

The graph displays the temporal evolution of four compartments: E (Exposed), I (Infected), H (Hospitalized), and C (Recovered/Deceased) under two modeling approaches: deterministic and stochastic. The x-axis represents time in days (0 to 200), and the y-axis represents the population count (0 to 80,000).

Deterministic Model (Solid Lines):

- deterministic - E (Blue):** Peaks at approximately 55,000 around day 100.
- deterministic - I (Orange):** Peaks at approximately 85,000 around day 100.
- deterministic - H (Green):** Peaks at approximately 12,000 around day 125.
- deterministic - C (Red):** Peaks at approximately 3,000 around day 125.

Stochastic Model (Solid Lines with Shaded Regions):

- stochastic - E (Blue):** Peaks at approximately 55,000 around day 100, with a shaded region indicating uncertainty.
- stochastic - I (Orange):** Peaks at approximately 85,000 around day 100, with a shaded region indicating uncertainty.
- stochastic - H (Green):** Peaks at approximately 12,000 around day 125, with a shaded region indicating uncertainty.
- stochastic - C (Red):** Peaks at approximately 3,000 around day 125, with a shaded region indicating uncertainty.

The stochastic model shows significant uncertainty, particularly for the E and I compartments, which exhibit large peaks and a wide range of possible outcomes. The H and C compartments show much lower peaks and less uncertainty.