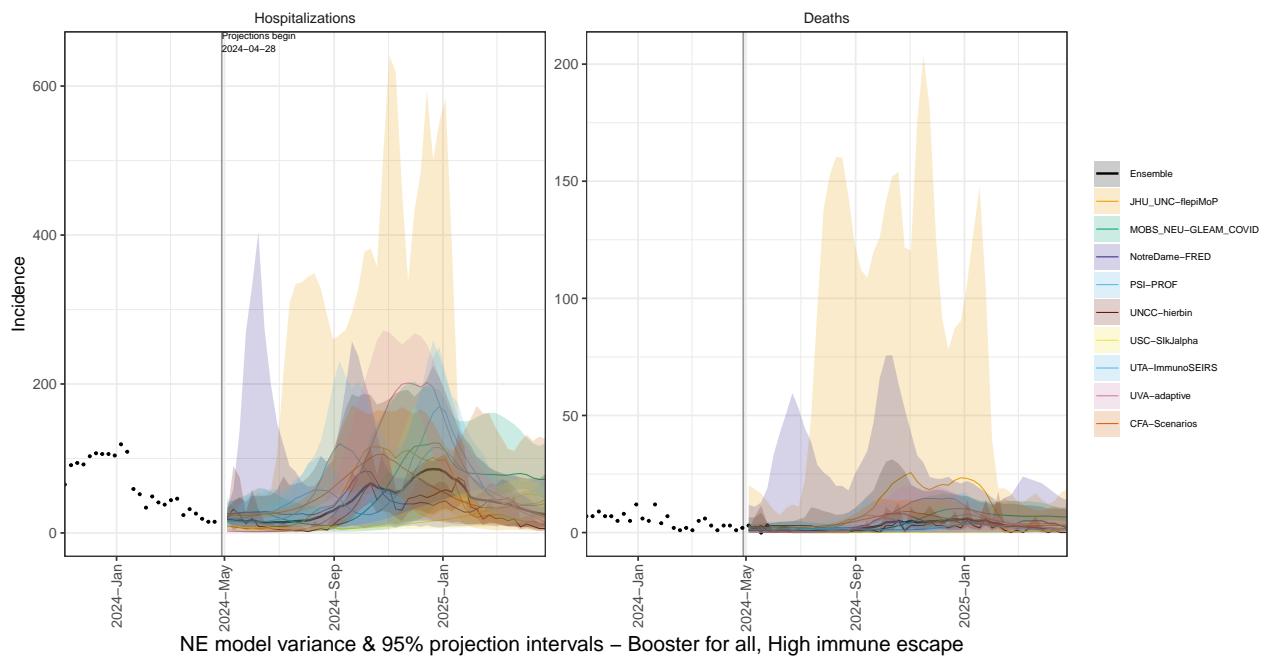
MS model variance & 95% projection intervals – Booster for all, High immune escape



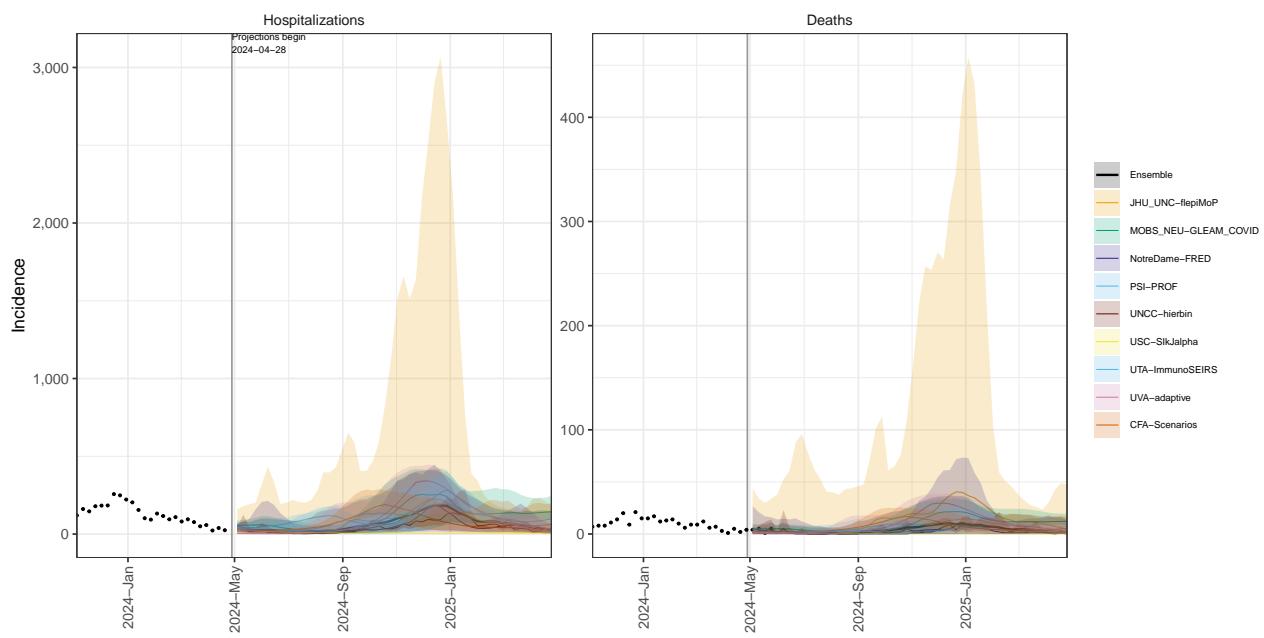
MO model variance & 95% projection intervals – Booster for all, High immune escape



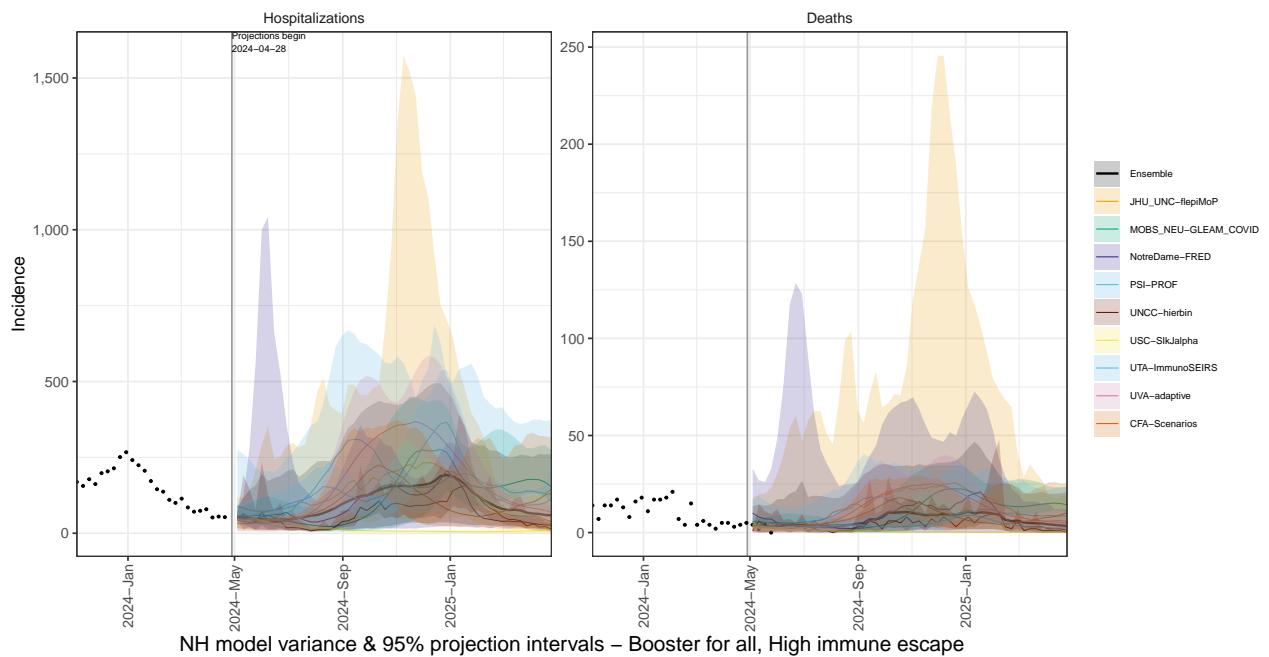
MT model variance & 95% projection intervals – Booster for all, High immune escape



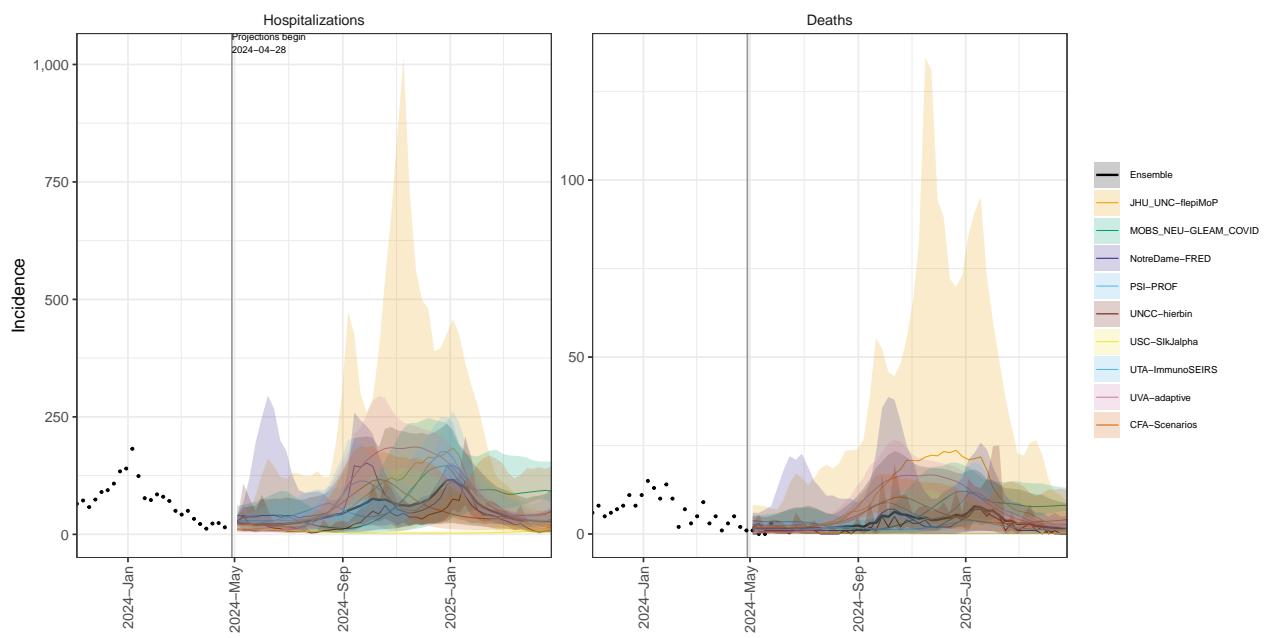
NE model variance & 95% projection intervals – Booster for all, High immune escape



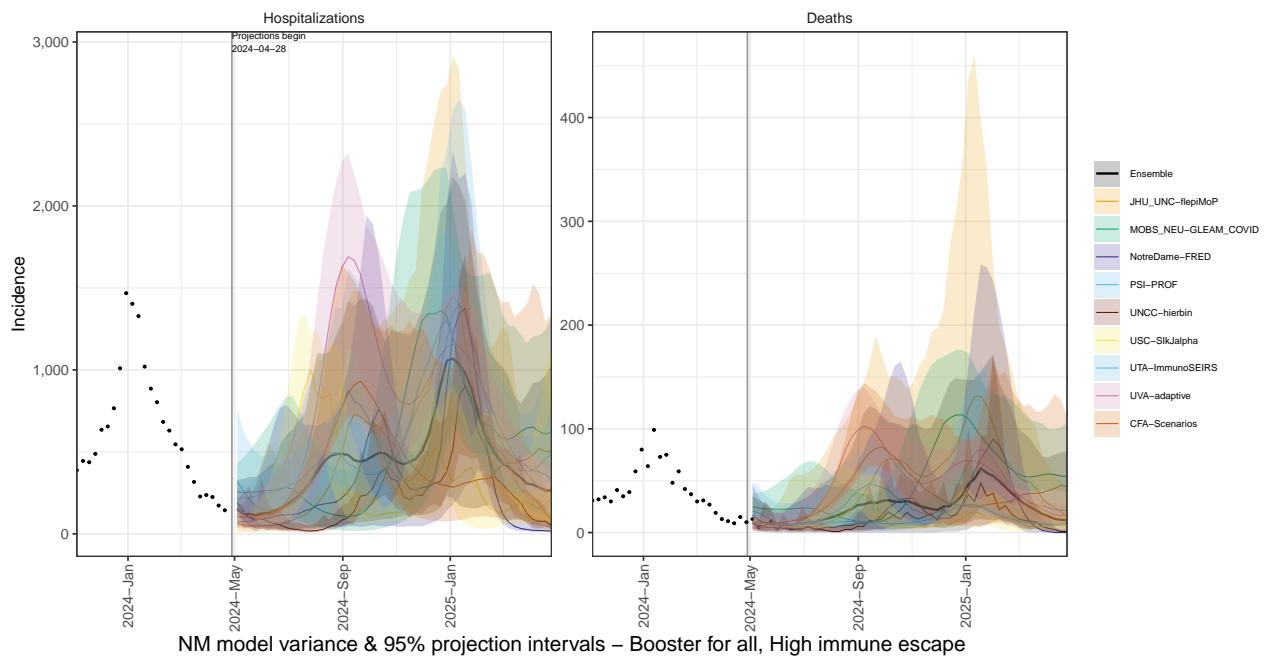
NV model variance & 95% projection intervals – Booster for all, High immune escape



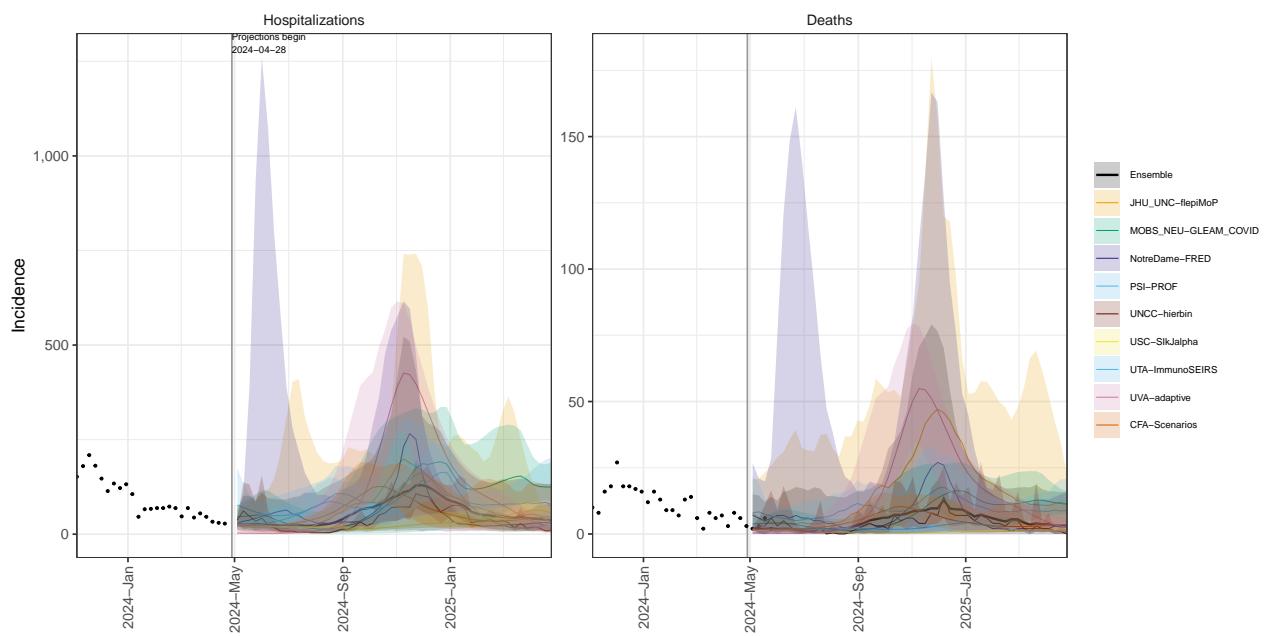
NH model variance & 95% projection intervals – Booster for all, High immune escape



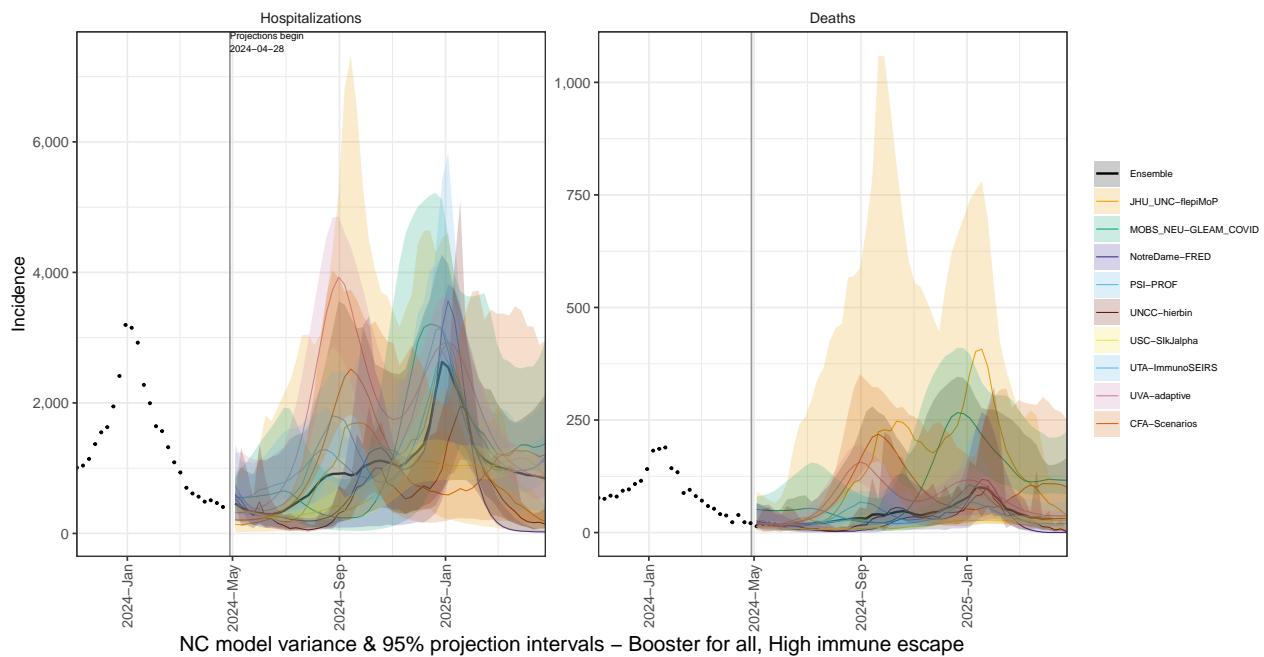
NJ model variance & 95% projection intervals – Booster for all, High immune escape



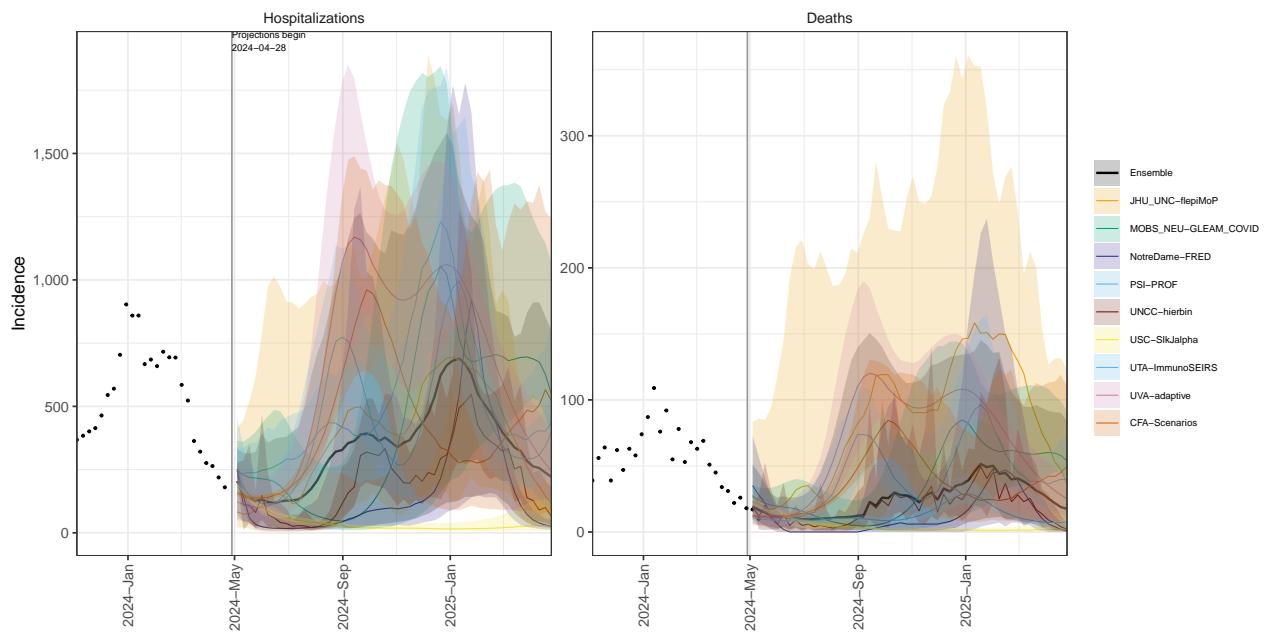
NM model variance & 95% projection intervals – Booster for all, High immune escape



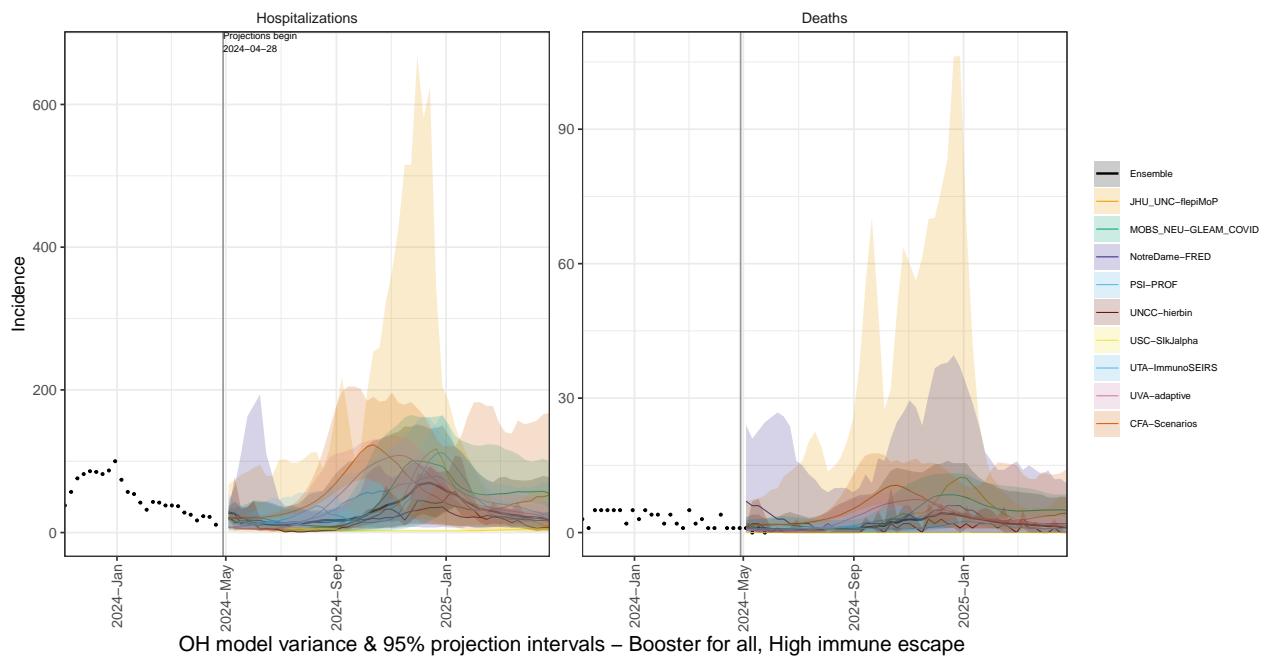
NY model variance & 95% projection intervals – Booster for all, High immune escape



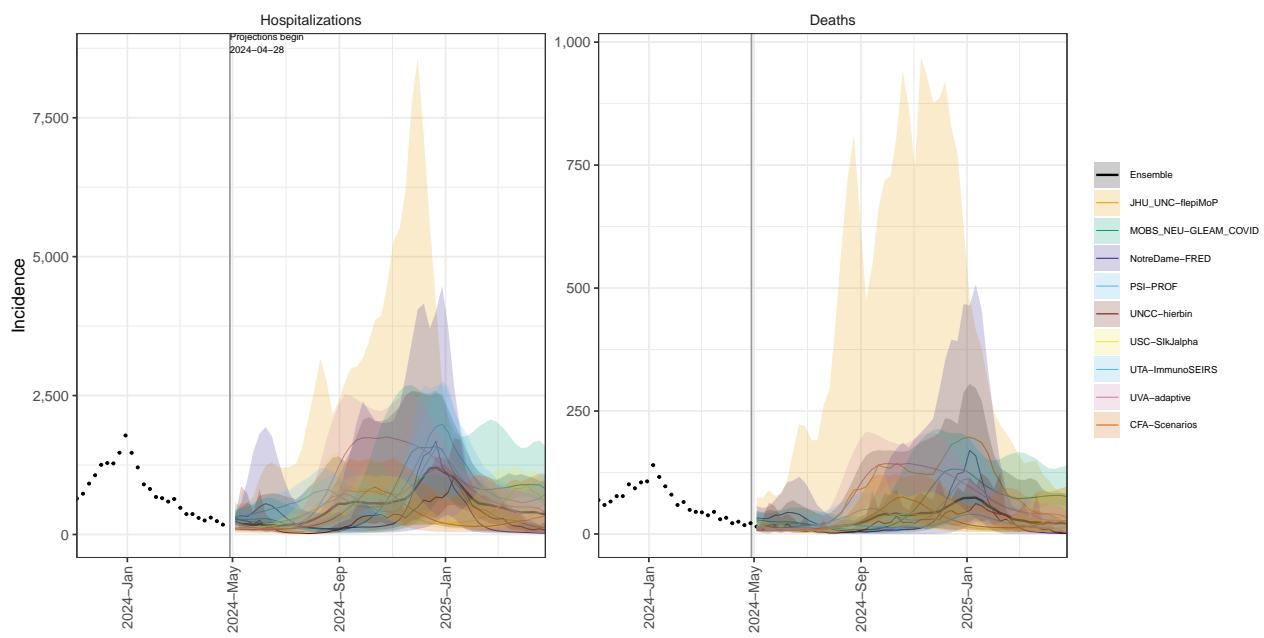
NC model variance & 95% projection intervals – Booster for all, High immune escape



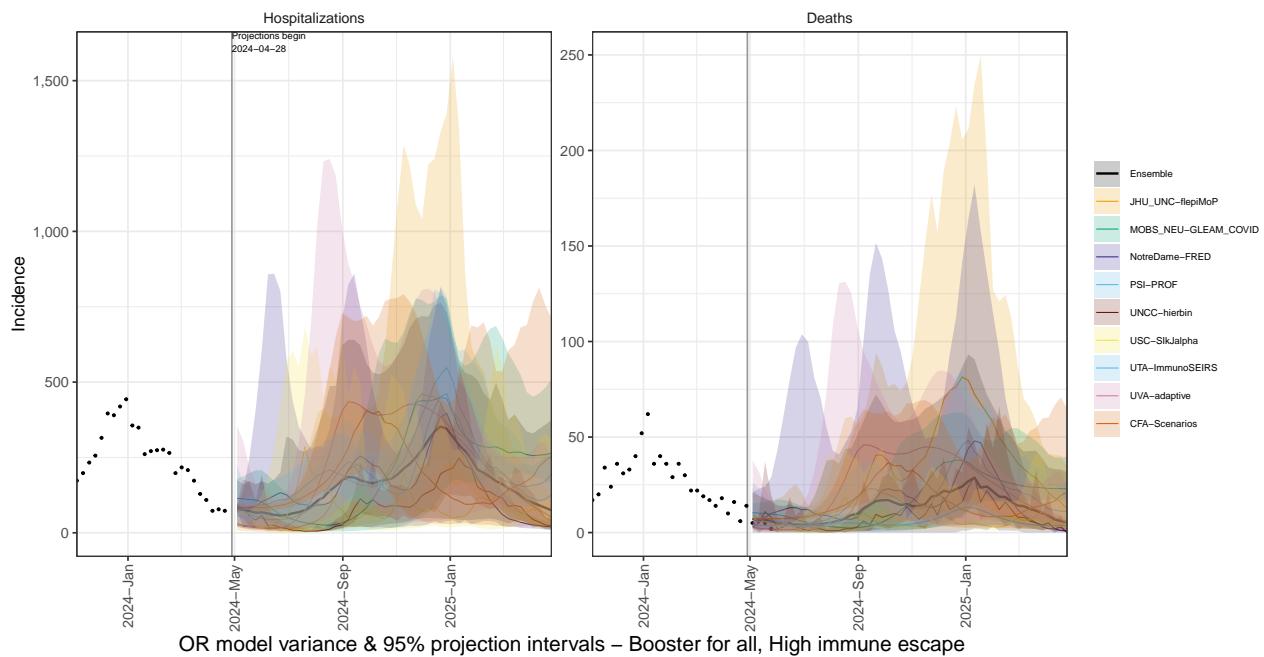
ND model variance & 95% projection intervals – Booster for all, High immune escape



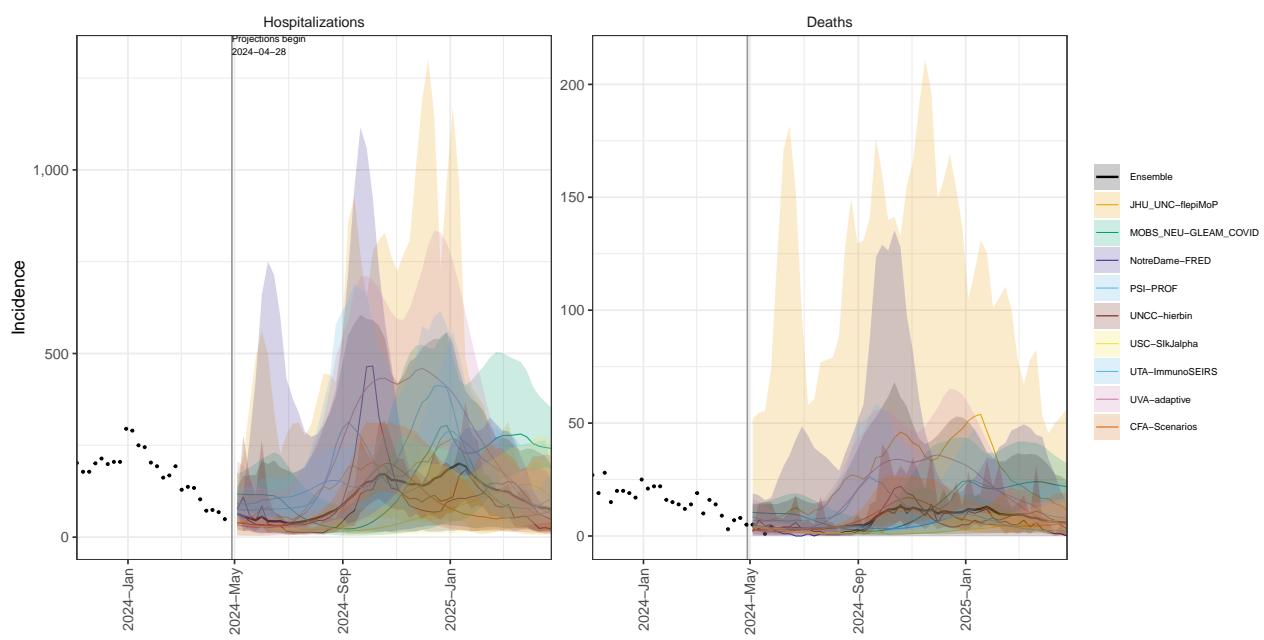
OH model variance & 95% projection intervals – Booster for all, High immune escape



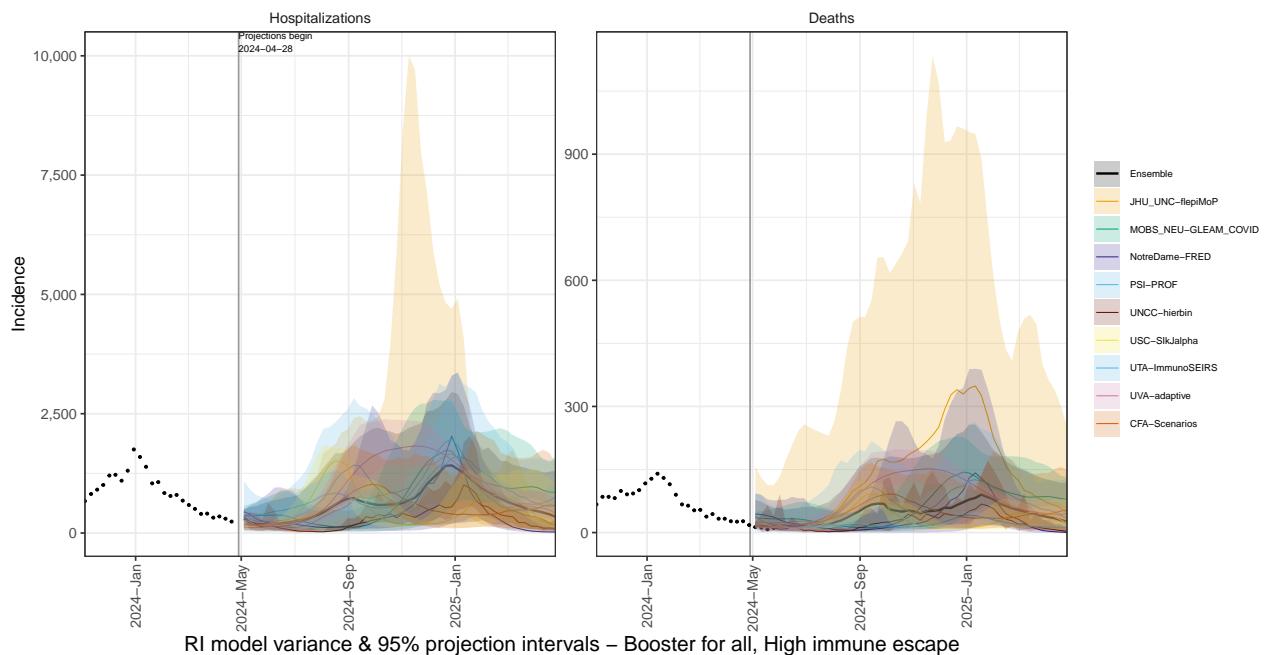
OK model variance & 95% projection intervals – Booster for all, High immune escape



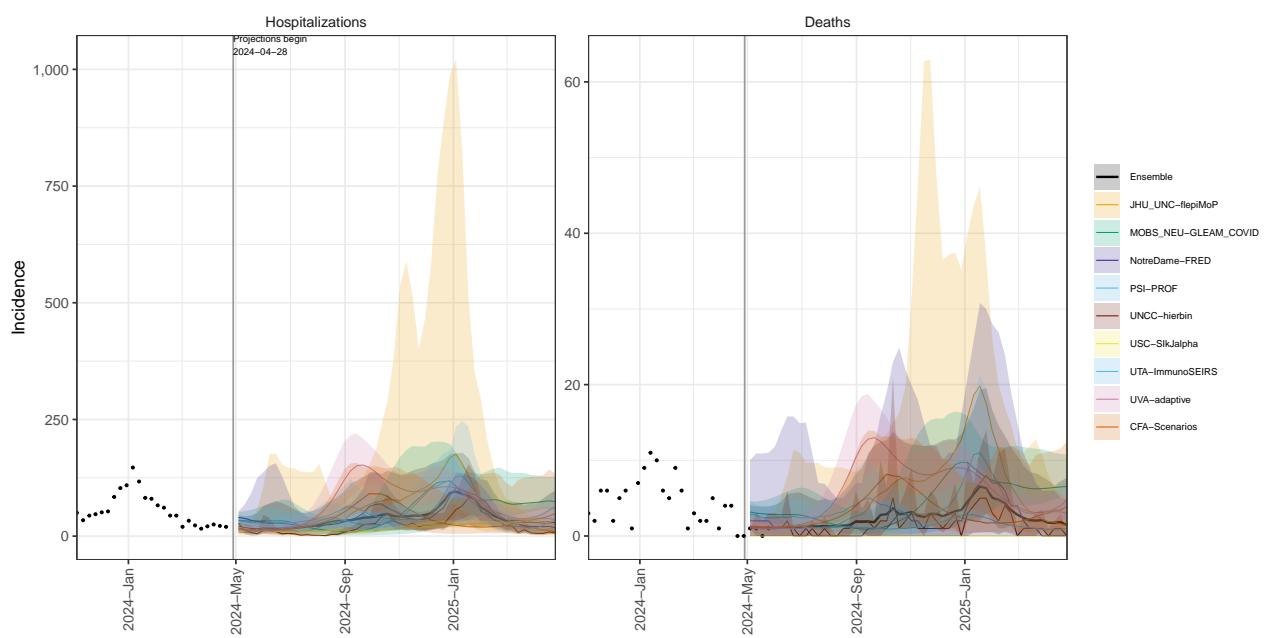
OR model variance & 95% projection intervals – Booster for all, High immune escape



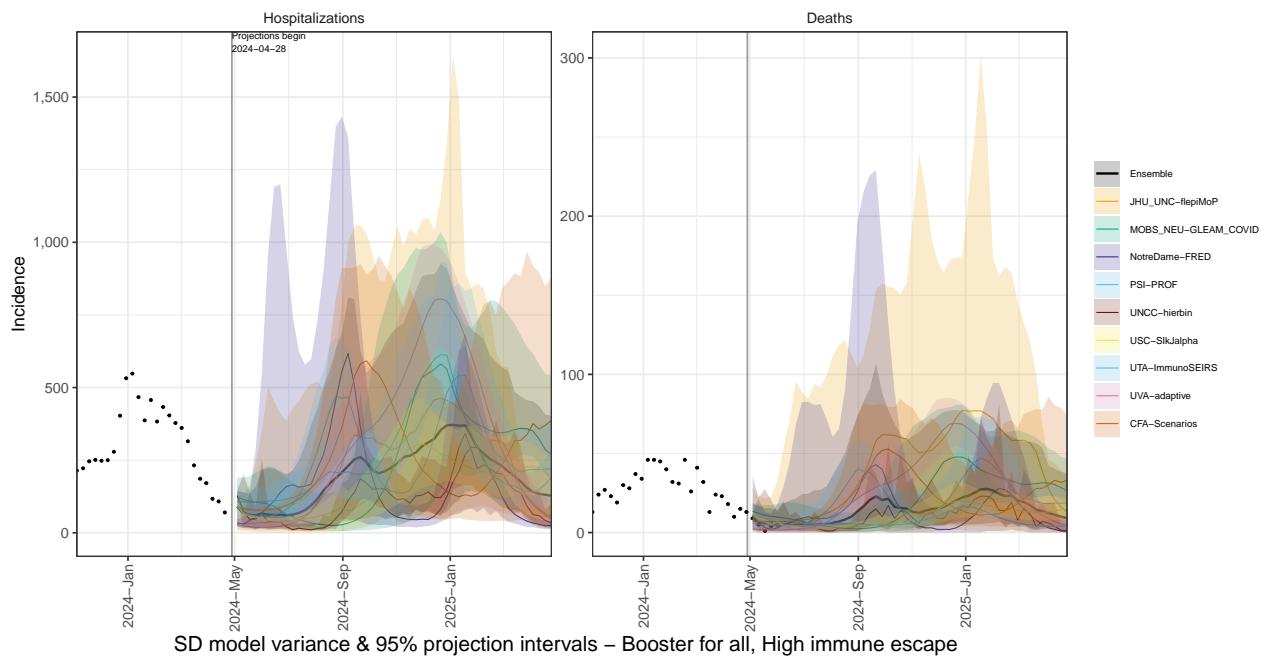
PA model variance & 95% projection intervals – Booster for all, High immune escape



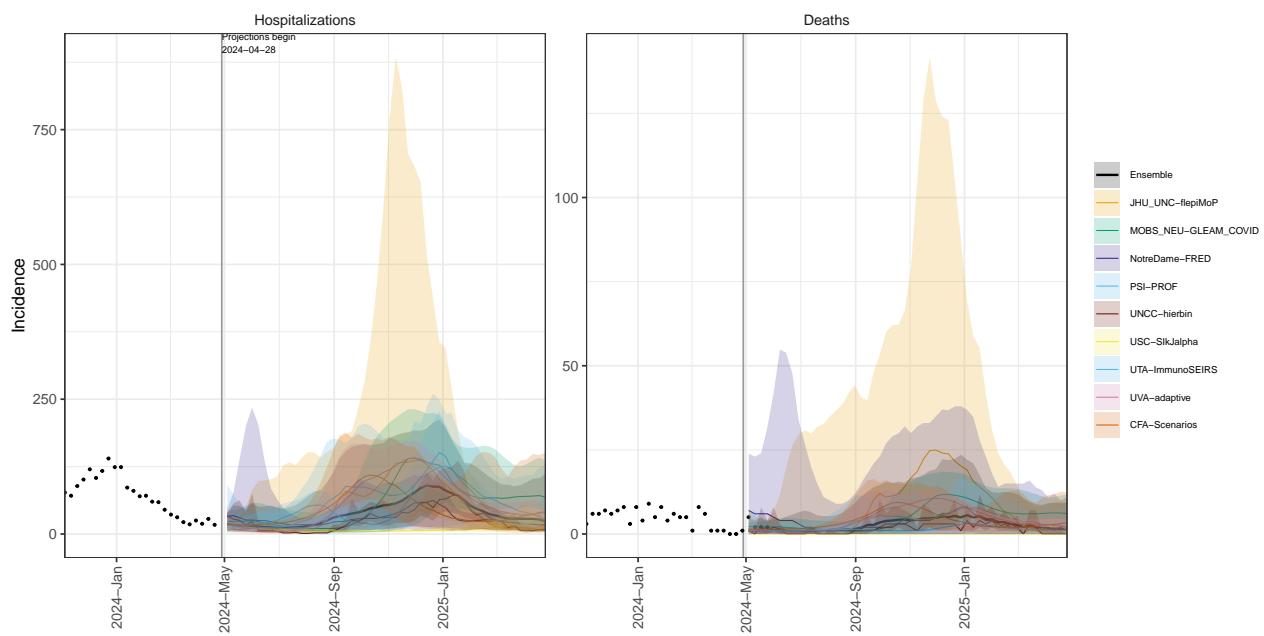
RI model variance & 95% projection intervals – Booster for all, High immune escape



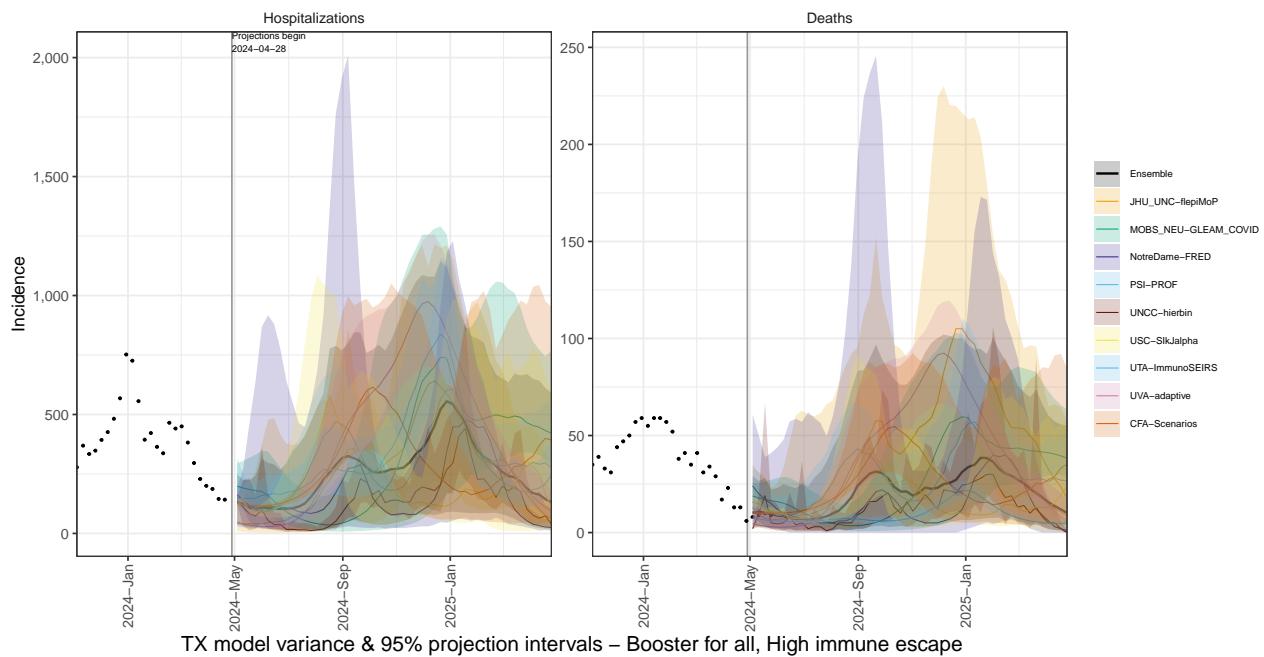
SC model variance & 95% projection intervals – Booster for all, High immune escape



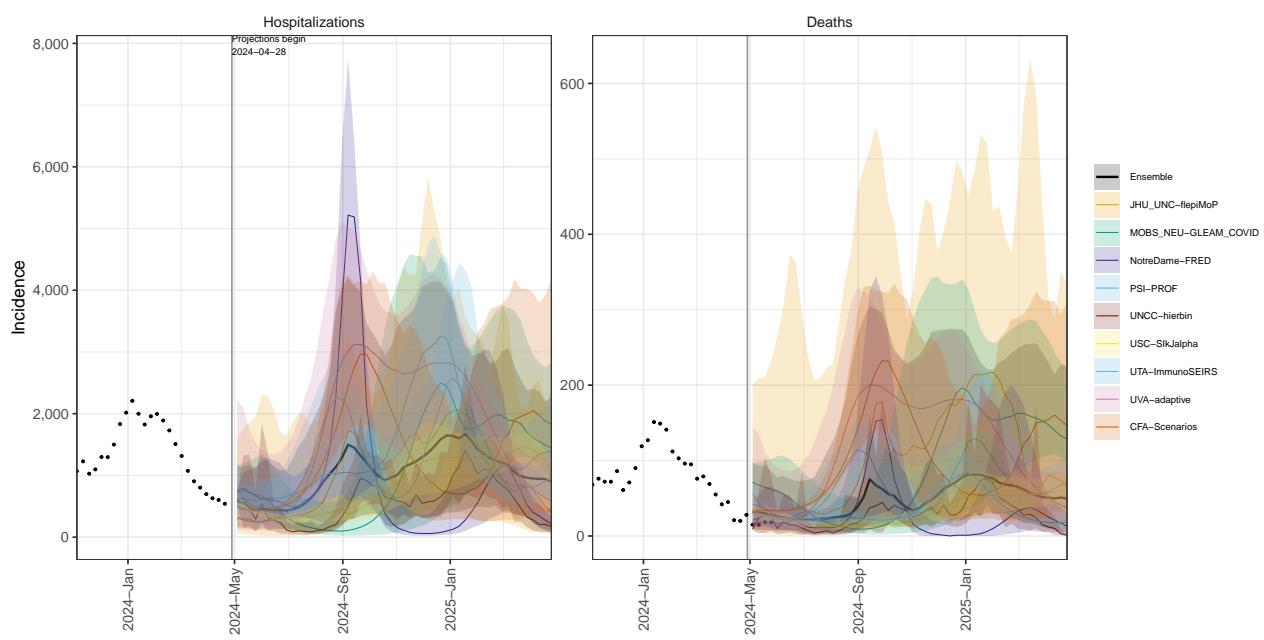
SD model variance & 95% projection intervals – Booster for all, High immune escape



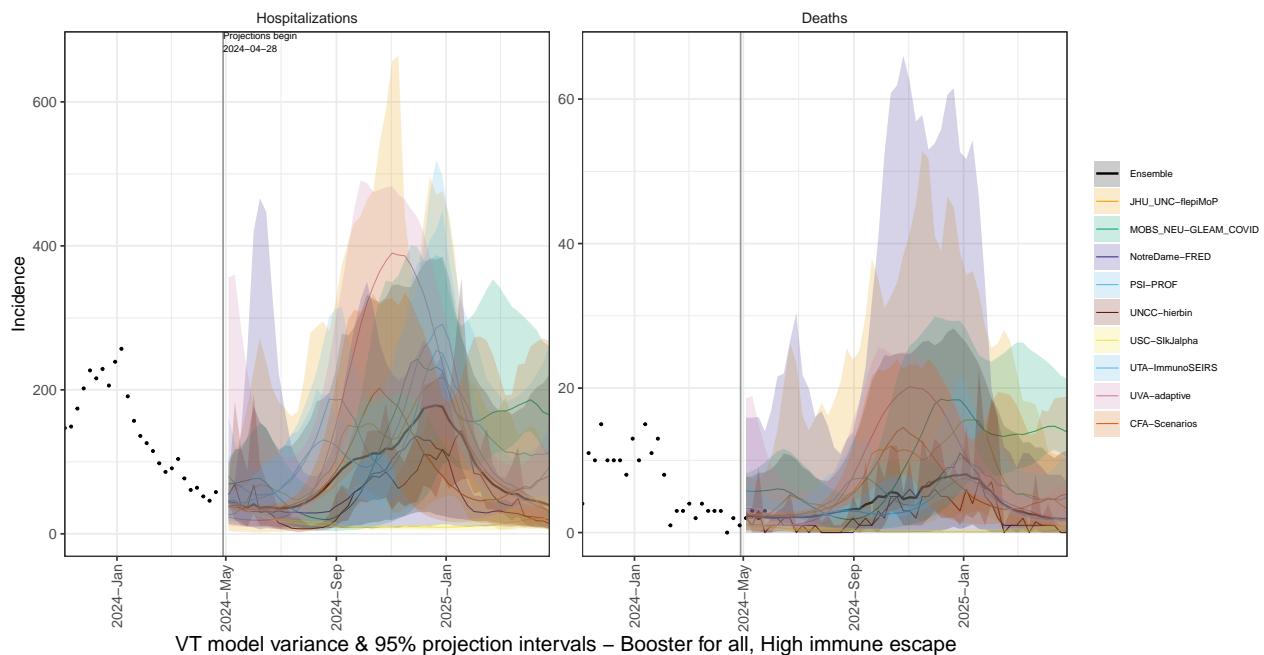
TN model variance & 95% projection intervals – Booster for all, High immune escape



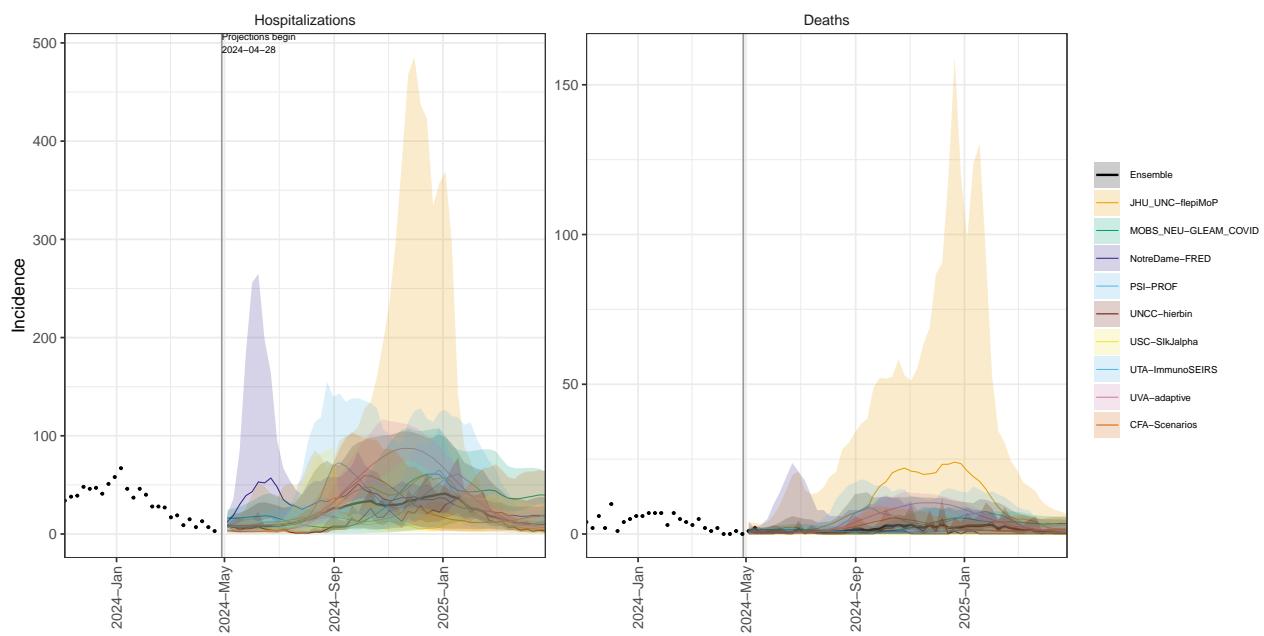
TX model variance & 95% projection intervals – Booster for all, High immune escape



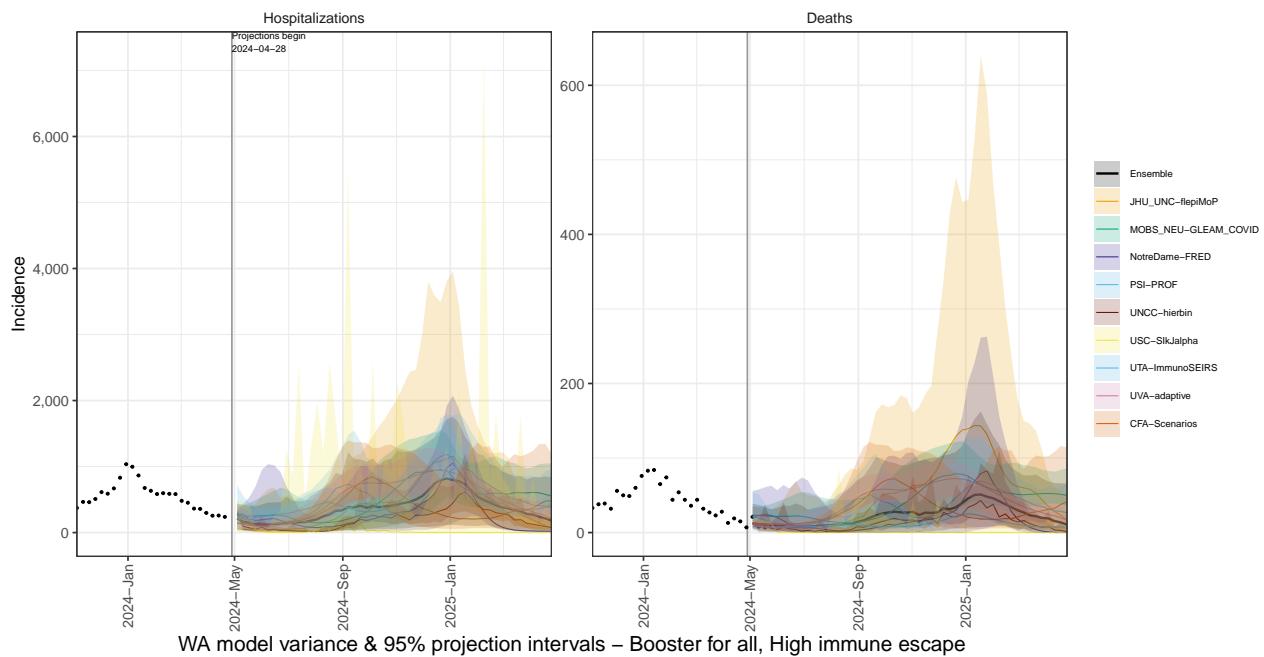
UT model variance & 95% projection intervals – Booster for all, High immune escape



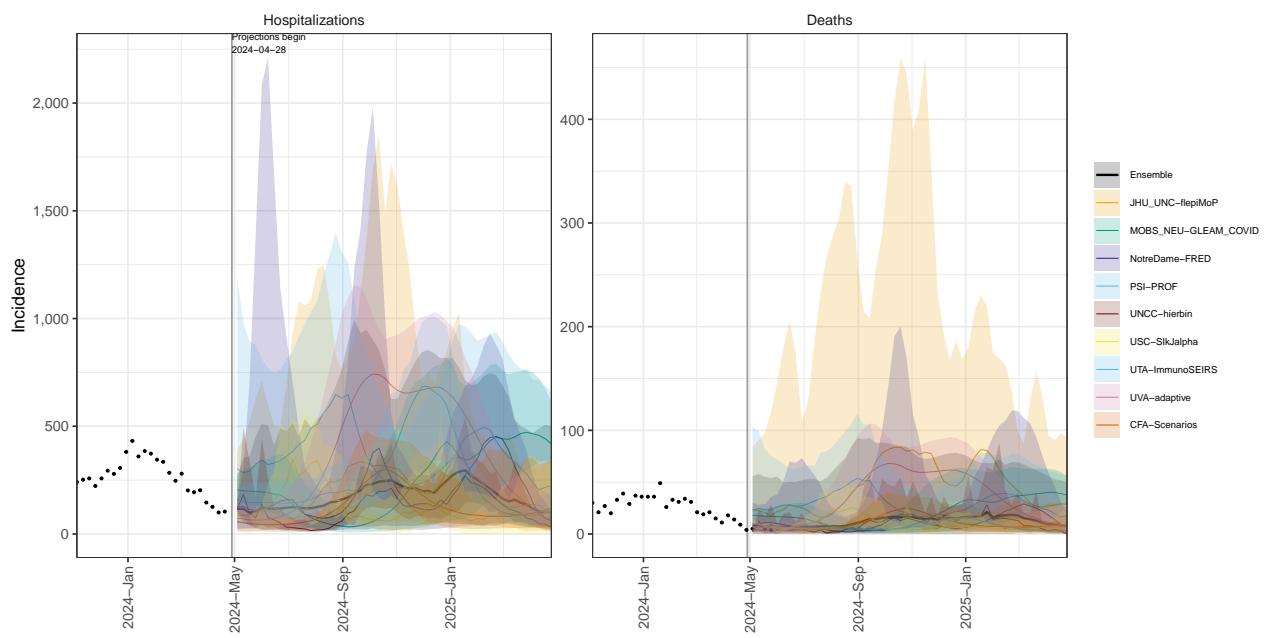
VT model variance & 95% projection intervals – Booster for all, High immune escape



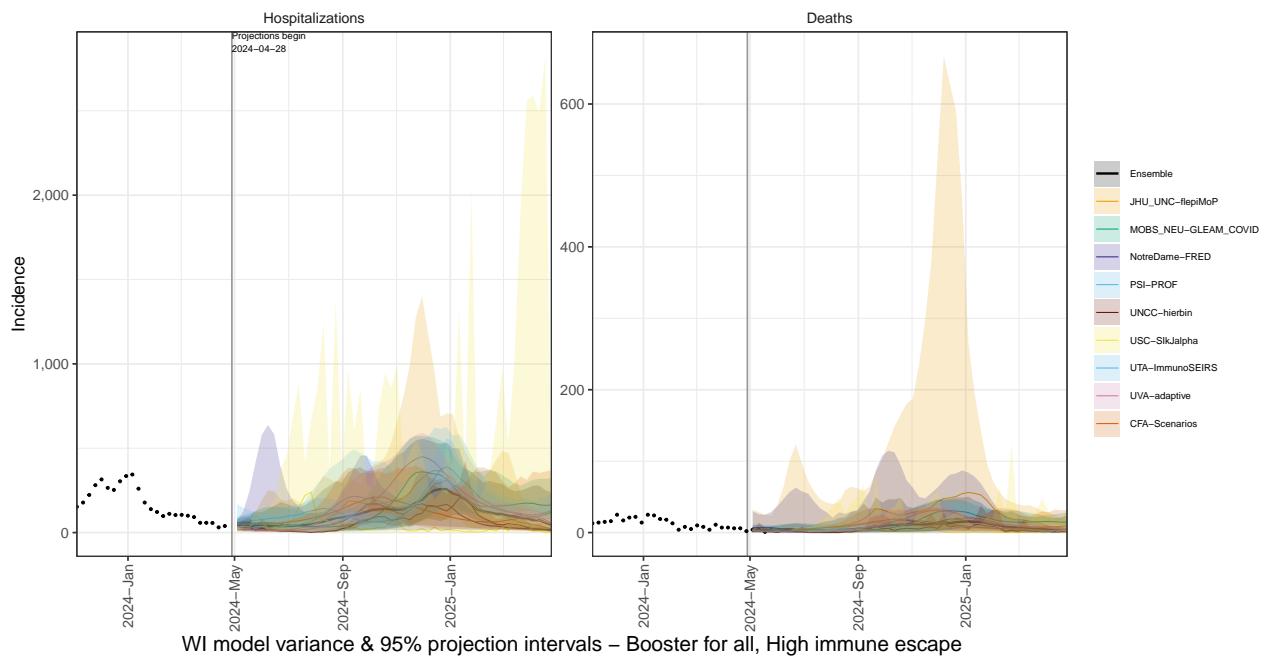
VA model variance & 95% projection intervals – Booster for all, High immune escape



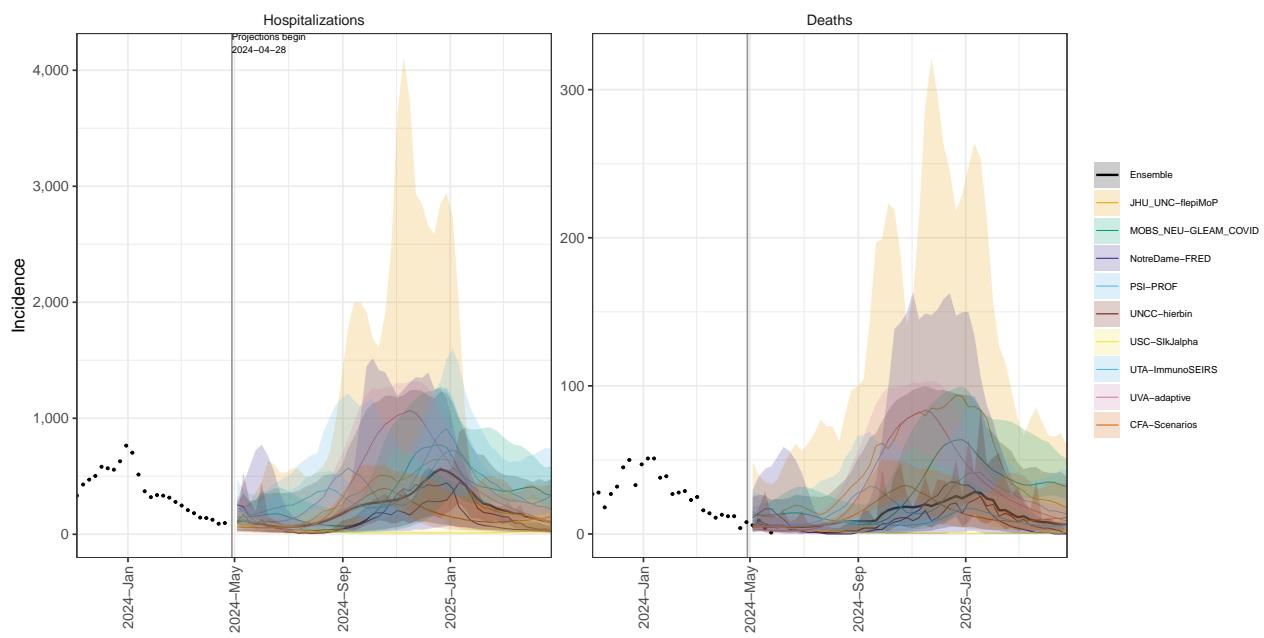
WA model variance & 95% projection intervals – Booster for all, High immune escape



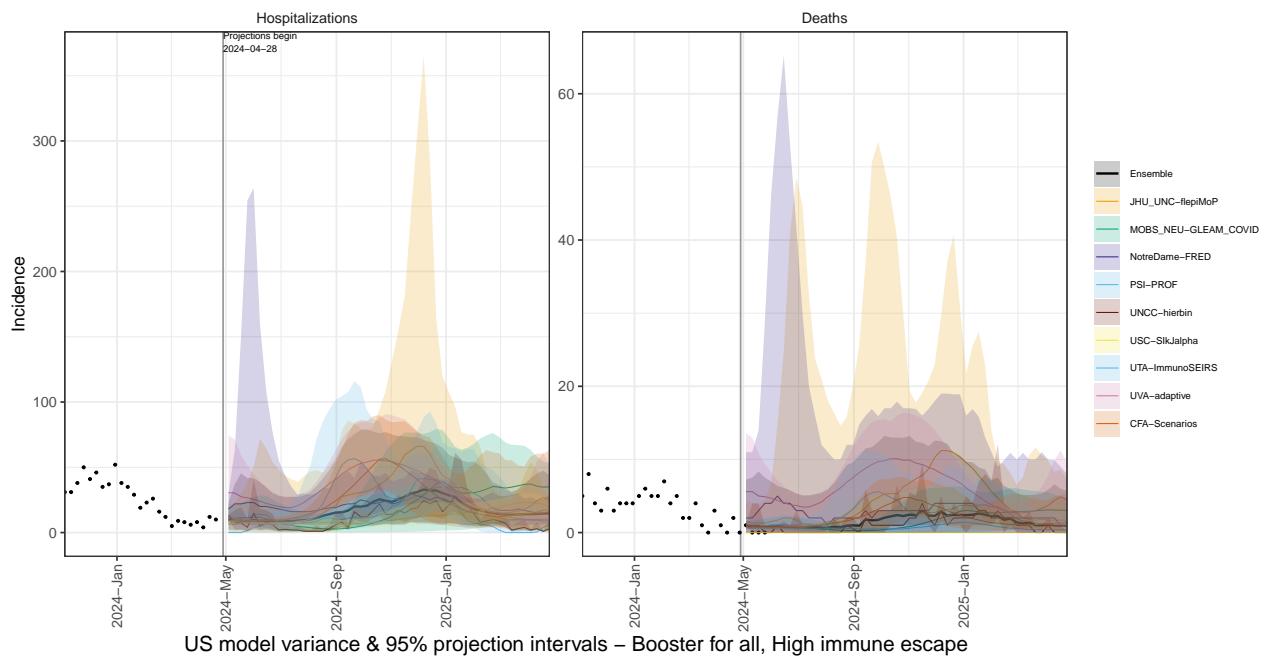
WV model variance & 95% projection intervals – Booster for all, High immune escape



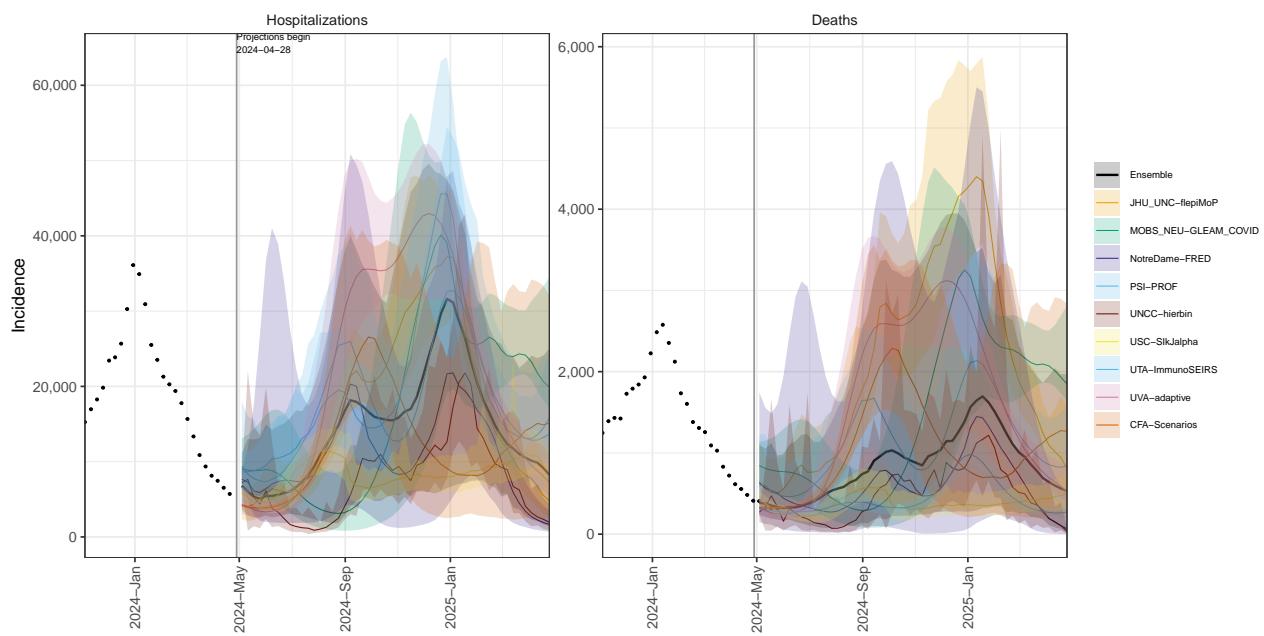
WI model variance & 95% projection intervals – Booster for all, High immune escape



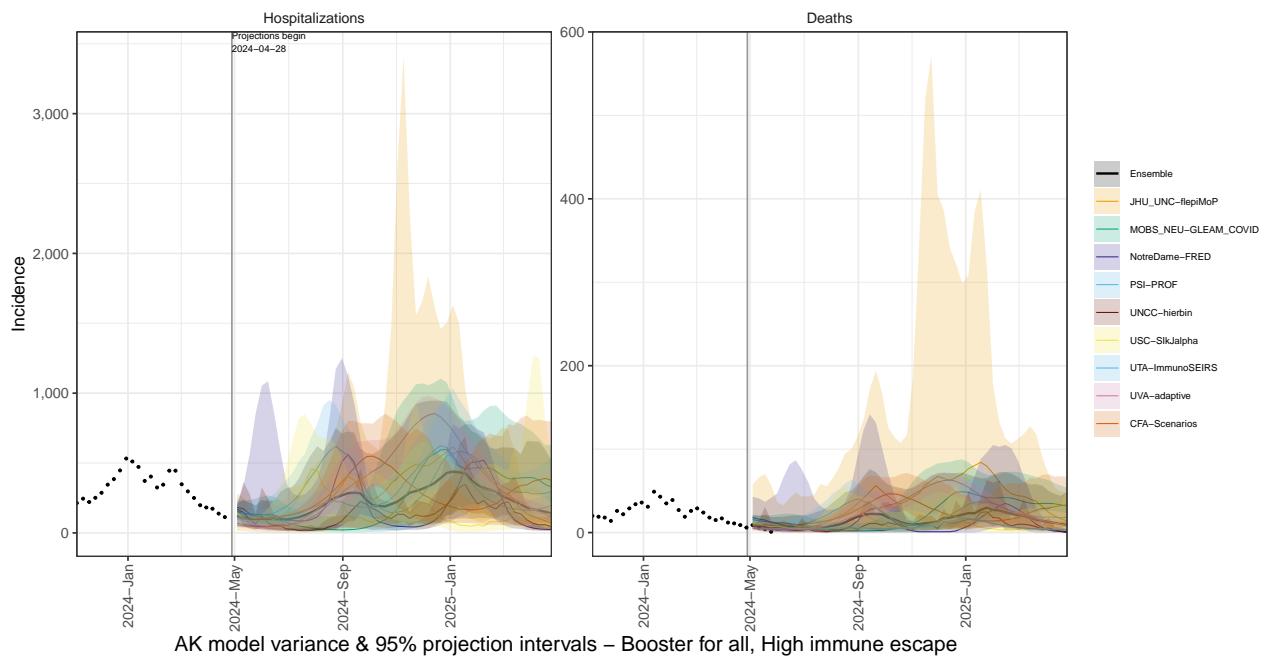
WY model variance & 95% projection intervals – Booster for all, High immune escape



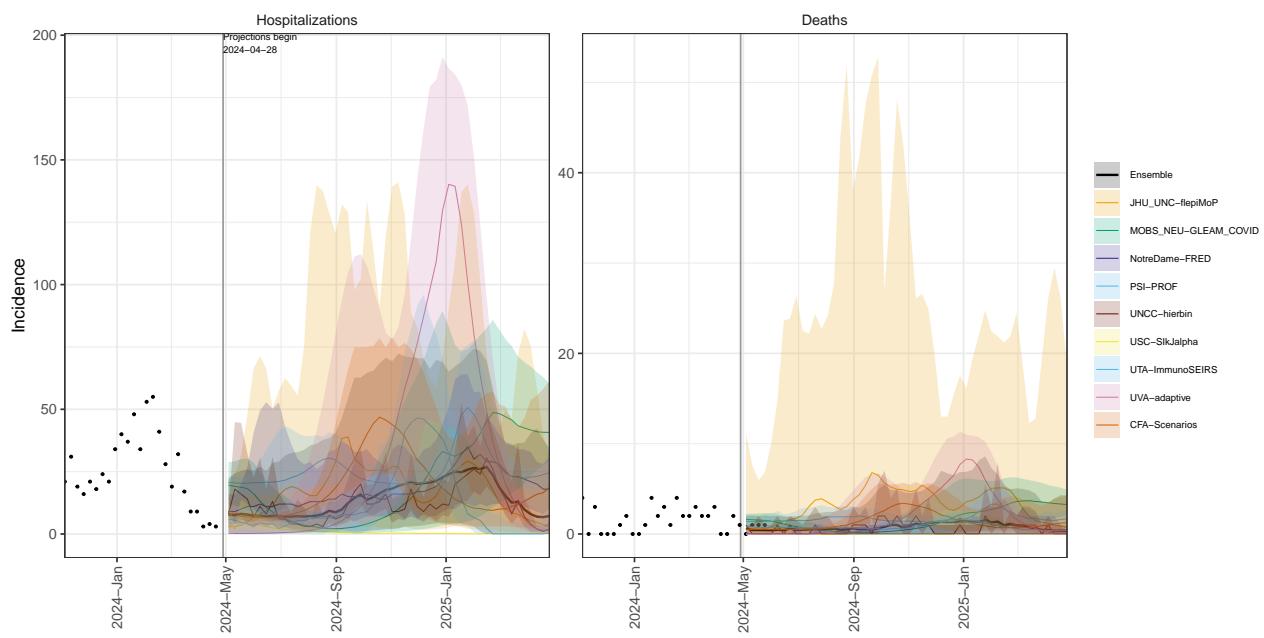
US model variance & 95% projection intervals – Booster for all, High immune escape



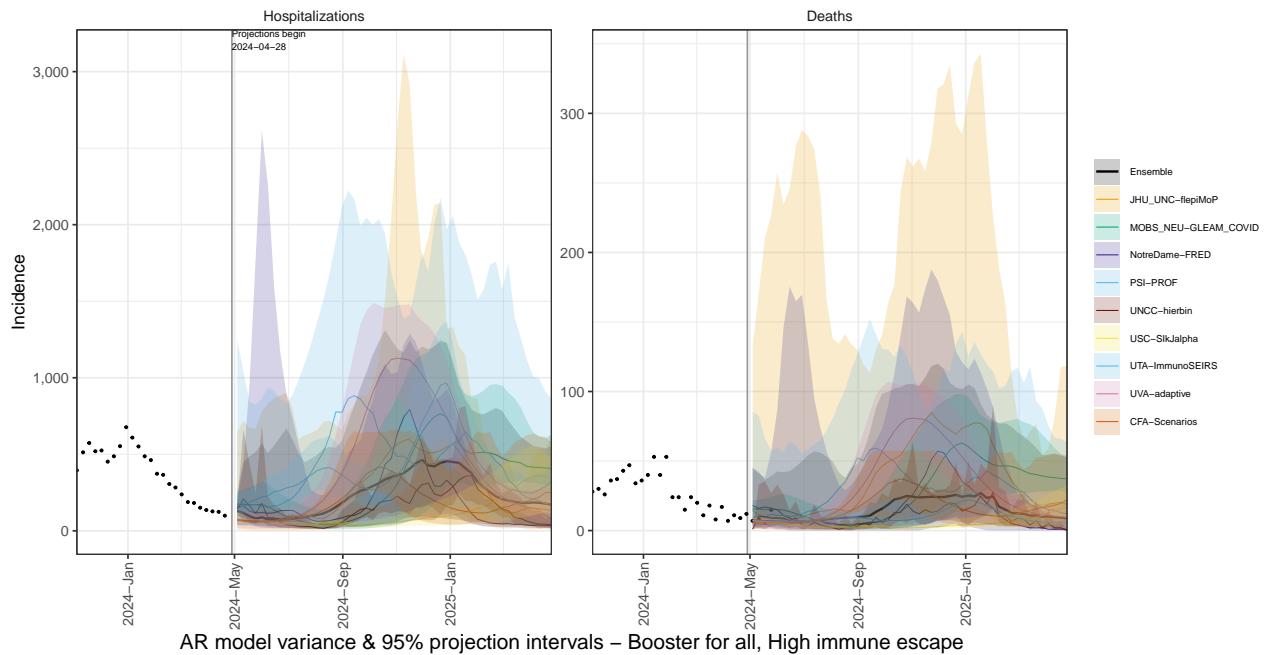
AL model variance & 95% projection intervals – Booster for all, High immune escape



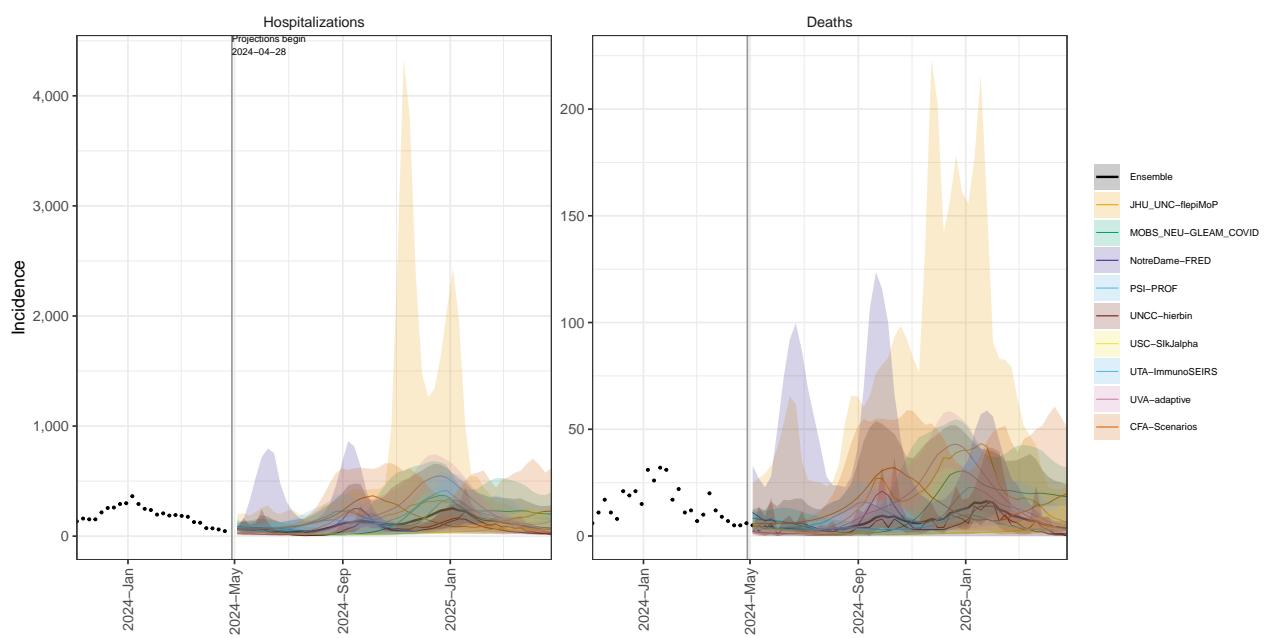
AK model variance & 95% projection intervals – Booster for all, High immune escape



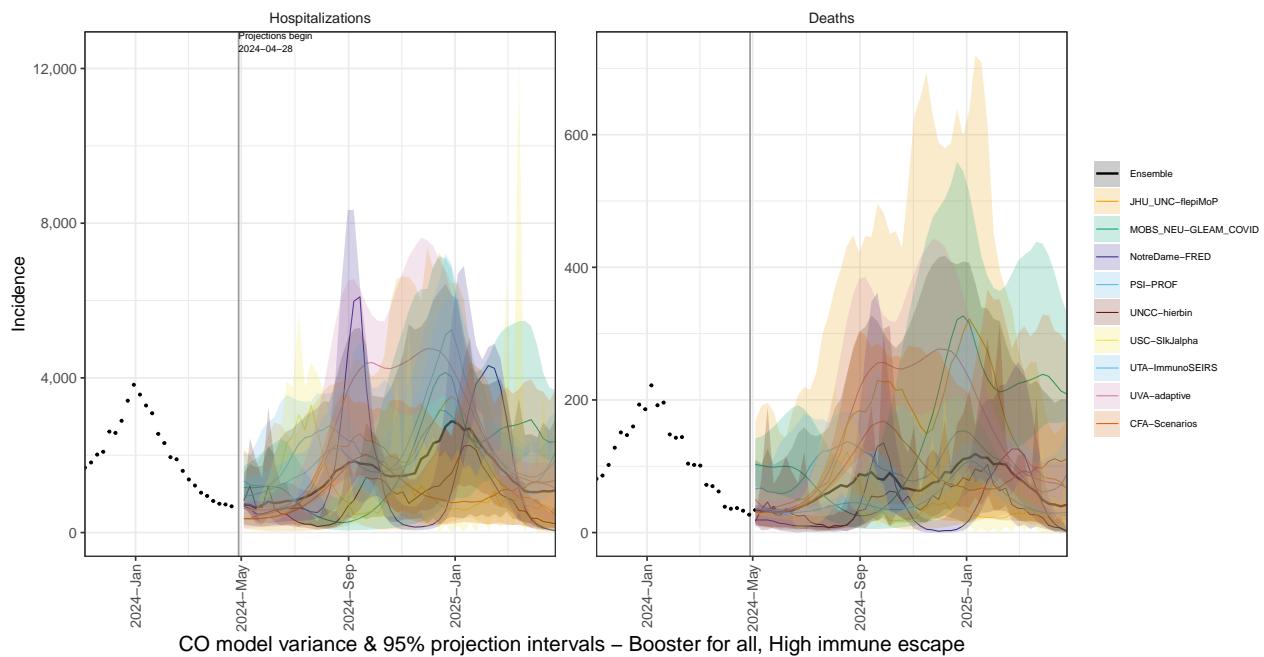
AZ model variance & 95% projection intervals – Booster for all, High immune escape



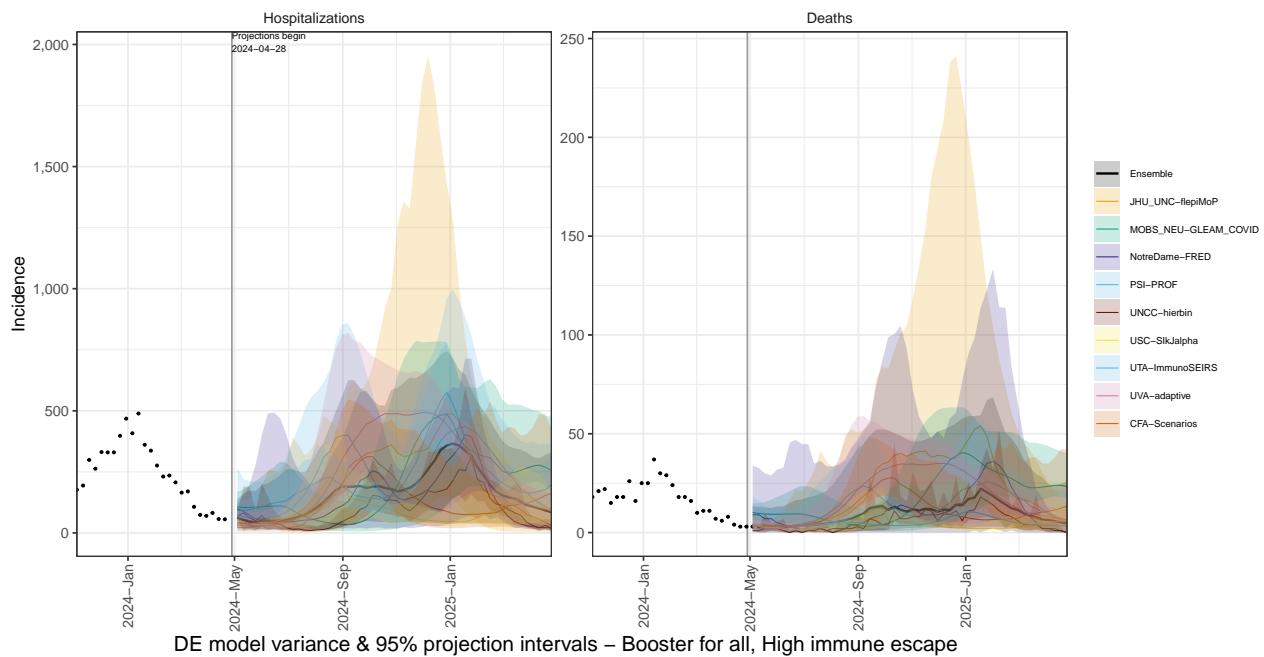
AR model variance & 95% projection intervals – Booster for all, High immune escape



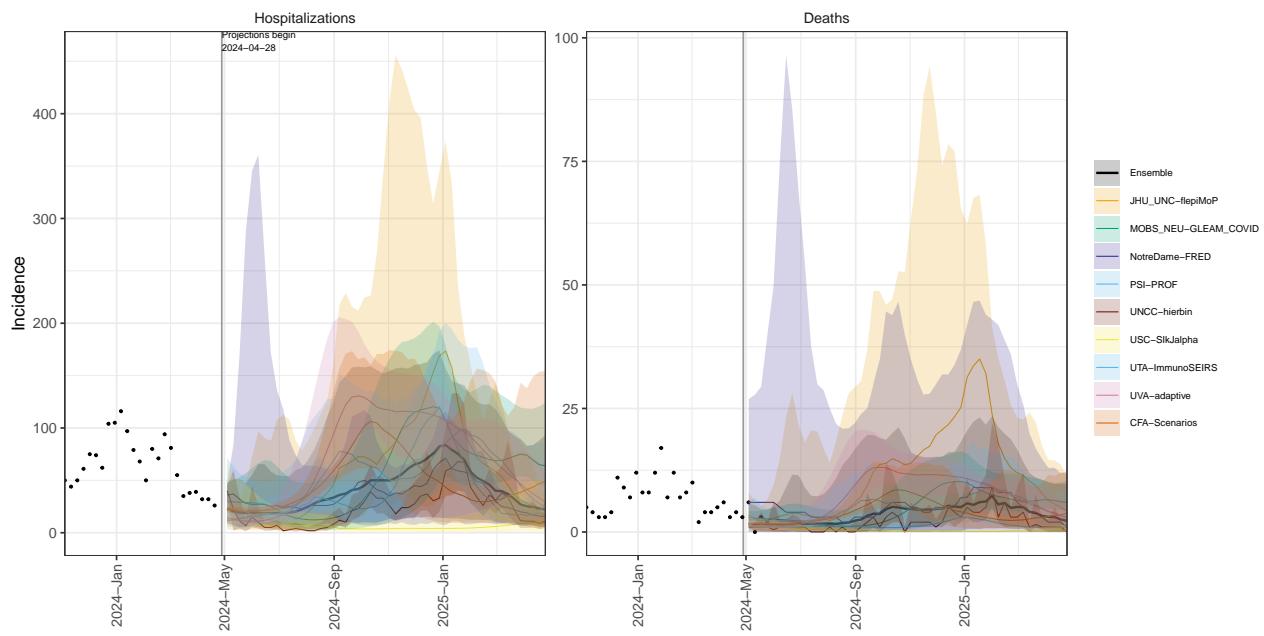
CA model variance & 95% projection intervals – Booster for all, High immune escape



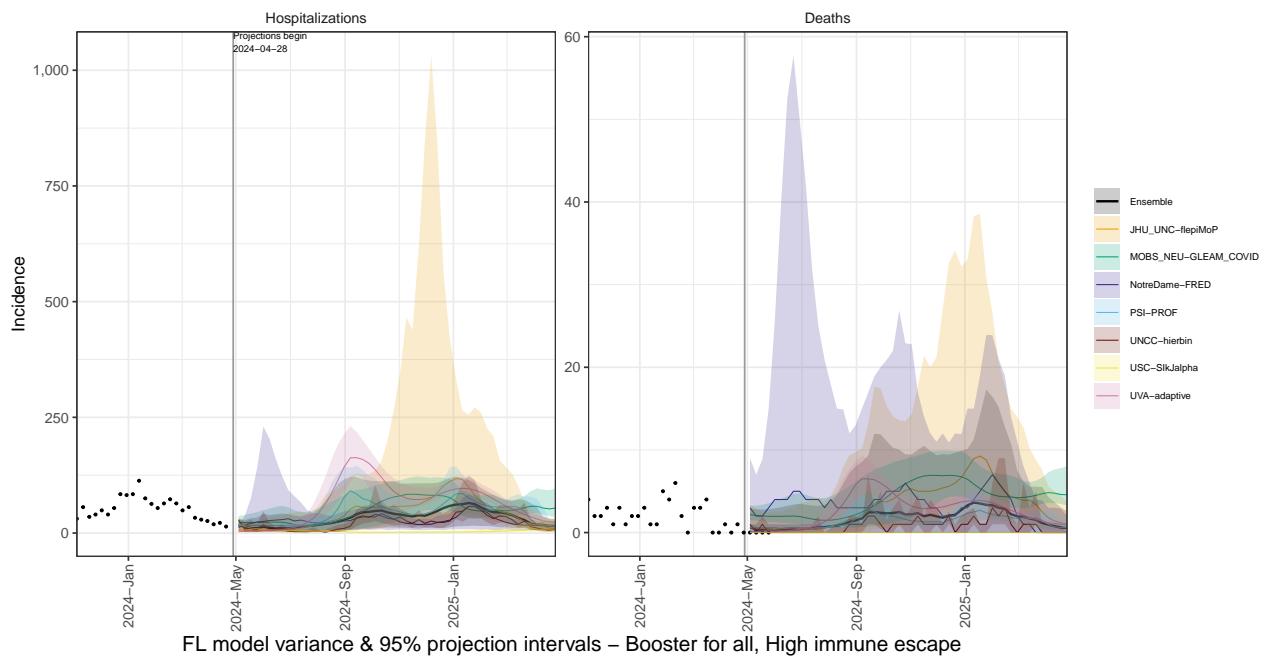
CT model variance & 95% projection intervals – Booster for all, High immune escape



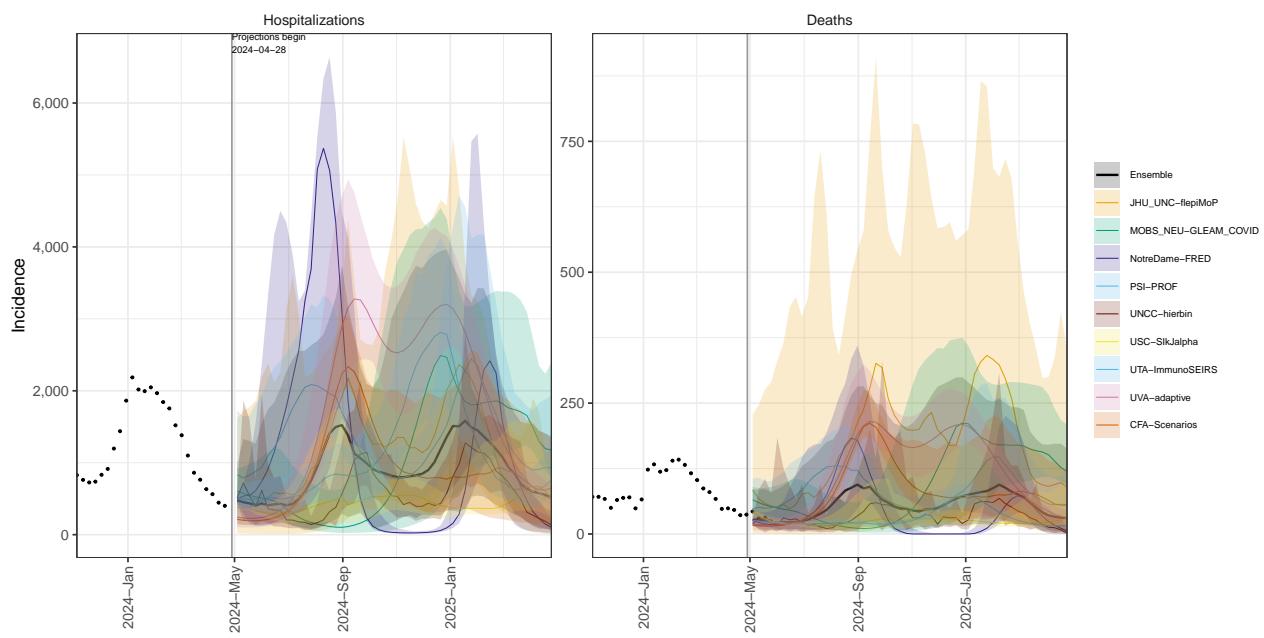
DE model variance & 95% projection intervals – Booster for all, High immune escape



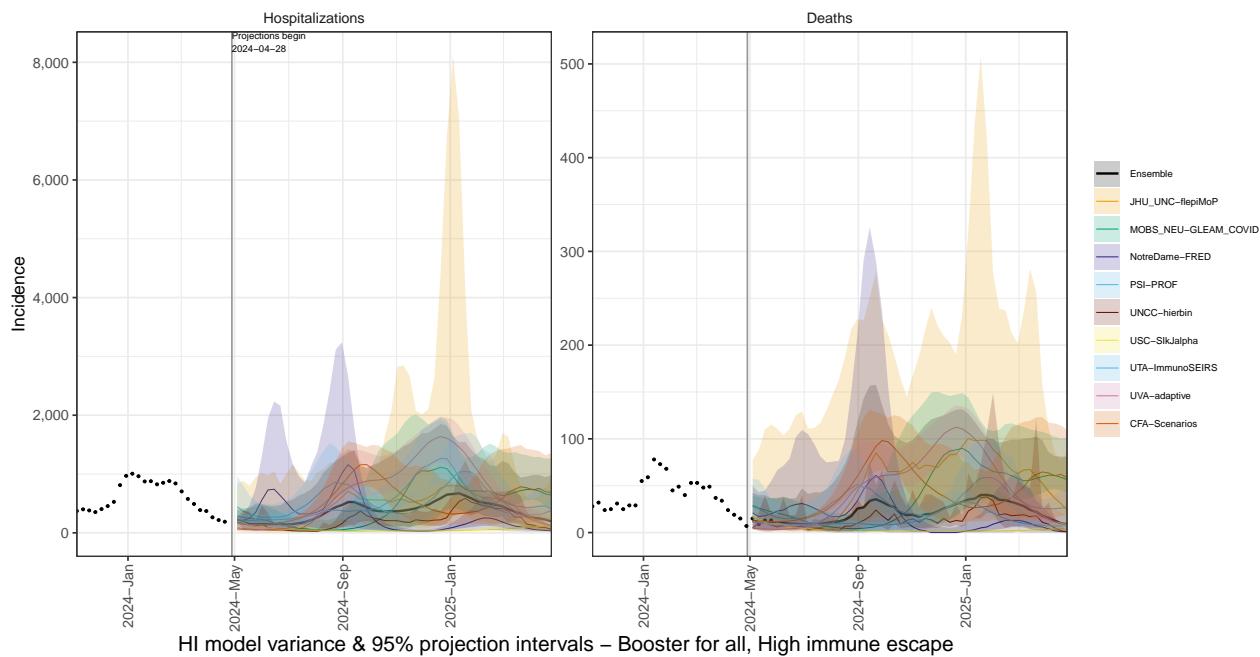
DC model variance & 95% projection intervals – Booster for all, High immune escape



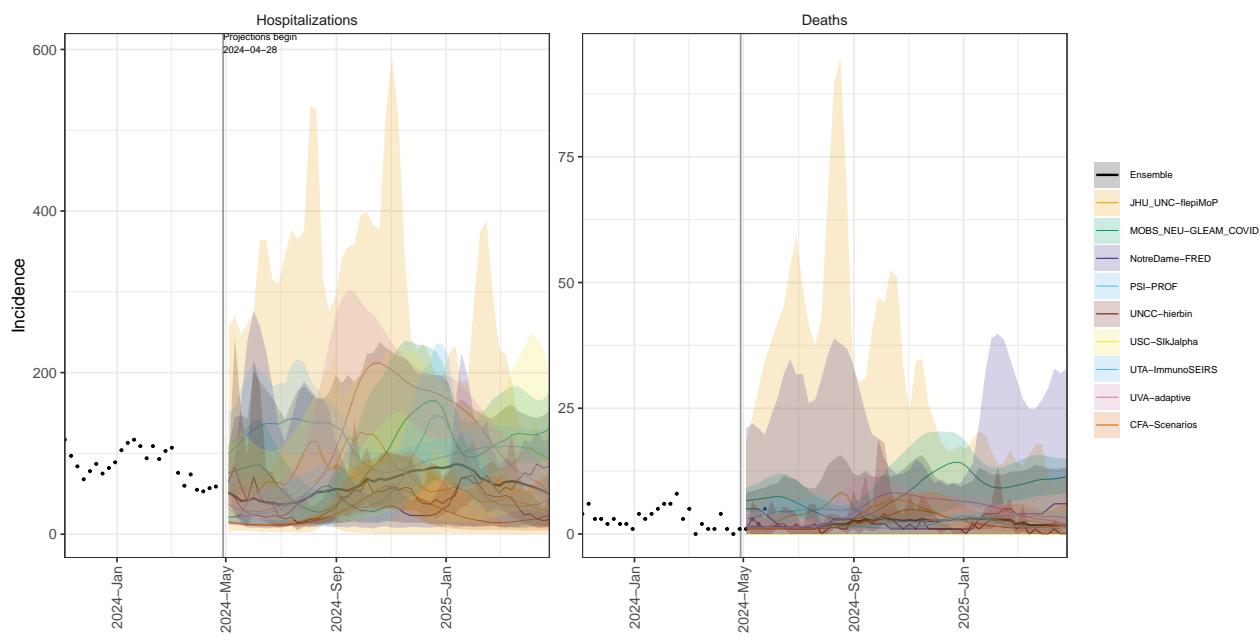
FL model variance & 95% projection intervals – Booster for all, High immune escape



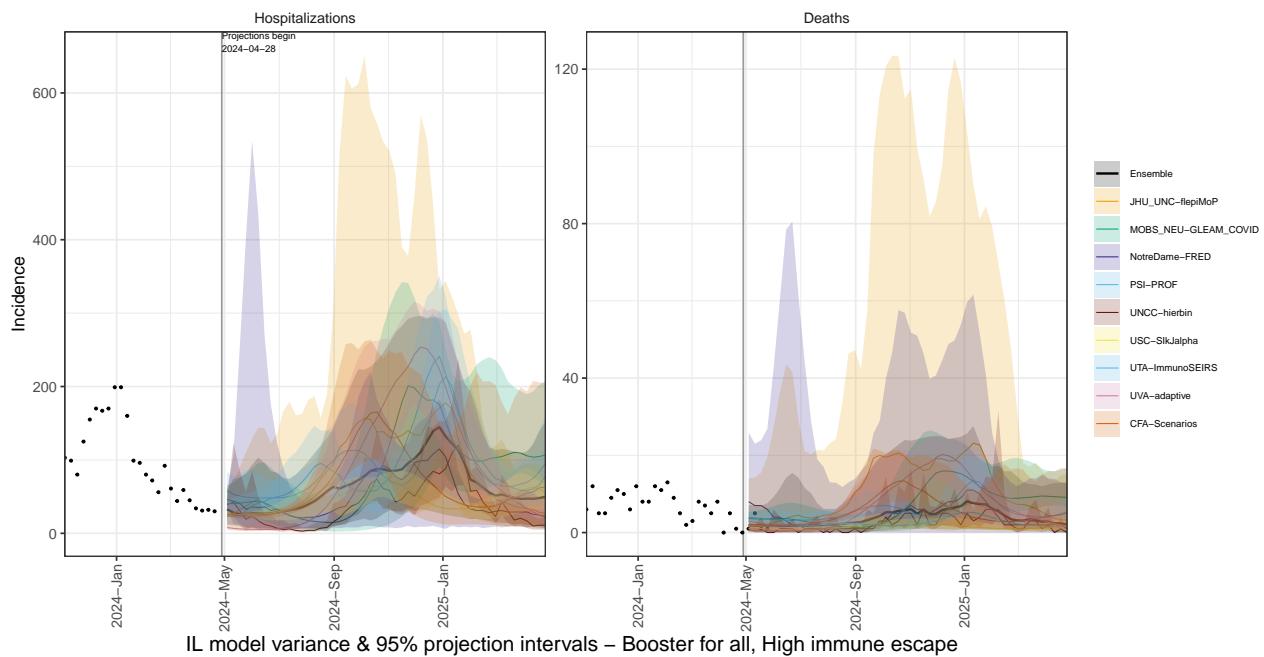
GA model variance & 95% projection intervals – Booster for all, High immune escape



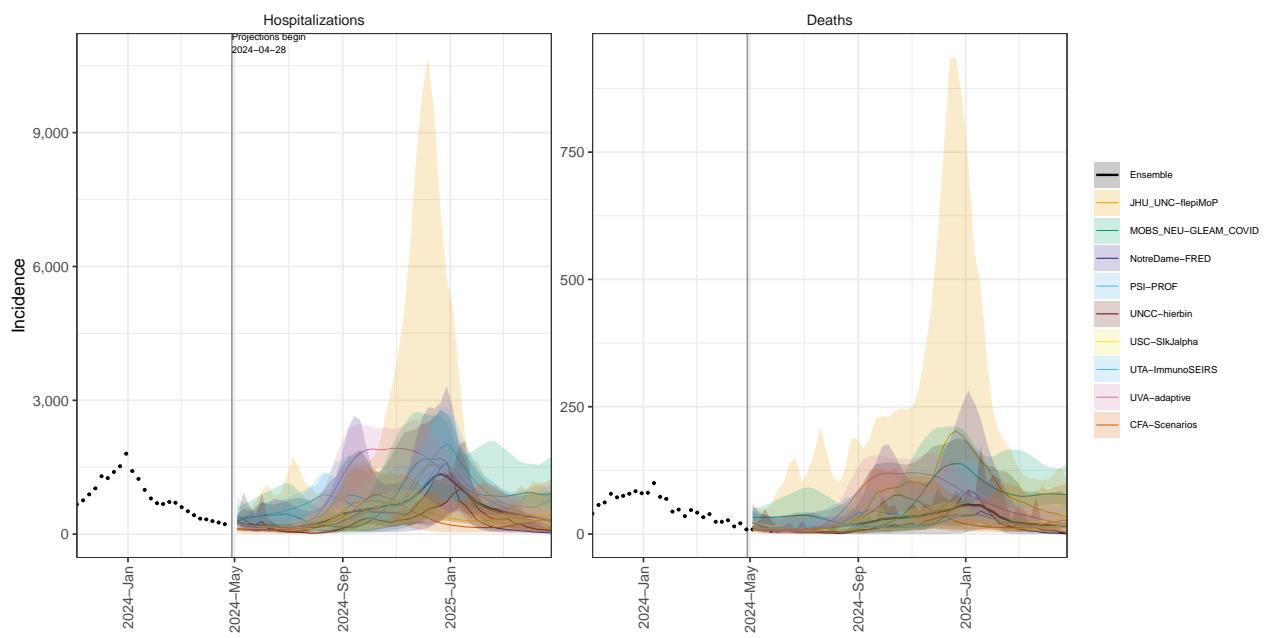
HI model variance & 95% projection intervals – Booster for all, High immune escape



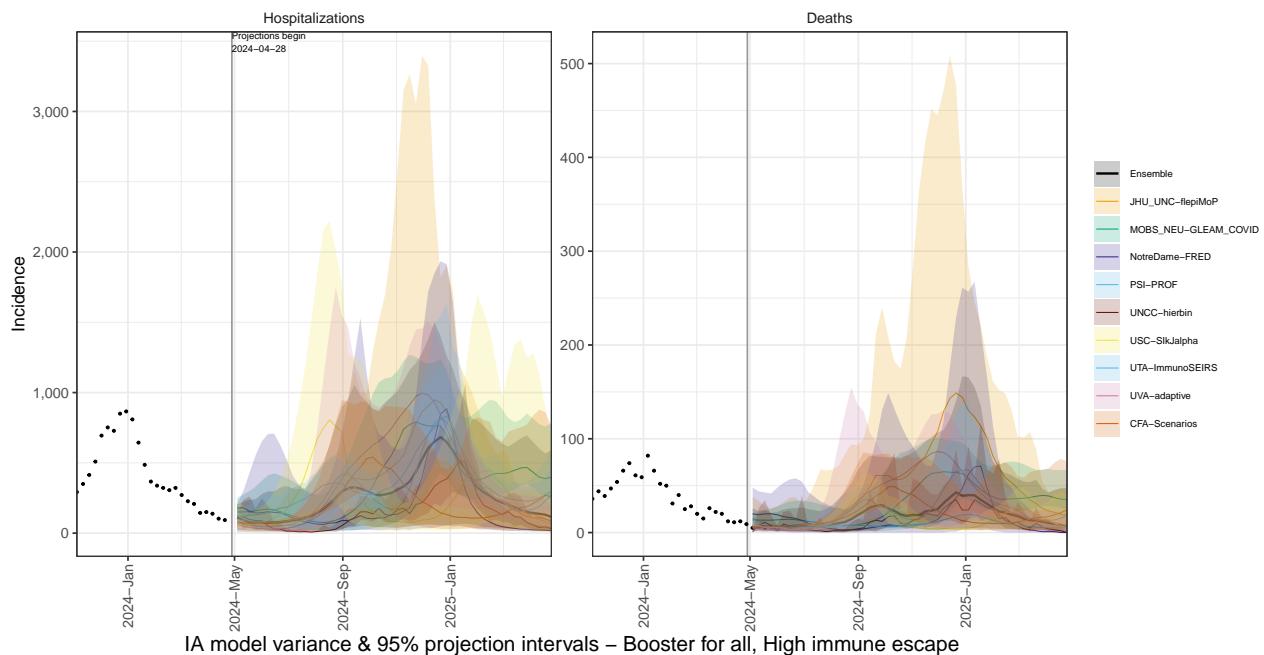
ID model variance & 95% projection intervals – Booster for all, High immune escape



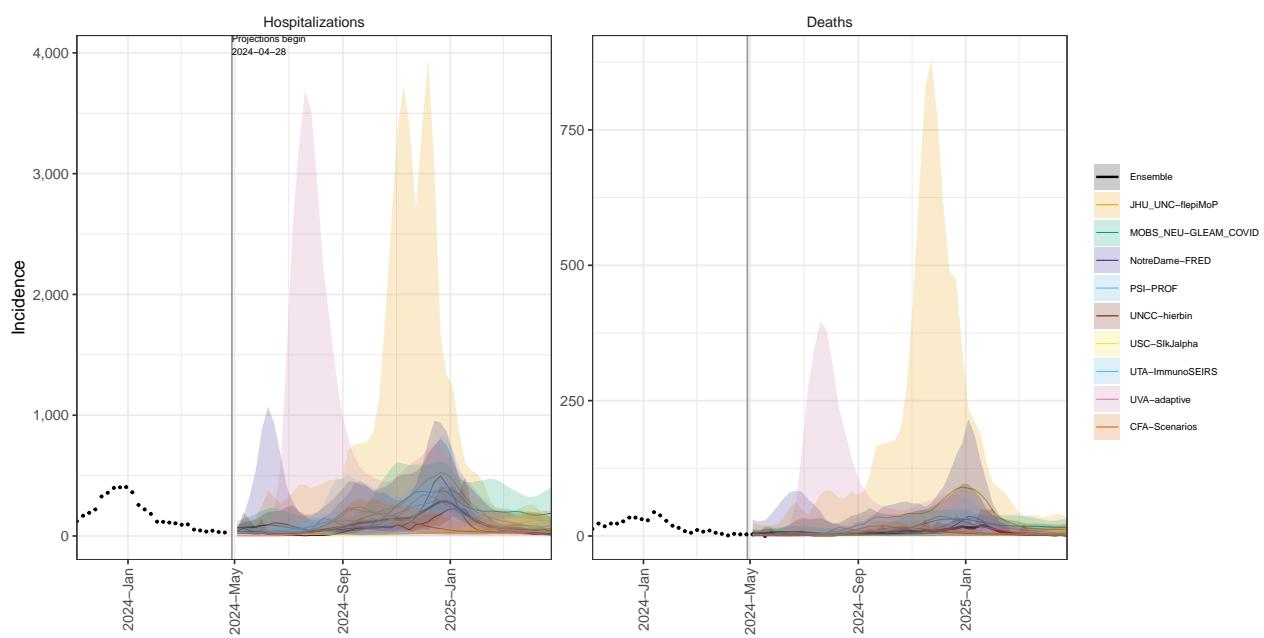
IL model variance & 95% projection intervals – Booster for all, High immune escape



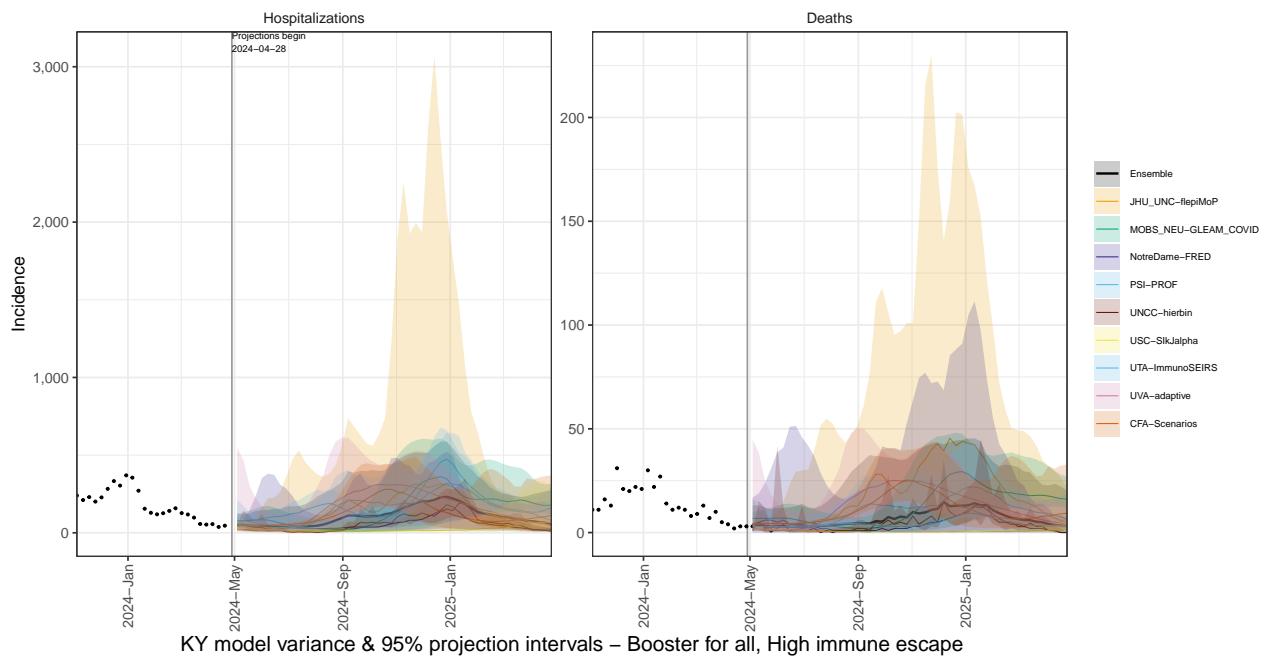
IN model variance & 95% projection intervals – Booster for all, High immune escape



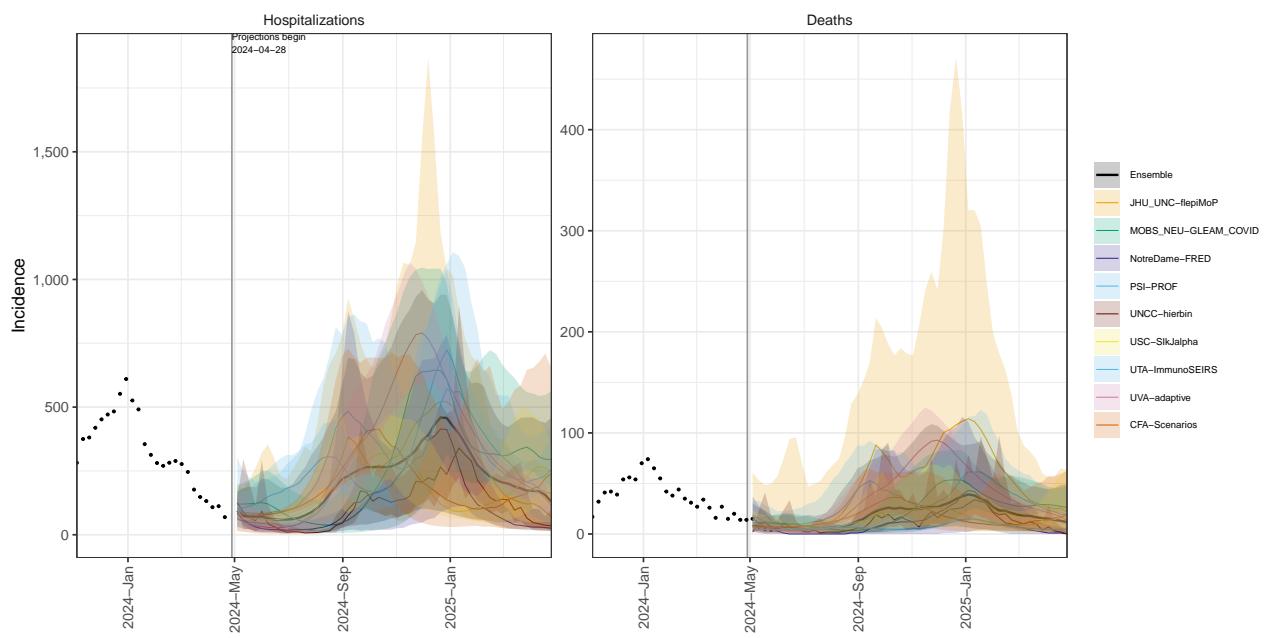
IA model variance & 95% projection intervals – Booster for all, High immune escape



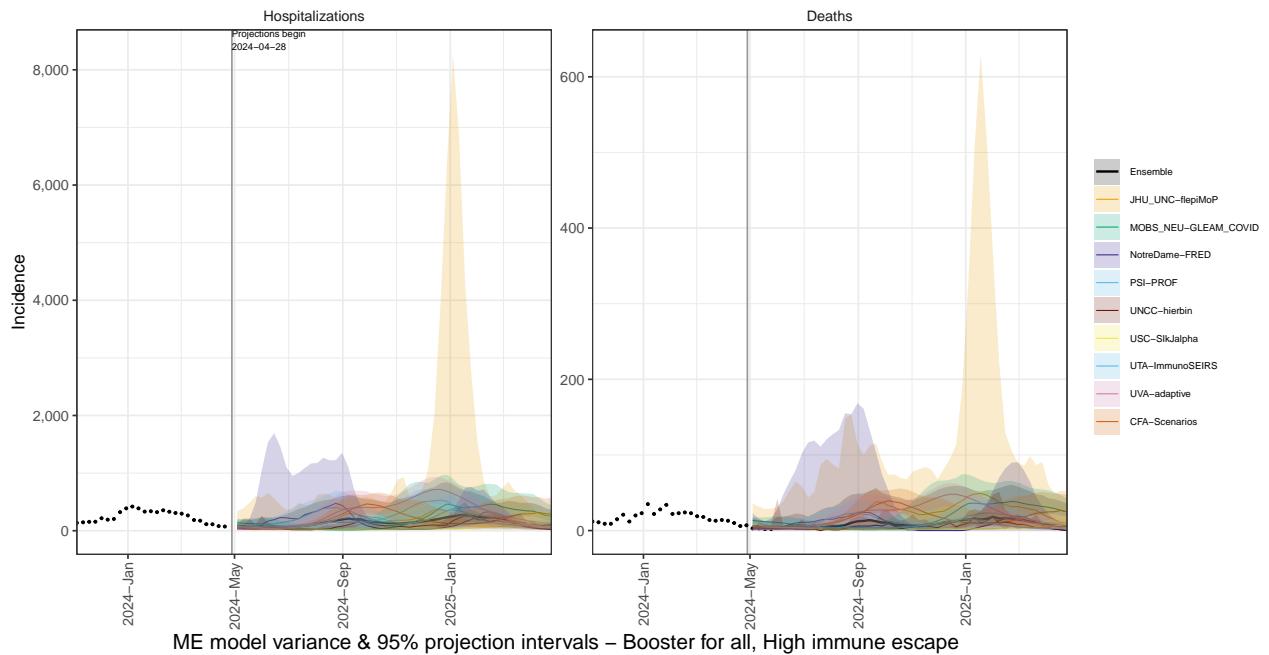
KS model variance & 95% projection intervals – Booster for all, High immune escape



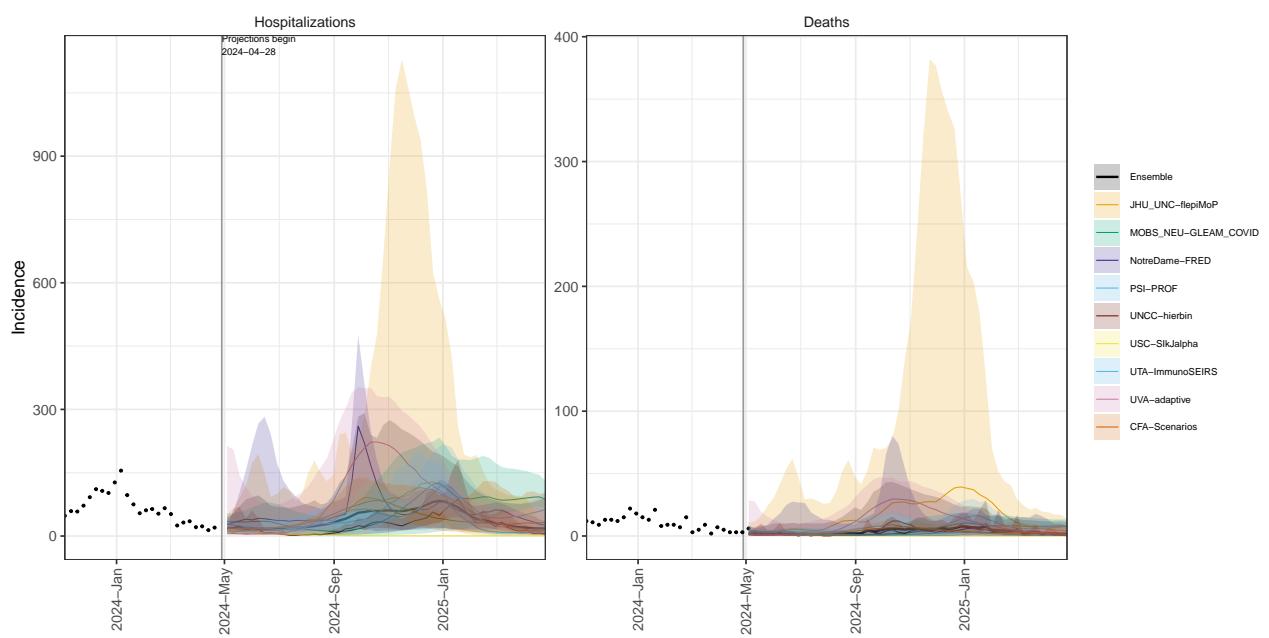
KY model variance & 95% projection intervals – Booster for all, High immune escape



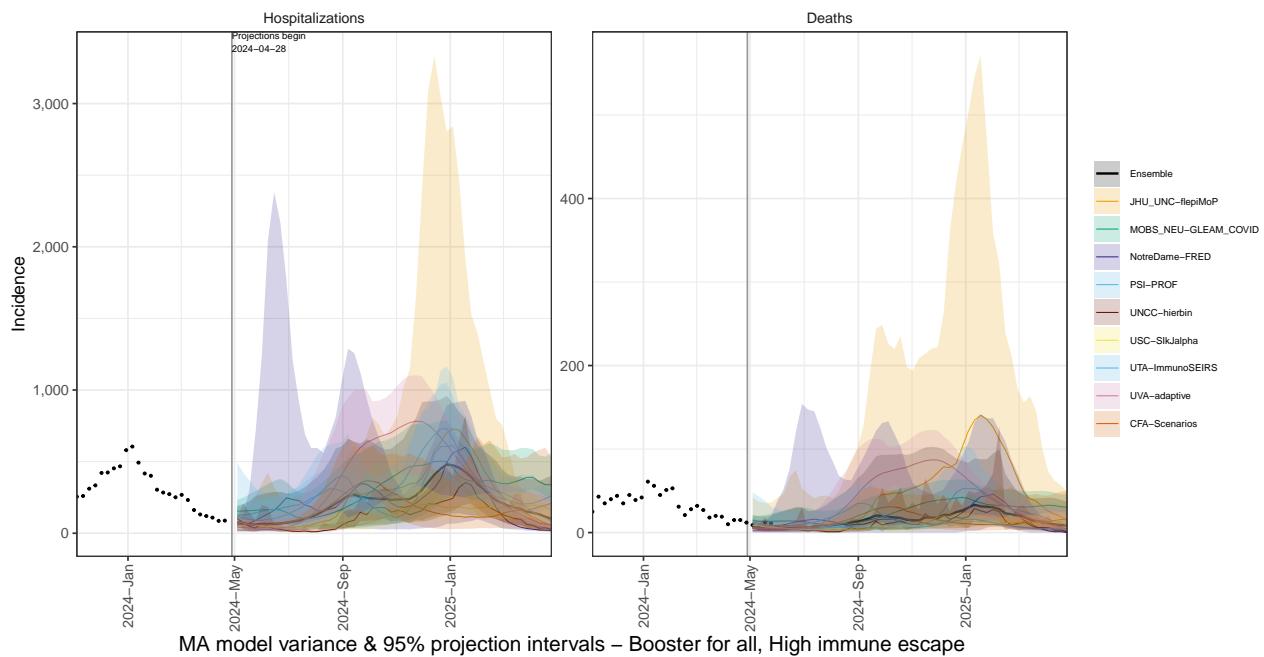
LA model variance & 95% projection intervals – Booster for all, High immune escape



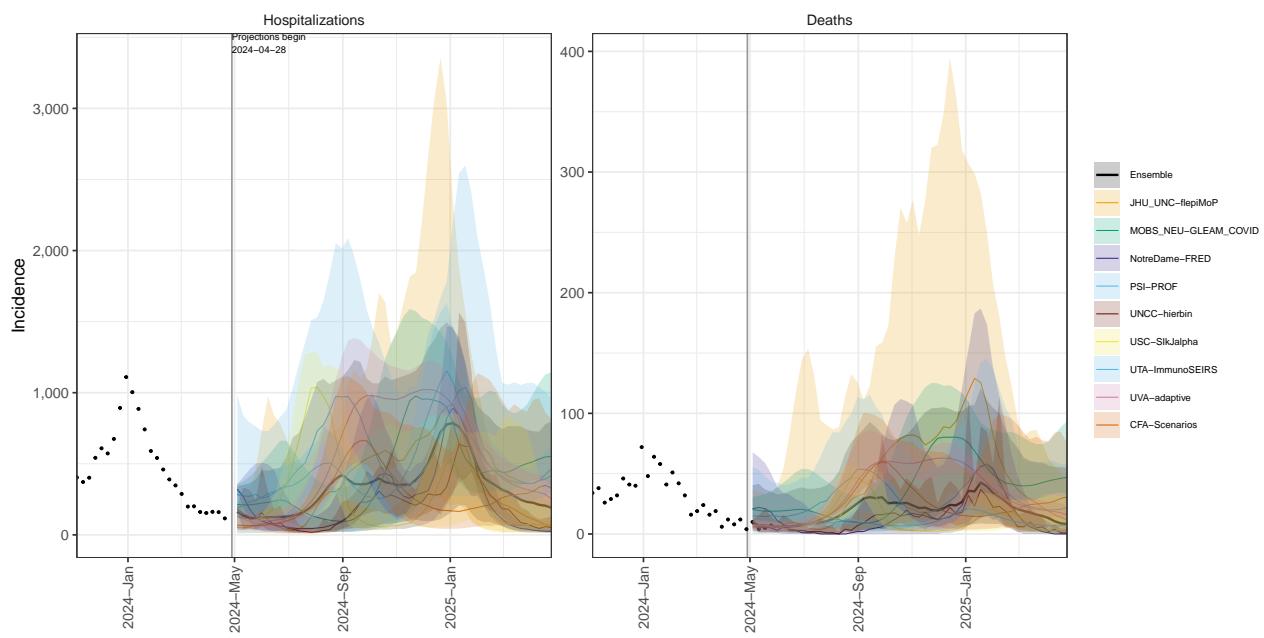
ME model variance & 95% projection intervals – Booster for all, High immune escape



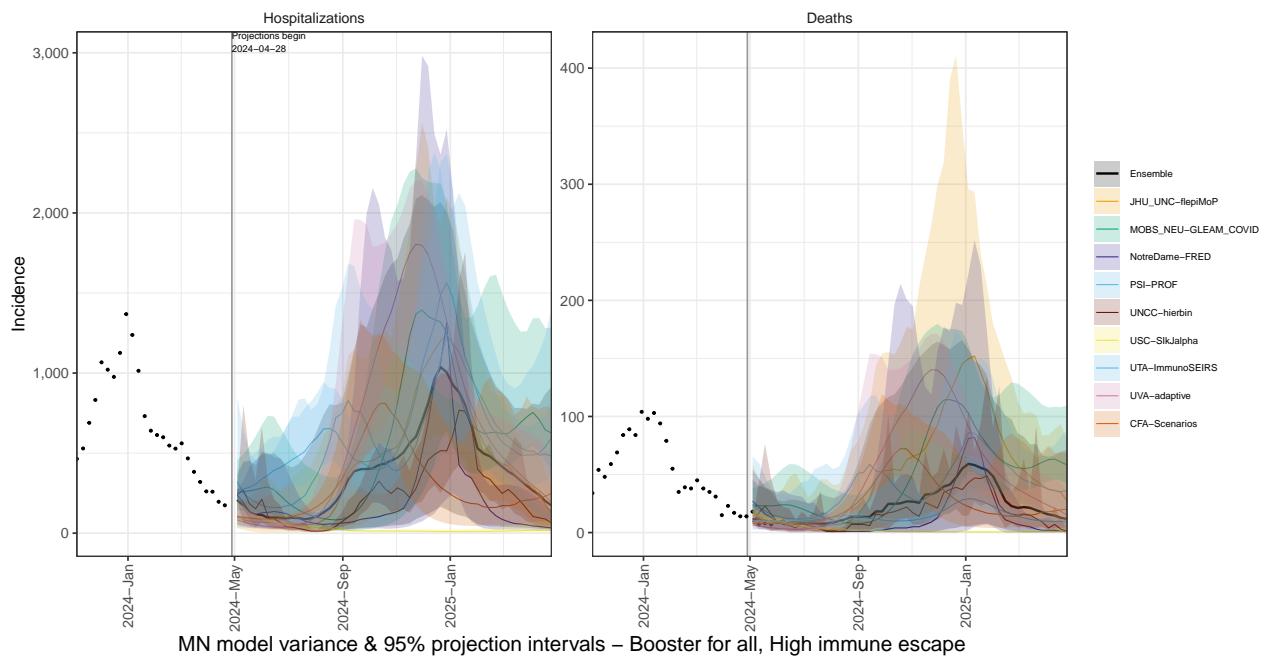
MD model variance & 95% projection intervals – Booster for all, High immune escape



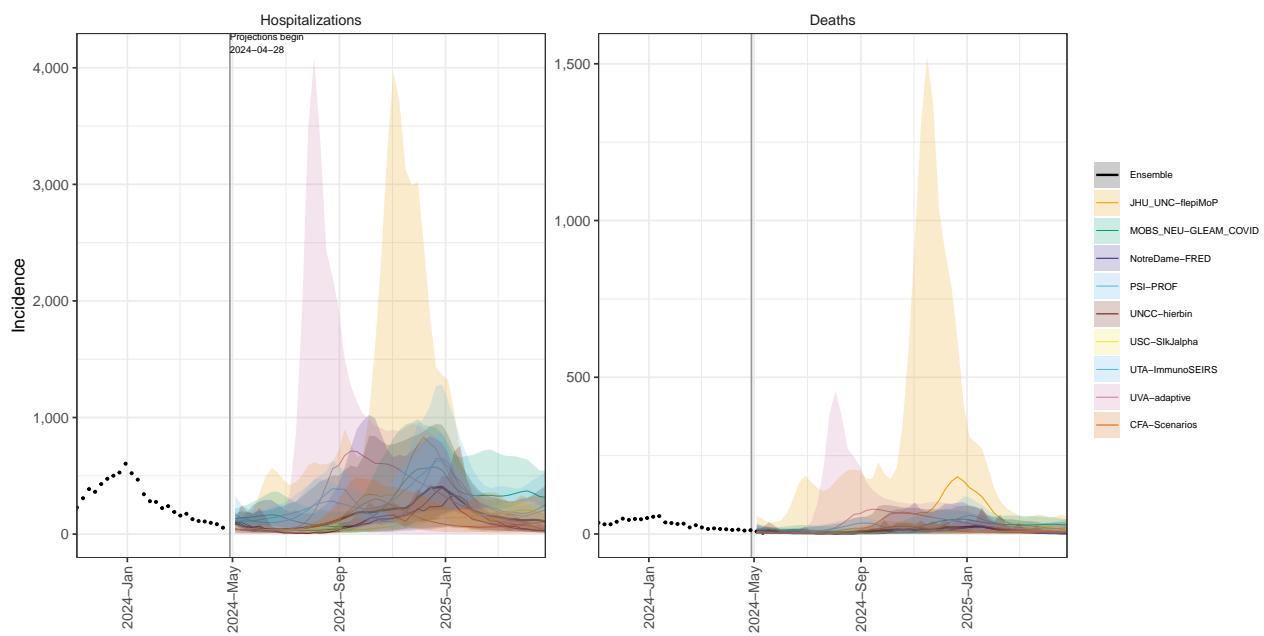
MA model variance & 95% projection intervals – Booster for all, High immune escape



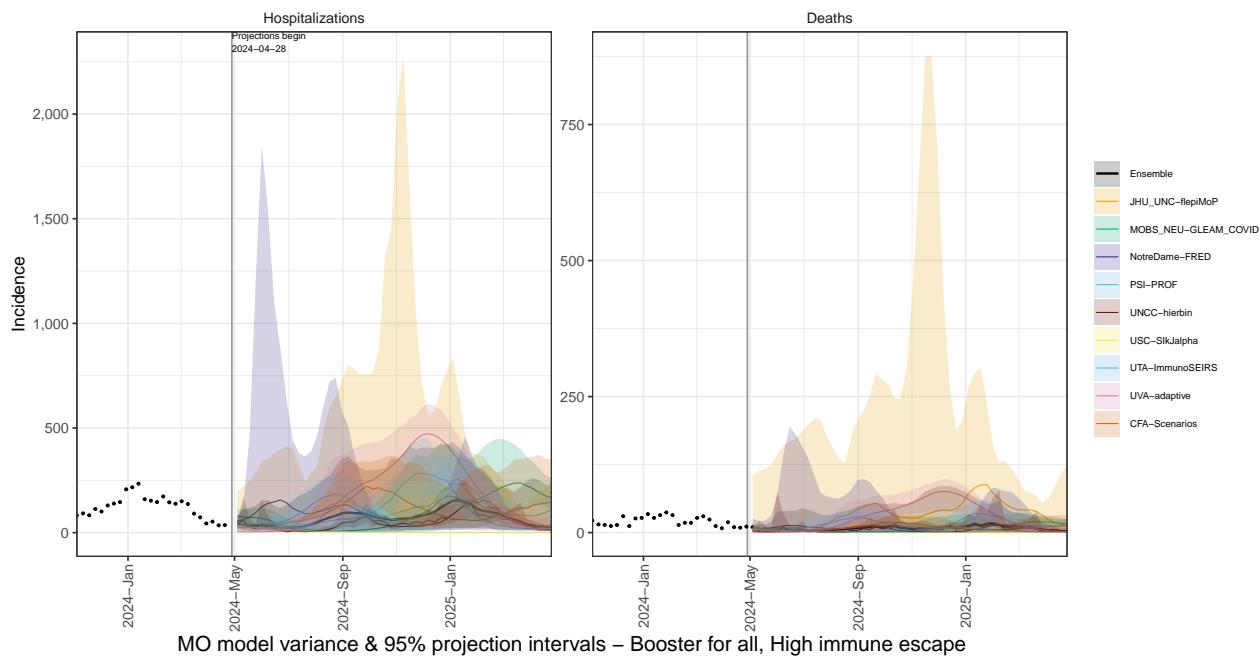
MI model variance & 95% projection intervals – Booster for all, High immune escape



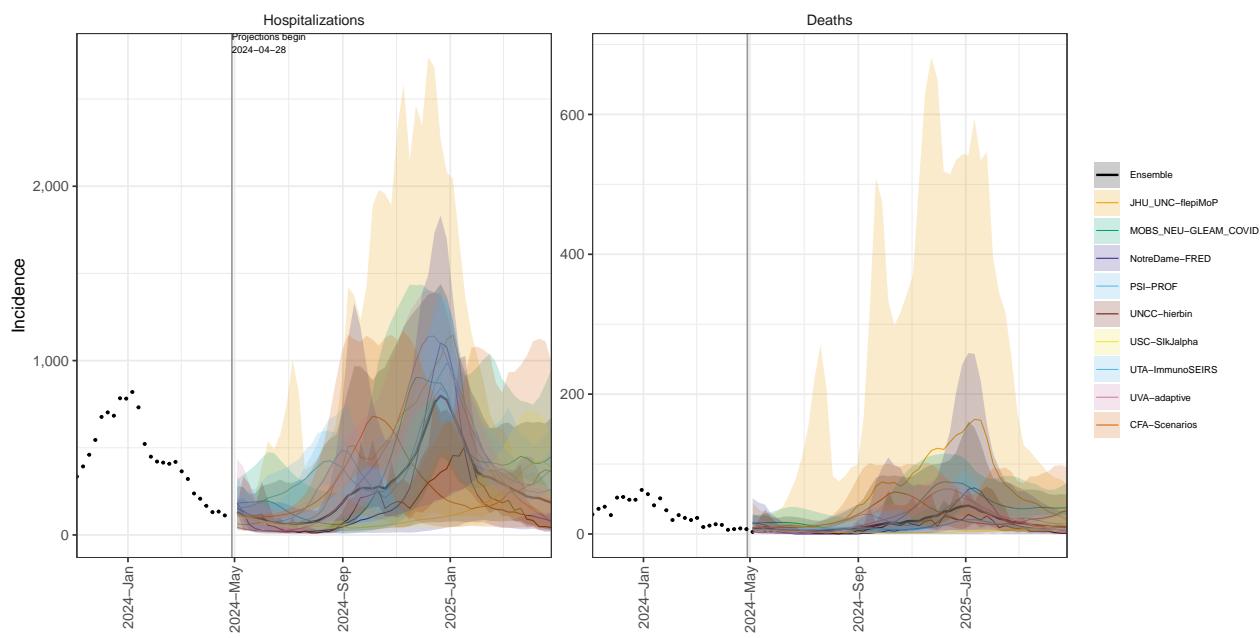
MN model variance & 95% projection intervals – Booster for all, High immune escape



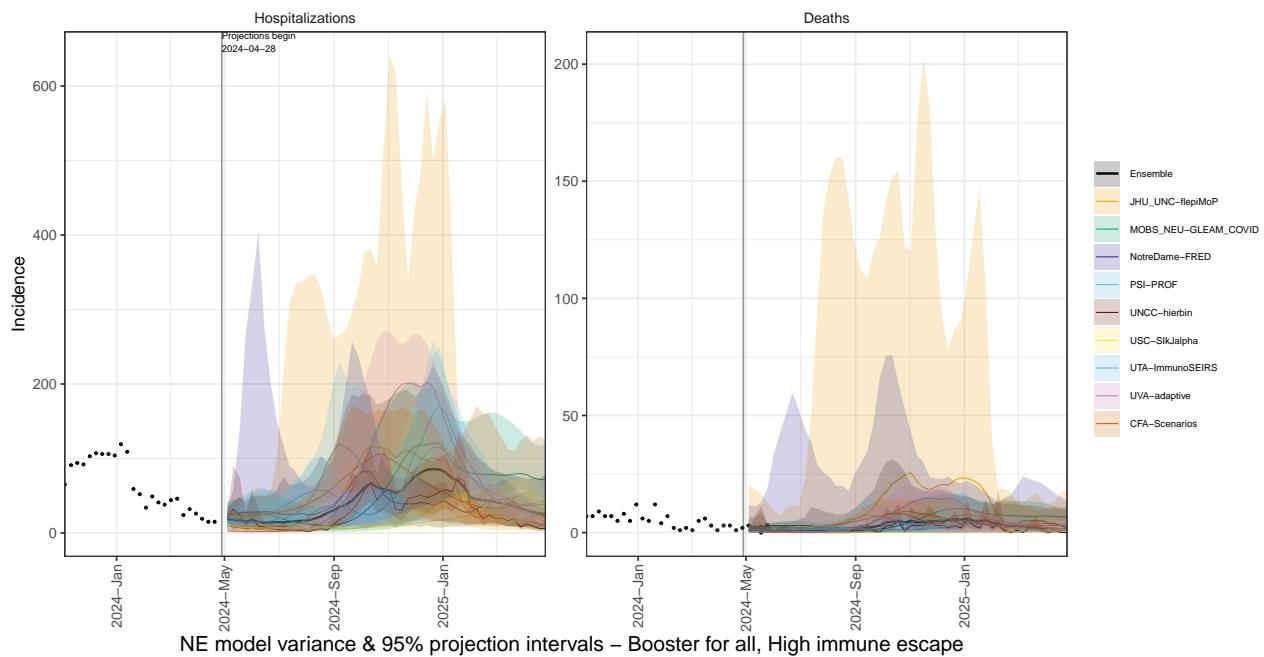
MS model variance & 95% projection intervals – Booster for all, High immune escape



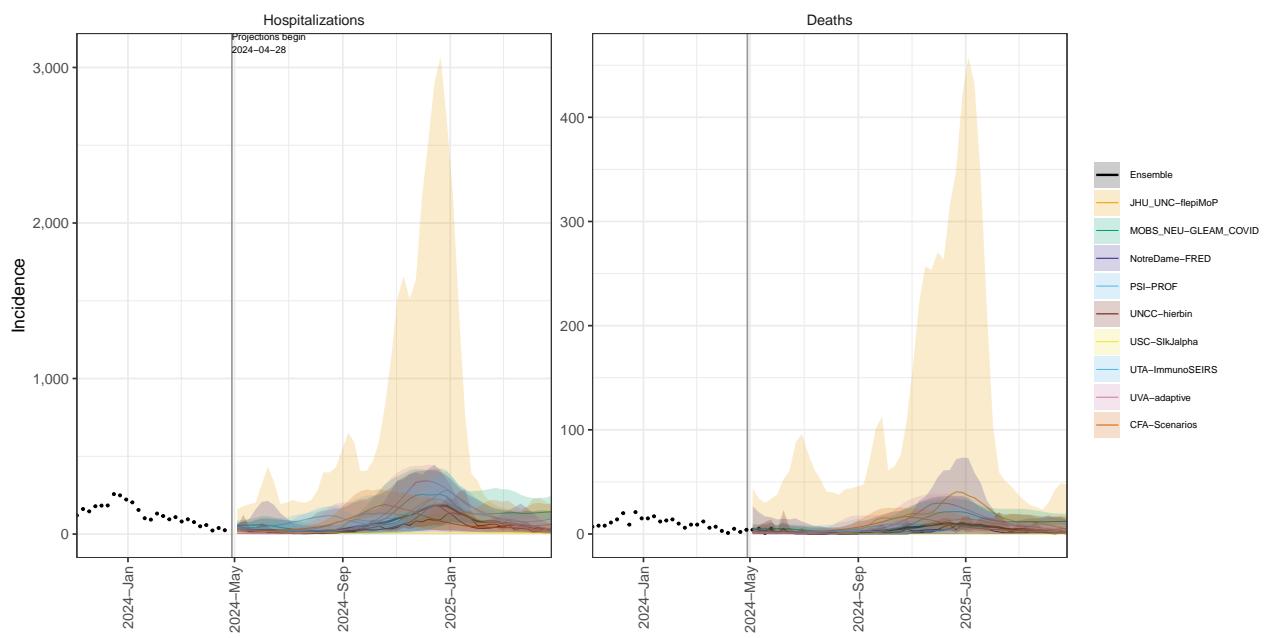
MO model variance & 95% projection intervals – Booster for all, High immune escape



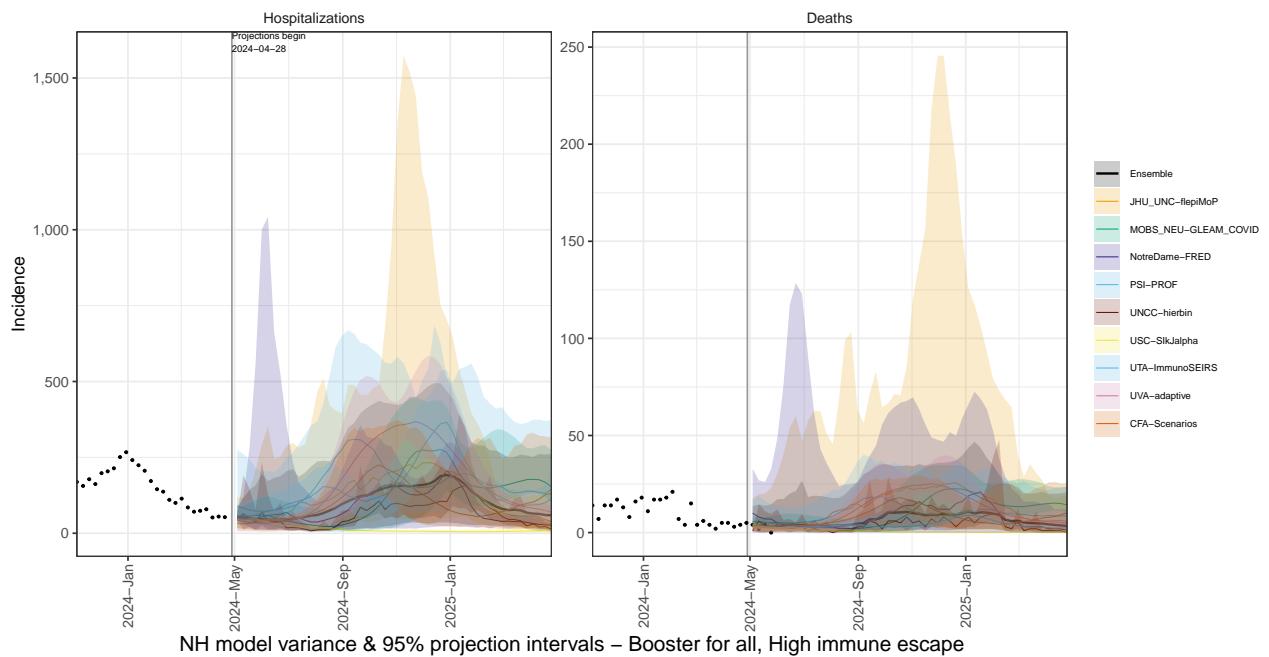
MT model variance & 95% projection intervals – Booster for all, High immune escape



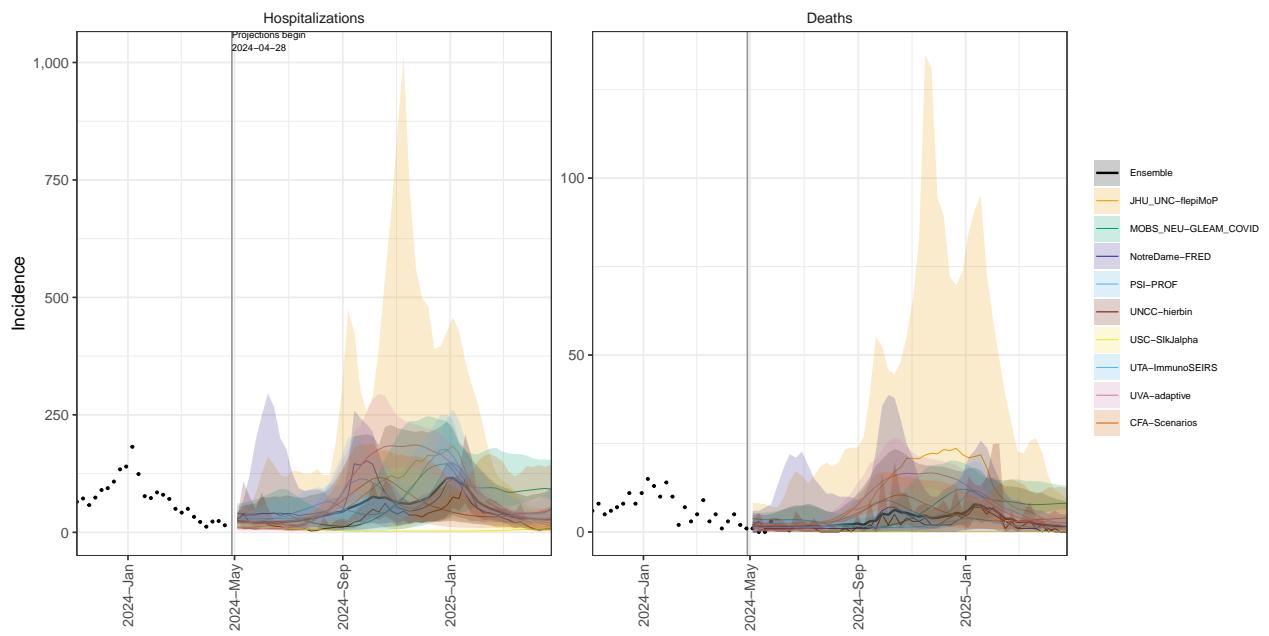
NE model variance & 95% projection intervals – Booster for all, High immune escape



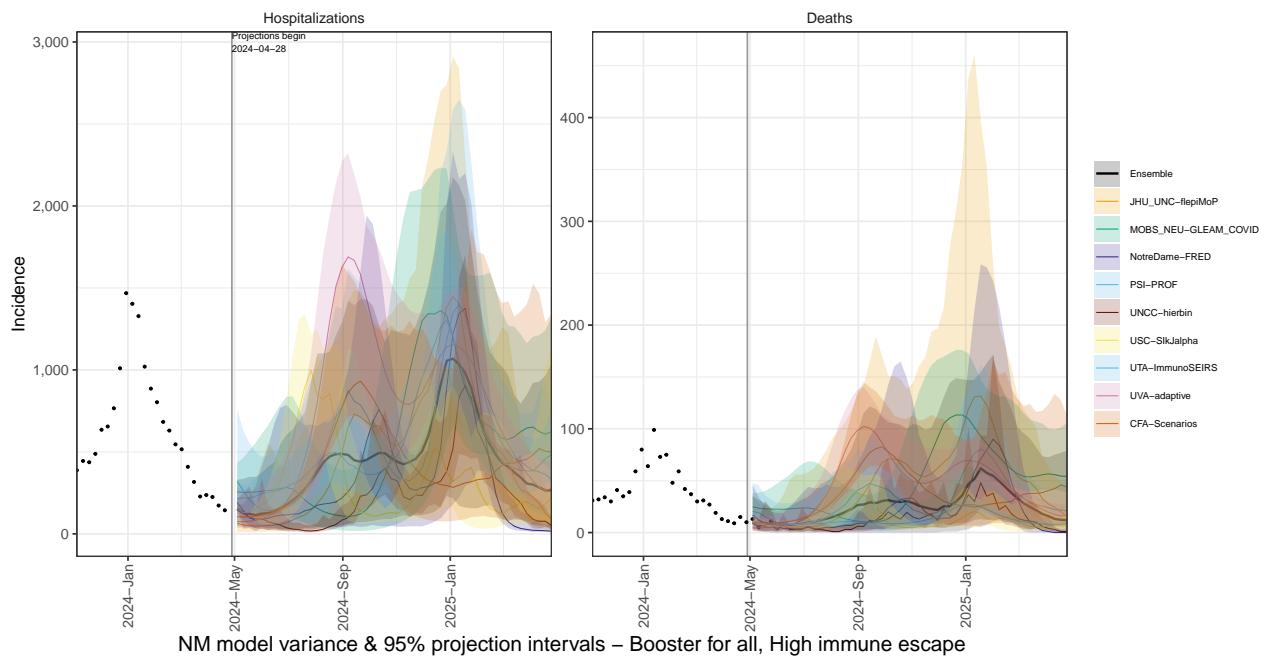
NV model variance & 95% projection intervals – Booster for all, High immune escape



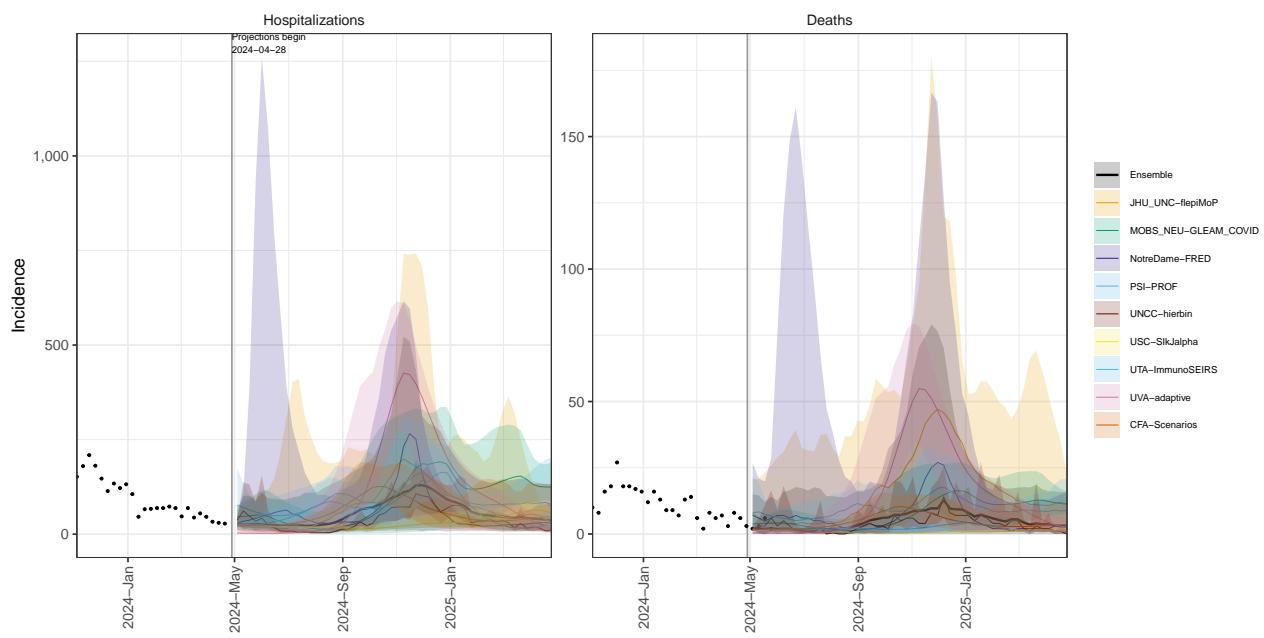
NH model variance & 95% projection intervals – Booster for all, High immune escape



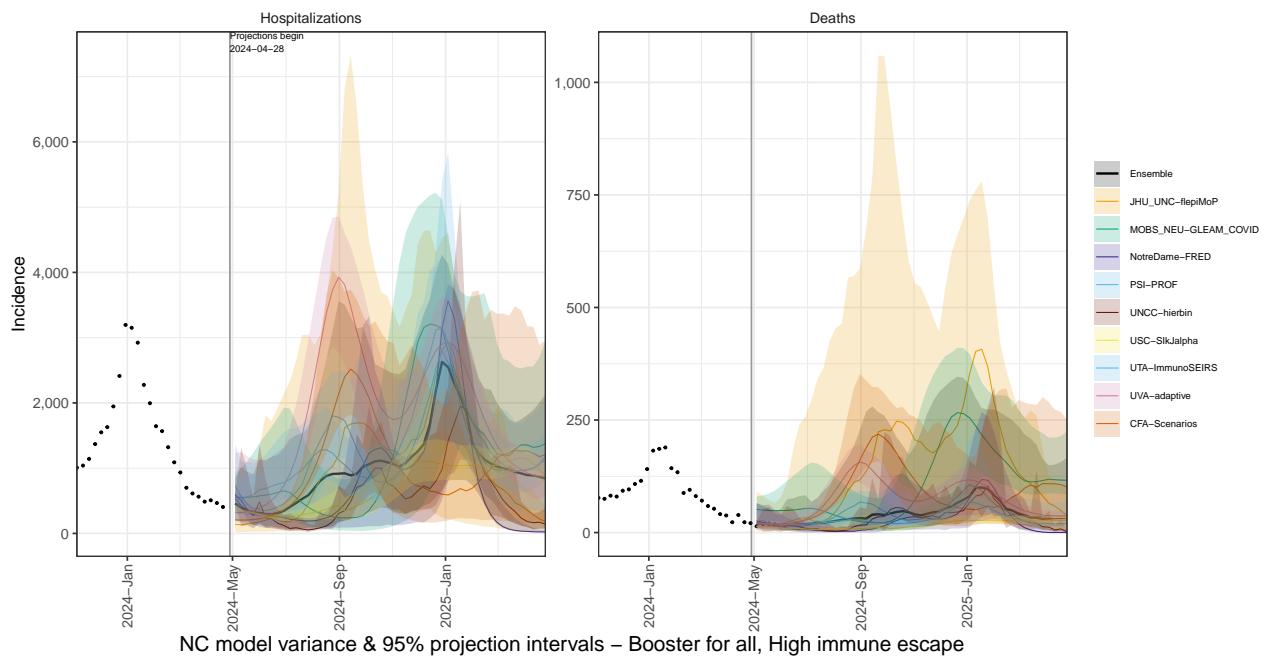
NJ model variance & 95% projection intervals – Booster for all, High immune escape



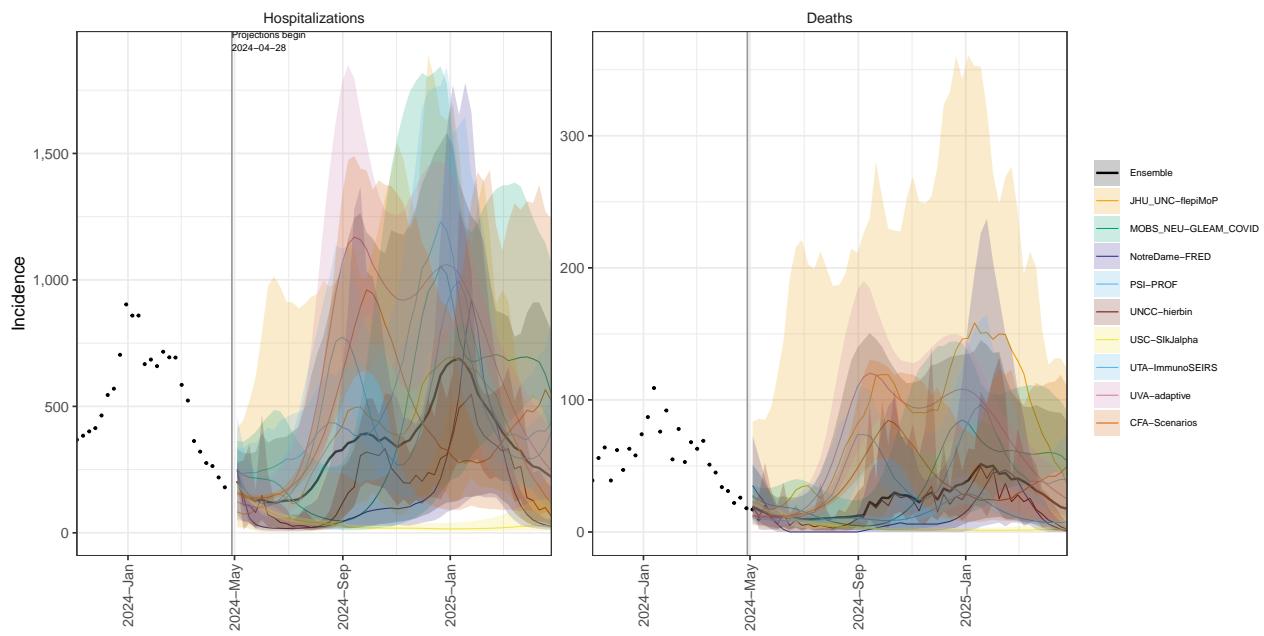
NM model variance & 95% projection intervals – Booster for all, High immune escape



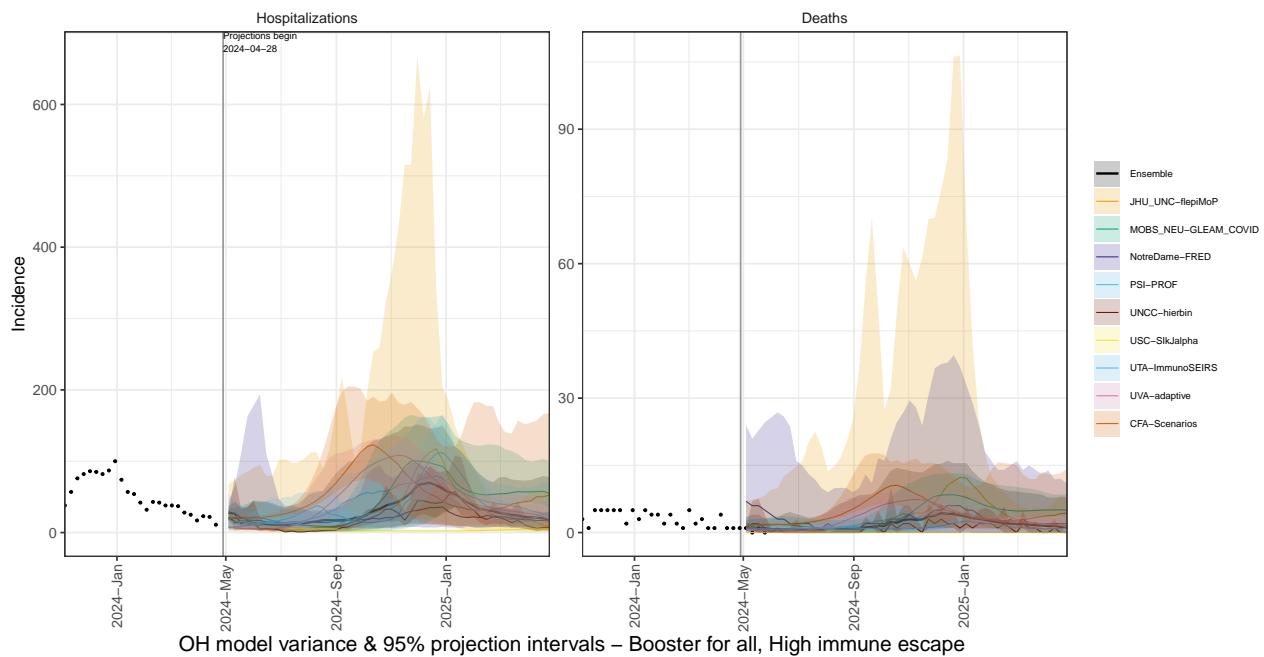
NY model variance & 95% projection intervals – Booster for all, High immune escape



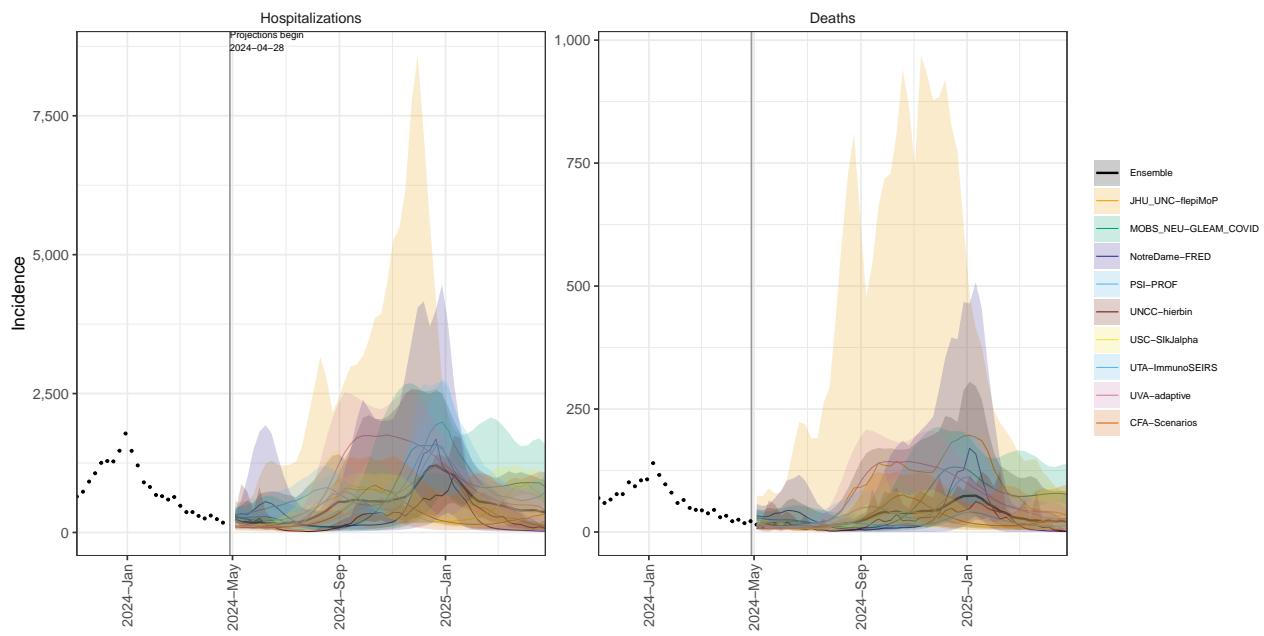
NC model variance & 95% projection intervals – Booster for all, High immune escape



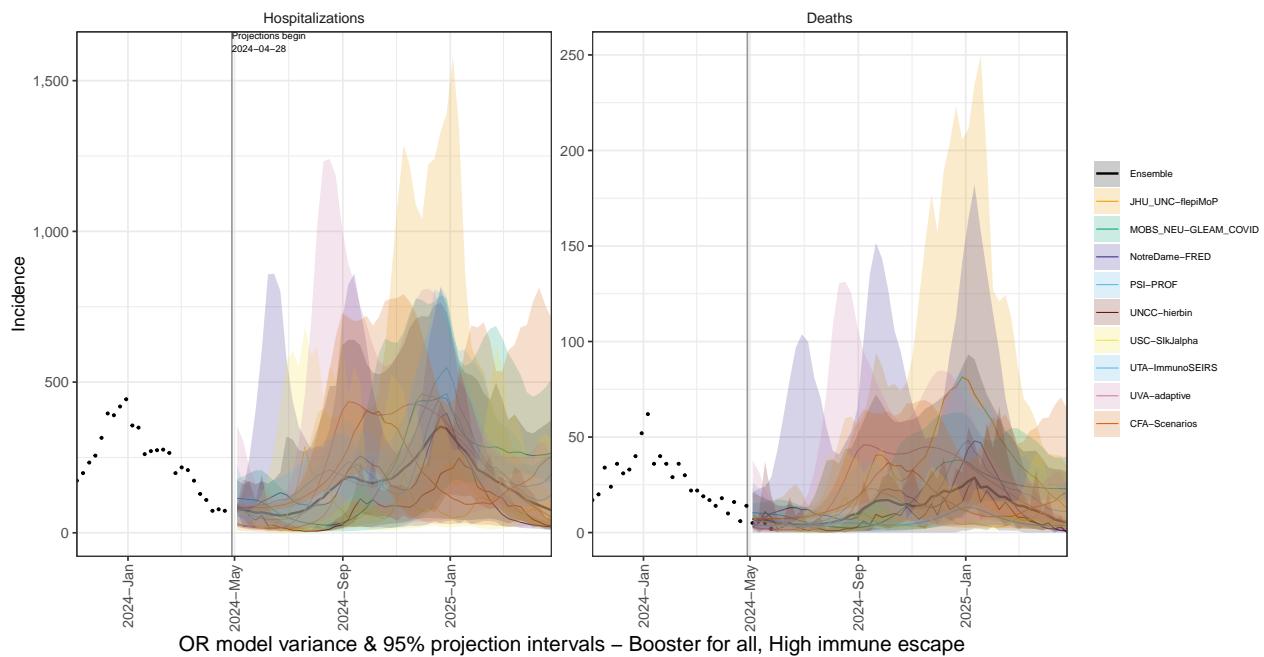
ND model variance & 95% projection intervals – Booster for all, High immune escape



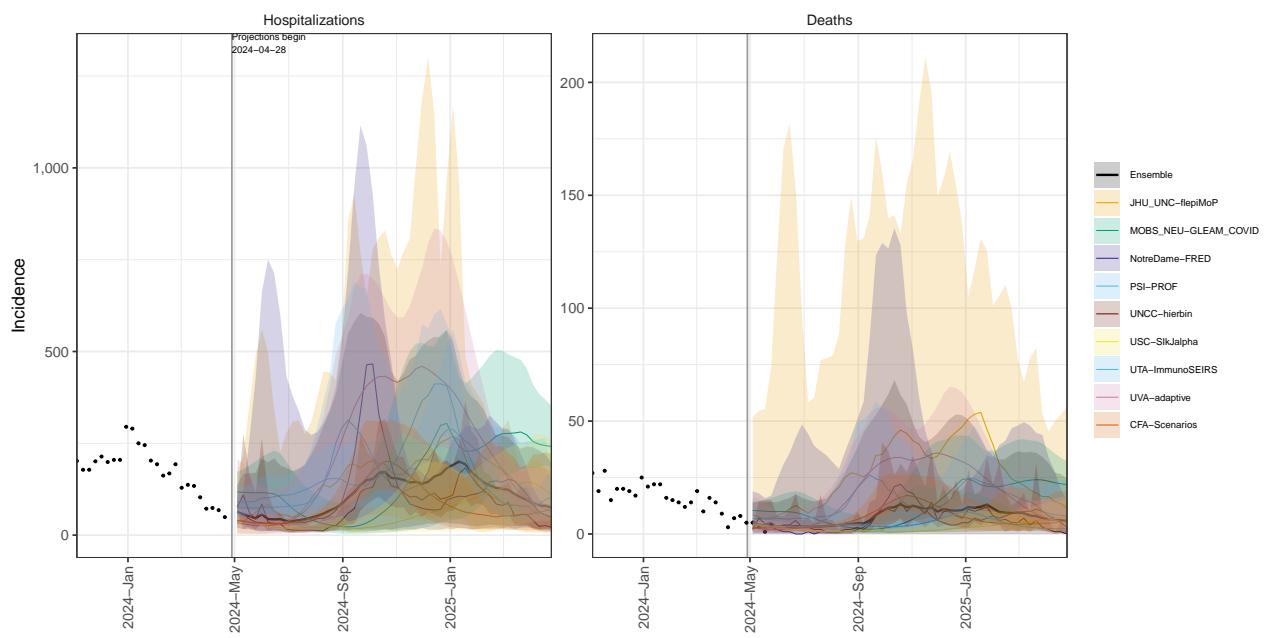
OH model variance & 95% projection intervals – Booster for all, High immune escape



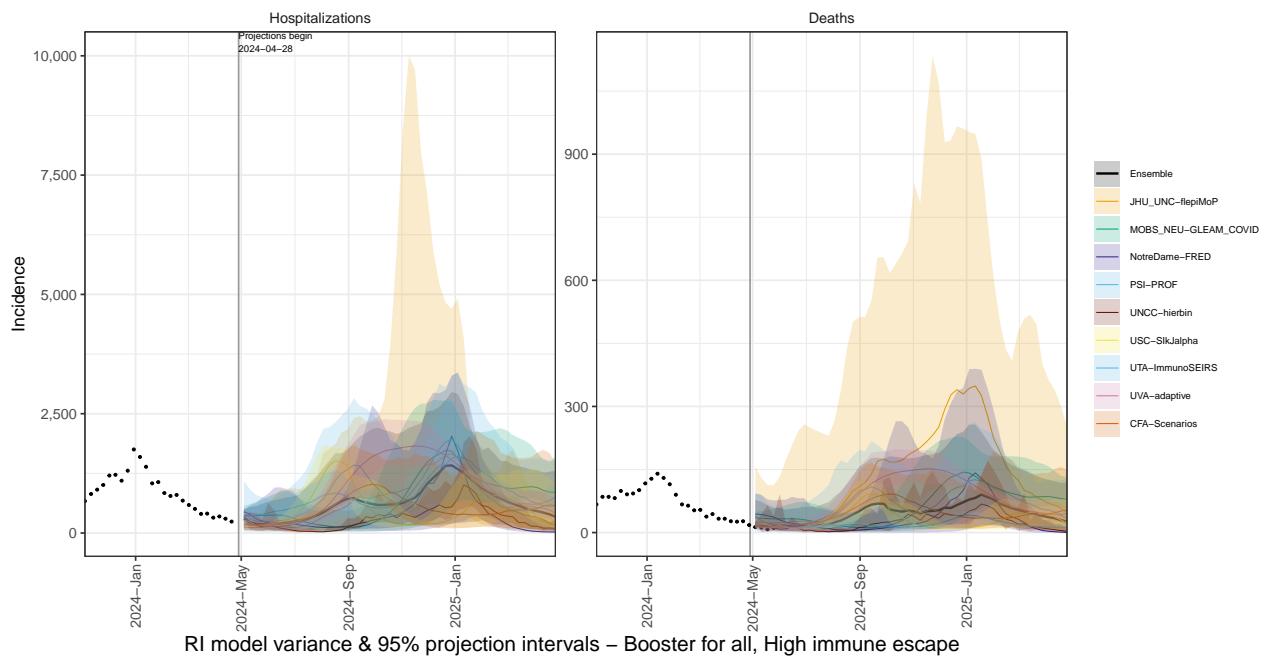
OK model variance & 95% projection intervals – Booster for all, High immune escape



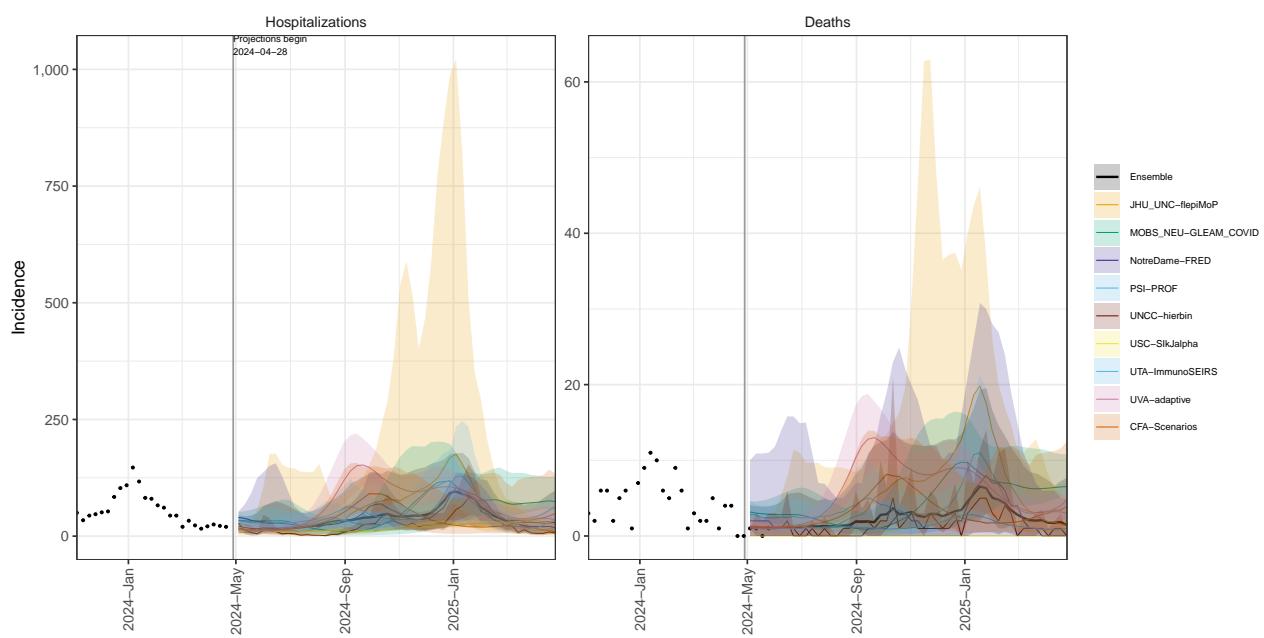
OR model variance & 95% projection intervals – Booster for all, High immune escape



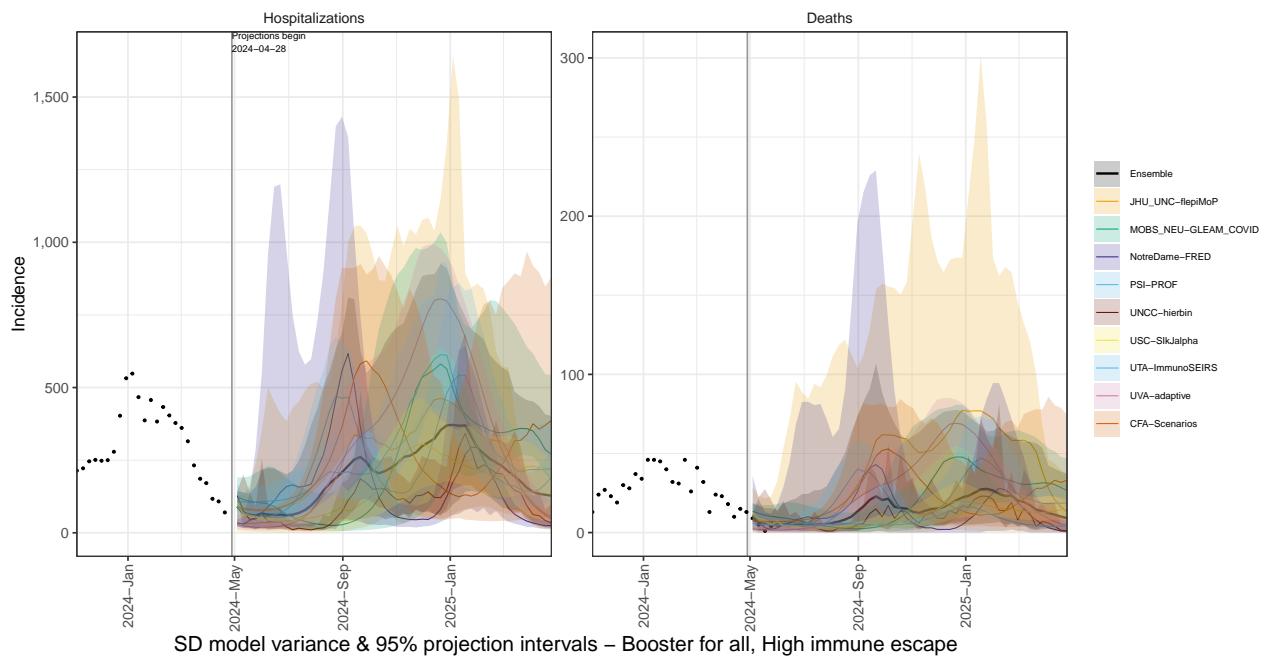
PA model variance & 95% projection intervals – Booster for all, High immune escape



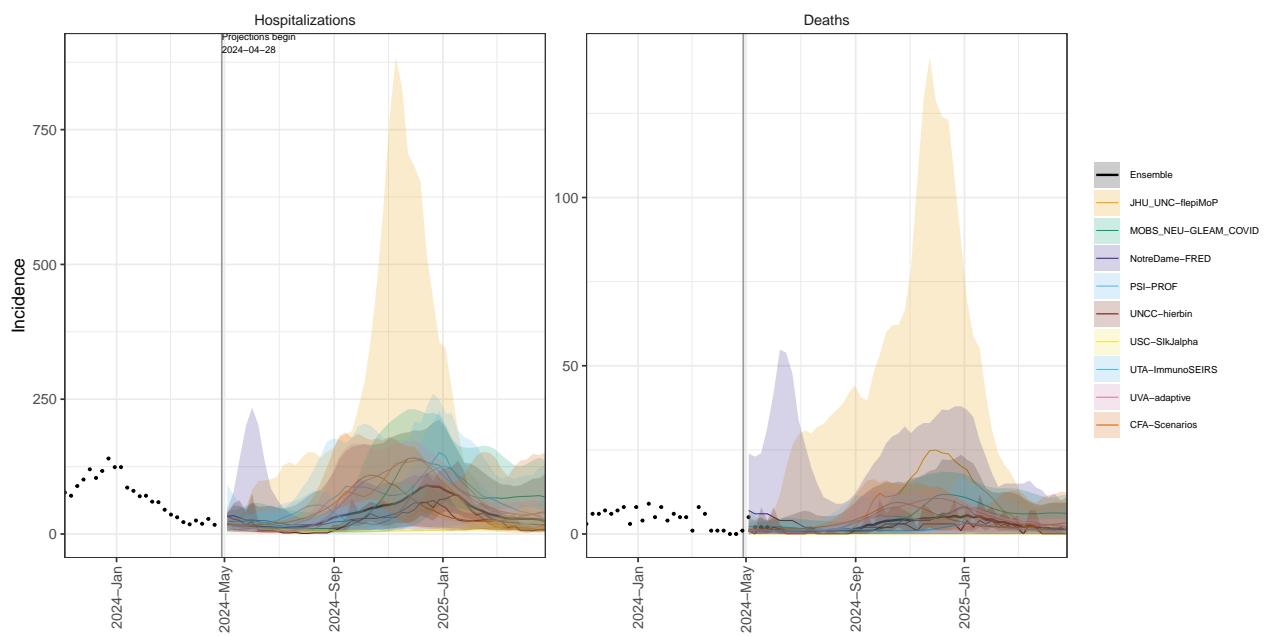
RI model variance & 95% projection intervals – Booster for all, High immune escape



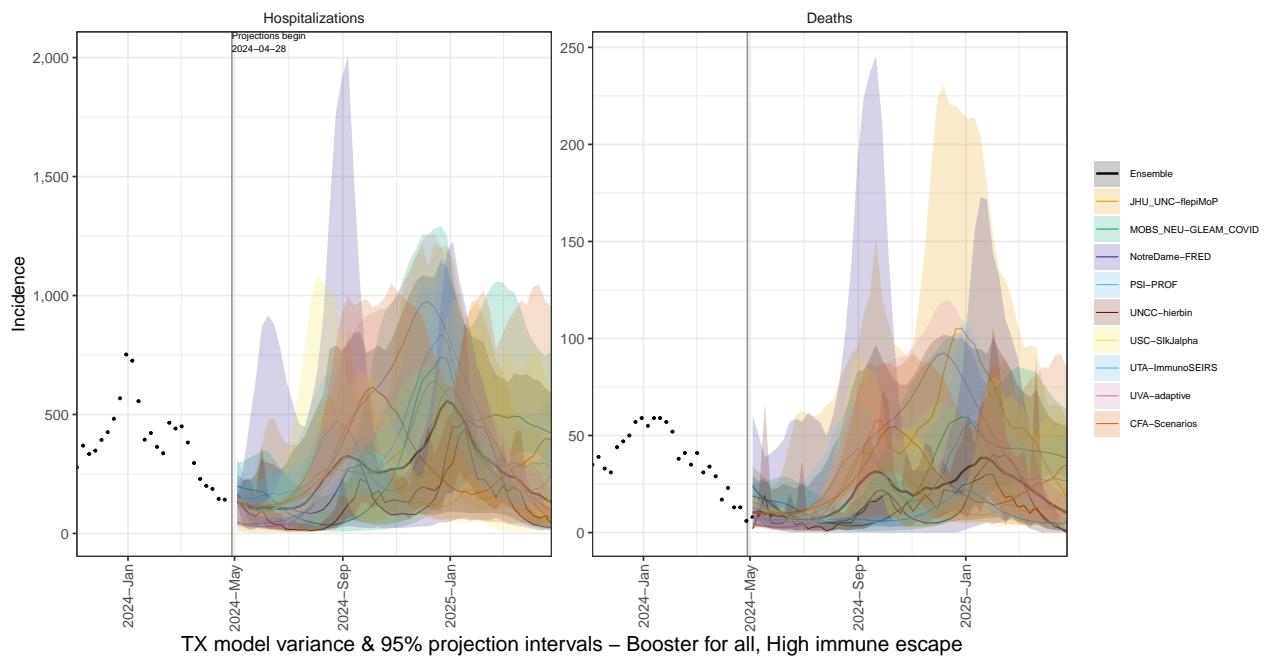
SC model variance & 95% projection intervals – Booster for all, High immune escape



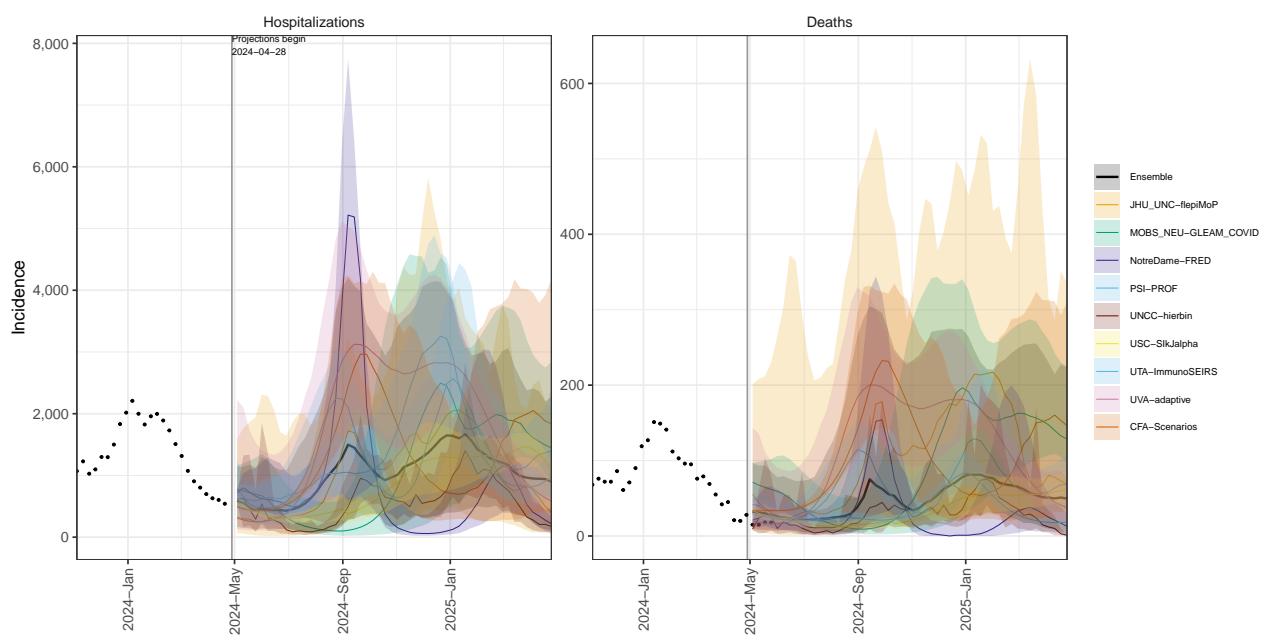
SD model variance & 95% projection intervals – Booster for all, High immune escape



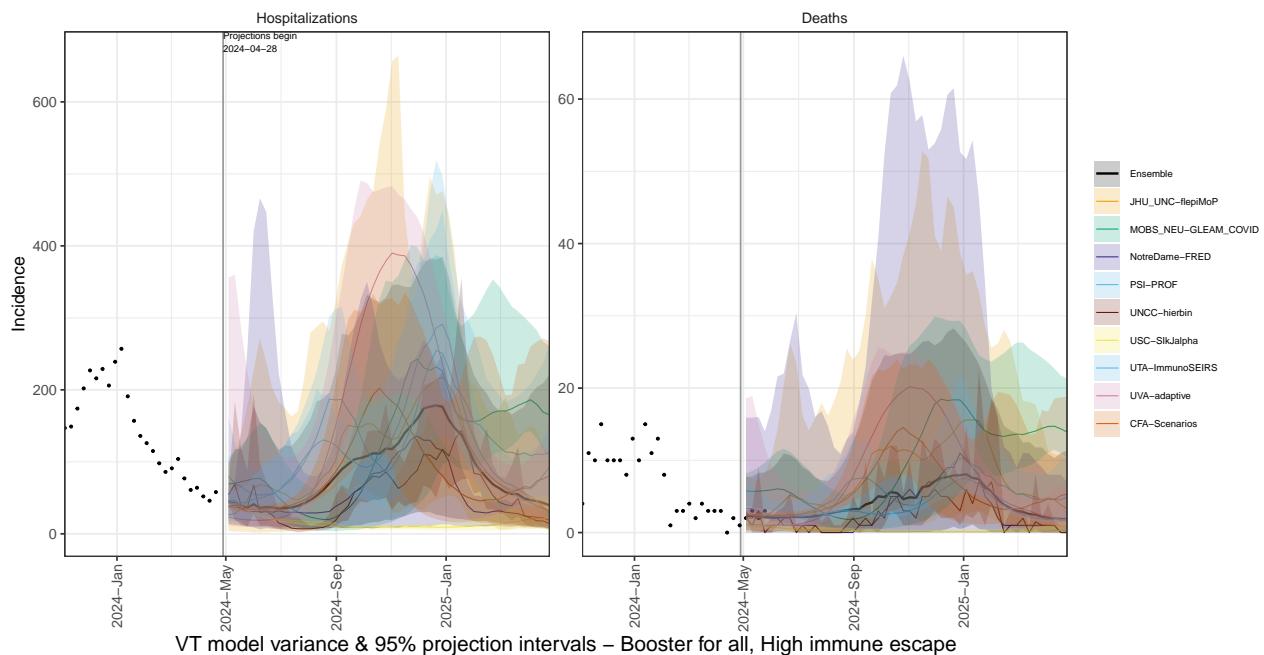
TN model variance & 95% projection intervals – Booster for all, High immune escape



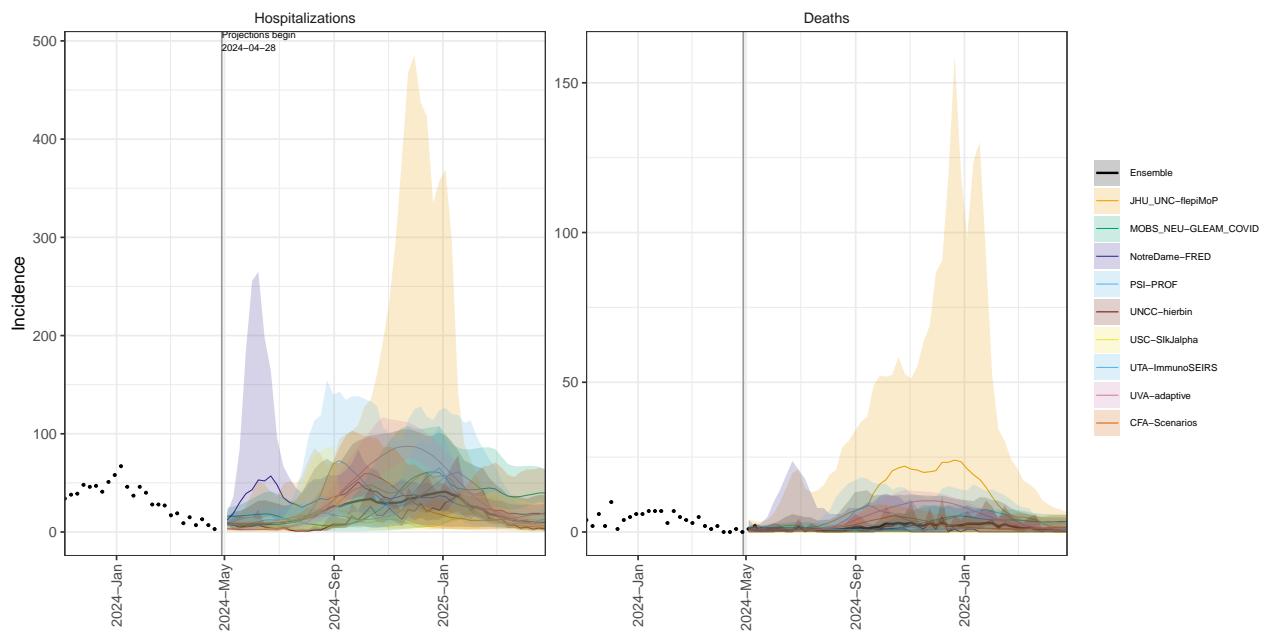
TX model variance & 95% projection intervals – Booster for all, High immune escape



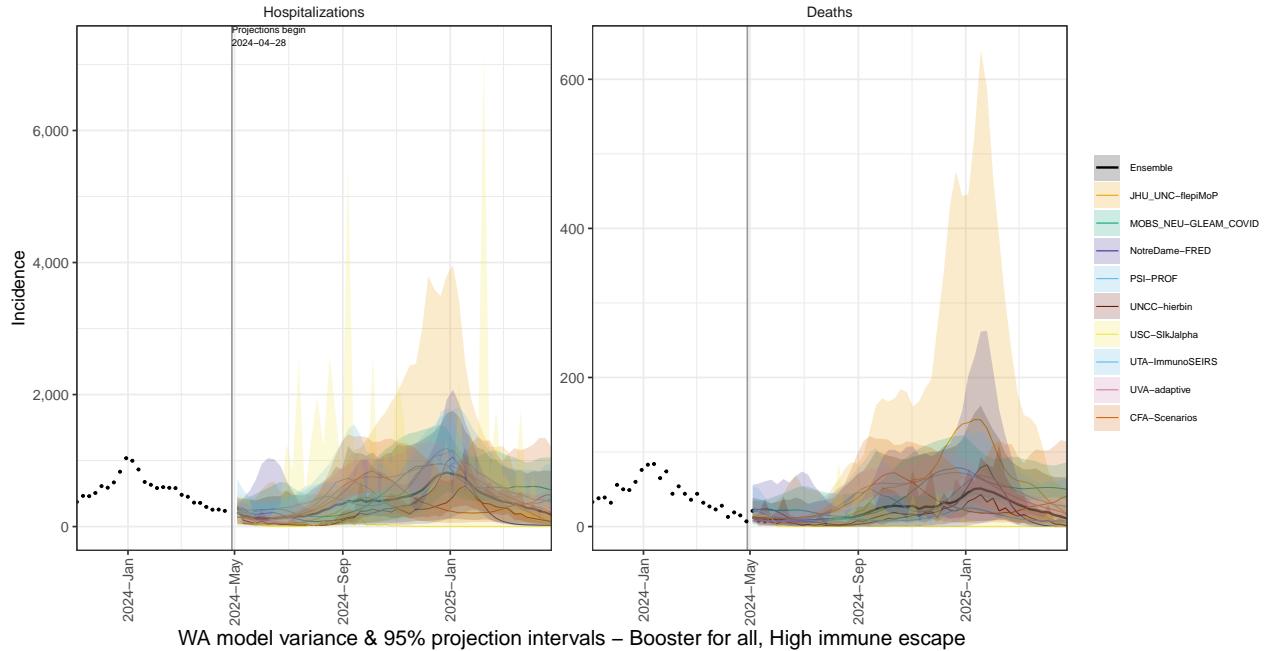
UT model variance & 95% projection intervals – Booster for all, High immune escape



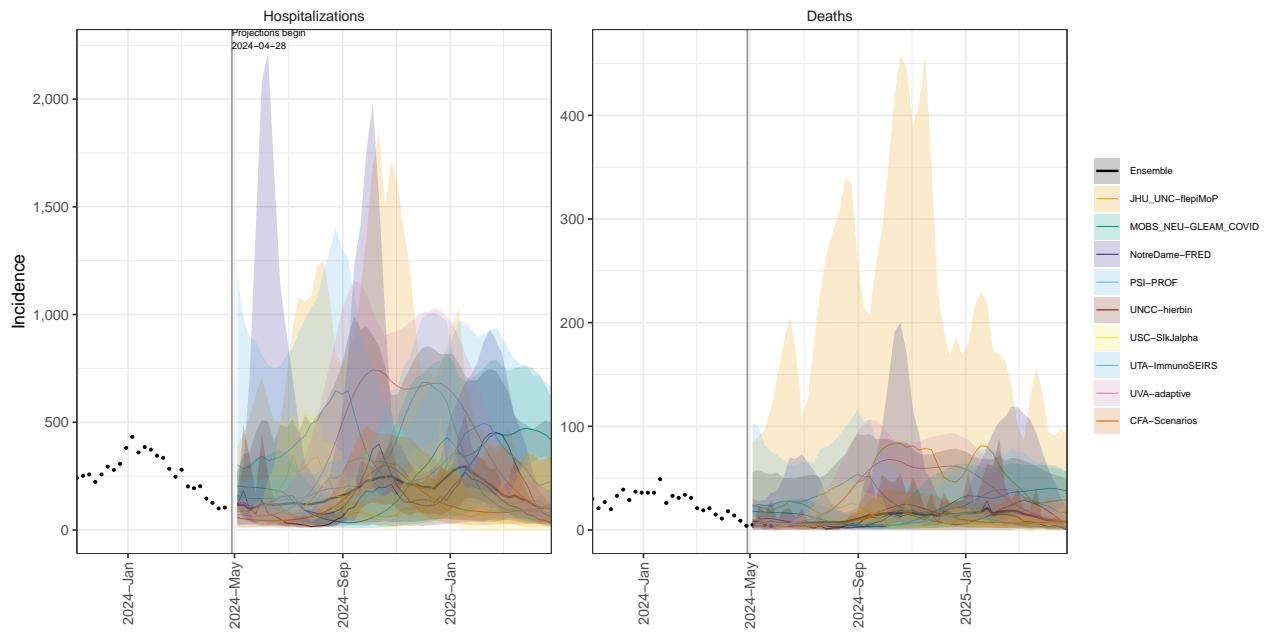
VT model variance & 95% projection intervals – Booster for all, High immune escape



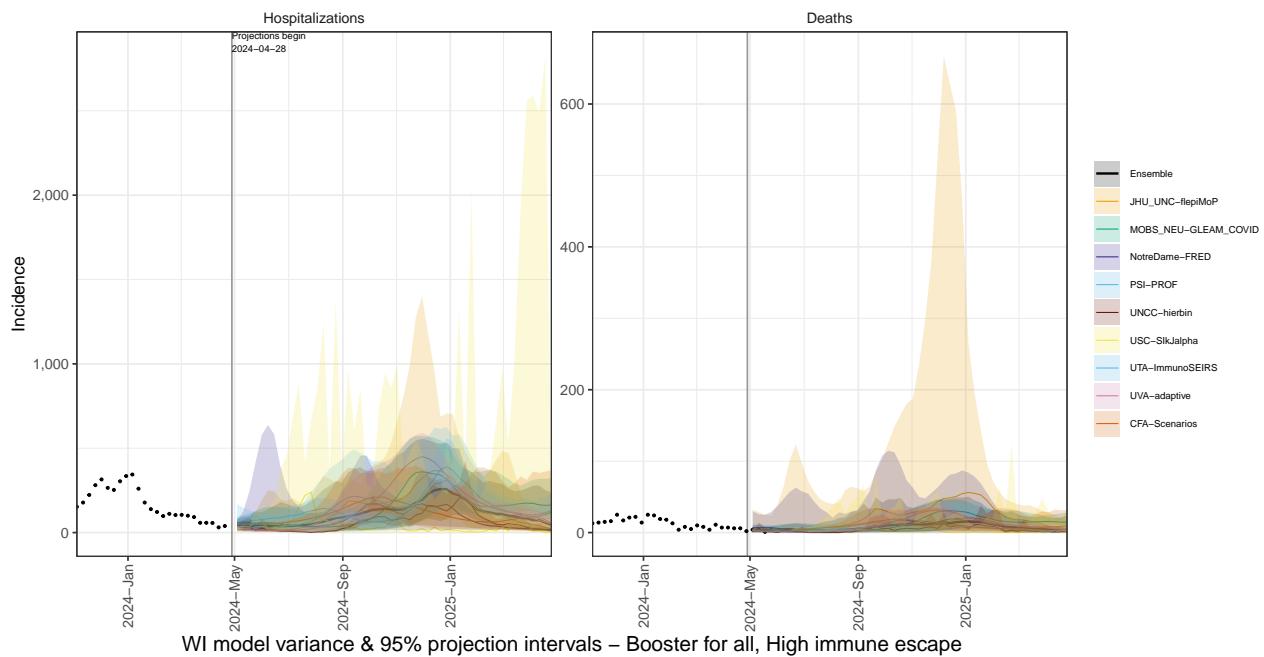
VA model variance & 95% projection intervals – Booster for all, High immune escape



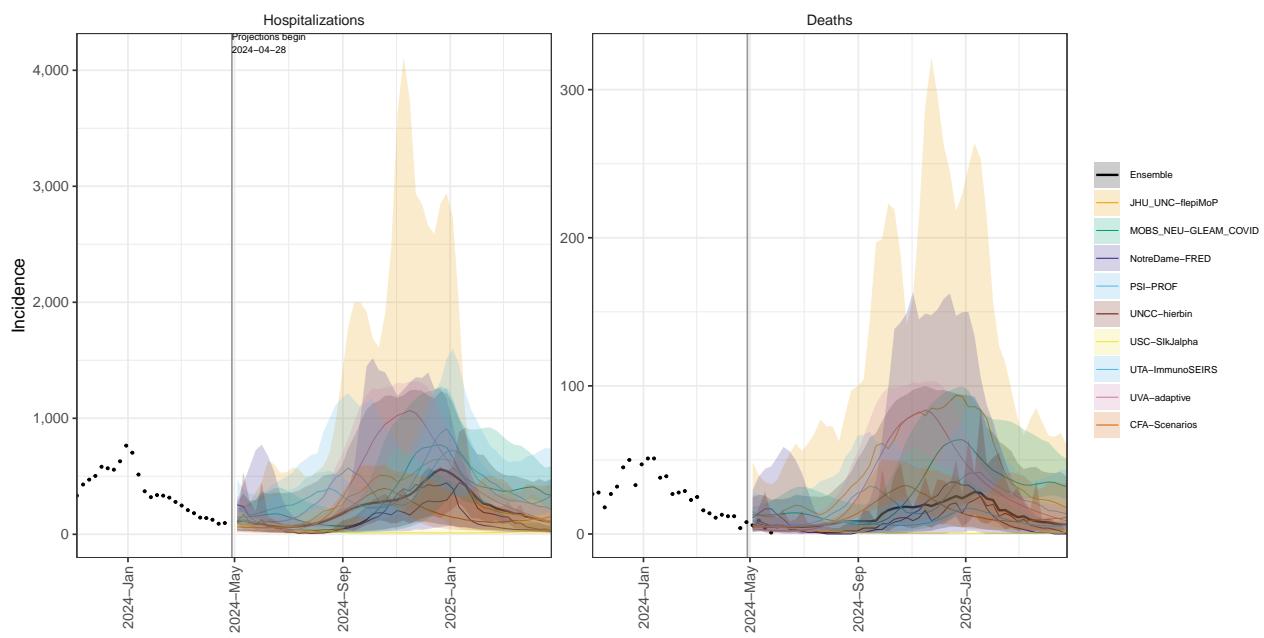
WA model variance & 95% projection intervals – Booster for all, High immune escape



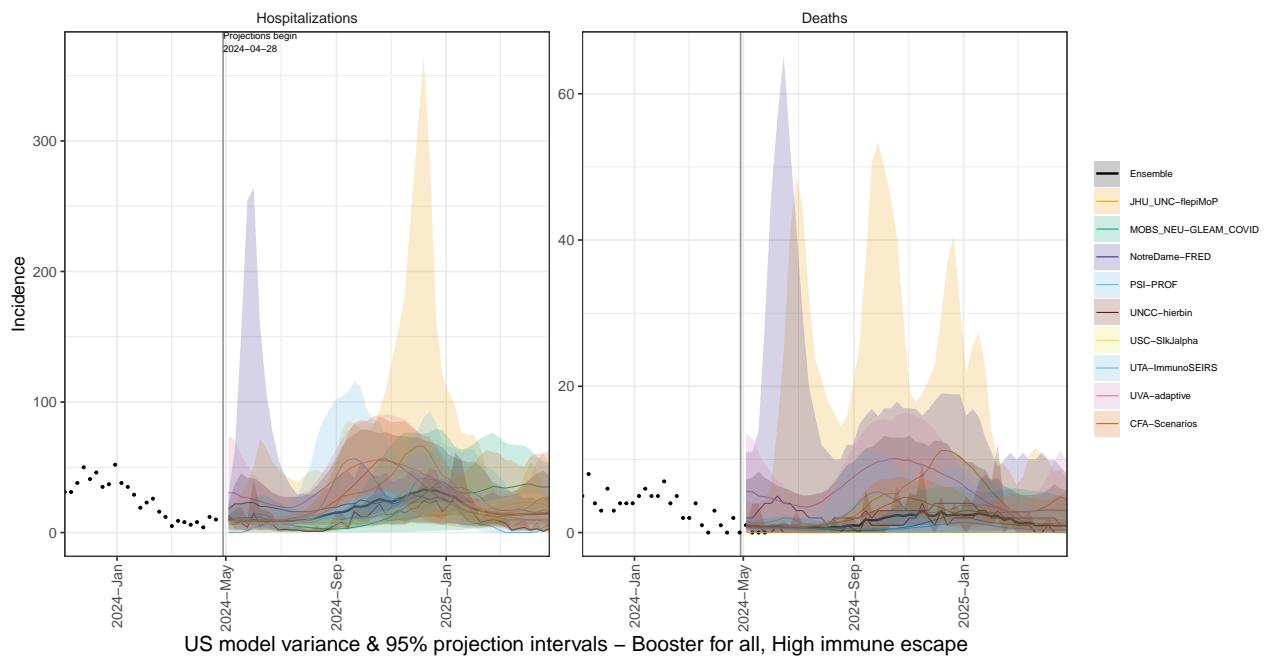
WV model variance & 95% projection intervals – Booster for all, High immune escape



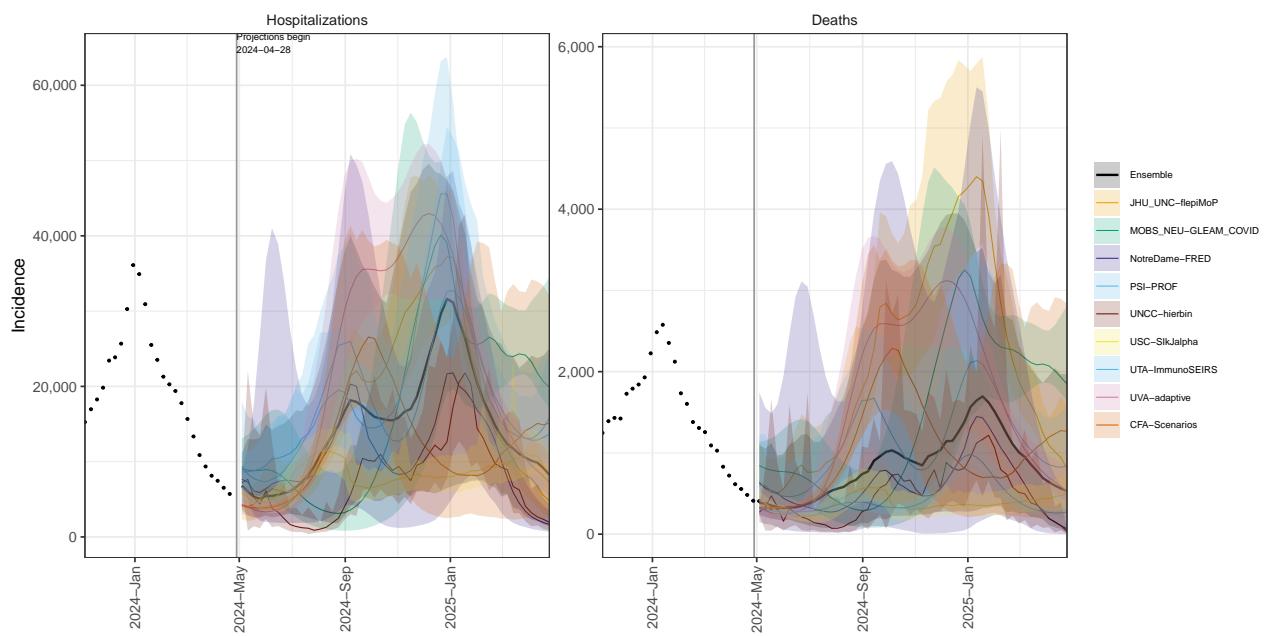
WI model variance & 95% projection intervals – Booster for all, High immune escape



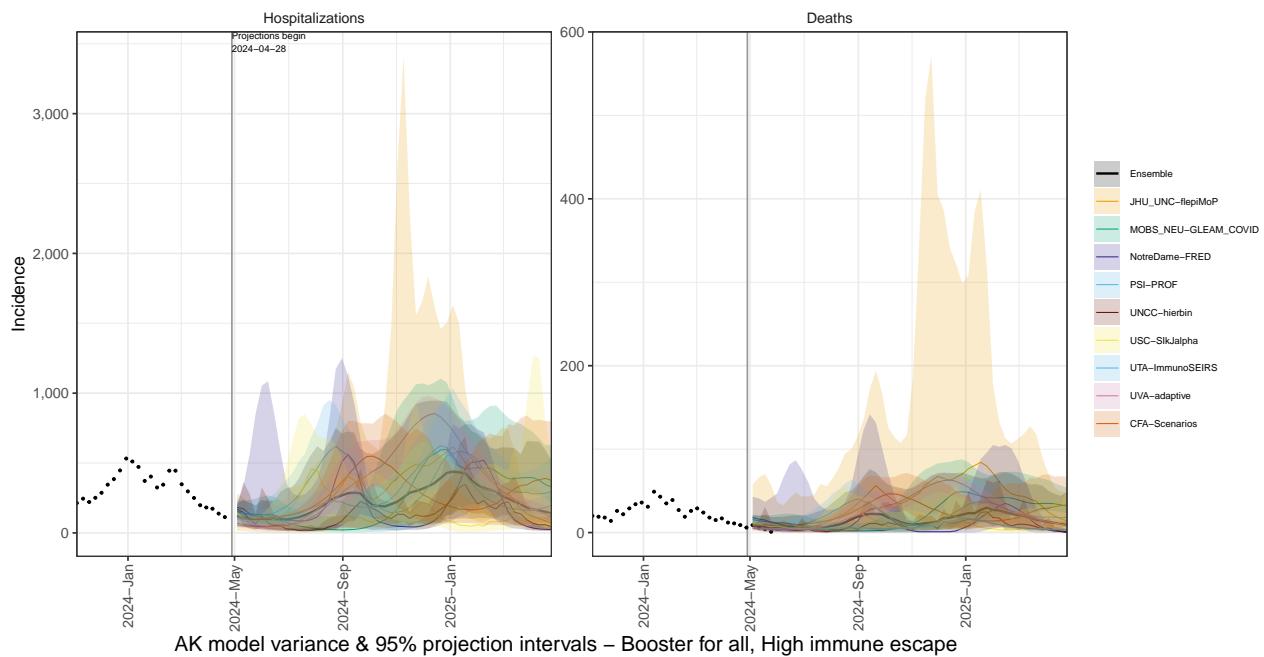
WY model variance & 95% projection intervals – Booster for all, High immune escape



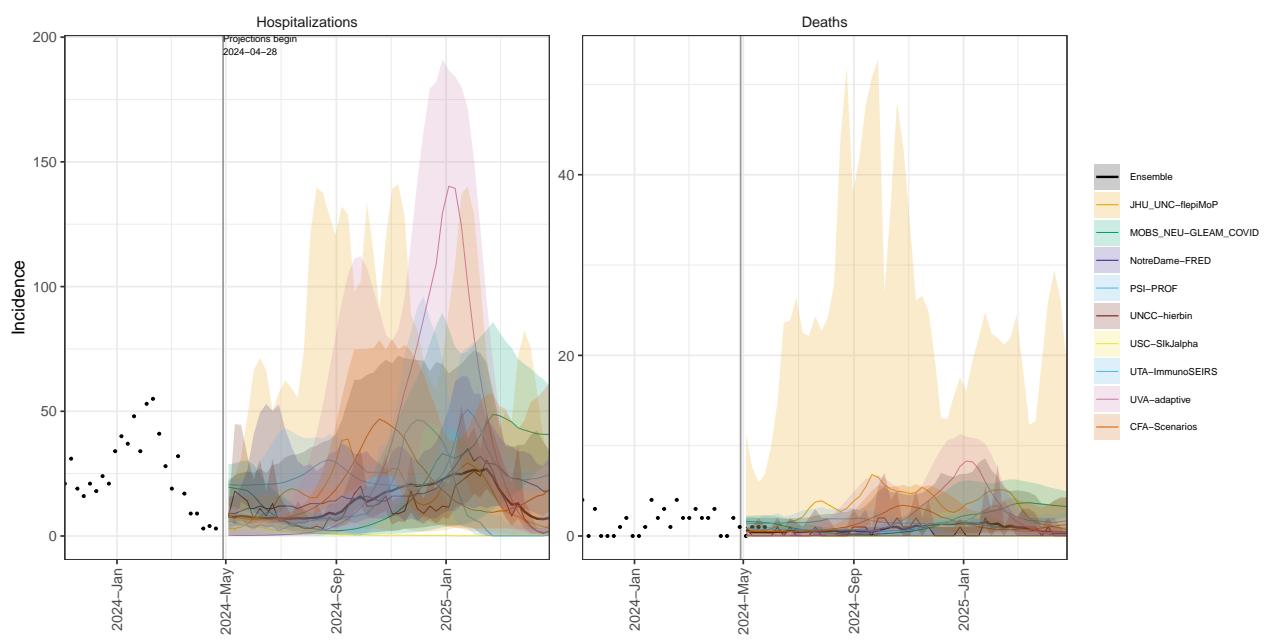
US model variance & 95% projection intervals – Booster for all, High immune escape



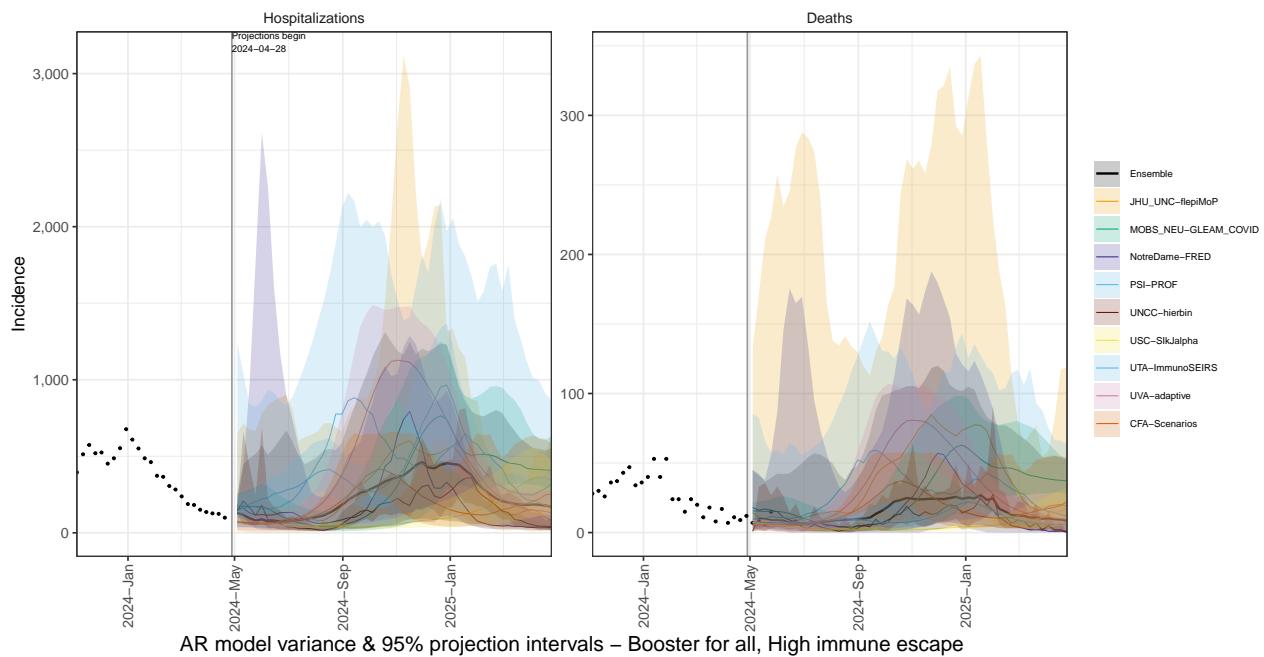
AL model variance & 95% projection intervals – Booster for all, High immune escape



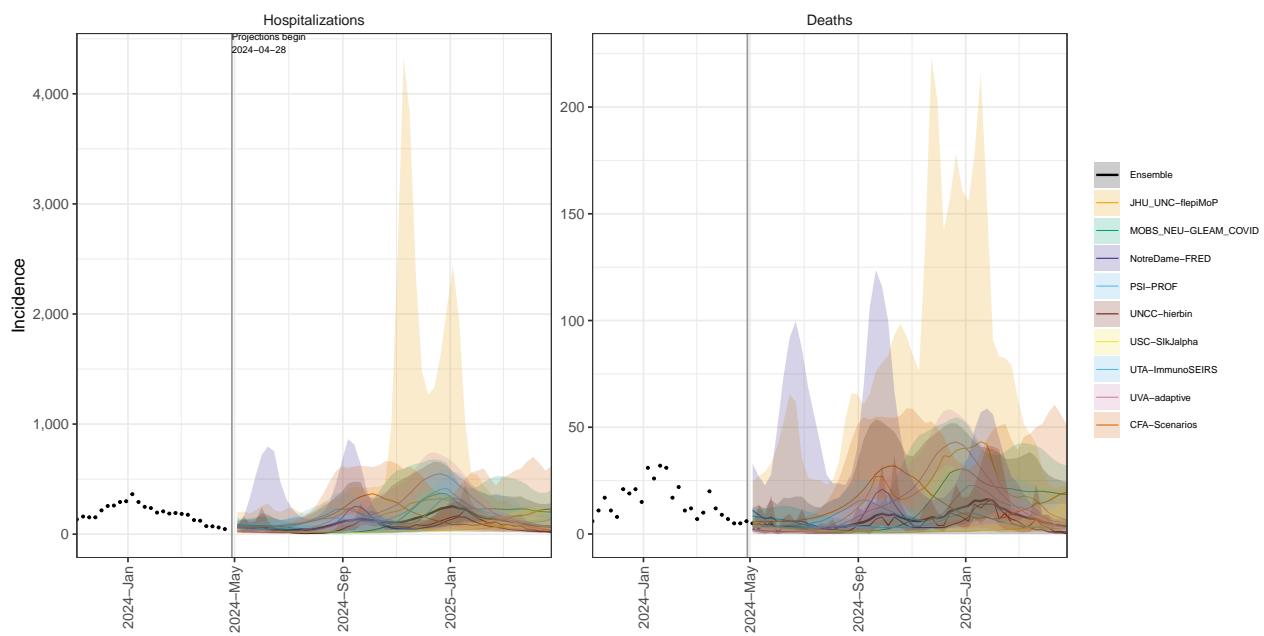
AK model variance & 95% projection intervals – Booster for all, High immune escape



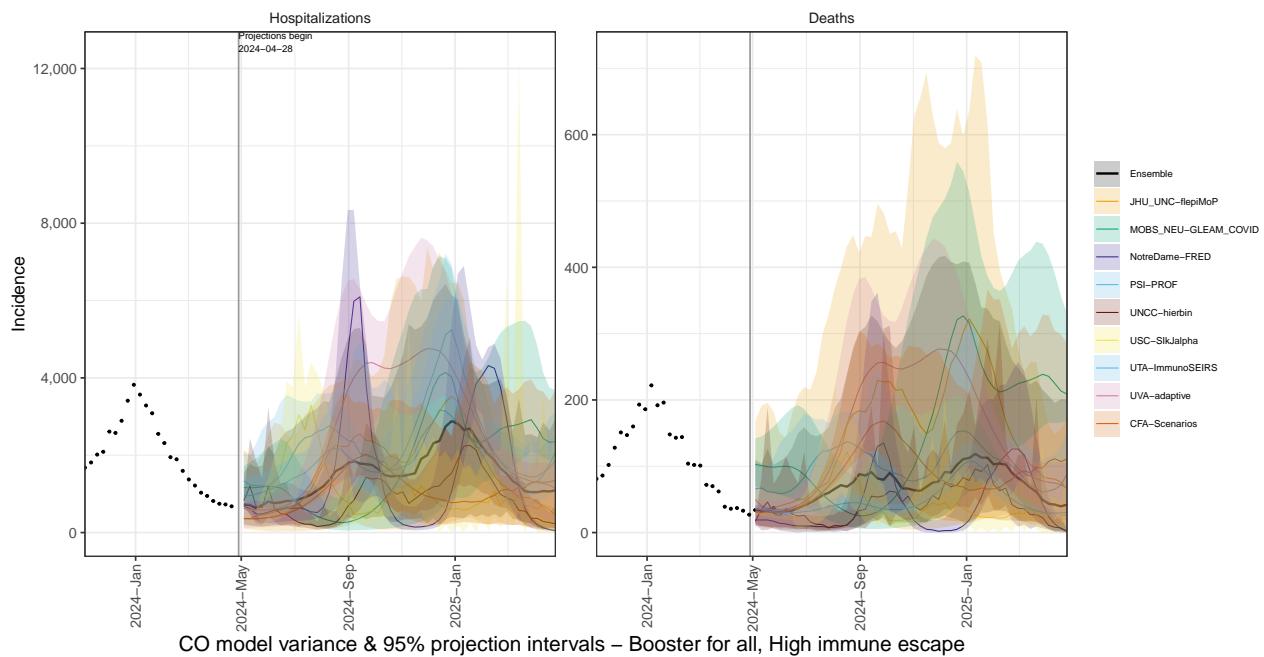
AZ model variance & 95% projection intervals – Booster for all, High immune escape



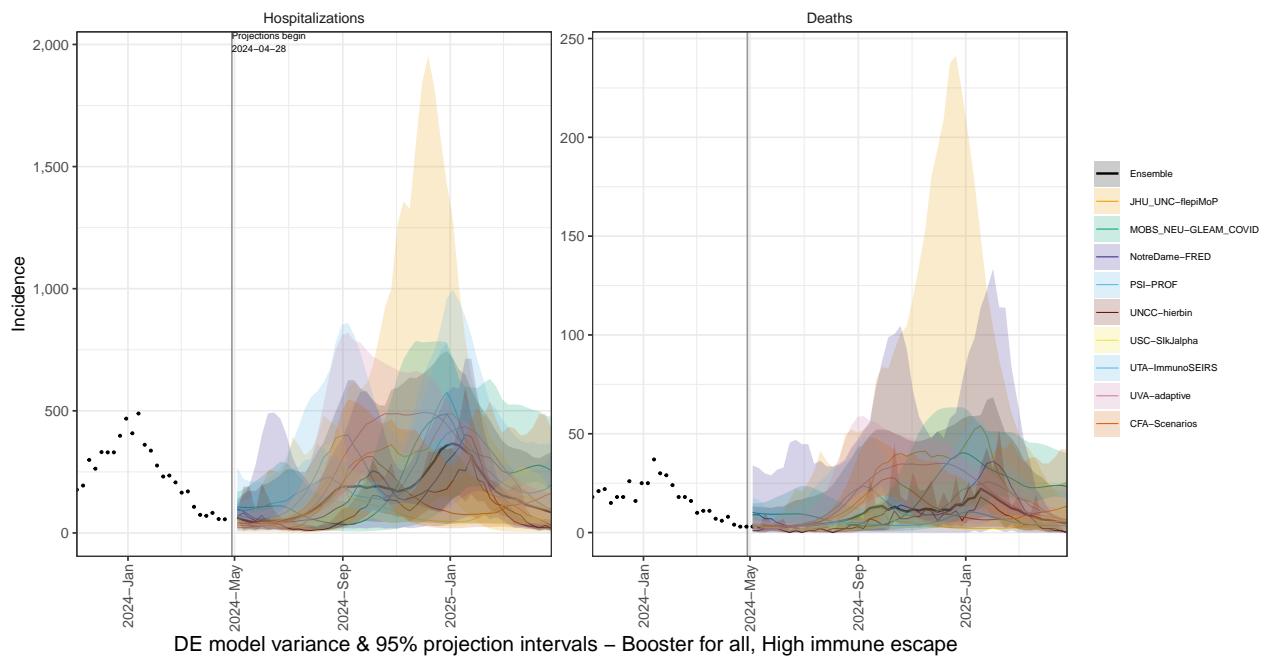
AR model variance & 95% projection intervals – Booster for all, High immune escape



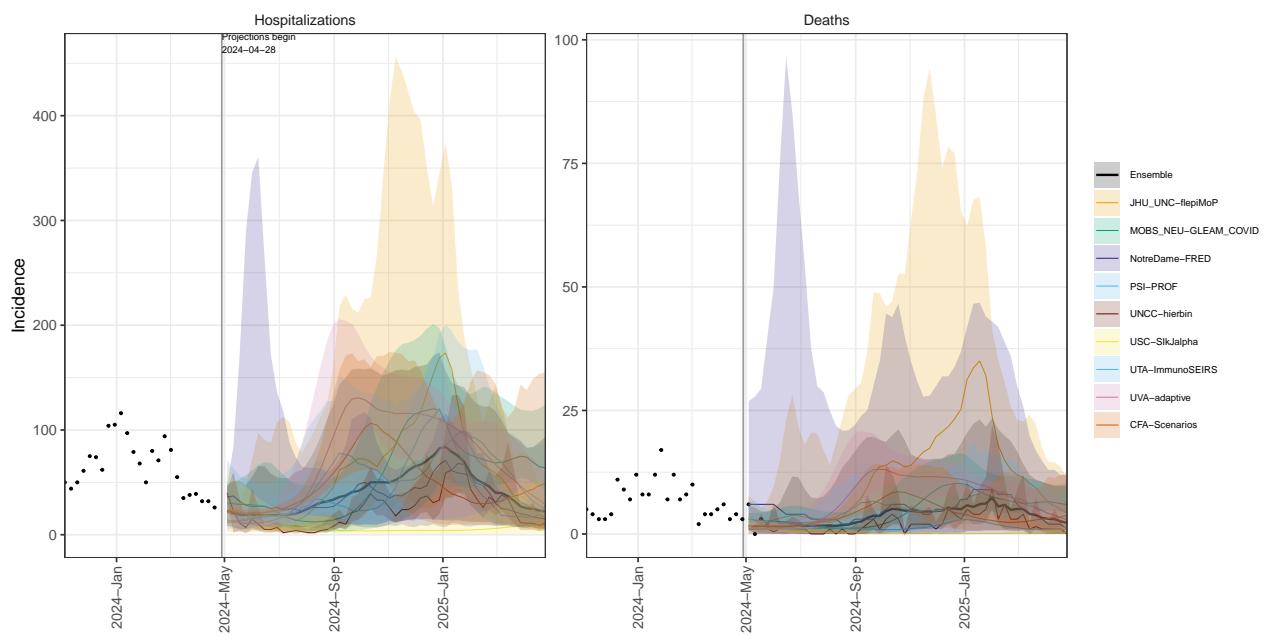
CA model variance & 95% projection intervals – Booster for all, High immune escape



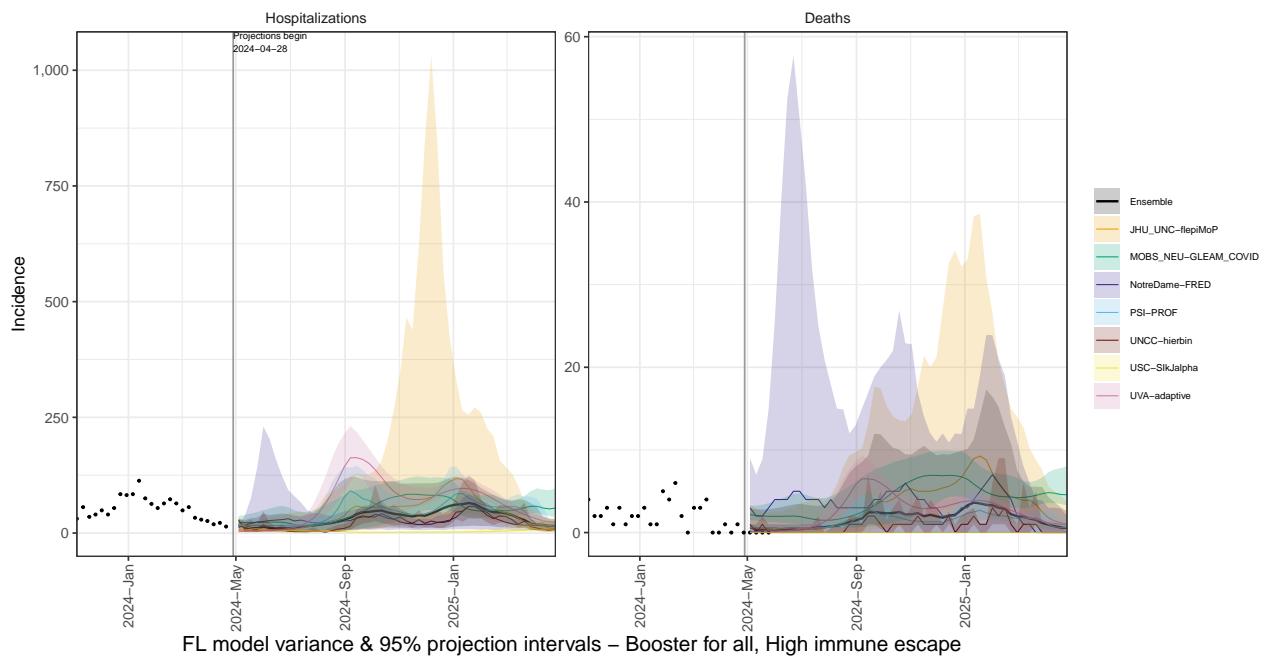
CT model variance & 95% projection intervals – Booster for all, High immune escape



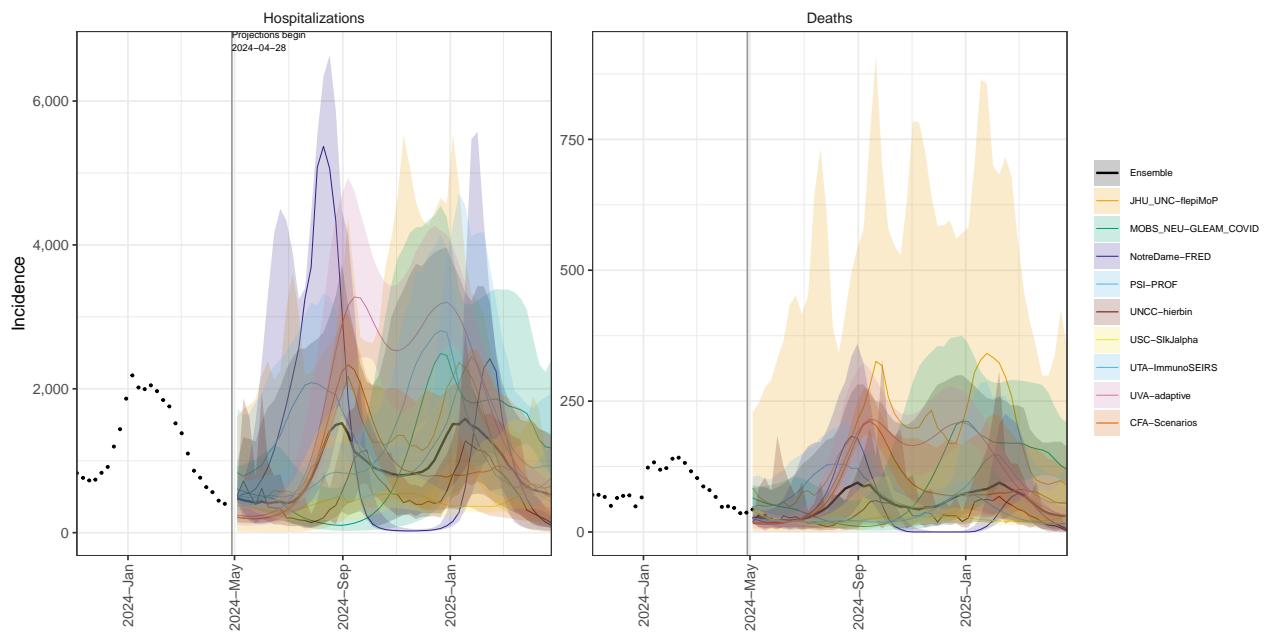
DE model variance & 95% projection intervals – Booster for all, High immune escape



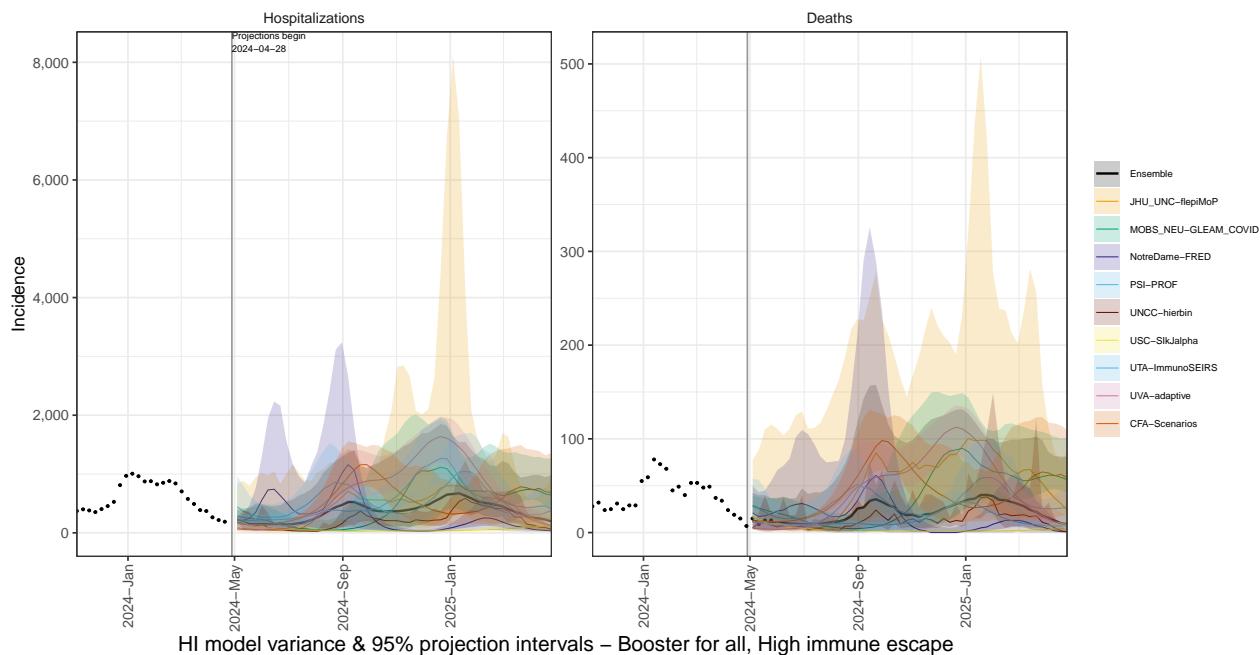
DC model variance & 95% projection intervals – Booster for all, High immune escape



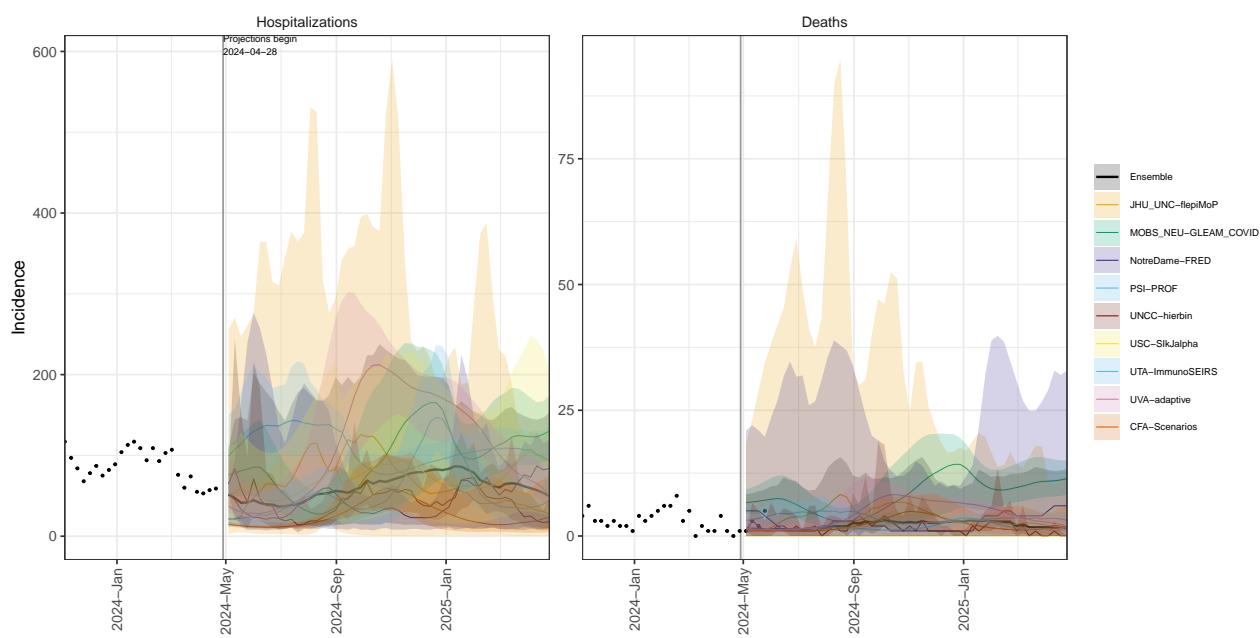
FL model variance & 95% projection intervals – Booster for all, High immune escape



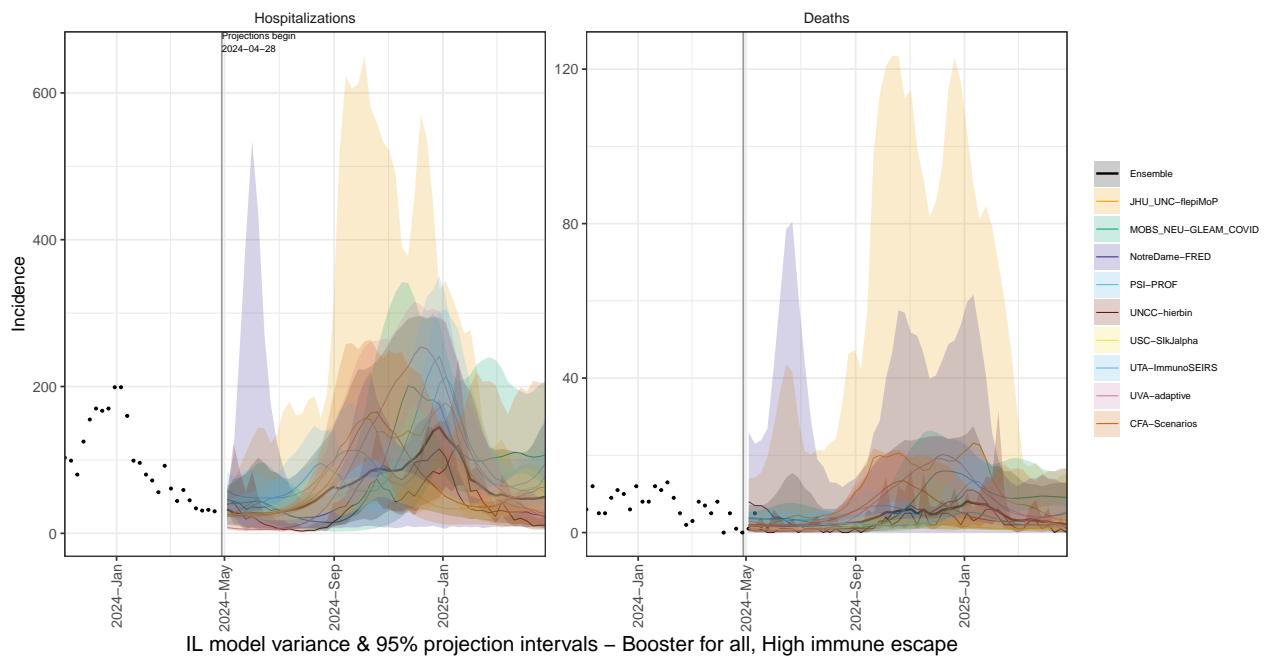
GA model variance & 95% projection intervals – Booster for all, High immune escape



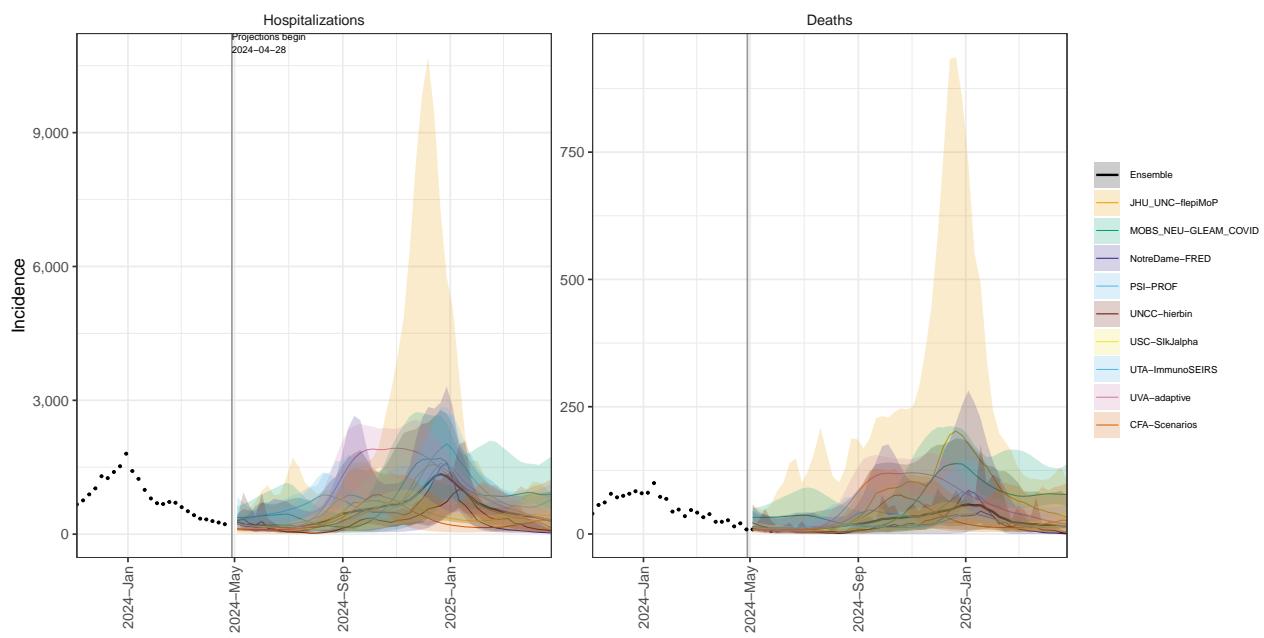
HI model variance & 95% projection intervals – Booster for all, High immune escape



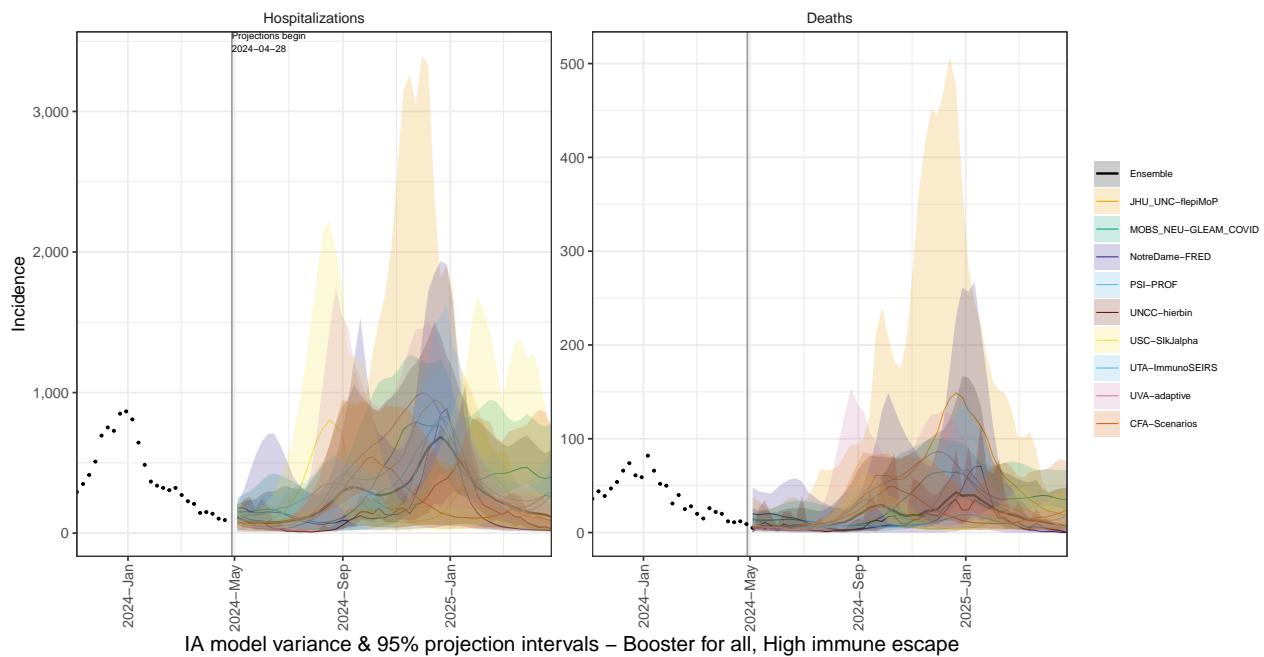
ID model variance & 95% projection intervals – Booster for all, High immune escape



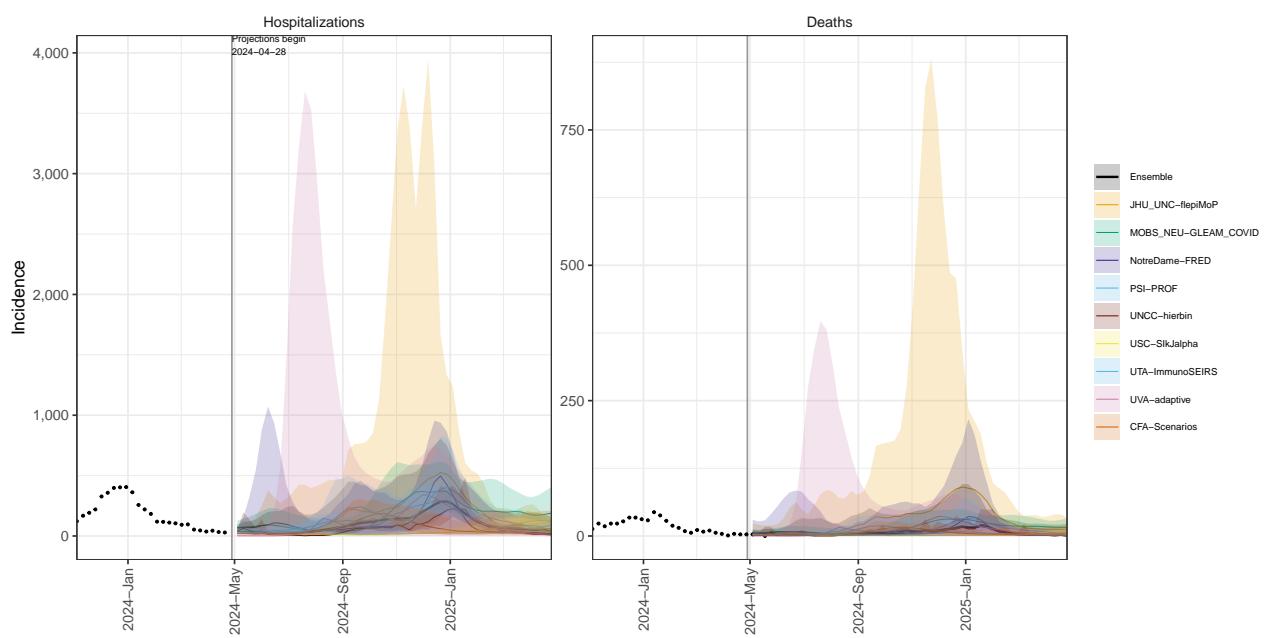
IL model variance & 95% projection intervals – Booster for all, High immune escape



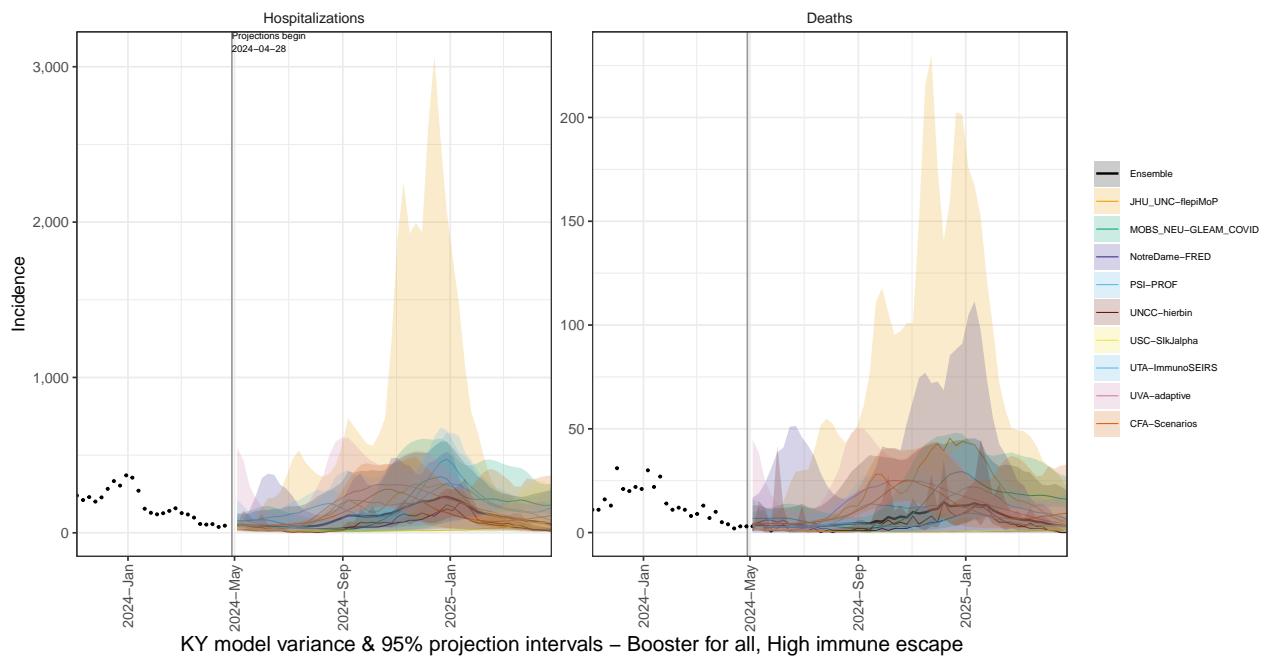
IN model variance & 95% projection intervals – Booster for all, High immune escape



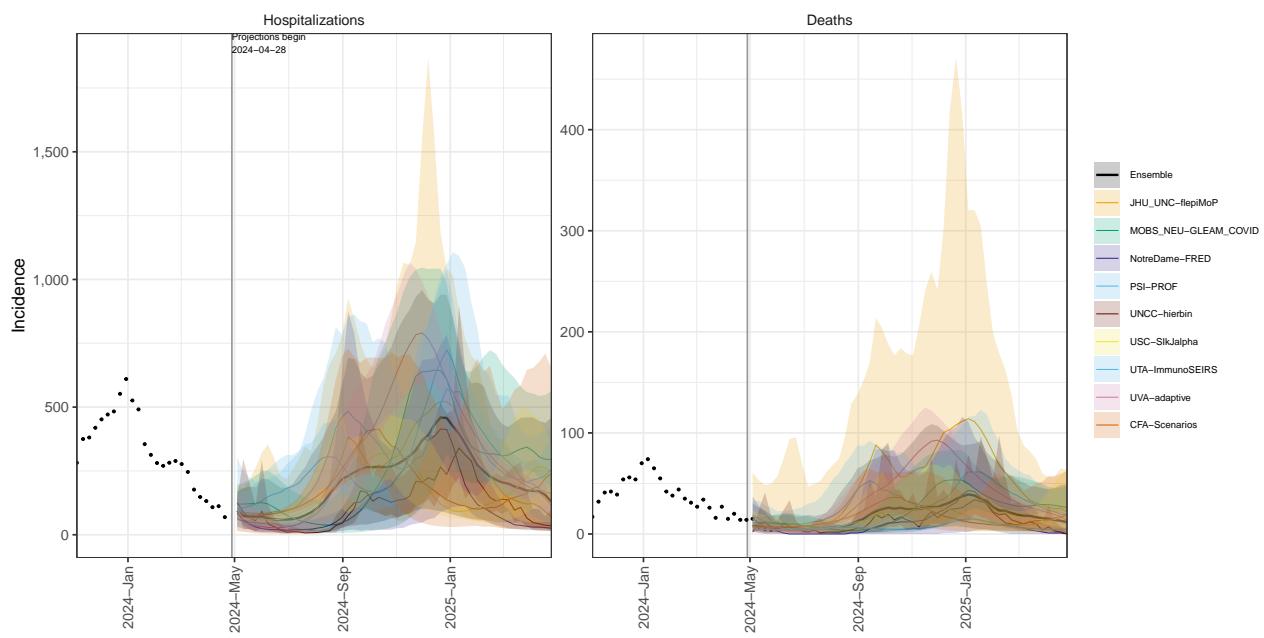
IA model variance & 95% projection intervals – Booster for all, High immune escape



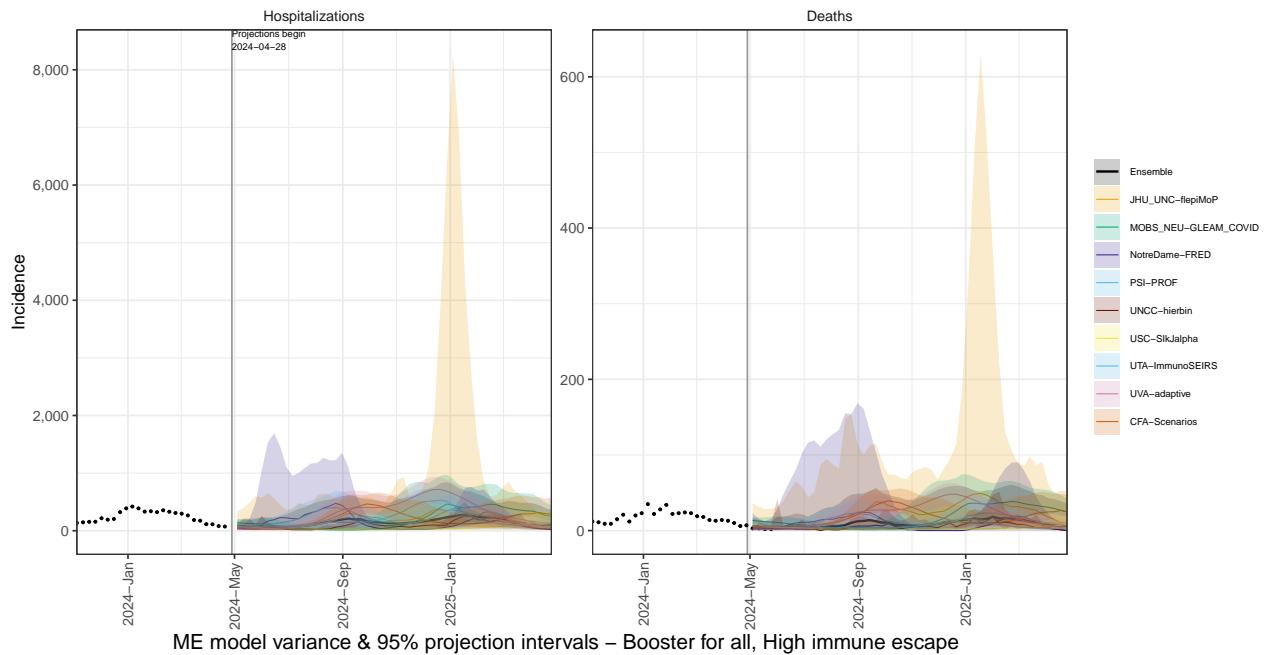
KS model variance & 95% projection intervals – Booster for all, High immune escape



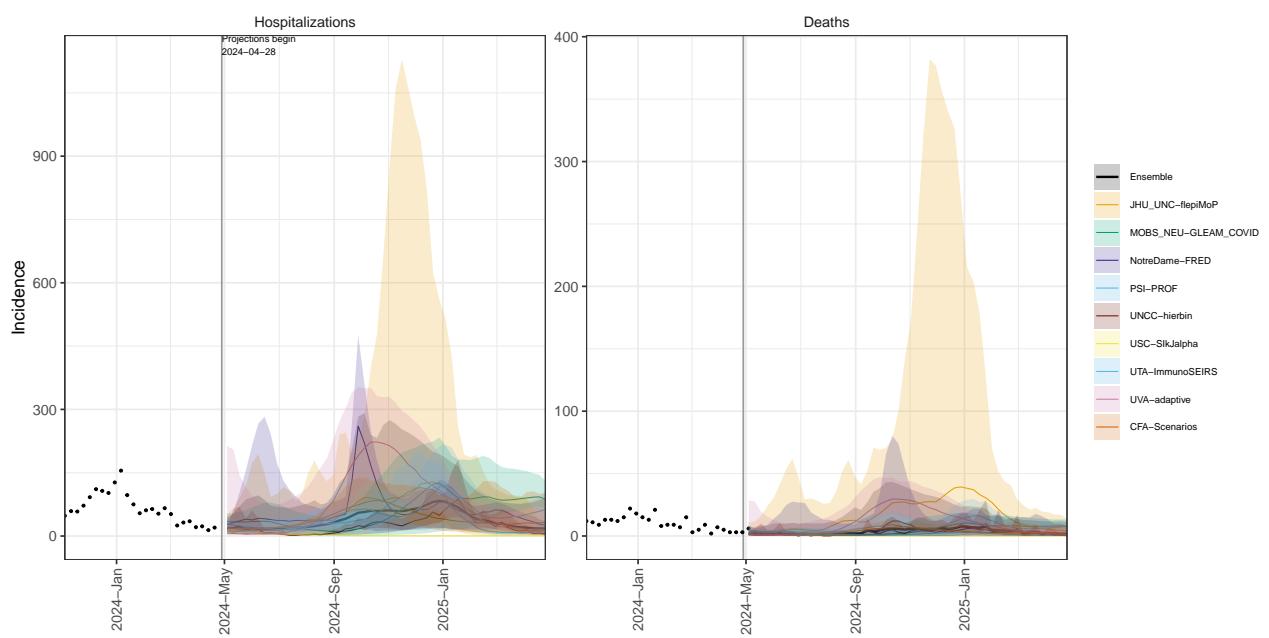
KY model variance & 95% projection intervals – Booster for all, High immune escape



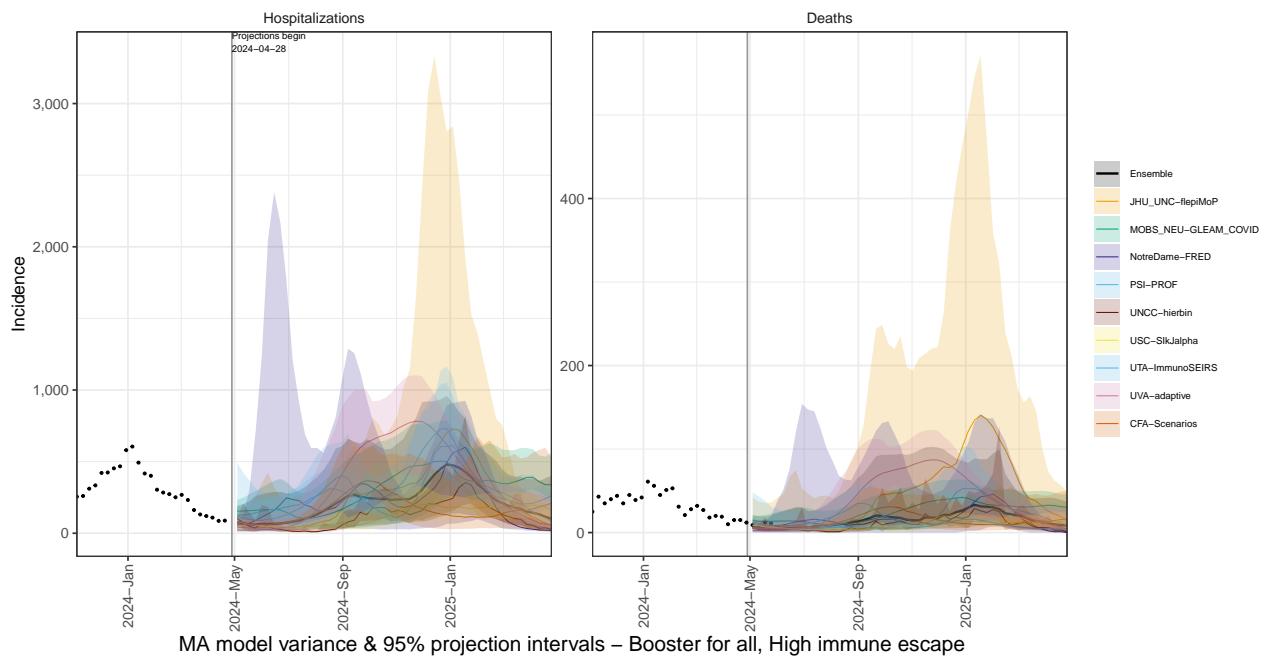
LA model variance & 95% projection intervals – Booster for all, High immune escape



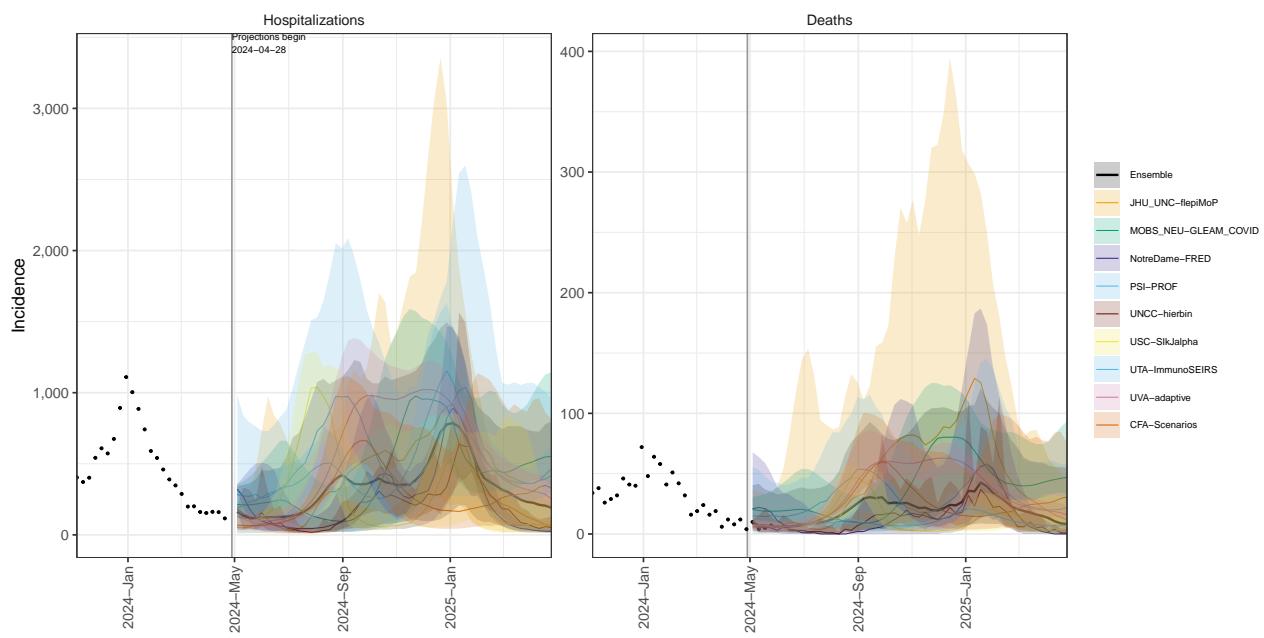
ME model variance & 95% projection intervals – Booster for all, High immune escape



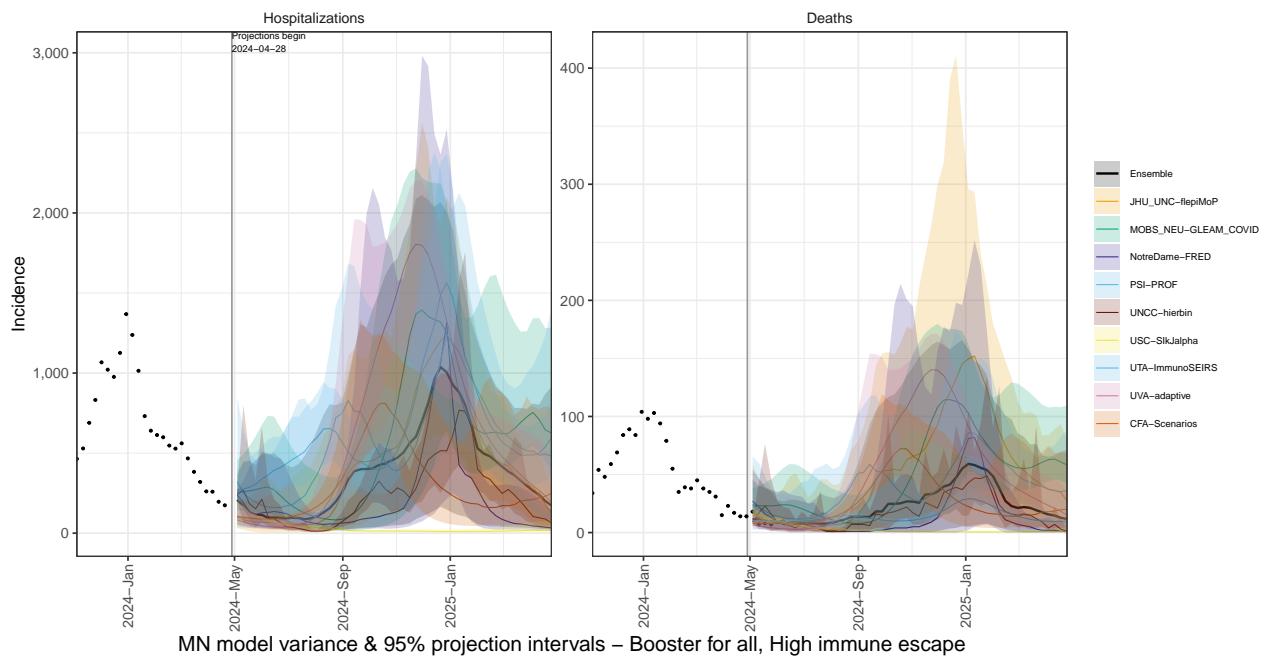
MD model variance & 95% projection intervals – Booster for all, High immune escape



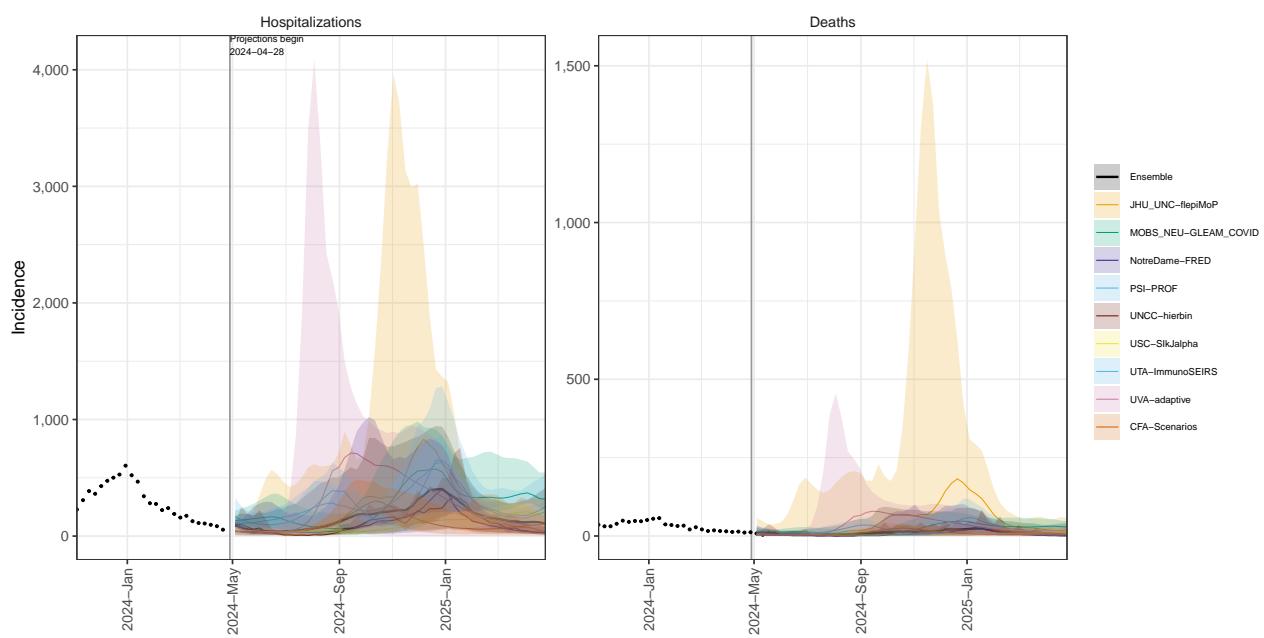
MA model variance & 95% projection intervals – Booster for all, High immune escape



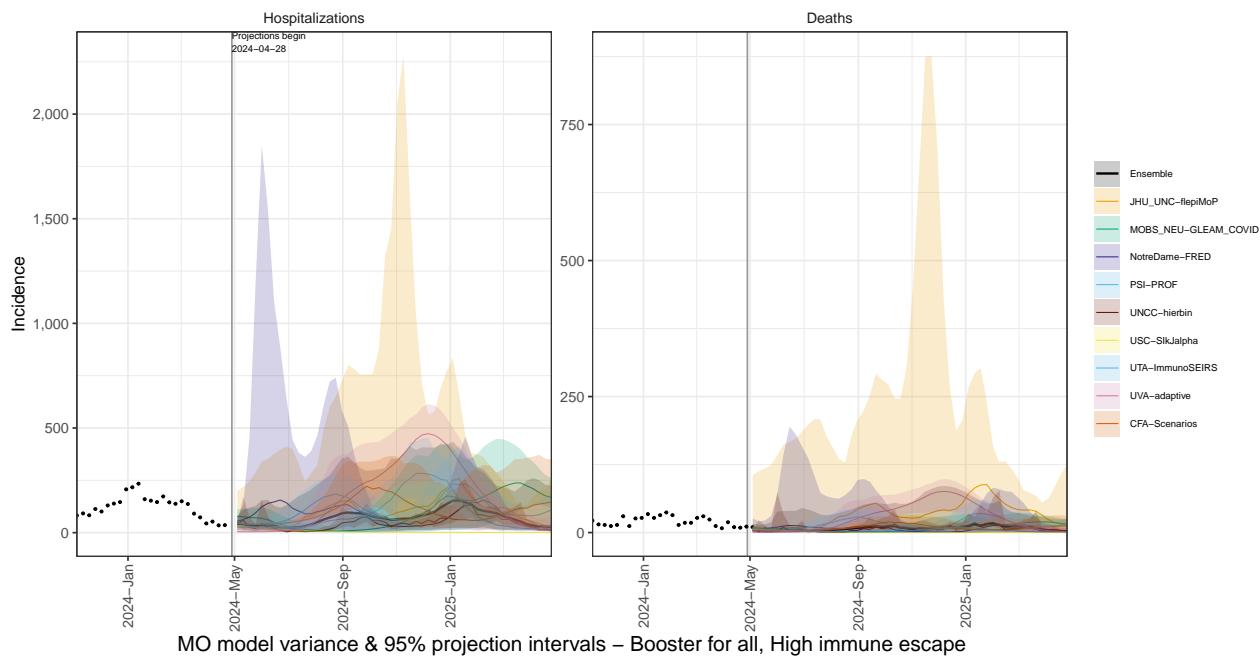
MI model variance & 95% projection intervals – Booster for all, High immune escape



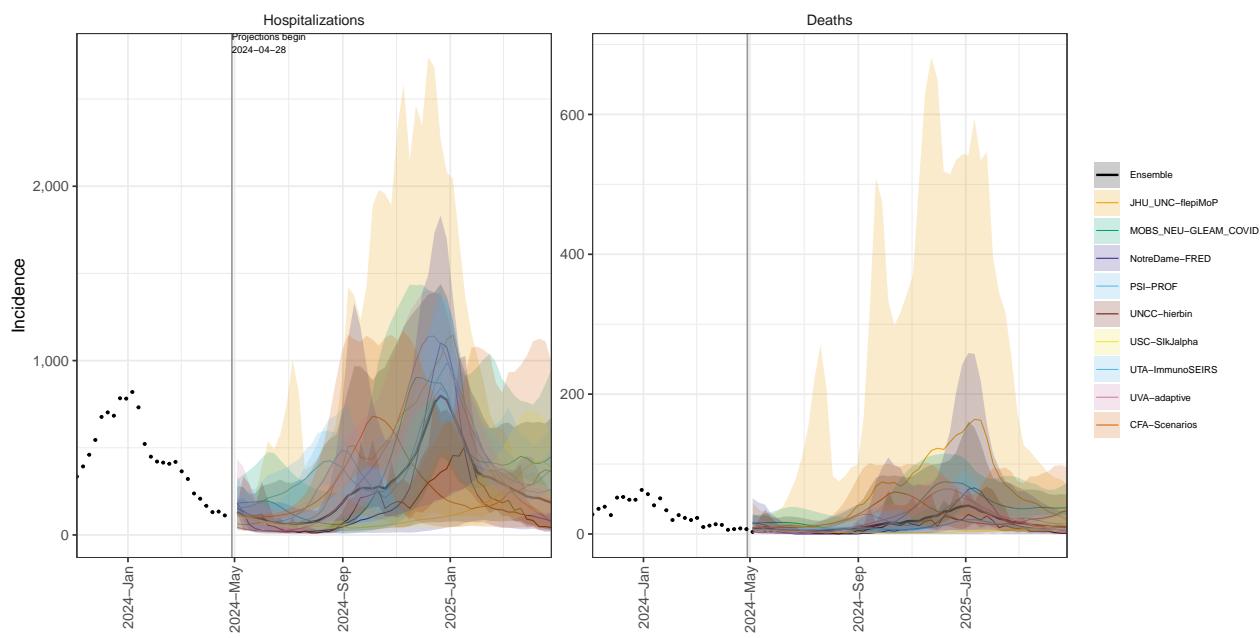
MN model variance & 95% projection intervals – Booster for all, High immune escape



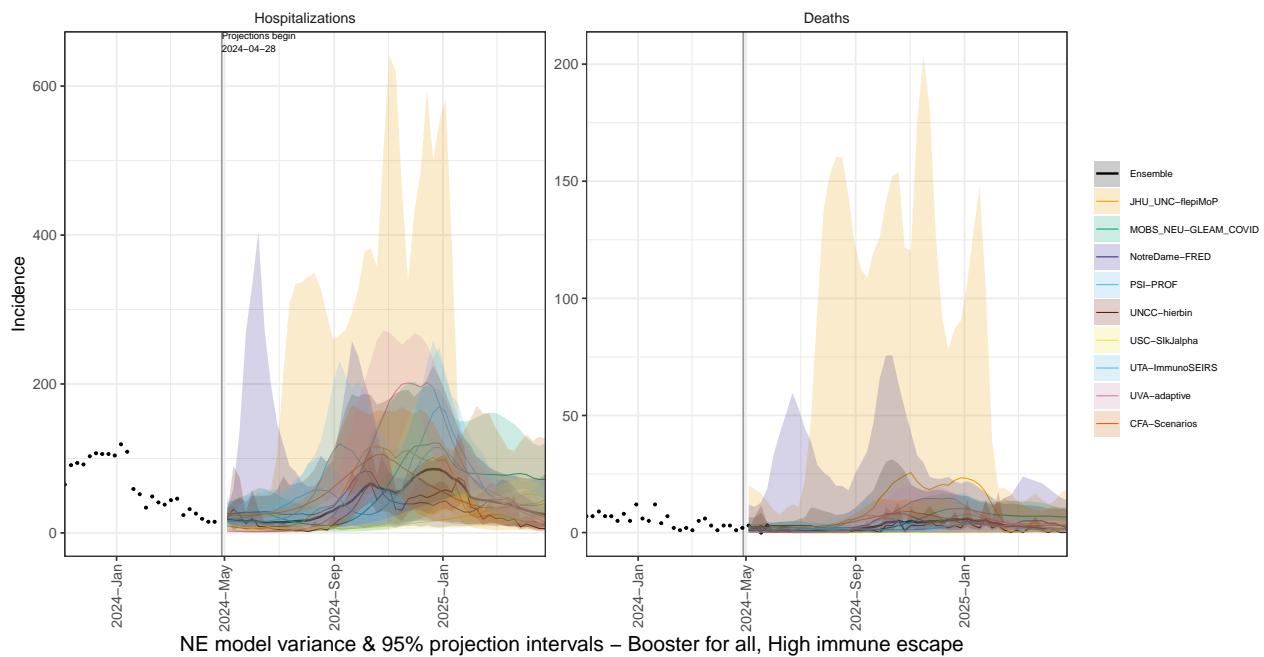
MS model variance & 95% projection intervals – Booster for all, High immune escape



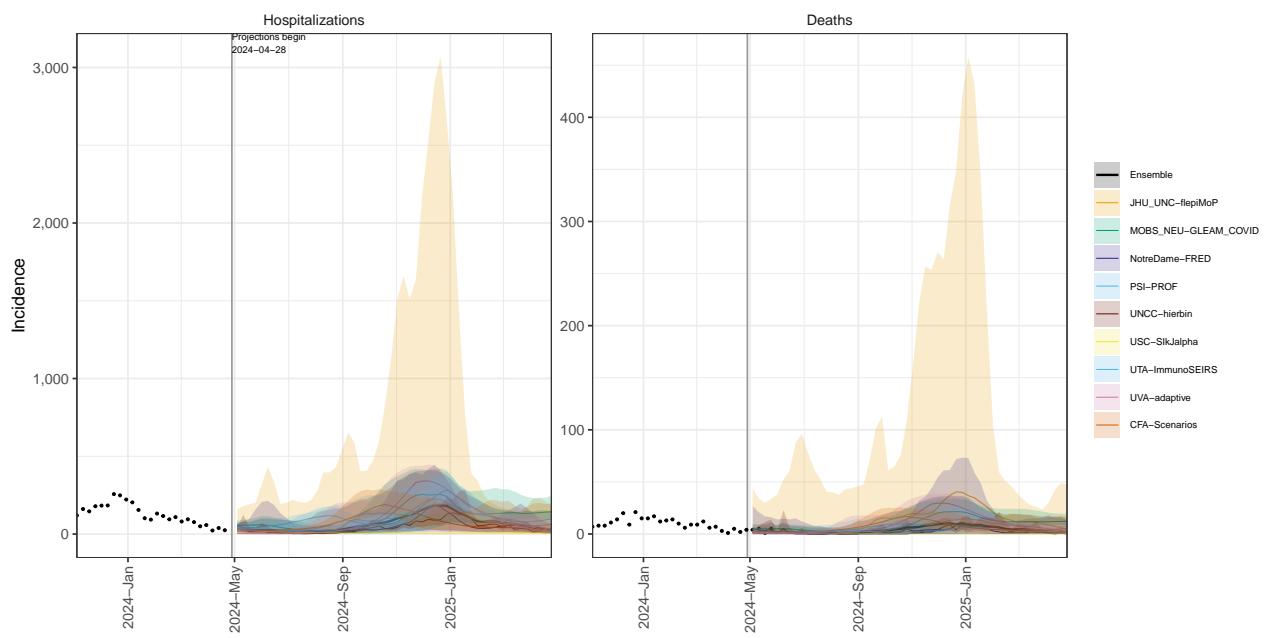
MO model variance & 95% projection intervals – Booster for all, High immune escape



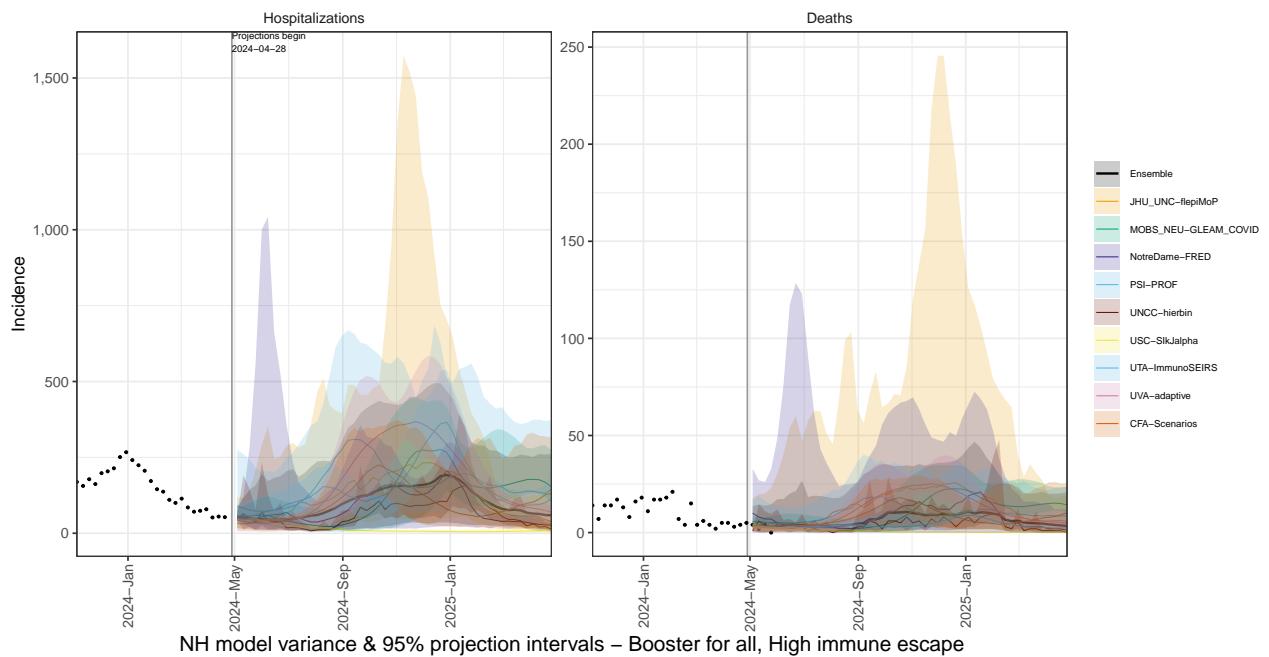
MT model variance & 95% projection intervals – Booster for all, High immune escape



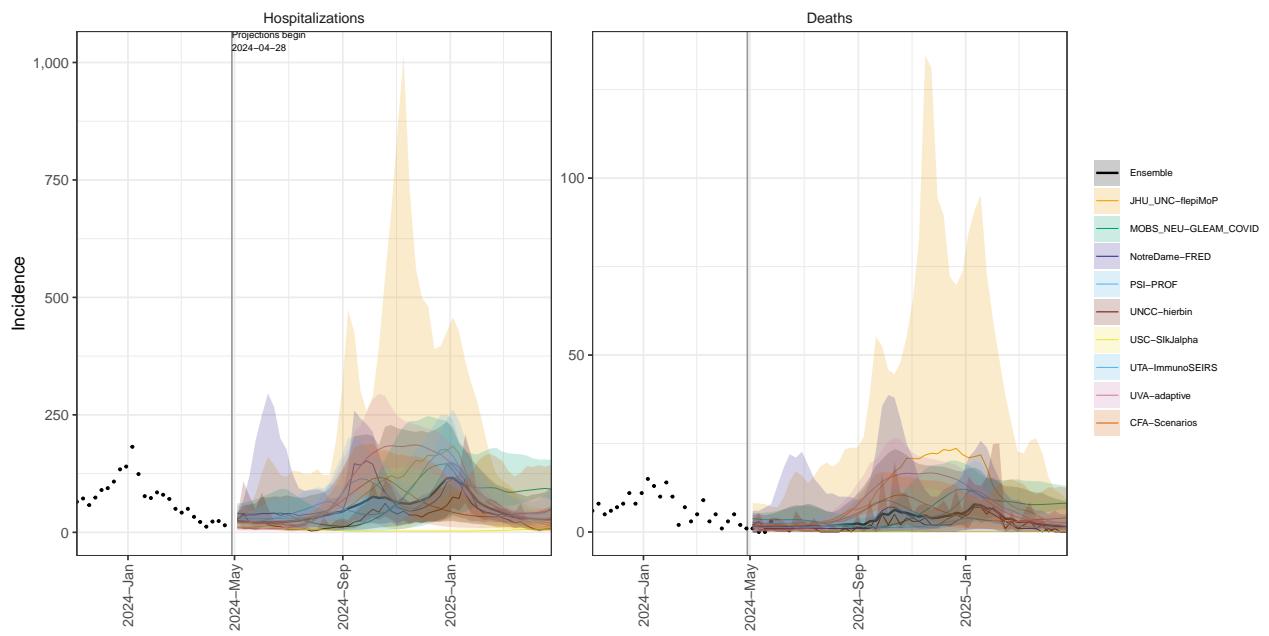
NE model variance & 95% projection intervals – Booster for all, High immune escape



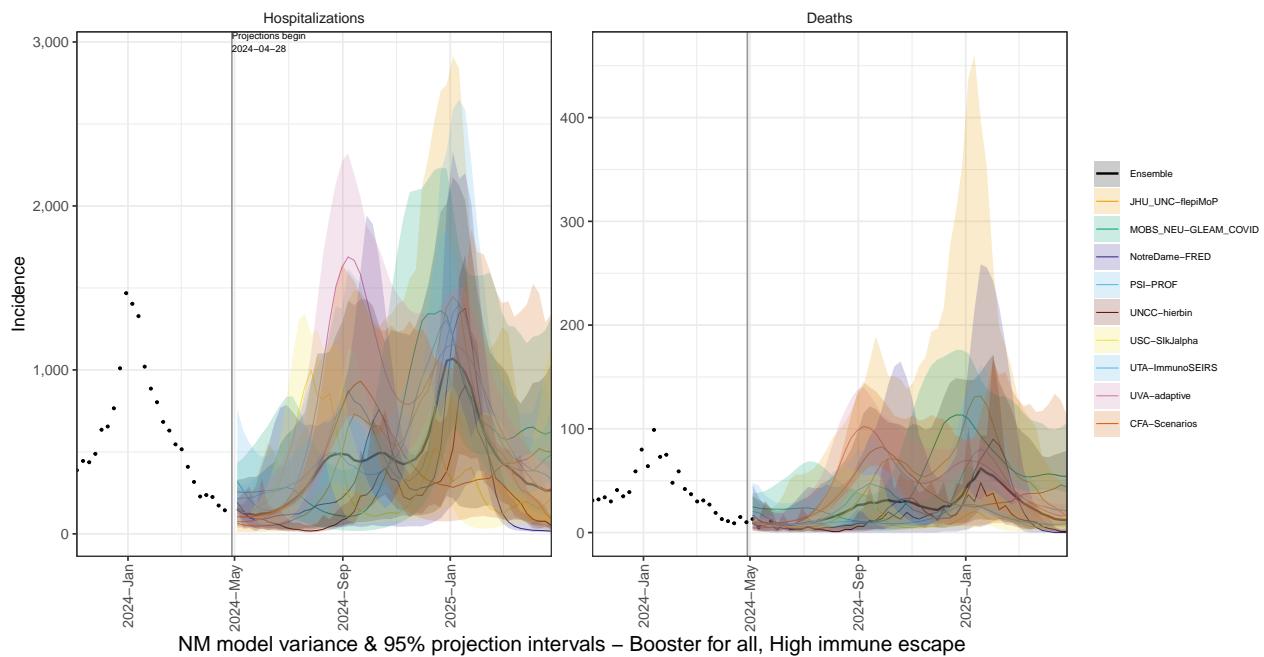
NV model variance & 95% projection intervals – Booster for all, High immune escape



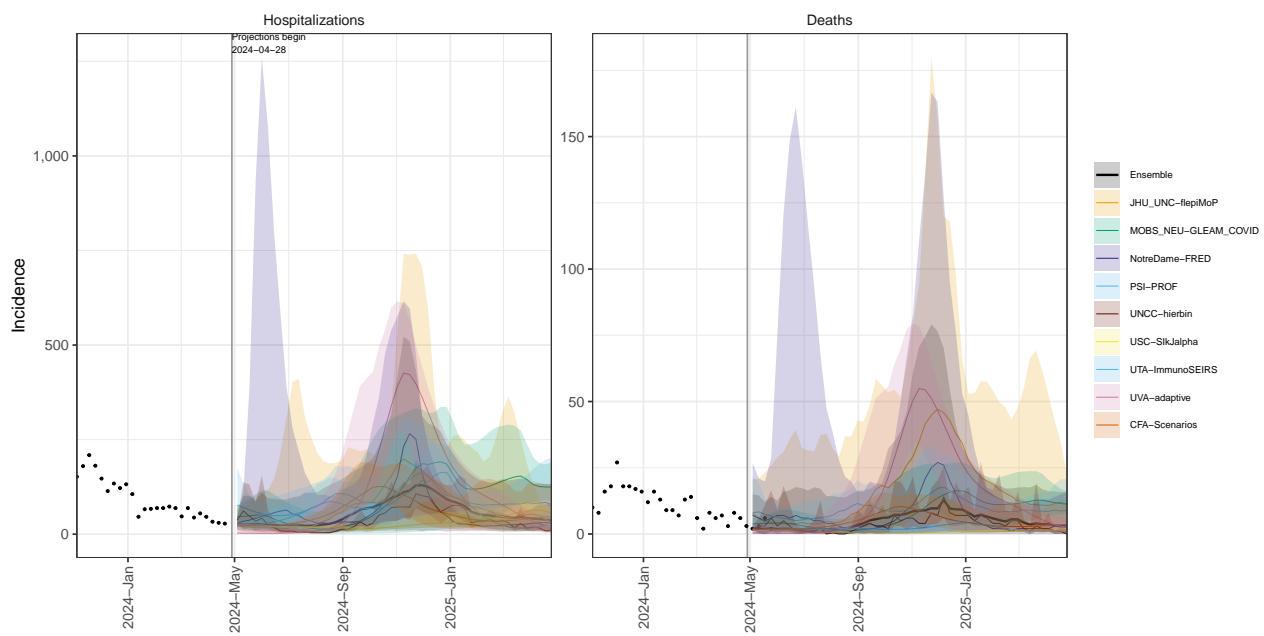
NH model variance & 95% projection intervals – Booster for all, High immune escape



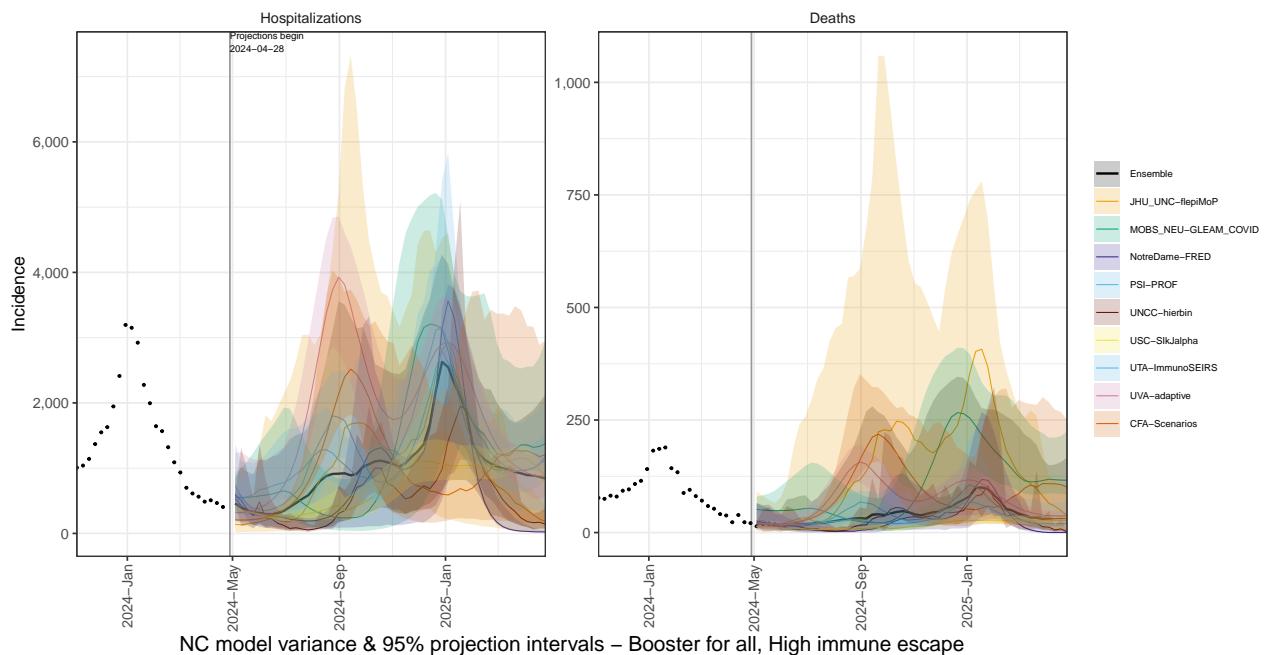
NJ model variance & 95% projection intervals – Booster for all, High immune escape



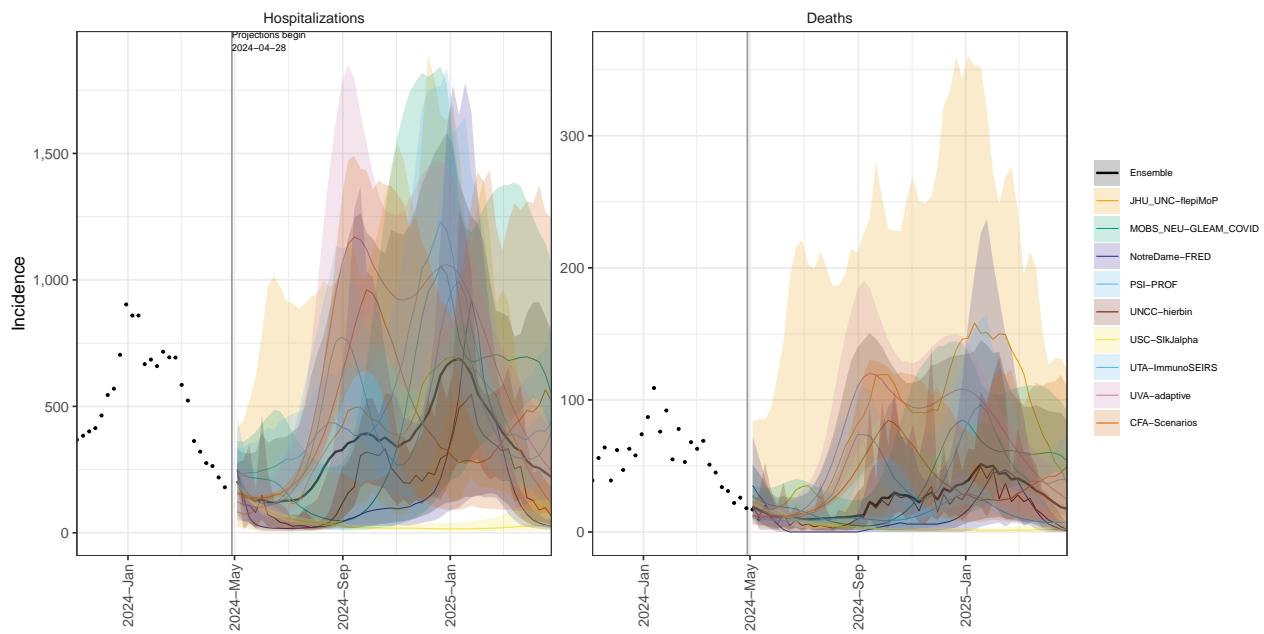
NM model variance & 95% projection intervals – Booster for all, High immune escape



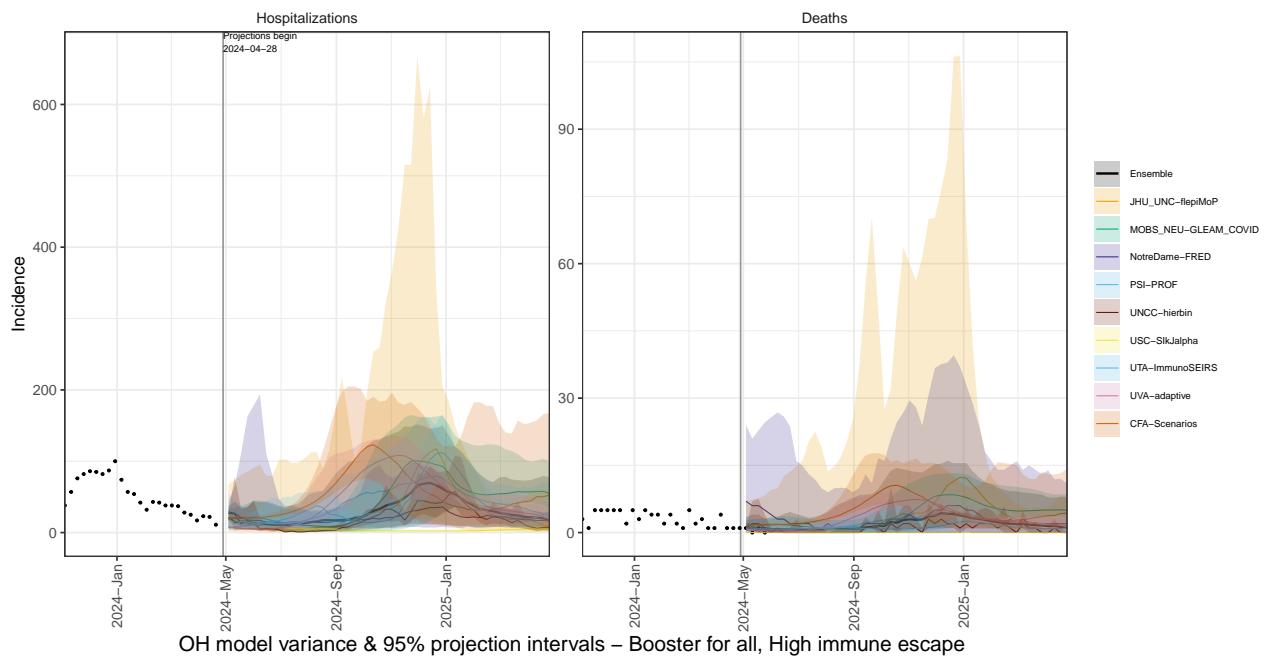
NY model variance & 95% projection intervals – Booster for all, High immune escape



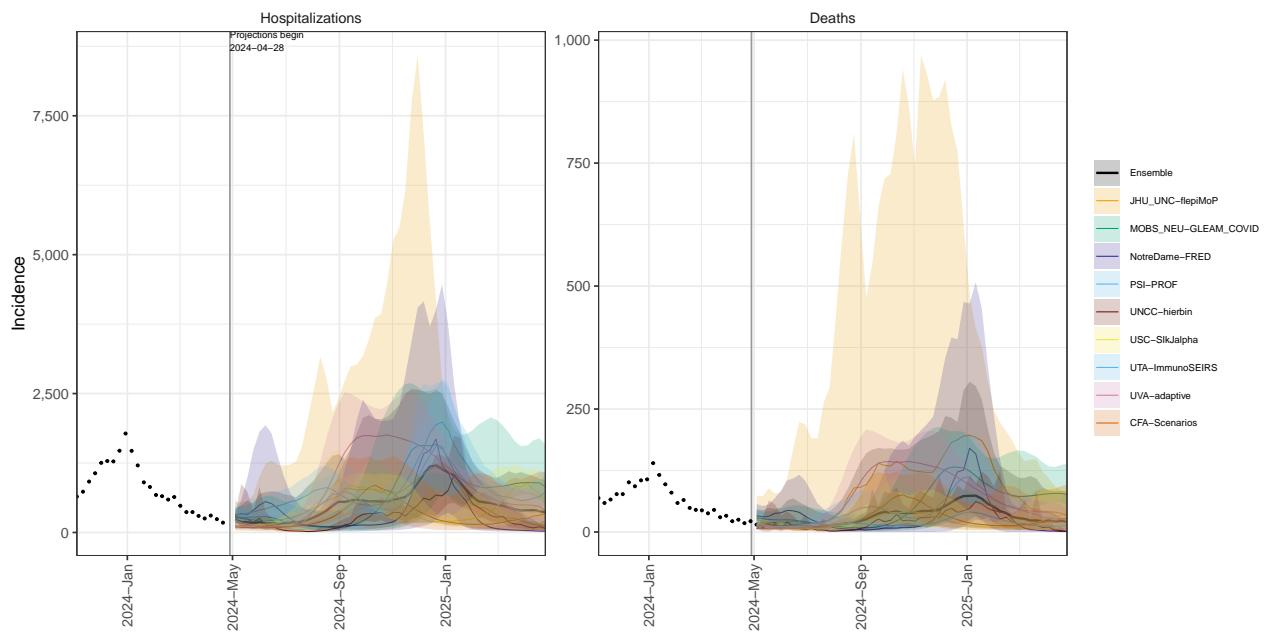
NC model variance & 95% projection intervals – Booster for all, High immune escape



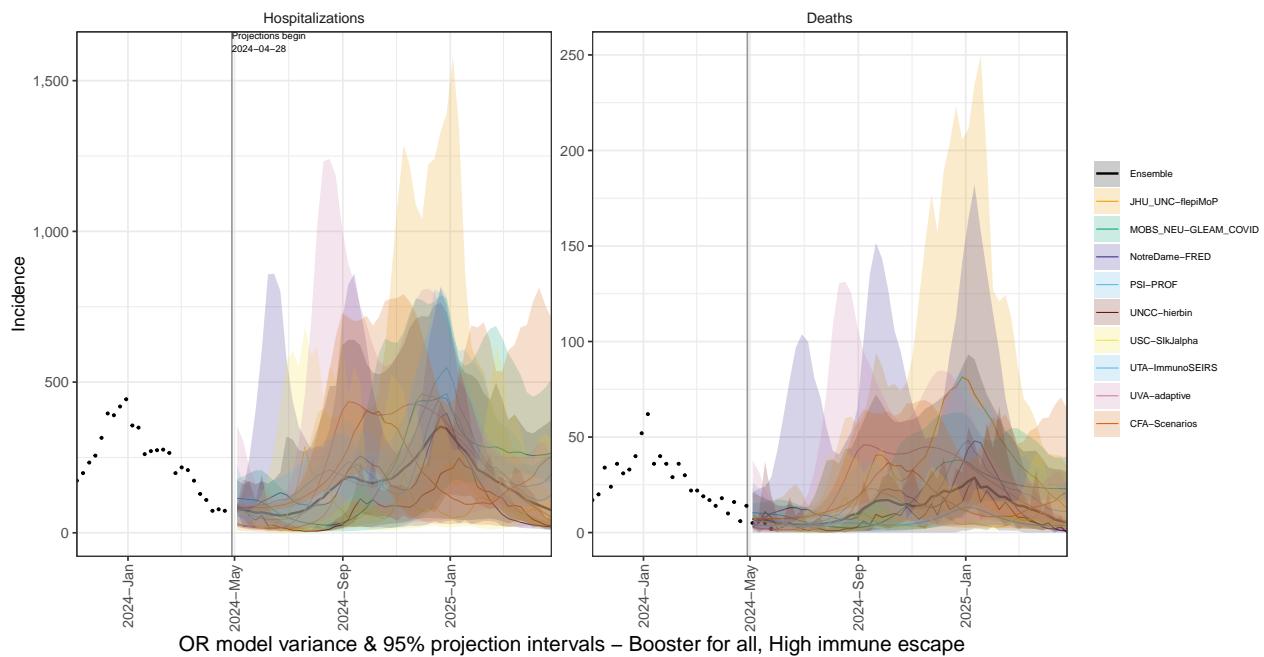
ND model variance & 95% projection intervals – Booster for all, High immune escape



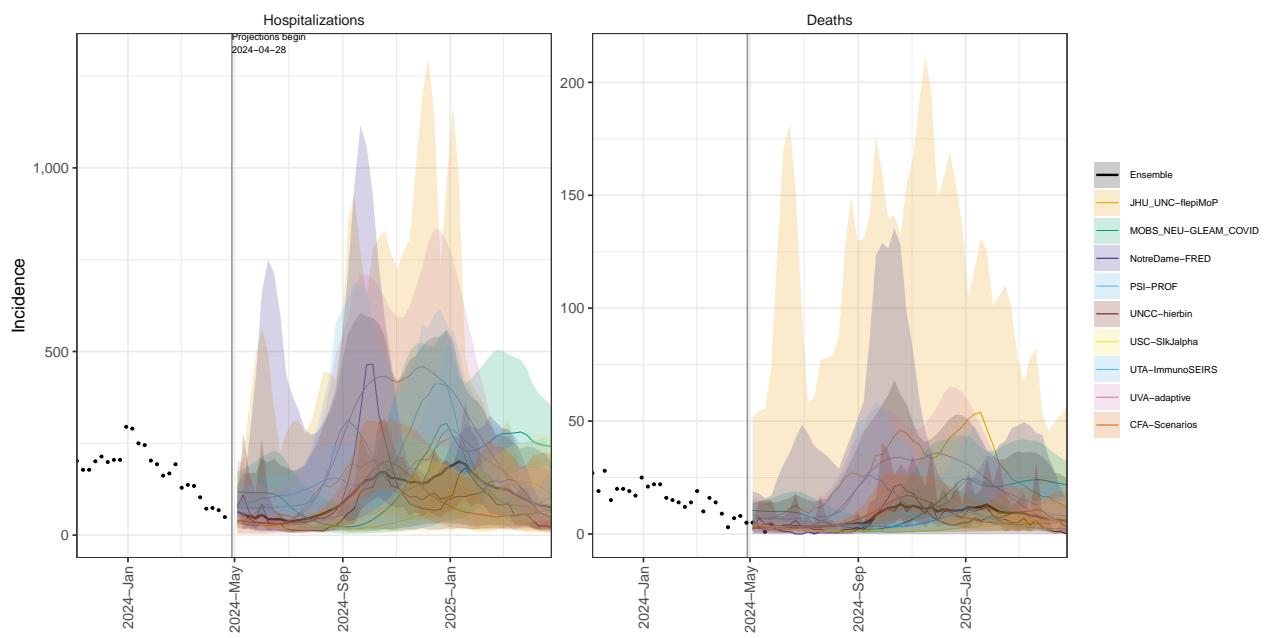
OH model variance & 95% projection intervals – Booster for all, High immune escape



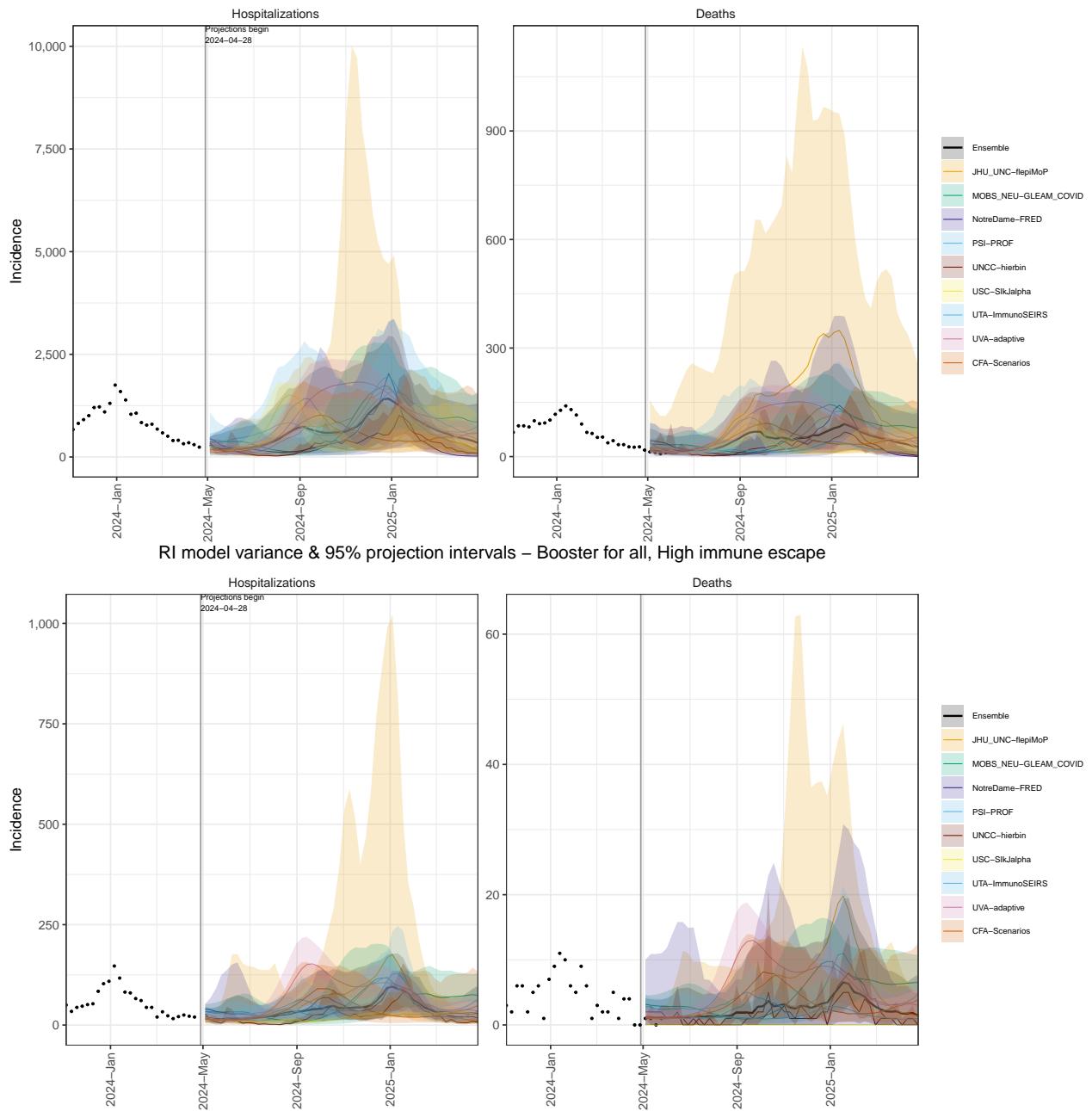
OK model variance & 95% projection intervals – Booster for all, High immune escape



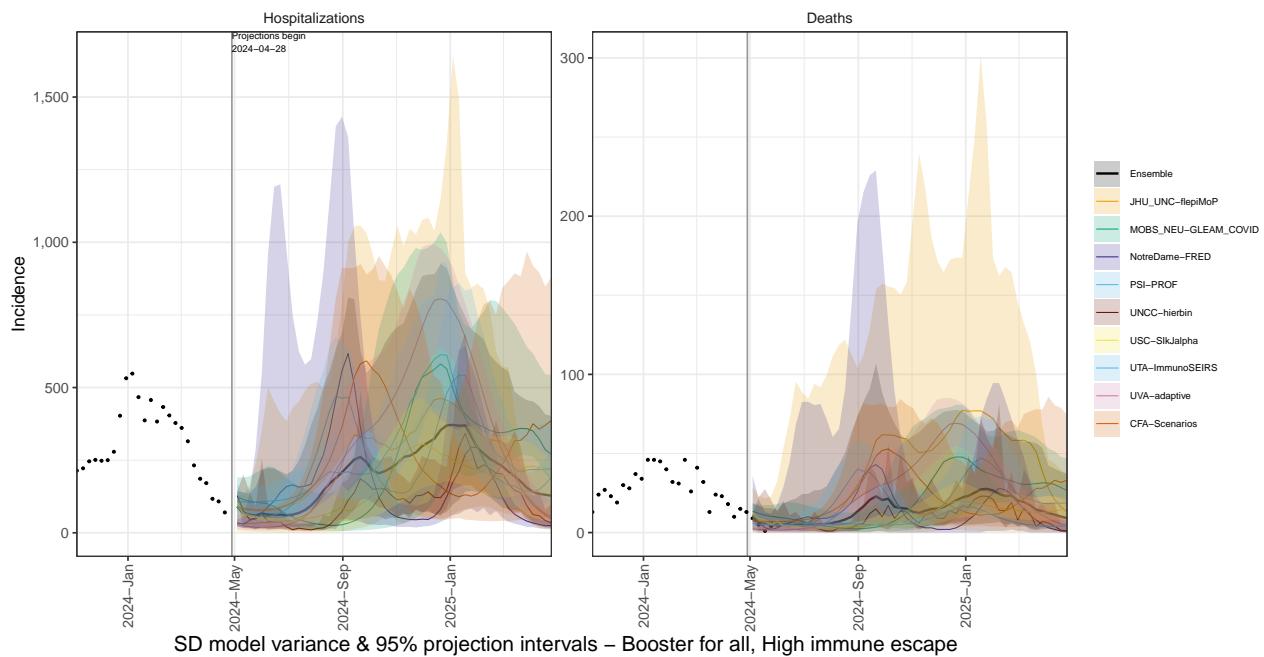
OR model variance & 95% projection intervals – Booster for all, High immune escape



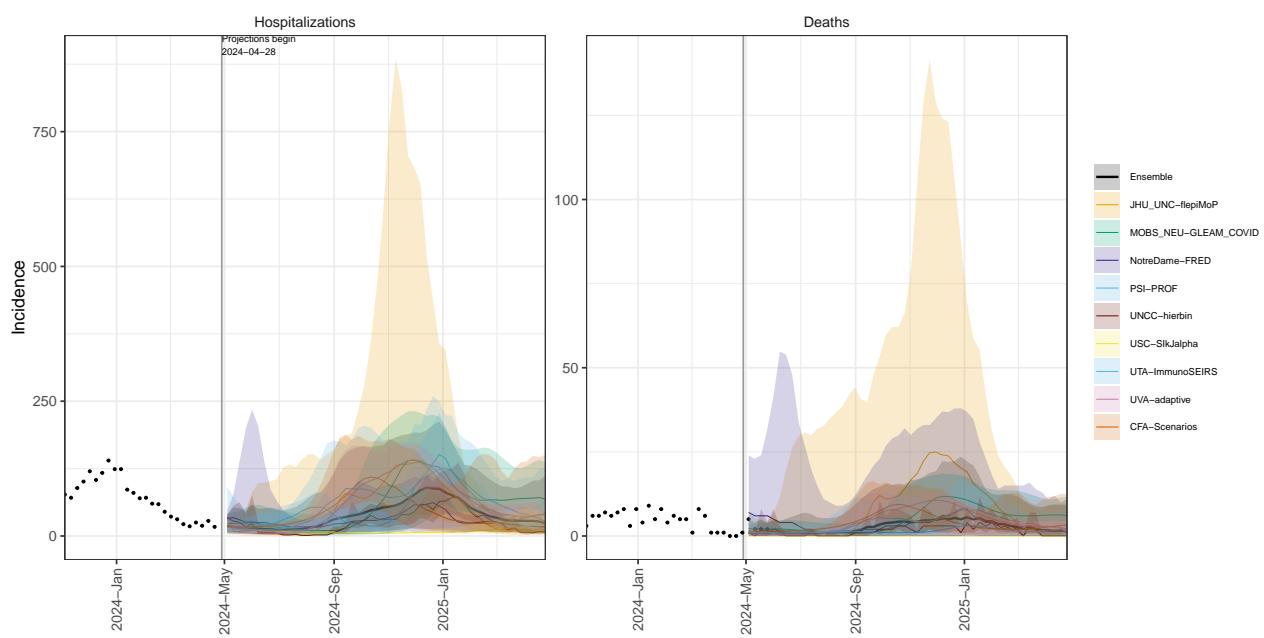
PA model variance & 95% projection intervals – Booster for all, High immune escape



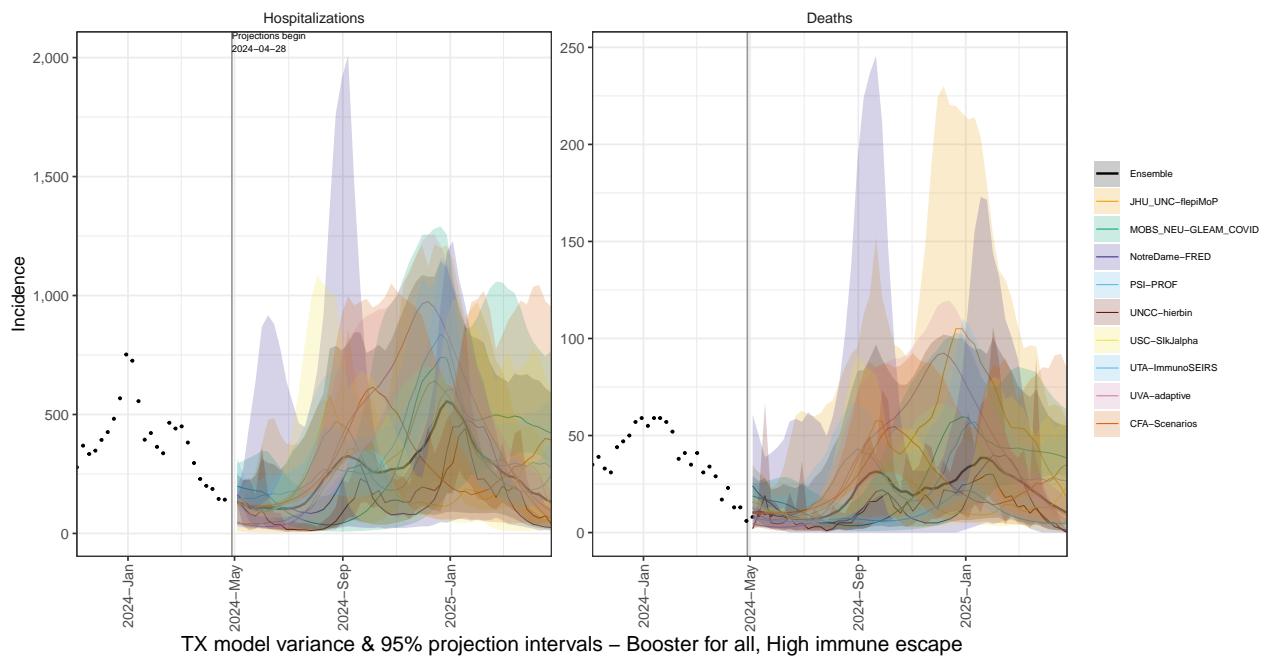
SC model variance & 95% projection intervals – Booster for all, High immune escape



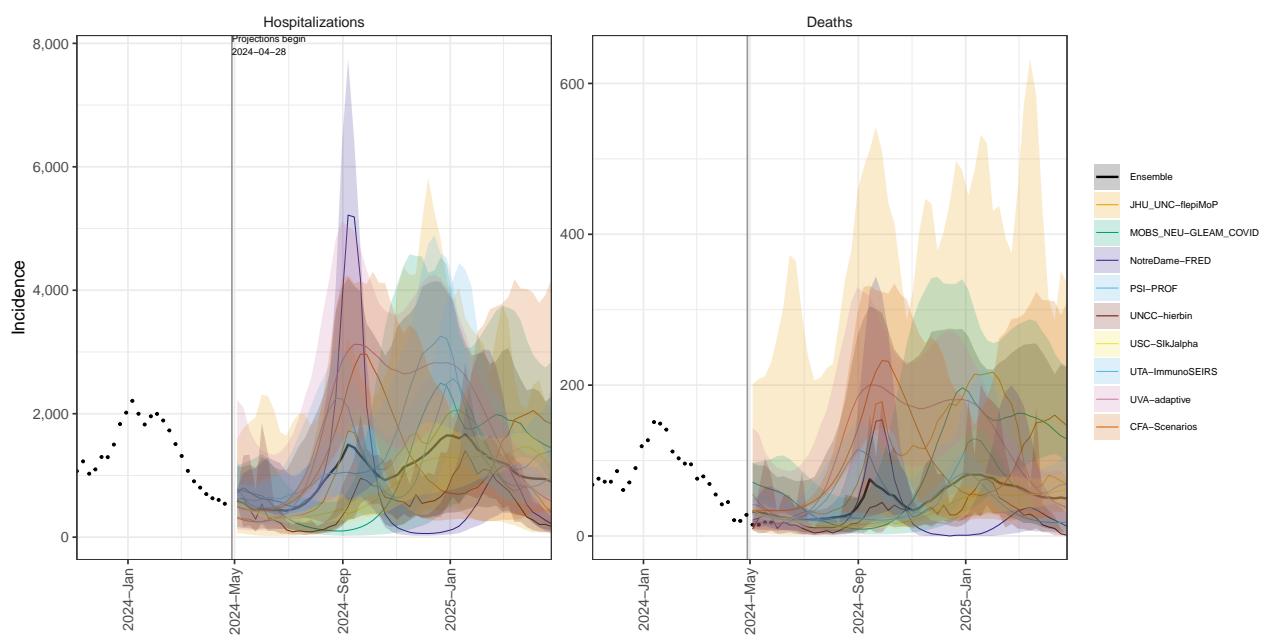
SD model variance & 95% projection intervals – Booster for all, High immune escape



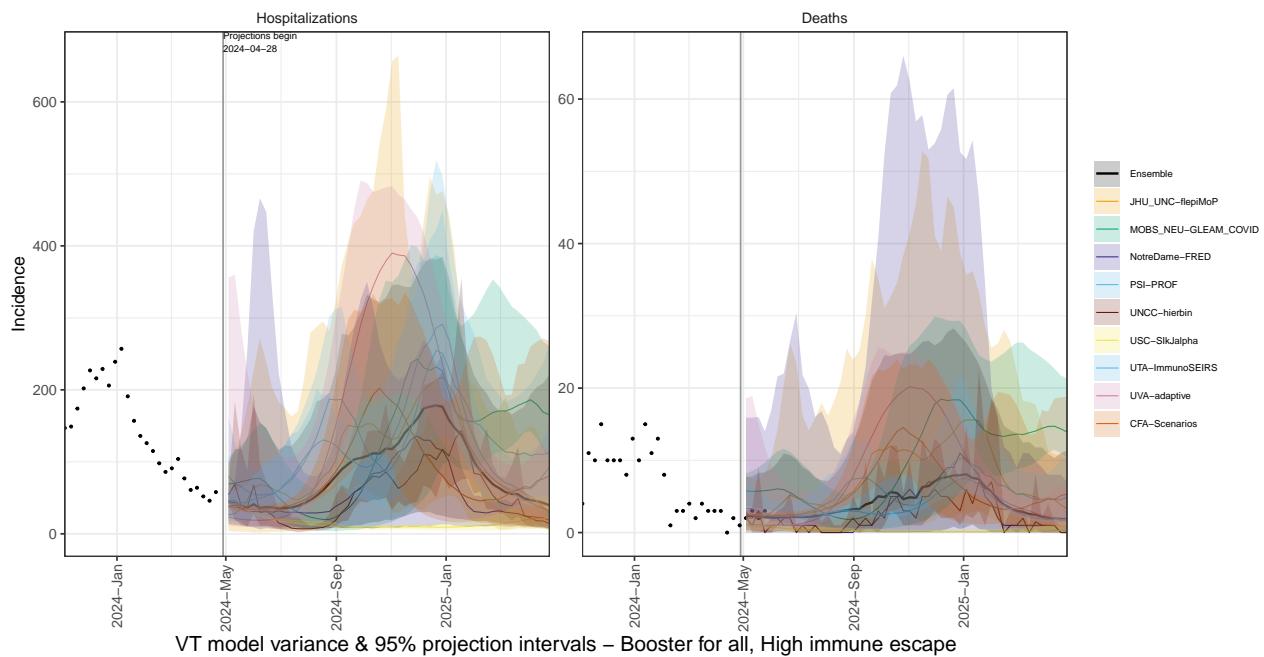
TN model variance & 95% projection intervals – Booster for all, High immune escape



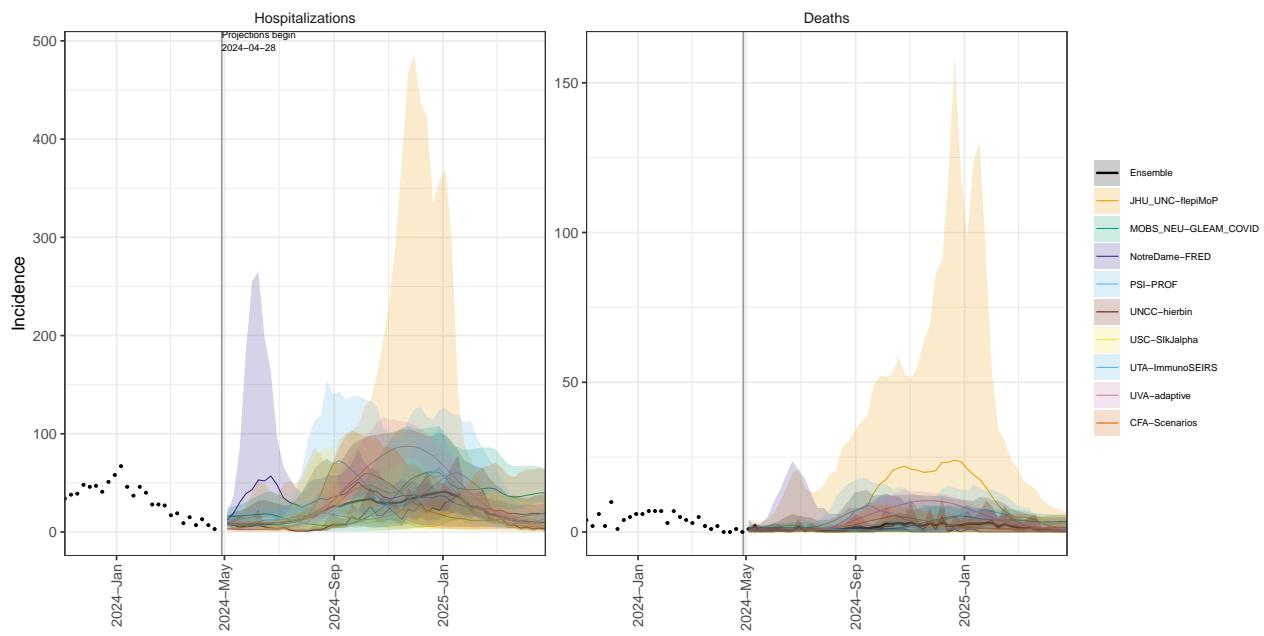
TX model variance & 95% projection intervals – Booster for all, High immune escape



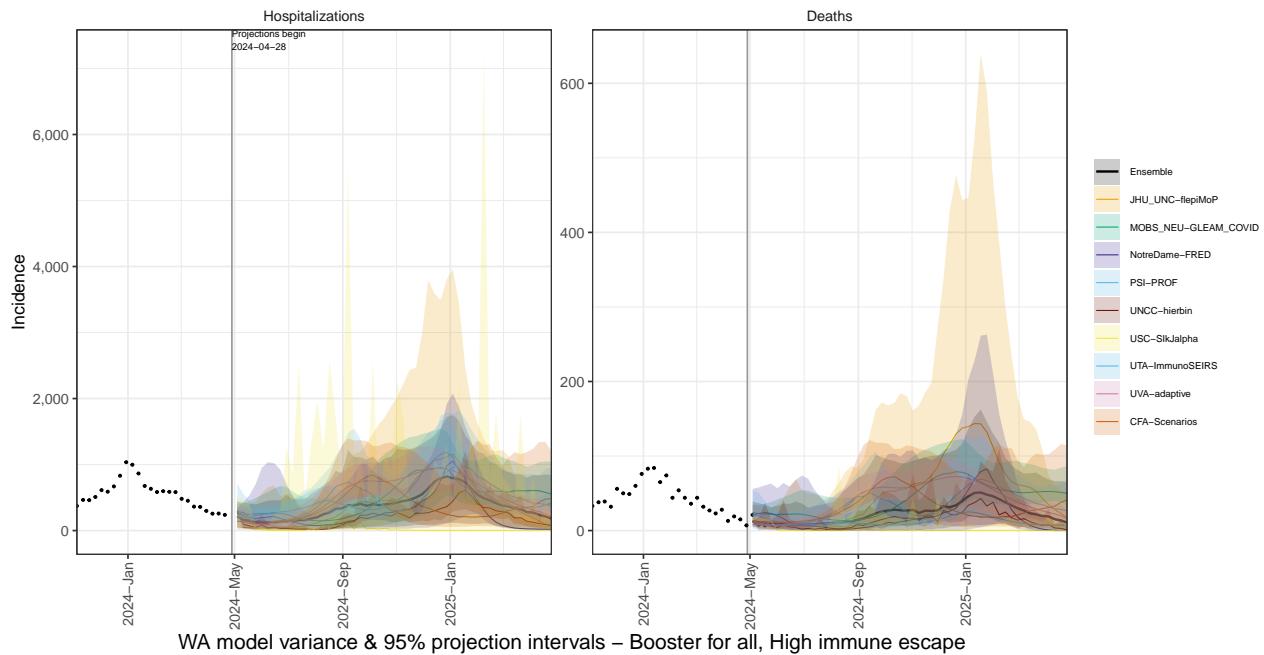
UT model variance & 95% projection intervals – Booster for all, High immune escape



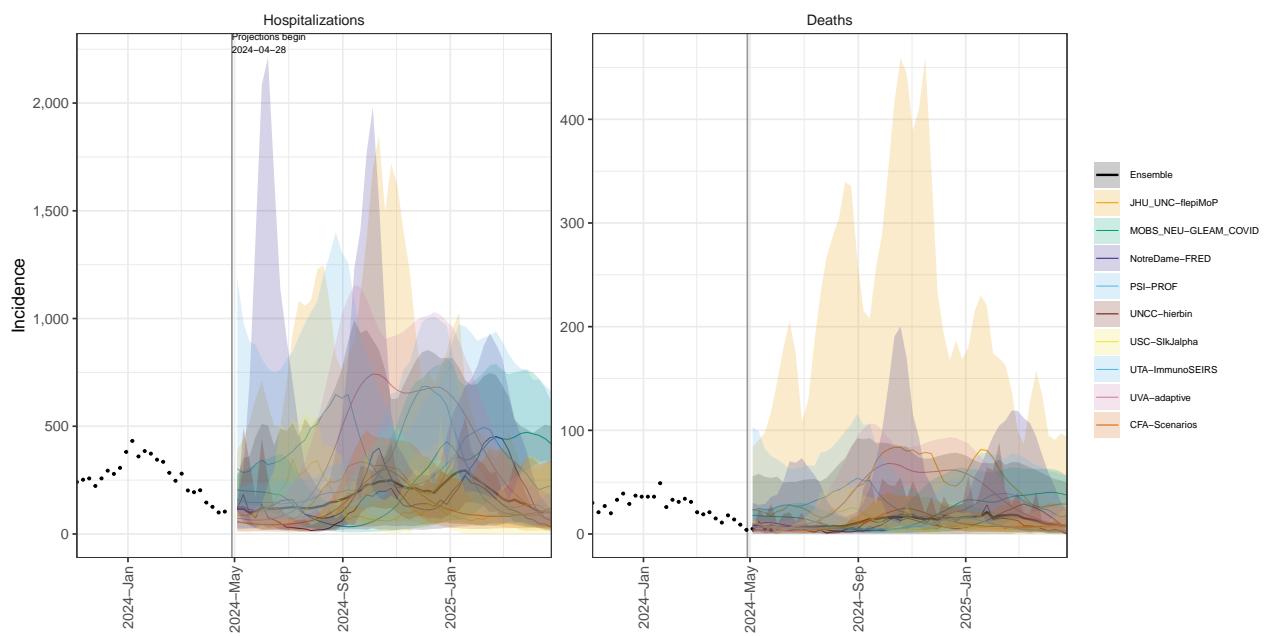
VT model variance & 95% projection intervals – Booster for all, High immune escape



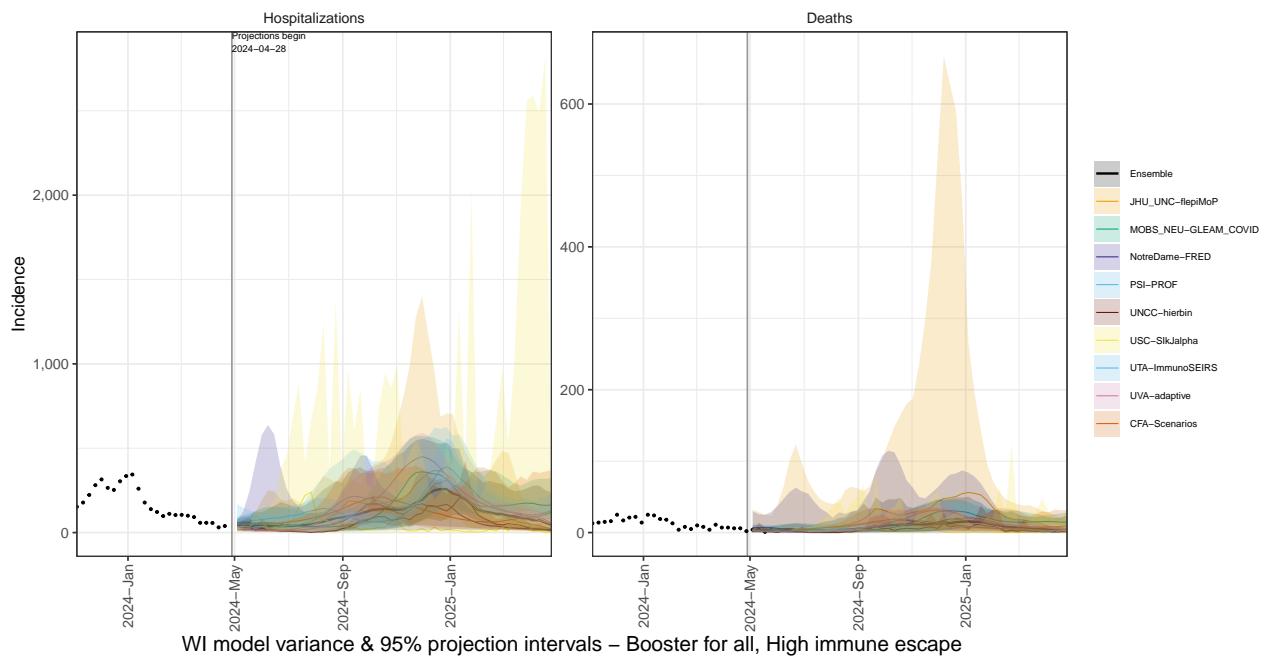
VA model variance & 95% projection intervals – Booster for all, High immune escape



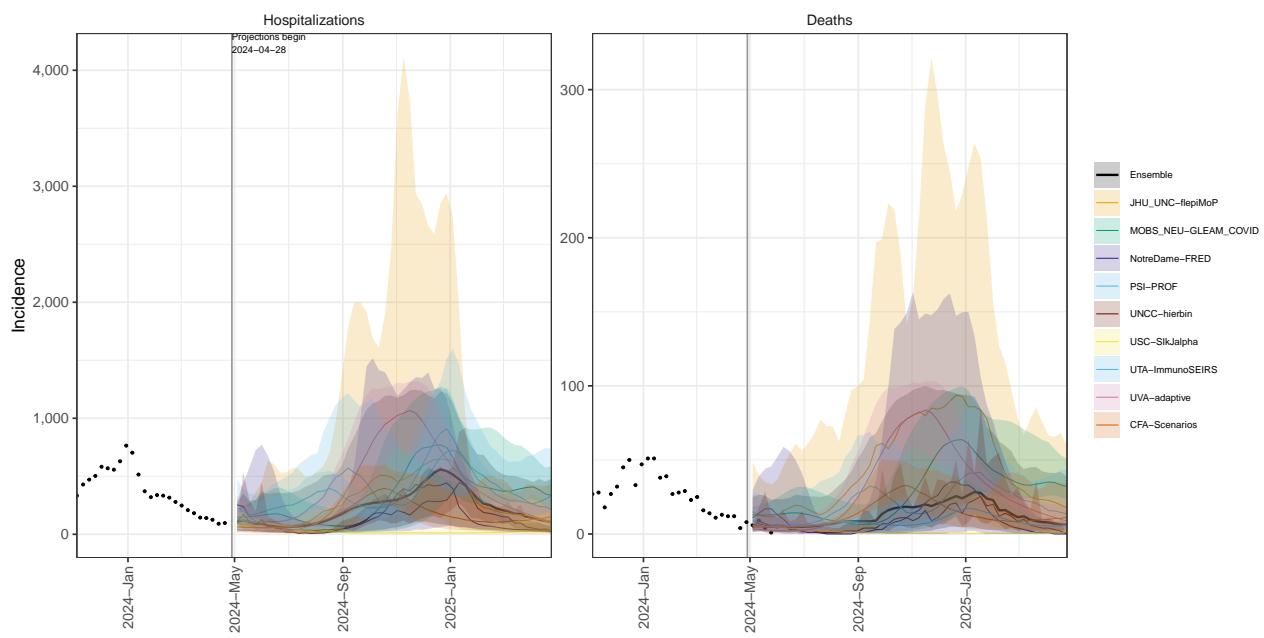
WA model variance & 95% projection intervals – Booster for all, High immune escape



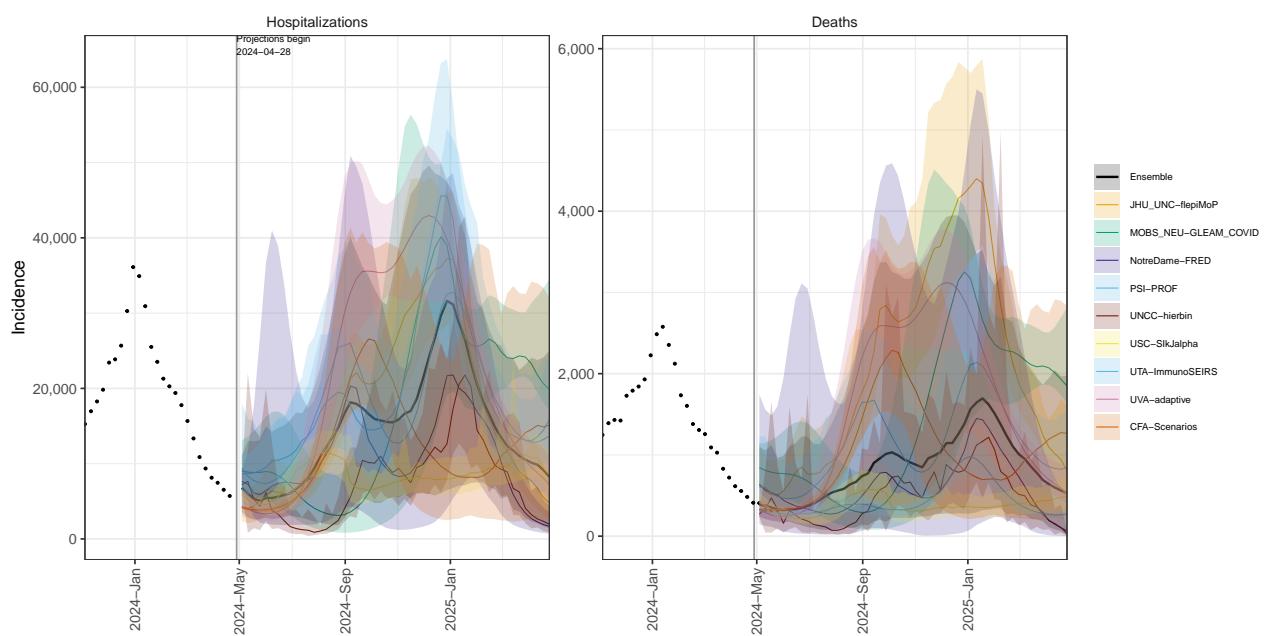
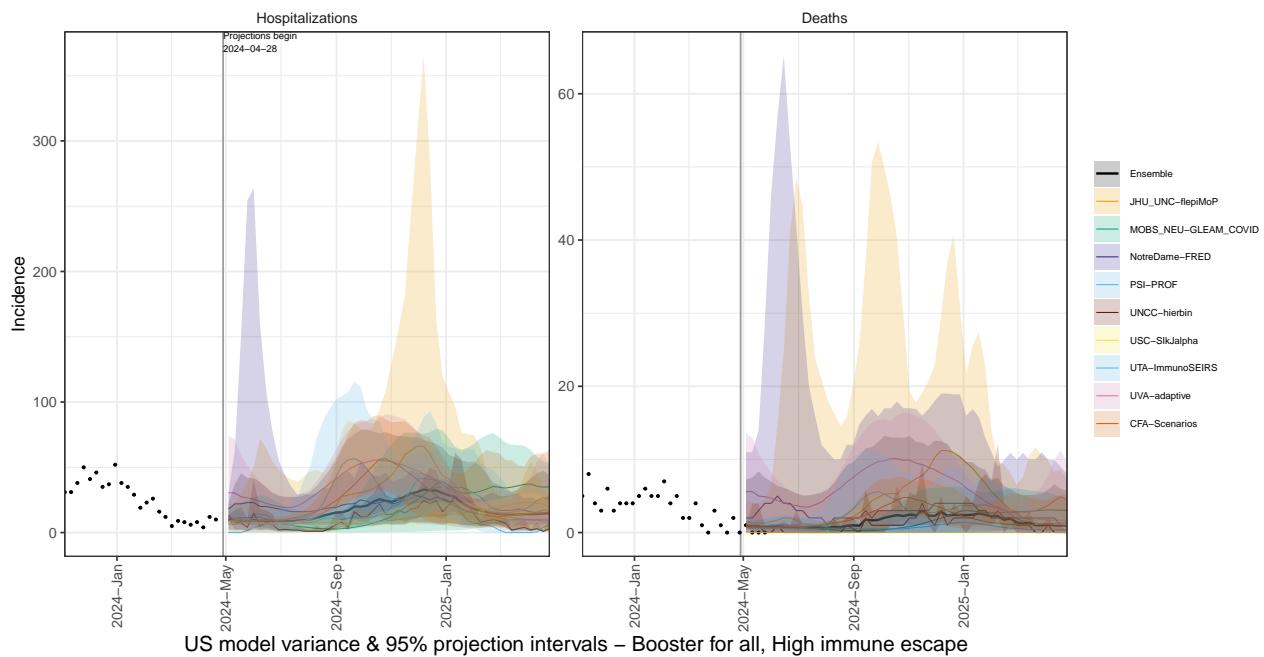
WV model variance & 95% projection intervals – Booster for all, High immune escape



WI model variance & 95% projection intervals – Booster for all, High immune escape



WY model variance & 95% projection intervals – Booster for all, High immune escape



Total seasonal hospitalizations, by model, scenario, and age group

Total hospitalizations (total population) - low immune escape		
Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	134,750 (54,489- 264,867)	685,106 (273,674-1,007,652)
CFA-Scenarios	116,249 (104,549- 179,307)	547,232 (469,542- 725,834)
JHU_UNC-flepiMoP	132,502 (93,826- 188,136)	768,850 (653,726- 857,576)
MOBS_NEU-GLEAM_COVID	112,149 (54,607- 215,315)	779,122 (527,996-1,052,304)
NotreDame-FRED	165,768 (125,134- 201,545)	472,330 (426,988- 511,077)
PSI-PROF	214,639 (115,984- 371,033)	701,462 (440,940-1,167,954)
UNCC-hierbin	58,097 (43,750- 77,657)	363,904 (320,693- 404,261)
USC-SIkJalpha	132,798 (103,200- 161,351)	303,580 (249,377- 370,789)
UTA-ImmunoSEIRS	217,458 (161,504- 280,741)	787,361 (654,670- 925,523)
UVA-adaptive	137,824 (112,238- 189,886)	970,866 (946,004-1,112,906)
Booster for high-risk - High immune escape		
Ensemble	134,822 (55,621- 264,535)	714,273 (275,933-1,040,847)
CFA-Scenarios	116,255 (104,554- 179,315)	567,526 (488,808- 744,134)
JHU_UNC-flepiMoP	132,285 (93,659- 188,199)	805,139 (680,589- 897,744)
MOBS_NEU-GLEAM_COVID	112,149 (54,608- 215,319)	804,475 (556,974-1,074,767)
NotreDame-FRED	165,200 (124,831- 201,292)	476,510 (430,315- 515,745)
PSI-PROF	214,639 (115,090- 367,832)	743,202 (467,421-1,252,560)
UNCC-hierbin	59,618 (45,485- 80,410)	438,092 (395,823- 483,613)
USC-SIkJalpha	132,856 (103,205- 161,466)	307,566 (252,523- 372,799)
UTA-ImmunoSEIRS	213,445 (154,564- 286,799)	830,620 (683,712- 933,146)
UVA-adaptive	137,247 (111,769- 189,115)	989,689 (965,369- 1,138,030)
No booster - High immune escape		
Ensemble	134,814 (56,234- 266,325)	807,744 (307,517-1,200,070)
CFA-Scenarios	116,258 (104,557- 179,320)	618,774 (534,066- 793,555)
JHU_UNC-flepiMoP	132,285 (93,659- 188,199)	890,093 (752,482- 997,588)
MOBS_NEU-GLEAM_COVID	112,210 (54,692- 215,522)	944,439 (700,129-1,215,606)
NotreDame-FRED	165,219 (123,604- 199,517)	481,904 (435,057- 520,310)
PSI-PROF	214,639 (119,362- 372,883)	945,515 (589,760- 1,602,945)
UNCC-hierbin	60,604 (45,774- 81,746)	487,152 (442,426- 540,752)
USC-SIkJalpha	132,423 (103,200- 161,319)	343,801 (281,740- 420,204)
UTA-ImmunoSEIRS	226,513 (172,488- 289,615)	841,031 (707,152- 996,718)
UVA-adaptive	139,262 (113,395- 191,855)	1,053,695 (1,025,372- 1,215,578)

Total hospitalizations (those aged 0-64) - low immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	63,399 (19,532-123,674)	292,403 (72,449-497,506)
CFA-Scenarios	40,833 (36,482- 63,270)	192,350 (162,966-249,645)
JHU_UNC-flepiMoP	77,348 (55,996-109,841)	445,054 (380,544-496,932)
MOBS_NEU-GLEAM_COVID	37,478 (18,598- 70,704)	265,578 (180,755-351,283)
NotreDame-FRED	105,944 (82,264-129,258)	292,253 (267,445-314,302)
PSI-PROF	96,956 (51,322-170,565)	324,374 (200,930-543,076)
UNCC-hierbin	22,610 (15,795- 31,966)	164,381 (148,366-183,688)
USC-SIkJalpha	26,031 (19,272- 32,061)	81,409 (64,816- 99,929)
UTA-ImmunoSEIRS	94,531 (69,967-122,907)	390,545 (318,275-461,794)
UVA-adaptive	69,653 (56,233- 95,846)	491,362 (478,762-563,936)
Booster for high-risk - High immune escape		
Ensemble	63,382 (21,106-124,936)	298,022 (74,338-517,640)
CFA-Scenarios	40,835 (36,485- 63,273)	202,832 (173,245-259,201)
JHU_UNC-flepiMoP	77,229 (55,955-109,945)	466,685 (398,519-523,377)
MOBS_NEU-GLEAM_COVID	37,488 (18,604- 70,723)	275,130 (191,379-359,469)
NotreDame-FRED	105,649 (82,639-128,908)	294,986 (271,563-317,737)
PSI-PROF	96,956 (52,222-171,150)	348,574 (212,166-586,604)
UNCC-hierbin	35,198 (26,745- 47,400)	211,584 (189,046-239,208)
USC-SIkJalpha	25,946 (19,272- 32,109)	83,693 (66,614-103,307)
UTA-ImmunoSEIRS	92,236 (67,684-125,148)	417,295 (336,422-470,702)
UVA-adaptive	69,686 (56,260- 95,891)	508,166 (494,775-584,868)
No booster - High immune escape		
Ensemble	63,383 (21,073-123,488)	310,736 (74,628-549,567)
CFA-Scenarios	40,836 (36,485- 63,274)	208,074 (177,928-263,432)
JHU_UNC-flepiMoP	77,229 (55,955-109,945)	493,173 (422,464-555,430)
MOBS_NEU-GLEAM_COVID	37,507 (18,625- 70,784)	310,694 (232,482-393,369)
NotreDame-FRED	103,728 (80,548-126,036)	294,556 (269,650-315,180)
PSI-PROF	96,956 (52,504-172,385)	404,007 (245,869-686,424)
UNCC-hierbin	36,486 (26,831- 48,925)	255,976 (230,422-286,423)
USC-SIkJalpha	25,943 (19,272- 31,953)	83,521 (66,671-104,337)
UTA-ImmunoSEIRS	98,366 (75,496-125,693)	418,511 (346,681-494,685)
UVA-adaptive	69,568 (56,166- 95,731)	522,652 (508,185-602,952)

Total hospitalizations (those aged 65+) - low immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	68,405 (21,845-151,031)	333,430 (147,527-636,574)
CFA-Scenarios	75,402 (68,102-116,038)	357,201 (304,735-475,357)
JHU_UNC-flepiMoP	55,009 (38,196- 77,704)	324,049 (277,340-360,708)
MOBS_NEU-GLEAM_COVID	74,762 (36,004-144,908)	514,140 (347,241-701,262)
NotreDame-FRED	60,522 (43,006- 72,264)	179,700 (159,014-200,174)
PSI-PROF	117,570 (65,448-202,736)	375,712 (232,115-633,663)
UNCC-hierbin	22,812 (16,992- 31,099)	150,873 (132,786-166,194)
USC-SIkJalpha	106,920 (83,919-129,826)	222,793 (184,579-267,052)
UTA-ImmunoSEIRS	123,525 (91,032-158,248)	402,083 (336,521-464,448)
UVA-adaptive	68,688 (56,005- 94,040)	479,174 (467,223-549,040)
Booster for high-risk - High immune escape		
Ensemble	68,282 (22,377-151,618)	345,113 (168,219-651,107)
CFA-Scenarios	75,405 (68,104-116,043)	365,251 (313,968-484,432)
JHU_UNC-flepiMoP	54,941 (38,085- 77,730)	336,418 (287,078-375,890)
MOBS_NEU-GLEAM_COVID	74,753 (35,999-144,893)	529,521 (365,595-715,350)
NotreDame-FRED	60,508 (43,042- 72,162)	180,522 (159,948-200,450)
PSI-PROF	117,614 (66,409-207,163)	393,624 (242,213-663,007)
UNCC-hierbin	23,221 (18,008- 33,186)	181,084 (161,830-201,075)
USC-SIkJalpha	107,014 (83,922-129,863)	223,380 (186,092-267,890)
UTA-ImmunoSEIRS	121,209 (86,880-162,588)	413,127 (347,149-466,158)
UVA-adaptive	68,076 (55,509- 93,224)	481,916 (470,398-553,285)
No booster - High immune escape		
Ensemble	68,990 (34,954-154,429)	402,372 (176,928-772,854)
CFA-Scenarios	75,407 (68,106-116,046)	410,813 (356,138-529,698)
JHU_UNC-flepiMoP	54,941 (38,085- 77,730)	396,265 (336,052-443,840)
MOBS_NEU-GLEAM_COVID	74,806 (36,062-145,047)	633,159 (467,647-822,227)
NotreDame-FRED	62,238 (43,639- 73,959)	187,328 (166,628-207,812)
PSI-PROF	117,604 (64,561-203,261)	540,778 (335,092-917,495)
UNCC-hierbin	38,148 (30,040- 51,102)	325,127 (289,011-360,208)
USC-SIkJalpha	106,808 (83,917-129,804)	259,666 (215,590-311,985)
UTA-ImmunoSEIRS	127,494 (96,992-164,849)	426,435 (360,470-502,033)
UVA-adaptive	70,192 (57,229- 96,125)	531,043 (517,187-612,626)

Total hospitalizations (total populatuon) - high immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	134,750 (54,489- 264,867)	685,106 (273,674-1,007,652)
CFA-Scenarios	116,249 (104,549- 179,307)	547,232 (469,542- 725,834)
JHU_UNC-flepiMoP	132,502 (93,826- 188,136)	768,850 (653,726- 857,576)
MOBS_NEU-GLEAM_COVID	112,149 (54,607- 215,315)	779,122 (527,996-1,052,304)
NotreDame-FRED	165,768 (125,134- 201,545)	472,330 (426,988- 511,077)
PSI-PROF	214,639 (115,984- 371,033)	701,462 (440,940-1,167,954)
UNCC-hierbin	58,097 (43,750- 77,657)	363,904 (320,693- 404,261)
USC-SIkJalpha	132,798 (103,200- 161,351)	303,580 (249,377- 370,789)
UTA-ImmunoSEIRS	217,458 (161,504- 280,741)	787,361 (654,670- 925,523)
UVA-adaptive	137,824 (112,238- 189,886)	970,866 (946,004-1,112,906)
Booster for high-risk - High immune escape		
Ensemble	134,822 (55,621- 264,535)	714,273 (275,933-1,040,847)
CFA-Scenarios	116,255 (104,554- 179,315)	567,526 (488,808- 744,134)
JHU_UNC-flepiMoP	132,285 (93,659- 188,199)	805,139 (680,589- 897,744)
MOBS_NEU-GLEAM_COVID	112,149 (54,608- 215,319)	804,475 (556,974-1,074,767)
NotreDame-FRED	165,200 (124,831- 201,292)	476,510 (430,315- 515,745)
PSI-PROF	214,639 (115,090- 367,832)	743,202 (467,421-1,252,560)
UNCC-hierbin	59,618 (45,485- 80,410)	438,092 (395,823- 483,613)
USC-SIkJalpha	132,856 (103,205- 161,466)	307,566 (252,523- 372,799)
UTA-ImmunoSEIRS	213,445 (154,564- 286,799)	830,620 (683,712- 933,146)
UVA-adaptive	137,247 (111,769- 189,115)	989,689 (965,369- 1,138,030)
No booster - High immune escape		
Ensemble	134,814 (56,234- 266,325)	807,744 (307,517-1,200,070)
CFA-Scenarios	116,258 (104,557- 179,320)	618,774 (534,066- 793,555)
JHU_UNC-flepiMoP	132,285 (93,659- 188,199)	890,093 (752,482- 997,588)
MOBS_NEU-GLEAM_COVID	112,210 (54,692- 215,522)	944,439 (700,129-1,215,606)
NotreDame-FRED	165,219 (123,604- 199,517)	481,904 (435,057- 520,310)
PSI-PROF	214,639 (119,362- 372,883)	945,515 (589,760- 1,602,945)
UNCC-hierbin	60,604 (45,774- 81,746)	487,152 (442,426- 540,752)
USC-SIkJalpha	132,423 (103,200- 161,319)	343,801 (281,740- 420,204)
UTA-ImmunoSEIRS	226,513 (172,488- 289,615)	841,031 (707,152- 996,718)
UVA-adaptive	139,262 (113,395- 191,855)	1,053,695 (1,025,372- 1,215,578)

Total hospitalizations (those aged 0-64) - high immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	63,399 (19,532-123,674)	292,403 (72,449-497,506)
CFA-Scenarios	40,833 (36,482- 63,270)	192,350 (162,966-249,645)
JHU_UNC-flepiMoP	77,348 (55,996-109,841)	445,054 (380,544-496,932)
MOBS_NEU-GLEAM_COVID	37,478 (18,598- 70,704)	265,578 (180,755-351,283)
NotreDame-FRED	105,944 (82,264-129,258)	292,253 (267,445-314,302)
PSI-PROF	96,956 (51,322-170,565)	324,374 (200,930-543,076)
UNCC-hierbin	22,610 (15,795- 31,966)	164,381 (148,366-183,688)
USC-SIkJalpha	26,031 (19,272- 32,061)	81,409 (64,816- 99,929)
UTA-ImmunoSEIRS	94,531 (69,967-122,907)	390,545 (318,275-461,794)
UVA-adaptive	69,653 (56,233- 95,846)	491,362 (478,762-563,936)
Booster for high-risk - High immune escape		
Ensemble	63,382 (21,106-124,936)	298,022 (74,338-517,640)
CFA-Scenarios	40,835 (36,485- 63,273)	202,832 (173,245-259,201)
JHU_UNC-flepiMoP	77,229 (55,955-109,945)	466,685 (398,519-523,377)
MOBS_NEU-GLEAM_COVID	37,488 (18,604- 70,723)	275,130 (191,379-359,469)
NotreDame-FRED	105,649 (82,639-128,908)	294,986 (271,563-317,737)
PSI-PROF	96,956 (52,222-171,150)	348,574 (212,166-586,604)
UNCC-hierbin	35,198 (26,745- 47,400)	211,584 (189,046-239,208)
USC-SIkJalpha	25,946 (19,272- 32,109)	83,693 (66,614-103,307)
UTA-ImmunoSEIRS	92,236 (67,684-125,148)	417,295 (336,422-470,702)
UVA-adaptive	69,686 (56,260- 95,891)	508,166 (494,775-584,868)
No booster - High immune escape		
Ensemble	63,383 (21,073-123,488)	310,736 (74,628-549,567)
CFA-Scenarios	40,836 (36,485- 63,274)	208,074 (177,928-263,432)
JHU_UNC-flepiMoP	77,229 (55,955-109,945)	493,173 (422,464-555,430)
MOBS_NEU-GLEAM_COVID	37,507 (18,625- 70,784)	310,694 (232,482-393,369)
NotreDame-FRED	103,728 (80,548-126,036)	294,556 (269,650-315,180)
PSI-PROF	96,956 (52,504-172,385)	404,007 (245,869-686,424)
UNCC-hierbin	36,486 (26,831- 48,925)	255,976 (230,422-286,423)
USC-SIkJalpha	25,943 (19,272- 31,953)	83,521 (66,671-104,337)
UTA-ImmunoSEIRS	98,366 (75,496-125,693)	418,511 (346,681-494,685)
UVA-adaptive	69,568 (56,166- 95,731)	522,652 (508,185-602,952)

Total hospitalizations (those aged 65+) - high immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	68,405 (21,845-151,031)	333,430 (147,527-636,574)
CFA-Scenarios	75,402 (68,102-116,038)	357,201 (304,735-475,357)
JHU_UNC-flepiMoP	55,009 (38,196- 77,704)	324,049 (277,340-360,708)
MOBS_NEU-GLEAM_COVID	74,762 (36,004-144,908)	514,140 (347,241-701,262)
NotreDame-FRED	60,522 (43,006- 72,264)	179,700 (159,014-200,174)
PSI-PROF	117,570 (65,448-202,736)	375,712 (232,115-633,663)
UNCC-hierbin	22,812 (16,992- 31,099)	150,873 (132,786-166,194)
USC-SIkJalpha	106,920 (83,919-129,826)	222,793 (184,579-267,052)
UTA-ImmunoSEIRS	123,525 (91,032-158,248)	402,083 (336,521-464,448)
UVA-adaptive	68,688 (56,005- 94,040)	479,174 (467,223-549,040)
Booster for high-risk - High immune escape		
Ensemble	68,282 (22,377-151,618)	345,113 (168,219-651,107)
CFA-Scenarios	75,405 (68,104-116,043)	365,251 (313,968-484,432)
JHU_UNC-flepiMoP	54,941 (38,085- 77,730)	336,418 (287,078-375,890)
MOBS_NEU-GLEAM_COVID	74,753 (35,999-144,893)	529,521 (365,595-715,350)
NotreDame-FRED	60,508 (43,042- 72,162)	180,522 (159,948-200,450)
PSI-PROF	117,614 (66,409-207,163)	393,624 (242,213-663,007)
UNCC-hierbin	23,221 (18,008- 33,186)	181,084 (161,830-201,075)
USC-SIkJalpha	107,014 (83,922-129,863)	223,380 (186,092-267,890)
UTA-ImmunoSEIRS	121,209 (86,880-162,588)	413,127 (347,149-466,158)
UVA-adaptive	68,076 (55,509- 93,224)	481,916 (470,398-553,285)
No booster - High immune escape		
Ensemble	68,990 (34,954-154,429)	402,372 (176,928-772,854)
CFA-Scenarios	75,407 (68,106-116,046)	410,813 (356,138-529,698)
JHU_UNC-flepiMoP	54,941 (38,085- 77,730)	396,265 (336,052-443,840)
MOBS_NEU-GLEAM_COVID	74,806 (36,062-145,047)	633,159 (467,647-822,227)
NotreDame-FRED	62,238 (43,639- 73,959)	187,328 (166,628-207,812)
PSI-PROF	117,604 (64,561-203,261)	540,778 (335,092-917,495)
UNCC-hierbin	38,148 (30,040- 51,102)	325,127 (289,011-360,208)
USC-SIkJalpha	106,808 (83,917-129,804)	259,666 (215,590-311,985)
UTA-ImmunoSEIRS	127,494 (96,992-164,849)	426,435 (360,470-502,033)
UVA-adaptive	70,192 (57,229- 96,125)	531,043 (517,187-612,626)

Total seasonal deaths, by model, scenario, and age group

Total deaths (total population) - low immune escape		
Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	8,939 (3,806- 19,651)	48,652 (11,778-107,789)
CFA-Scenarios	8,981 (8,179- 13,118)	47,253 (40,557- 62,342)
JHU_UNC-flepiMoP	14,592 (8,536- 22,609)	94,927 (80,724-118,148)
MOBS_NEU-GLEAM_COVID	10,594 (5,585- 19,293)	64,249 (42,266- 87,668)
NotreDame-FRED	9,394 (7,325- 12,257)	33,849 (26,370- 41,897)
PSI-PROF	12,409 (6,371- 22,428)	46,051 (28,678- 76,979)
UNCC-hierbin	4,174 (3,038- 6,549)	24,332 (19,519- 29,715)
USC-SIkJalpha	5,611 (3,922- 7,600)	13,985 (9,898- 19,518)
UTA-ImmunoSEIRS	5,386 (4,554- 6,321)	17,309 (14,936- 19,838)
UVA-adaptive	7,515 (6,137- 10,350)	72,897 (71,300- 83,328)
Booster for high-risk - High immune escape		
Ensemble	8,950 (3,847- 19,628)	50,613 (11,787-112,114)
CFA-Scenarios	8,981 (8,179- 13,119)	48,161 (41,924- 63,743)
JHU_UNC-flepiMoP	14,553 (8,523- 22,572)	98,274 (83,884-122,495)
MOBS_NEU-GLEAM_COVID	10,594 (5,585- 19,293)	66,290 (44,664- 89,475)
NotreDame-FRED	9,430 (7,367- 12,206)	34,299 (26,624- 42,512)
PSI-PROF	12,411 (6,265- 22,235)	48,383 (30,217- 81,832)
UNCC-hierbin	4,270 (3,127- 6,609)	29,128 (23,523- 35,116)
USC-SIkJalpha	5,608 (3,932- 7,598)	14,024 (9,898- 19,576)
UTA-ImmunoSEIRS	5,339 (4,483- 6,413)	17,828 (14,895- 20,270)
UVA-adaptive	7,514 (6,136- 10,345)	74,157 (72,428- 84,868)
No booster - High immune escape		
Ensemble	8,837 (3,868- 19,646)	61,744 (13,112-129,556)
CFA-Scenarios	8,982 (8,179- 13,119)	53,432 (46,645- 69,174)
JHU_UNC-flepiMoP	14,553 (8,523- 22,572)	113,425 (97,413-141,253)
MOBS_NEU-GLEAM_COVID	10,600 (5,588- 19,305)	79,195 (57,212-102,352)
NotreDame-FRED	9,023 (7,109- 11,817)	34,174 (26,755- 42,576)
PSI-PROF	12,406 (6,556- 22,550)	64,039 (39,706-108,958)
UNCC-hierbin	4,392 (3,188- 6,851)	32,536 (26,394- 38,921)
USC-SIkJalpha	5,598 (3,872- 7,598)	15,696 (11,068- 21,876)
UTA-ImmunoSEIRS	5,546 (4,673- 6,594)	21,003 (18,026- 25,237)
UVA-adaptive	7,516 (6,137- 10,356)	78,691 (76,841- 90,554)

Total deaths (those aged 0-64) - low immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	1,033 (161- 3,043)	6,369 (569-15,178)
CFA-Scenarios	1,086 (979- 1,605)	5,578 (4,795- 7,343)
JHU_UNC-flepiMoP	2,090 (1,279- 3,251)	13,327 (11,514-16,716)
MOBS_NEU-GLEAM_COVID	1,031 (552- 1,829)	6,342 (4,198- 8,445)
NotreDame-FRED	821 (463- 1,380)	4,005 (2,621- 5,413)
PSI-PROF	2,369 (1,186- 4,357)	9,121 (5,627-15,239)
UNCC-hierbin	1,198 (810- 2,105)	8,063 (6,209- 9,735)
USC-SIkJalpha	407 (269- 557)	1,357 (929- 1,916)
UTA-ImmunoSEIRS	167 (143- 192)	582 (489- 685)
UVA-adaptive	873 (703- 1,206)	8,552 (8,355- 9,784)
Booster for high-risk - High immune escape		
Ensemble	1,049 (163- 3,063)	6,681 (637-15,809)
CFA-Scenarios	1,086 (979- 1,605)	5,902 (5,101- 7,653)
JHU_UNC-flepiMoP	2,087 (1,277- 3,247)	13,822 (11,973-17,377)
MOBS_NEU-GLEAM_COVID	1,032 (552- 1,830)	6,563 (4,463- 8,655)
NotreDame-FRED	812 (469- 1,372)	4,141 (2,763- 5,566)
PSI-PROF	2,369 (1,212- 4,381)	9,772 (5,929-16,429)
UNCC-hierbin	1,778 (1,230- 3,183)	10,212 (8,342-12,892)
USC-SIkJalpha	404 (269- 557)	1,382 (949- 1,949)
UTA-ImmunoSEIRS	166 (142- 195)	665 (528- 765)
UVA-adaptive	873 (703- 1,206)	8,828 (8,619-10,131)
No booster - High immune escape		
Ensemble	1,062 (166- 3,064)	7,518 (677-17,012)
CFA-Scenarios	1,086 (979- 1,605)	6,073 (5,266- 7,826)
JHU_UNC-flepiMoP	2,087 (1,277- 3,247)	14,810 (12,896-18,606)
MOBS_NEU-GLEAM_COVID	1,031 (552- 1,830)	7,551 (5,528- 9,564)
NotreDame-FRED	860 (504- 1,422)	4,312 (2,897- 5,774)
PSI-PROF	2,369 (1,224- 4,406)	11,305 (6,870-19,192)
UNCC-hierbin	1,834 (1,344- 2,952)	11,859 (9,904-14,747)
USC-SIkJalpha	404 (269- 556)	1,386 (948- 1,957)
UTA-ImmunoSEIRS	172 (148- 201)	689 (575- 833)
UVA-adaptive	873 (703- 1,206)	9,082 (8,865-10,452)

Total deaths (those aged 65+) - low immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	7,644 (2,188- 16,972)	42,159 (10,560- 92,611)
CFA-Scenarios	7,900 (7,184- 11,514)	41,631 (35,691- 54,961)
JHU_UNC-flepiMoP	12,519 (7,257- 19,369)	81,634 (69,121-101,693)
MOBS_NEU-GLEAM_COVID	9,553 (5,040- 17,464)	57,896 (38,063- 79,224)
NotreDame-FRED	7,408 (5,818- 9,654)	27,040 (21,123- 33,462)
PSI-PROF	10,036 (5,382- 17,994)	36,894 (22,797- 62,004)
UNCC-hierbin	2,300 (1,703- 3,378)	14,040 (11,041- 17,568)
USC-SIkJalpha	5,212 (3,656- 7,042)	12,606 (8,977- 17,543)
UTA-ImmunoSEIRS	5,218 (4,411- 6,130)	16,724 (14,451- 19,155)
UVA-adaptive	6,641 (5,434- 9,144)	64,339 (62,945- 73,544)
Booster for high-risk - High immune escape		
Ensemble	7,657 (2,132- 16,981)	43,877 (10,655- 96,305)
CFA-Scenarios	7,900 (7,185- 11,514)	42,394 (36,756- 56,091)
JHU_UNC-flepiMoP	12,488 (7,246- 19,337)	84,434 (71,833-105,408)
MOBS_NEU-GLEAM_COVID	9,552 (5,040- 17,464)	59,707 (40,201- 80,819)
NotreDame-FRED	7,426 (5,804- 9,594)	27,382 (21,188- 33,829)
PSI-PROF	10,036 (5,479- 18,422)	38,571 (23,745- 64,770)
UNCC-hierbin	2,295 (1,682- 3,691)	17,056 (13,169- 21,888)
USC-SIkJalpha	5,207 (3,666- 7,039)	12,625 (8,953- 17,567)
UTA-ImmunoSEIRS	5,172 (4,340- 6,216)	17,161 (14,366- 19,506)
UVA-adaptive	6,638 (5,433- 9,139)	65,325 (63,812- 74,737)
No booster - High immune escape		
Ensemble	7,544 (2,929- 16,972)	53,724 (11,983-112,804)
CFA-Scenarios	7,900 (7,185- 11,514)	47,384 (41,397- 61,347)
JHU_UNC-flepiMoP	12,488 (7,246- 19,337)	98,752 (84,469-122,916)
MOBS_NEU-GLEAM_COVID	9,558 (5,043- 17,475)	71,659 (51,700- 92,787)
NotreDame-FRED	7,012 (5,506- 9,090)	27,120 (21,006- 33,609)
PSI-PROF	10,034 (5,288- 18,048)	52,676 (32,599- 89,190)
UNCC-hierbin	3,061 (2,338- 5,011)	24,287 (19,519- 30,418)
USC-SIkJalpha	5,186 (3,609- 7,040)	14,288 (10,120- 19,861)
UTA-ImmunoSEIRS	5,375 (4,525- 6,395)	20,315 (17,453- 24,399)
UVA-adaptive	6,646 (5,434- 9,150)	69,611 (67,977- 80,102)

Total deaths (total population) - high immune escape

Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	8,939 (3,806- 19,651)	48,652 (11,778-107,789)
CFA-Scenarios	8,981 (8,179- 13,118)	47,253 (40,557- 62,342)
JHU_UNC-flepiMoP	14,592 (8,536- 22,609)	94,927 (80,724-118,148)
MOBS_NEU-GLEAM_COVID	10,594 (5,585- 19,293)	64,249 (42,266- 87,668)
NotreDame-FRED	9,394 (7,325- 12,257)	33,849 (26,370- 41,897)
PSI-PROF	12,409 (6,371- 22,428)	46,051 (28,678- 76,979)
UNCC-hierbin	4,174 (3,038- 6,549)	24,332 (19,519- 29,715)
USC-SIkJalpha	5,611 (3,922- 7,600)	13,985 (9,898- 19,518)
UTA-ImmunoSEIRS	5,386 (4,554- 6,321)	17,309 (14,936- 19,838)
UVA-adaptive	7,515 (6,137- 10,350)	72,897 (71,300- 83,328)
Booster for high-risk - High immune escape		
Ensemble	8,950 (3,847- 19,628)	50,613 (11,787-112,114)
CFA-Scenarios	8,981 (8,179- 13,119)	48,161 (41,924- 63,743)
JHU_UNC-flepiMoP	14,553 (8,523- 22,572)	98,274 (83,884-122,495)
MOBS_NEU-GLEAM_COVID	10,594 (5,585- 19,293)	66,290 (44,664- 89,475)
NotreDame-FRED	9,430 (7,367- 12,206)	34,299 (26,624- 42,512)
PSI-PROF	12,411 (6,265- 22,235)	48,383 (30,217- 81,832)
UNCC-hierbin	4,270 (3,127- 6,609)	29,128 (23,523- 35,116)
USC-SIkJalpha	5,608 (3,932- 7,598)	14,024 (9,898- 19,576)
UTA-ImmunoSEIRS	5,339 (4,483- 6,413)	17,828 (14,895- 20,270)
UVA-adaptive	7,514 (6,136- 10,345)	74,157 (72,428- 84,868)
No booster - High immune escape		
Ensemble	8,837 (3,868- 19,646)	61,744 (13,112-129,556)
CFA-Scenarios	8,982 (8,179- 13,119)	53,432 (46,645- 69,174)
JHU_UNC-flepiMoP	14,553 (8,523- 22,572)	113,425 (97,413-141,253)
MOBS_NEU-GLEAM_COVID	10,600 (5,588- 19,305)	79,195 (57,212-102,352)
NotreDame-FRED	9,023 (7,109- 11,817)	34,174 (26,755- 42,576)
PSI-PROF	12,406 (6,556- 22,550)	64,039 (39,706-108,958)
UNCC-hierbin	4,392 (3,188- 6,851)	32,536 (26,394- 38,921)
USC-SIkJalpha	5,598 (3,872- 7,598)	15,696 (11,068- 21,876)
UTA-ImmunoSEIRS	5,546 (4,673- 6,594)	21,003 (18,026- 25,237)
UVA-adaptive	7,516 (6,137- 10,356)	78,691 (76,841- 90,554)

Total deaths (those aged 0-64) - high immune escape

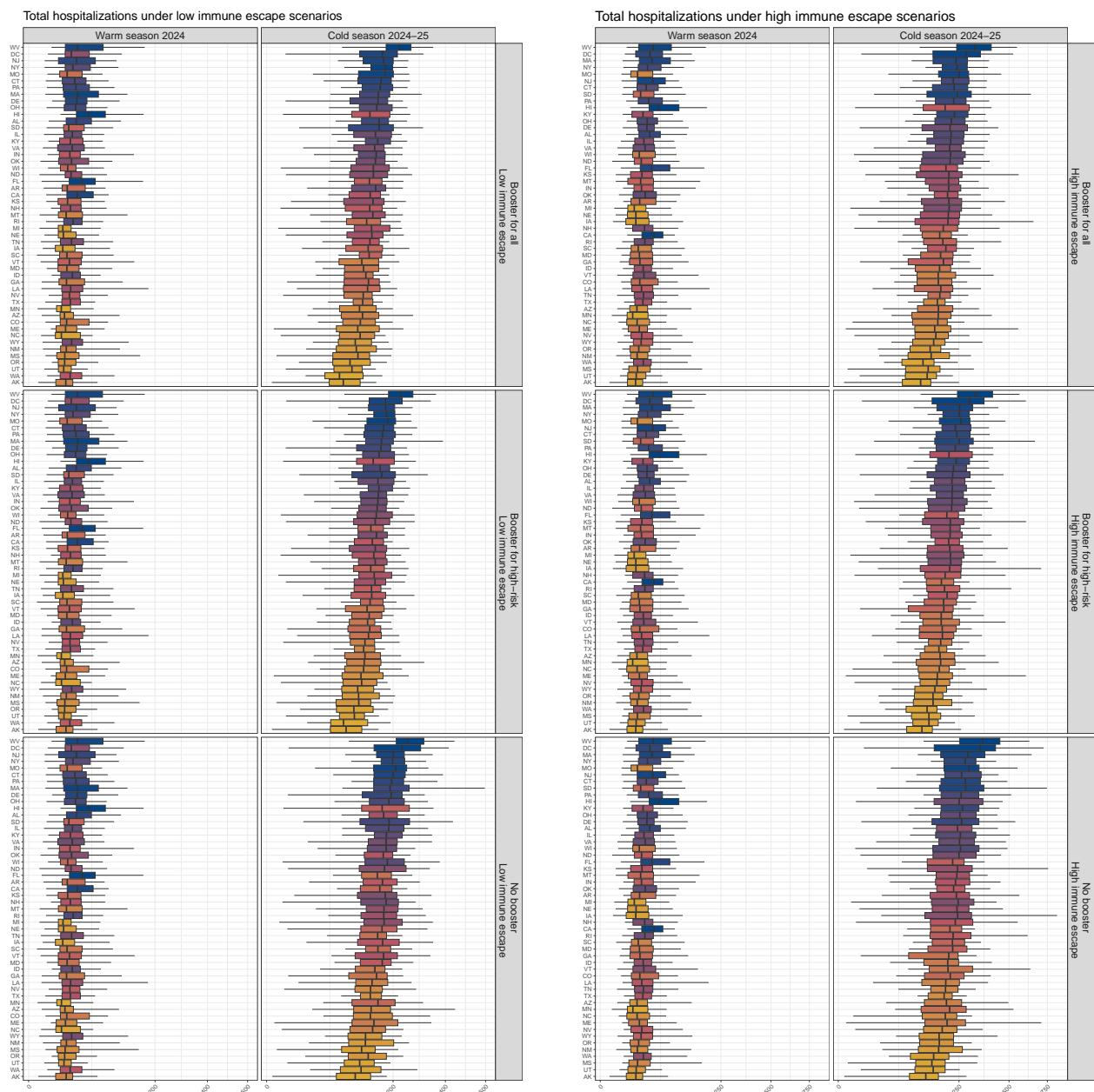
Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	1,033 (161- 3,043)	6,369 (569-15,178)
CFA-Scenarios	1,086 (979- 1,605)	5,578 (4,795- 7,343)
JHU_UNC-flepiMoP	2,090 (1,279- 3,251)	13,327 (11,514-16,716)
MOBS_NEU-GLEAM_COVID	1,031 (552- 1,829)	6,342 (4,198- 8,445)
NotreDame-FRED	821 (463- 1,380)	4,005 (2,621- 5,413)
PSI-PROF	2,369 (1,186- 4,357)	9,121 (5,627-15,239)
UNCC-hierbin	1,198 (810- 2,105)	8,063 (6,209- 9,735)
USC-SIkJalpha	407 (269- 557)	1,357 (929- 1,916)
UTA-ImmunoSEIRS	167 (143- 192)	582 (489- 685)
UVA-adaptive	873 (703- 1,206)	8,552 (8,355- 9,784)
Booster for high-risk - High immune escape		
Ensemble	1,049 (163- 3,063)	6,681 (637-15,809)
CFA-Scenarios	1,086 (979- 1,605)	5,902 (5,101- 7,653)
JHU_UNC-flepiMoP	2,087 (1,277- 3,247)	13,822 (11,973-17,377)
MOBS_NEU-GLEAM_COVID	1,032 (552- 1,830)	6,563 (4,463- 8,655)
NotreDame-FRED	812 (469- 1,372)	4,141 (2,763- 5,566)
PSI-PROF	2,369 (1,212- 4,381)	9,772 (5,929-16,429)
UNCC-hierbin	1,778 (1,230- 3,183)	10,212 (8,342-12,892)
USC-SIkJalpha	404 (269- 557)	1,382 (949- 1,949)
UTA-ImmunoSEIRS	166 (142- 195)	665 (528- 765)
UVA-adaptive	873 (703- 1,206)	8,828 (8,619-10,131)
No booster - High immune escape		
Ensemble	1,062 (166- 3,064)	7,518 (677-17,012)
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UTA-ImmunoSEIRS	172 (148- 201)	689 (575- 833)
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Total deaths (those aged 65+) - high immune escape

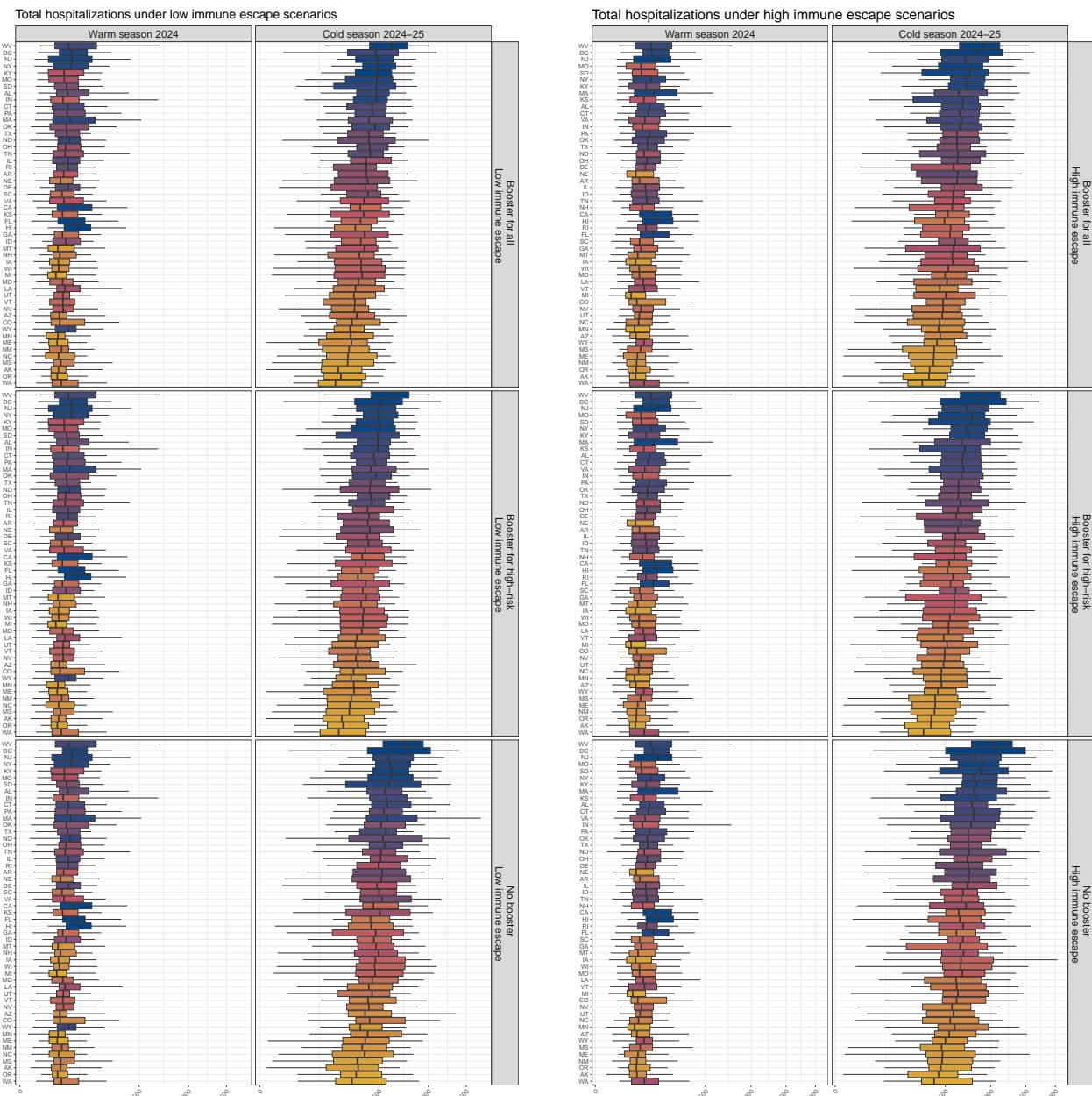
Model	Warm season 2024	Cold season 2024-25
Booster for all - High immune escape		
Ensemble	7,644 (2,188- 16,972)	42,159 (10,560- 92,611)
CFA-Scenarios	7,900 (7,184- 11,514)	41,631 (35,691- 54,961)
JHU_UNC-flepiMoP	12,519 (7,257- 19,369)	81,634 (69,121-101,693)
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Booster for high-risk - High immune escape		
Ensemble	7,657 (2,132- 16,981)	43,877 (10,655- 96,305)
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NotreDame-FRED	7,426 (5,804- 9,594)	27,382 (21,188- 33,829)
PSI-PROF	10,036 (5,479- 18,422)	38,571 (23,745- 64,770)
UNCC-hierbin	2,295 (1,682- 3,691)	17,056 (13,169- 21,888)
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UTA-ImmunoSEIRS	5,172 (4,340- 6,216)	17,161 (14,366- 19,506)
UVA-adaptive	6,638 (5,433- 9,139)	65,325 (63,812- 74,737)
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NotreDame-FRED	7,012 (5,506- 9,090)	27,120 (21,006- 33,609)
PSI-PROF	10,034 (5,288- 18,048)	52,676 (32,599- 89,190)
UNCC-hierbin	3,061 (2,338- 5,011)	24,287 (19,519- 30,418)
USC-SIkJalpha	5,186 (3,609- 7,040)	14,288 (10,120- 19,861)
UTA-ImmunoSEIRS	5,375 (4,525- 6,395)	20,315 (17,453- 24,399)
UVA-adaptive	6,646 (5,434- 9,150)	69,611 (67,977- 80,102)

Additional state-level seasonal plots

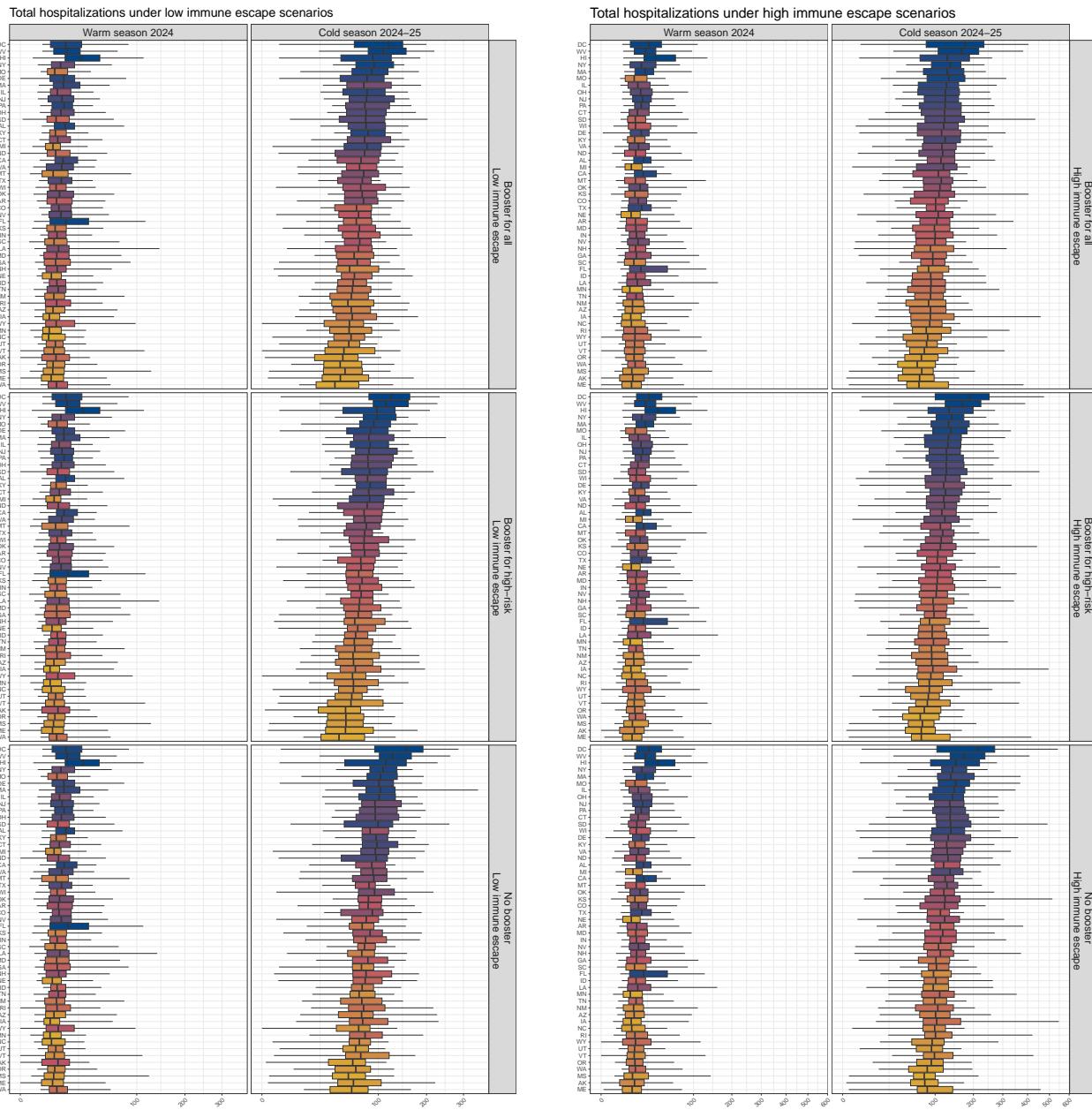
Total hospitalizations during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario.



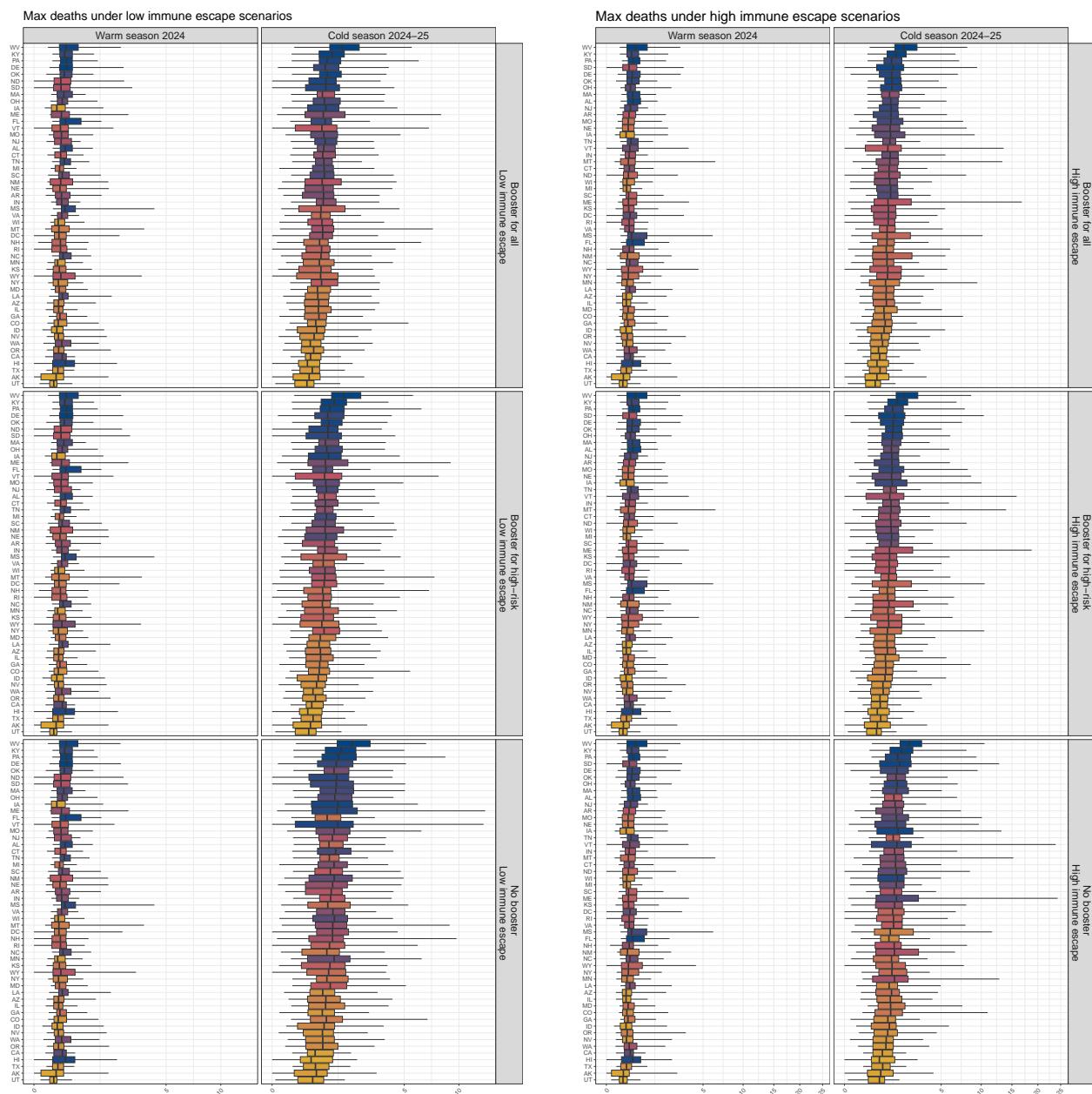
Total hospitalizations during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario, individuals aged 65 and over.



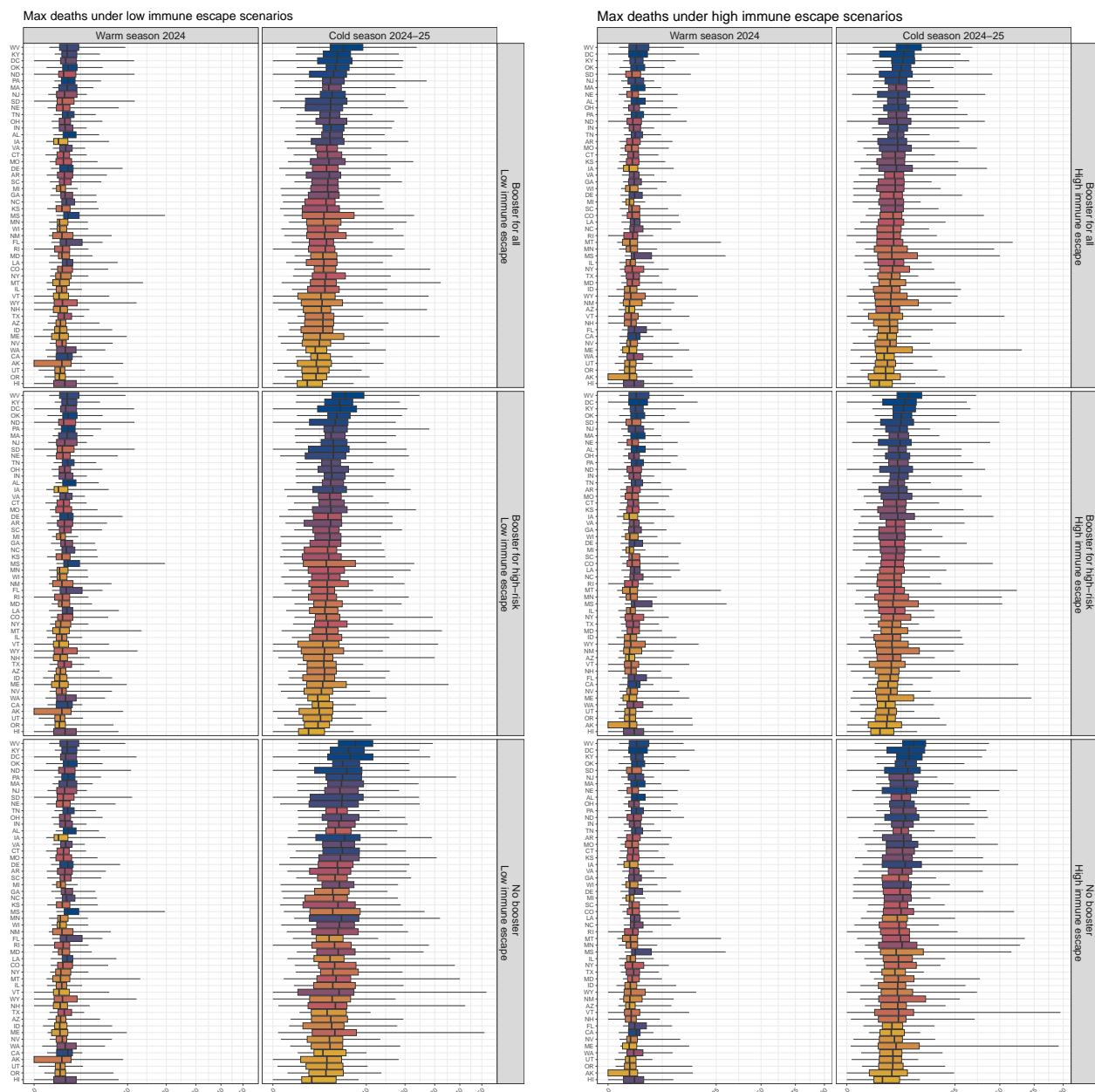
Total hospitalizations during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario, individuals aged 0-64.



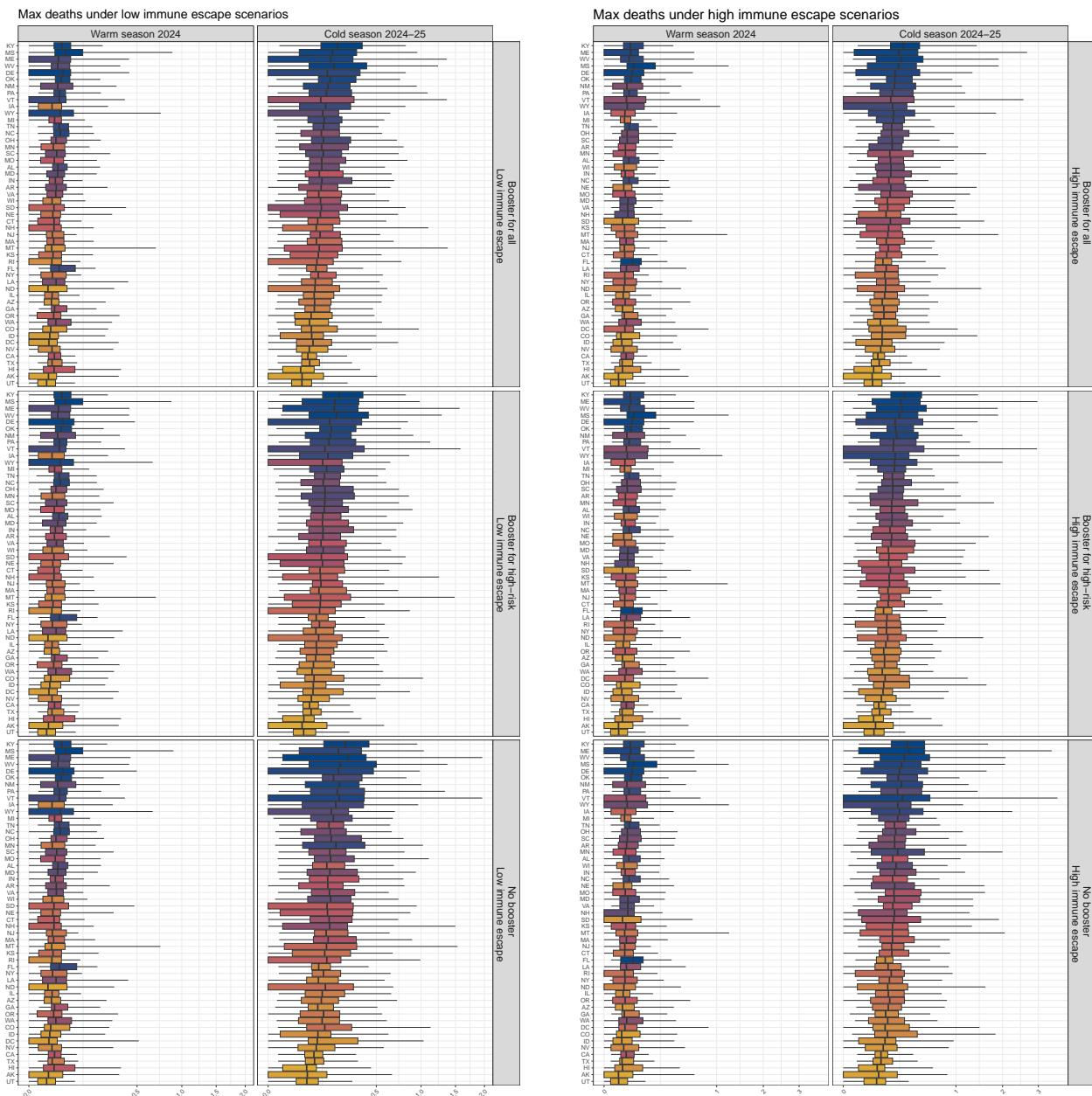
Max deaths during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario.



Max deaths during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario, individuals 65 and over.

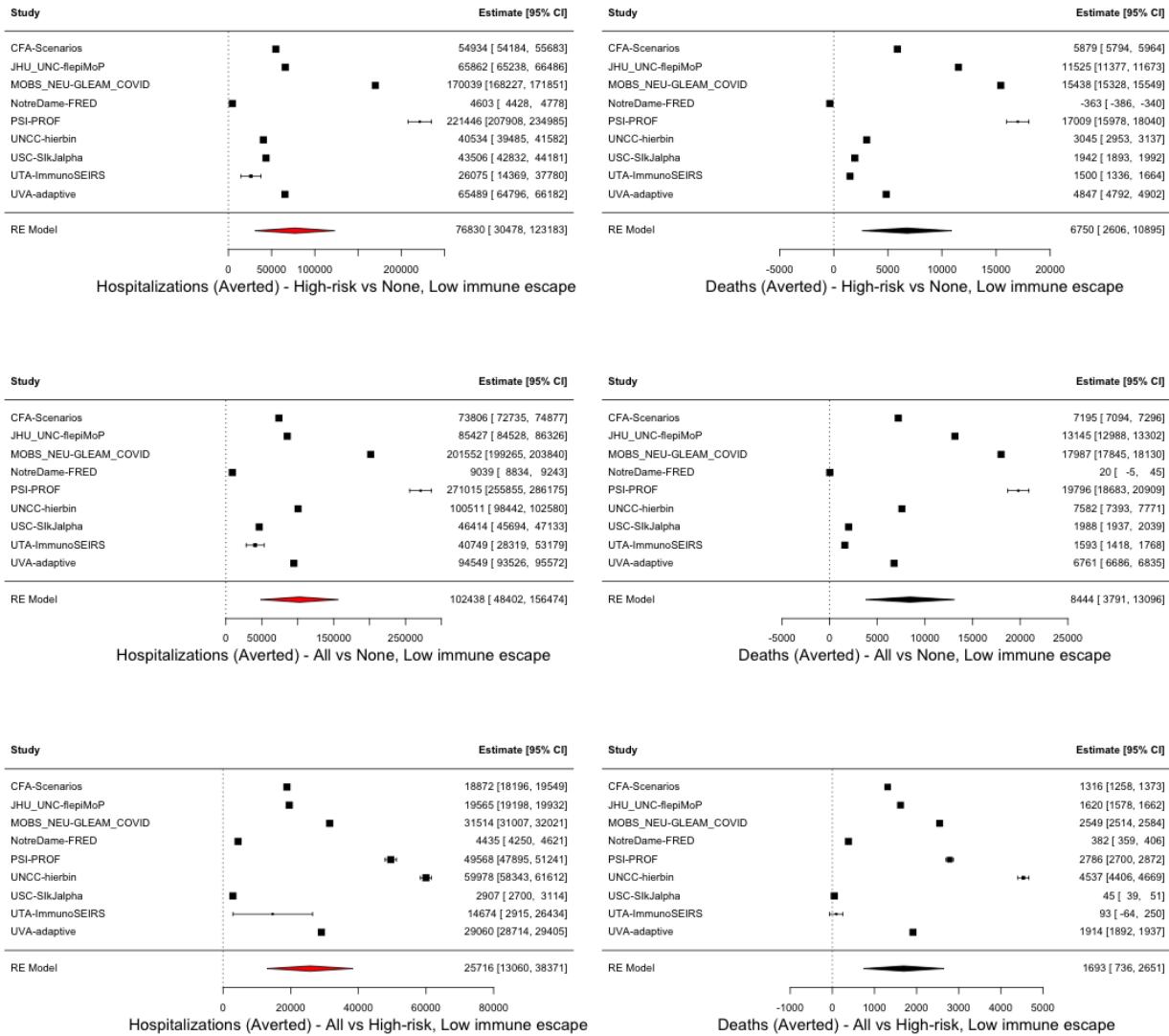


Max deaths during warm (Apr 15-Sep 1) and cold (Sep 2-Apr 26) seasons by immune escape scenario, individuals aged 0-64.

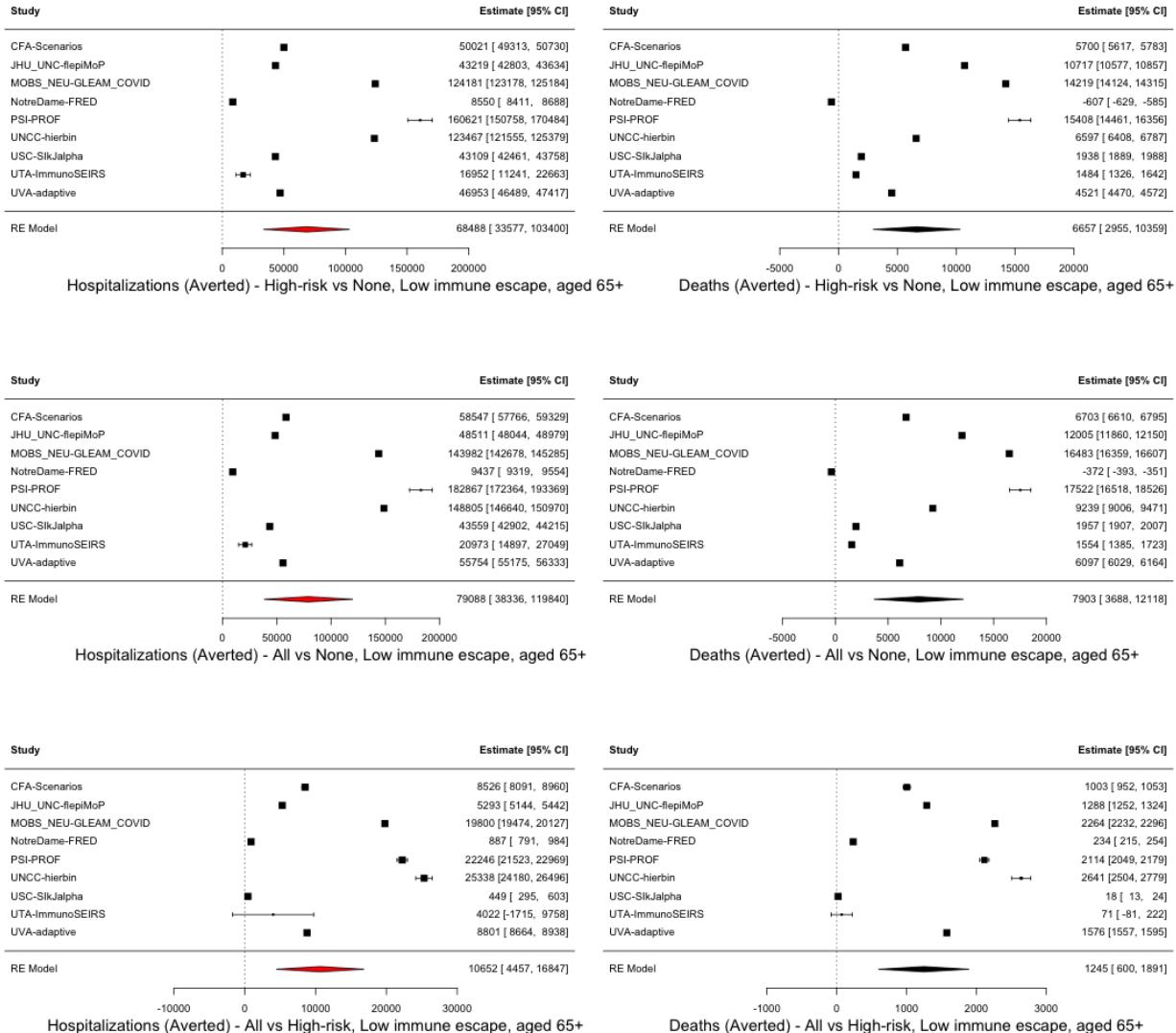


Additional differences between scenarios

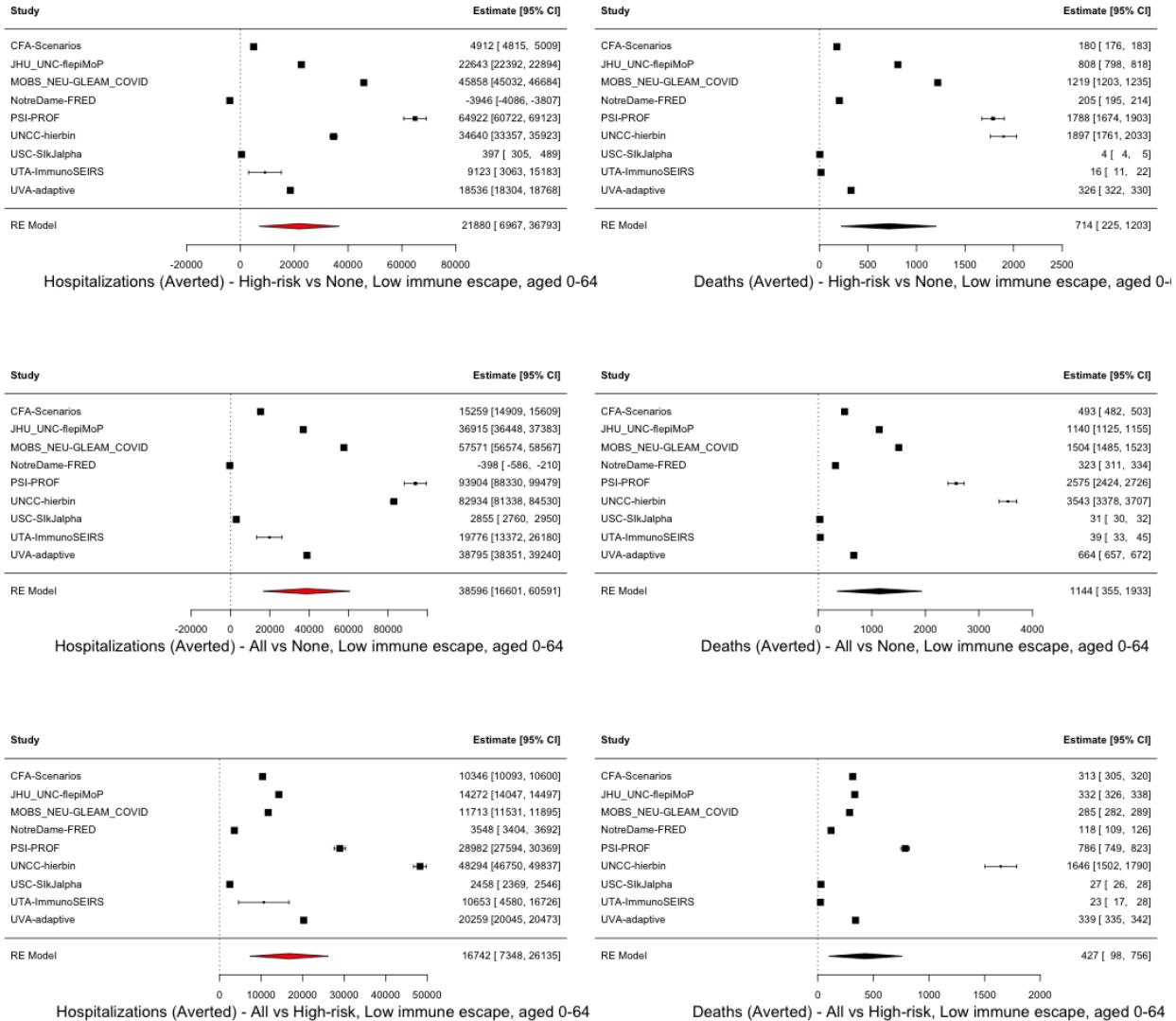
Absoulte differences between vaccination scenarios by individual model, low immune escape scenarios.



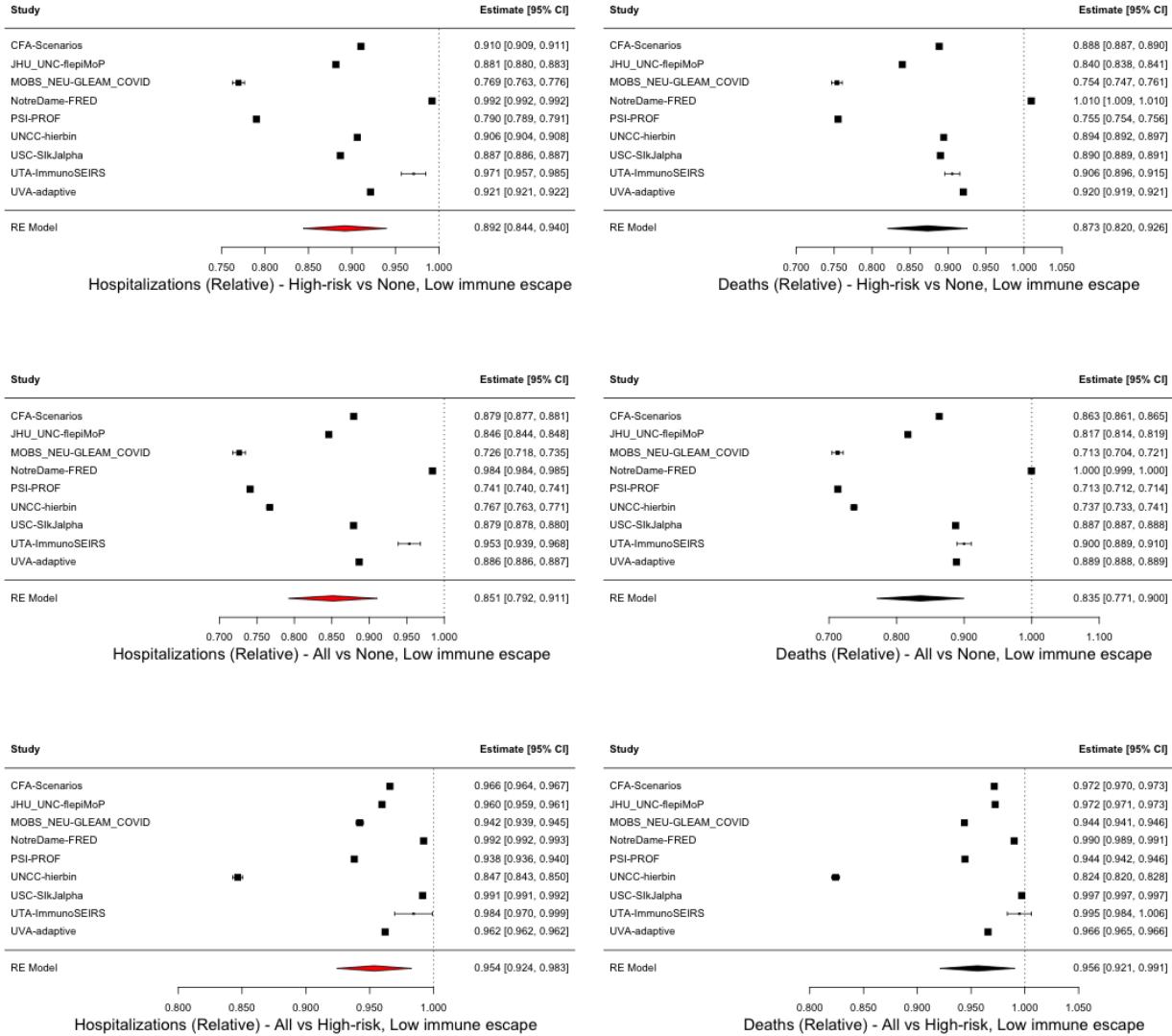
Absoulte differences between vaccination scenarios by individual model, low immune escape scenarios, individuals aged 65 and over.



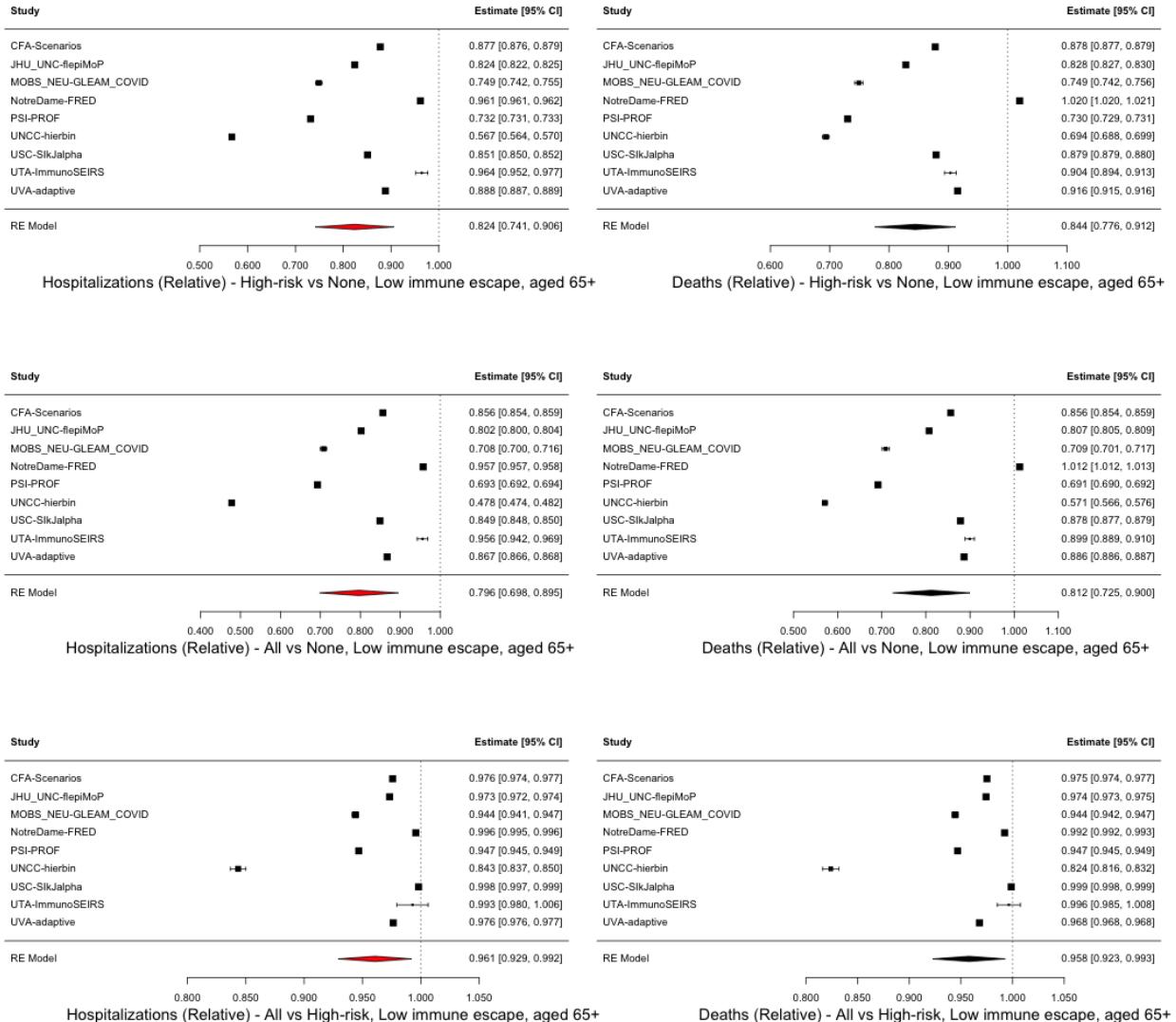
Absoulte differences between vaccination scenarios by individual model, low immune escape scenarios, individuals aged 0-64.



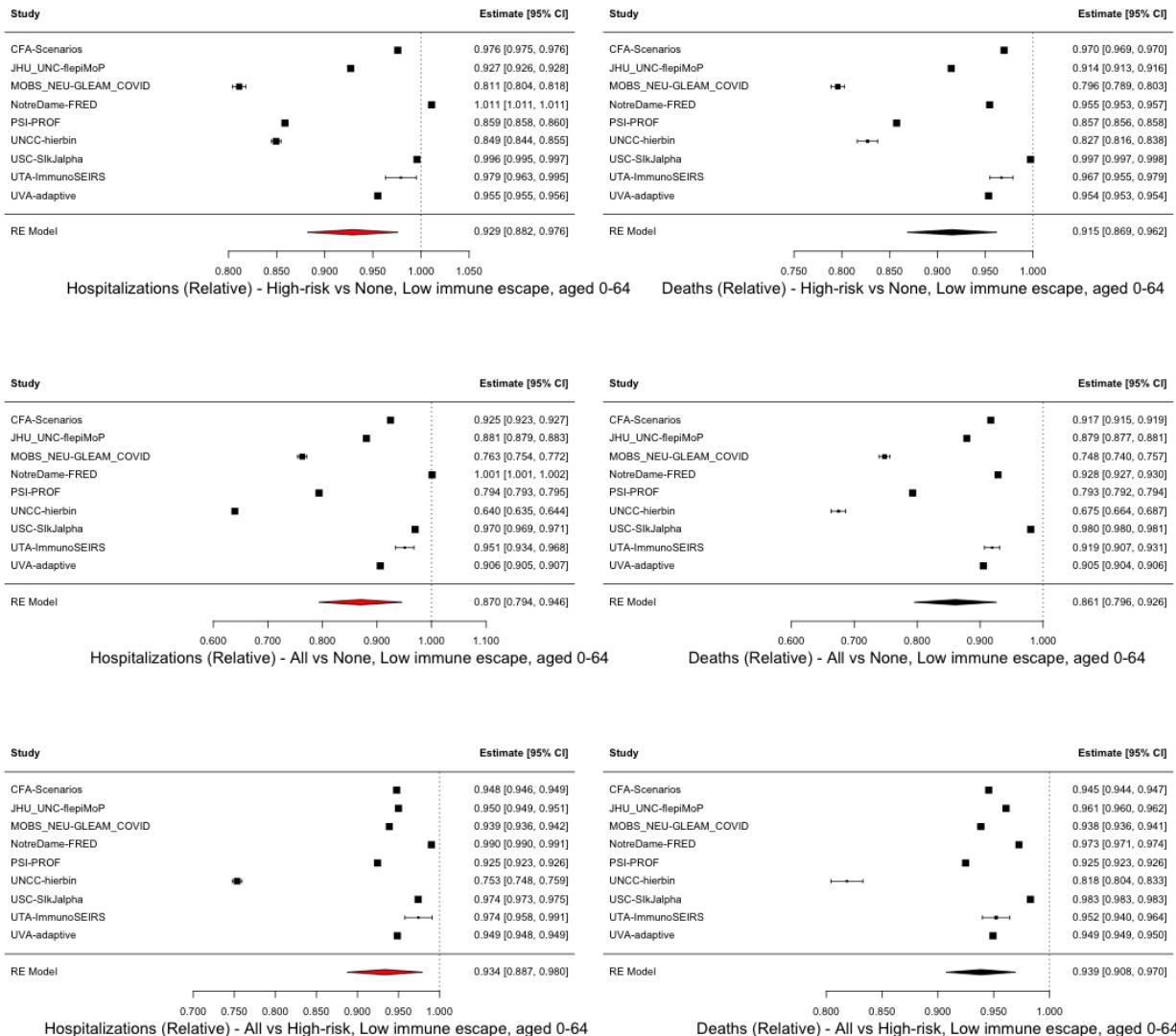
Relative differences between vaccination scenarios by individual model, low immune escape scenarios.



Relative differences between vaccination scenarios by individual model, low immune escape scenarios, individuals aged 65 and over.



Relative differences between vaccination scenarios by individual model, low immune escape scenarios, individuals aged 0-64.



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