

Analysis of neonatal mortality by gestational age in France, and comparison with EURO-PERISTAT countries

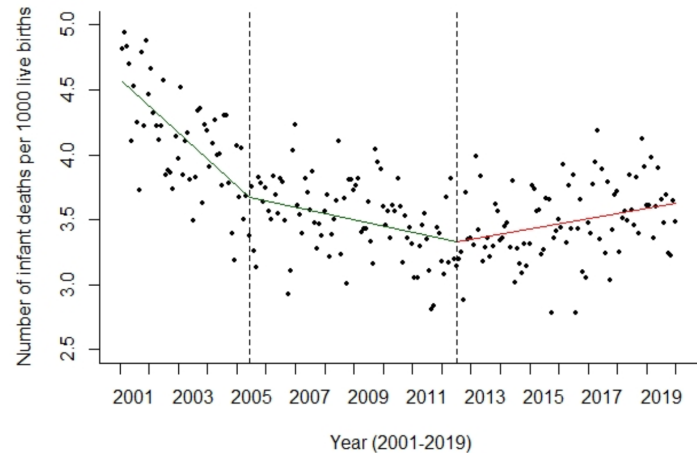
Rolduc, Netherlands

March 26th 2023



Background

Trinh et al. 2022



Historic increase of the neonatal mortality rate in France

Association GA & Neonatal death

Comparison of the distribution of GA of live births, stillbirths and neonatal deaths



Better understanding of the high neonatal mortality rate in France

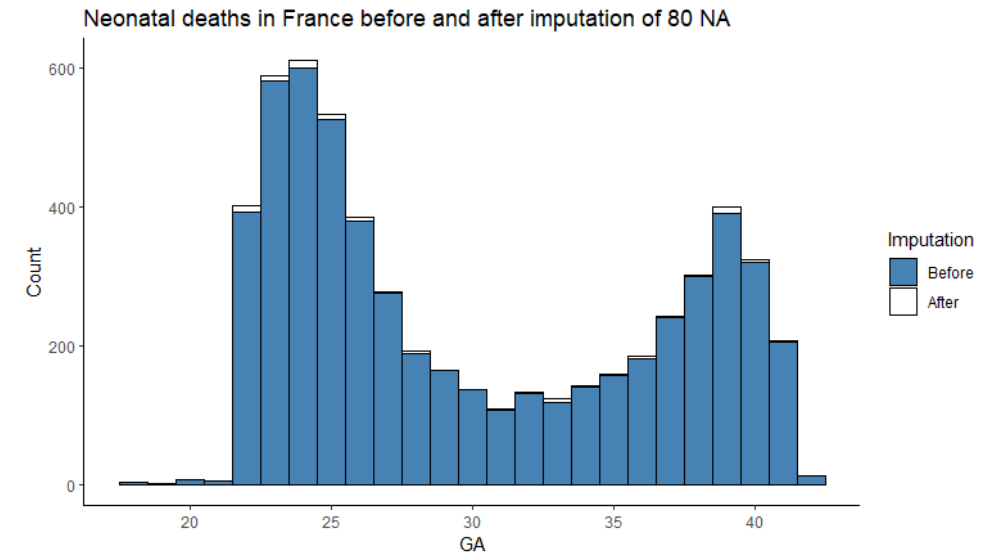
Method

Selection of 20 countries with available data for neonatal deaths, stillbirths, live births and the associated gestational ages (2015-2020).

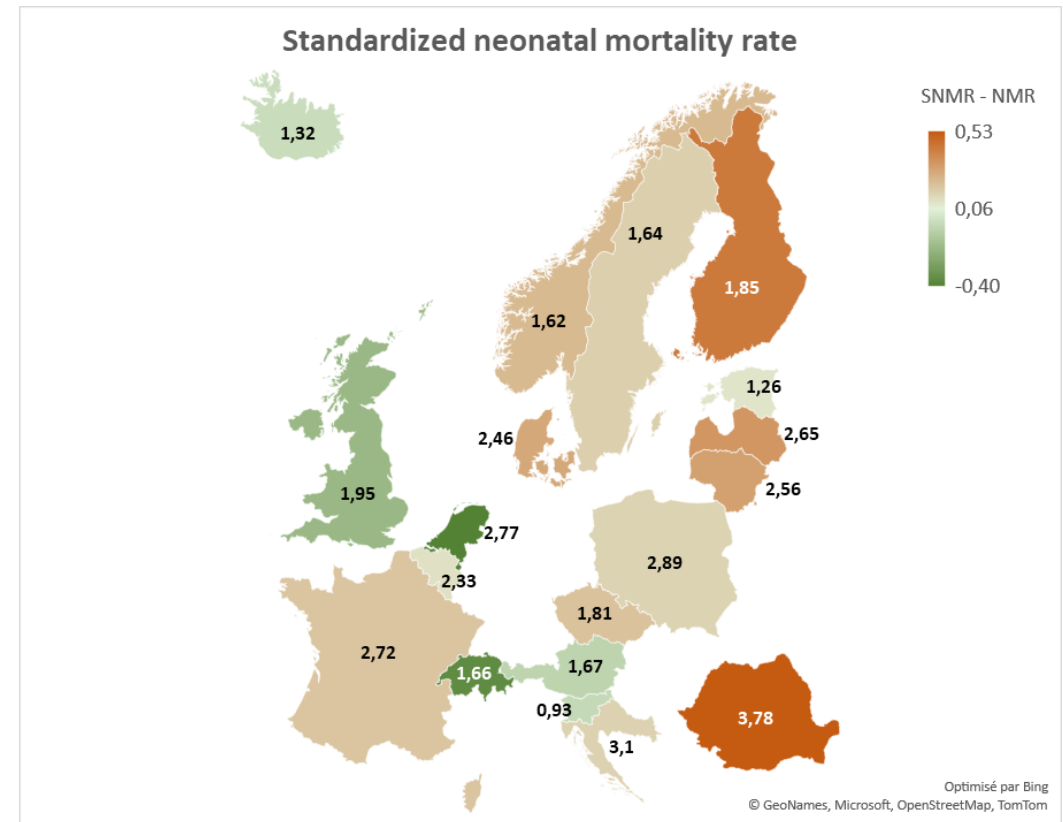
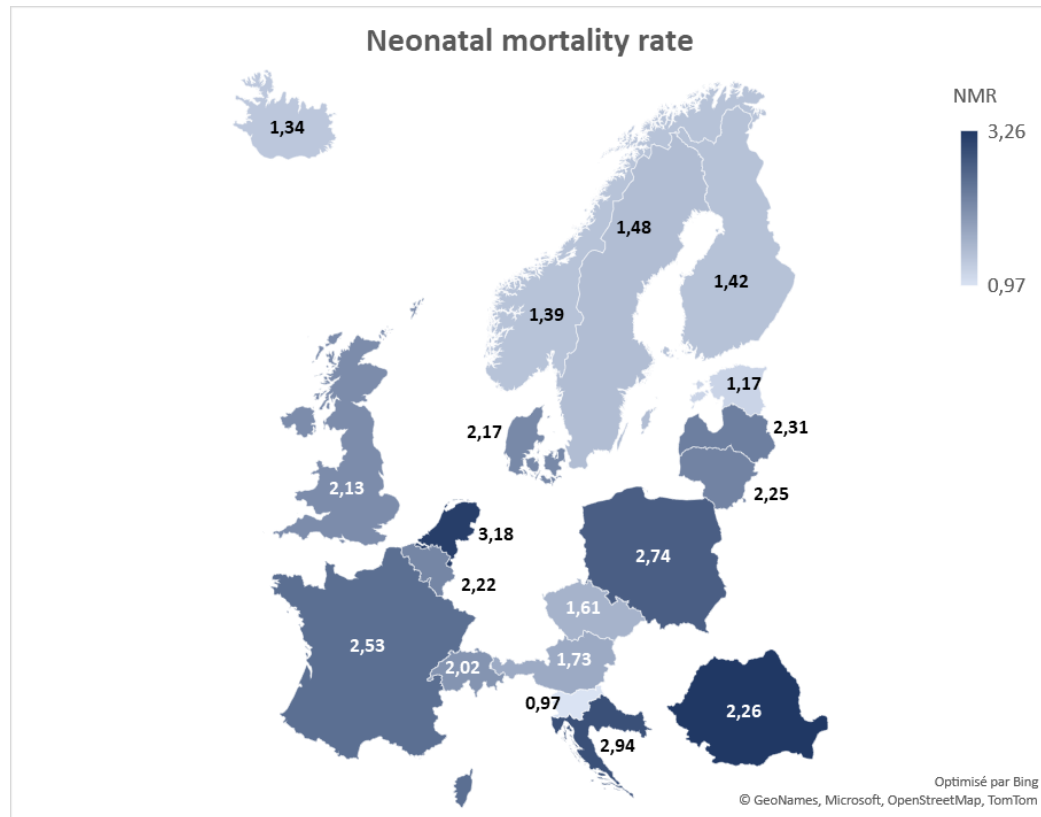
Inclusion of French data (2015-2017)

Imputation of the GA for:

- 385 (**1%**) of 36 631 neonatal deaths
- 217 (**0.3%**) of 69937 stillbirths
- 193 472 (**1%**) of 18 419 920 live births

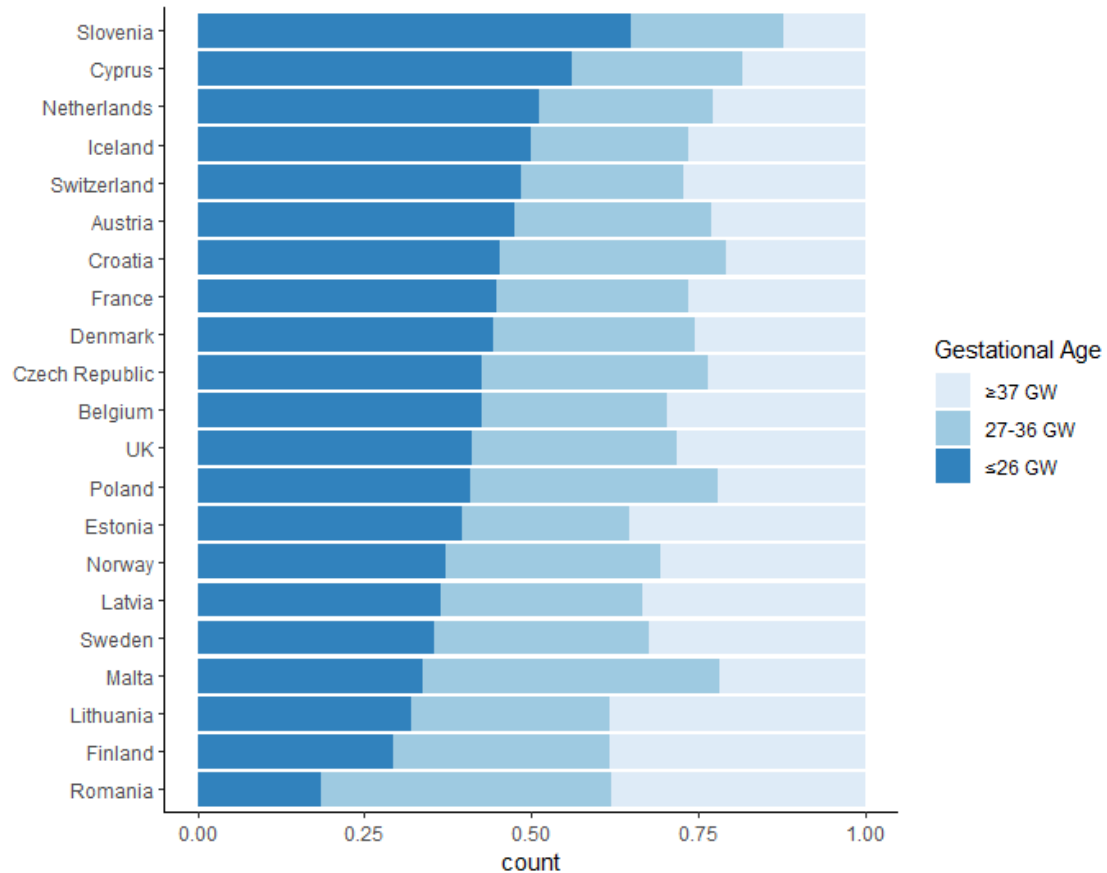


Neonatal standardized mortality rate

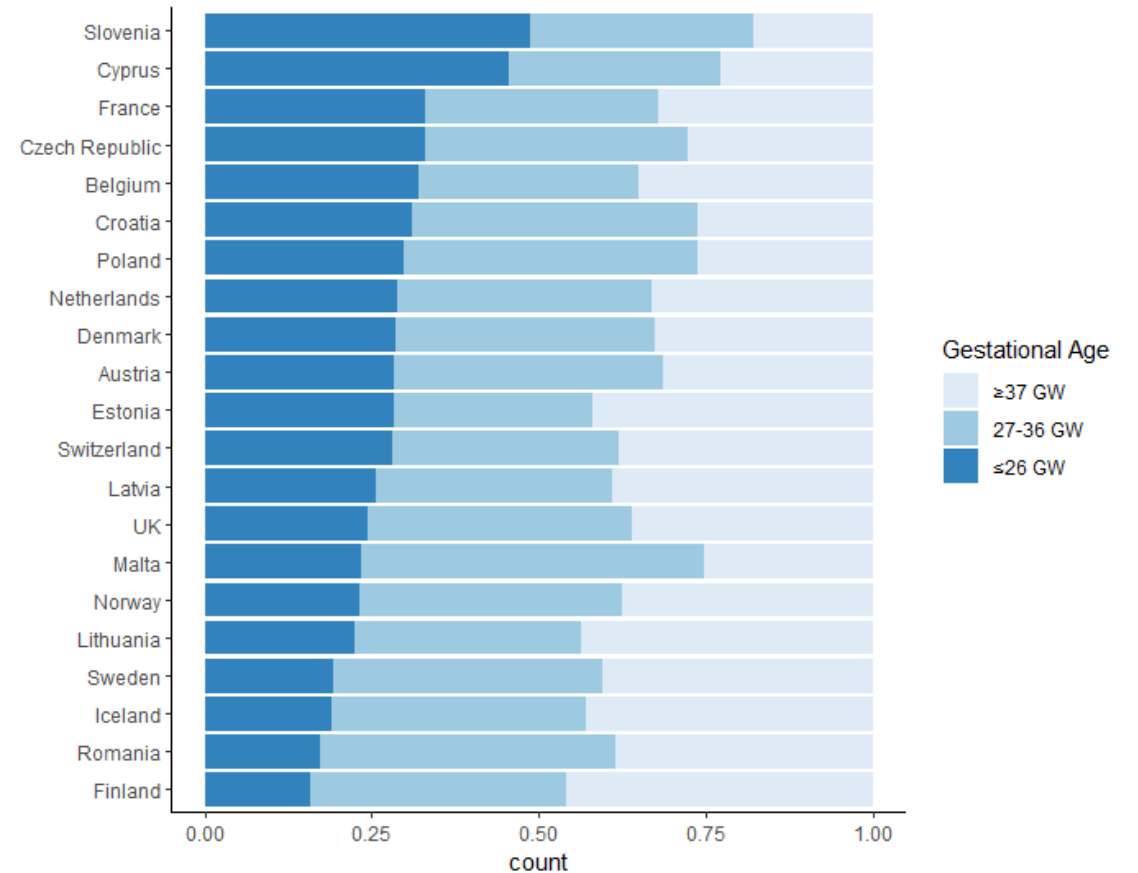


Neonatal deaths: ≤ 26 , 27-36, ≥ 37 GW

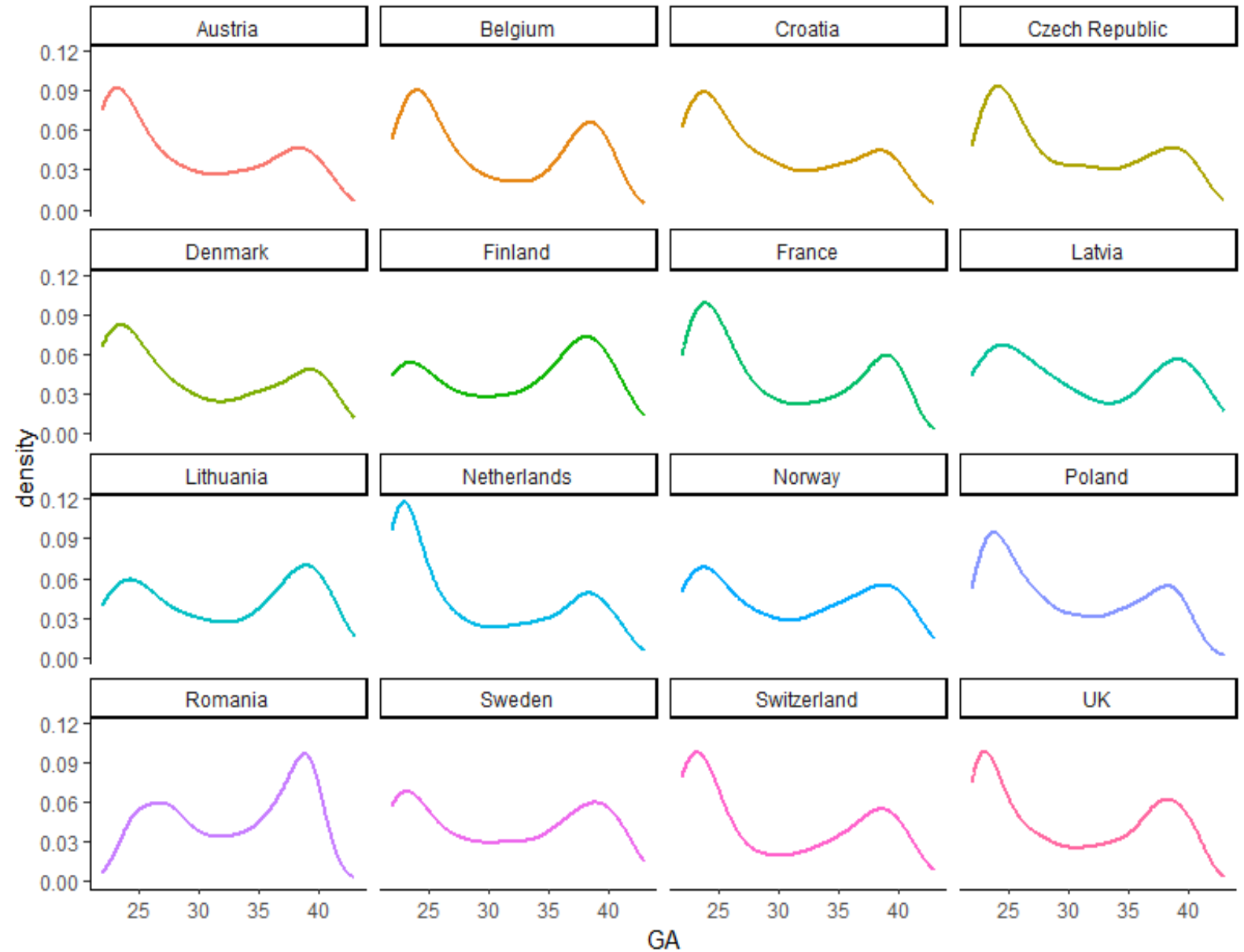
Proportion of neonatal deaths (≥ 22 GW) by GA class



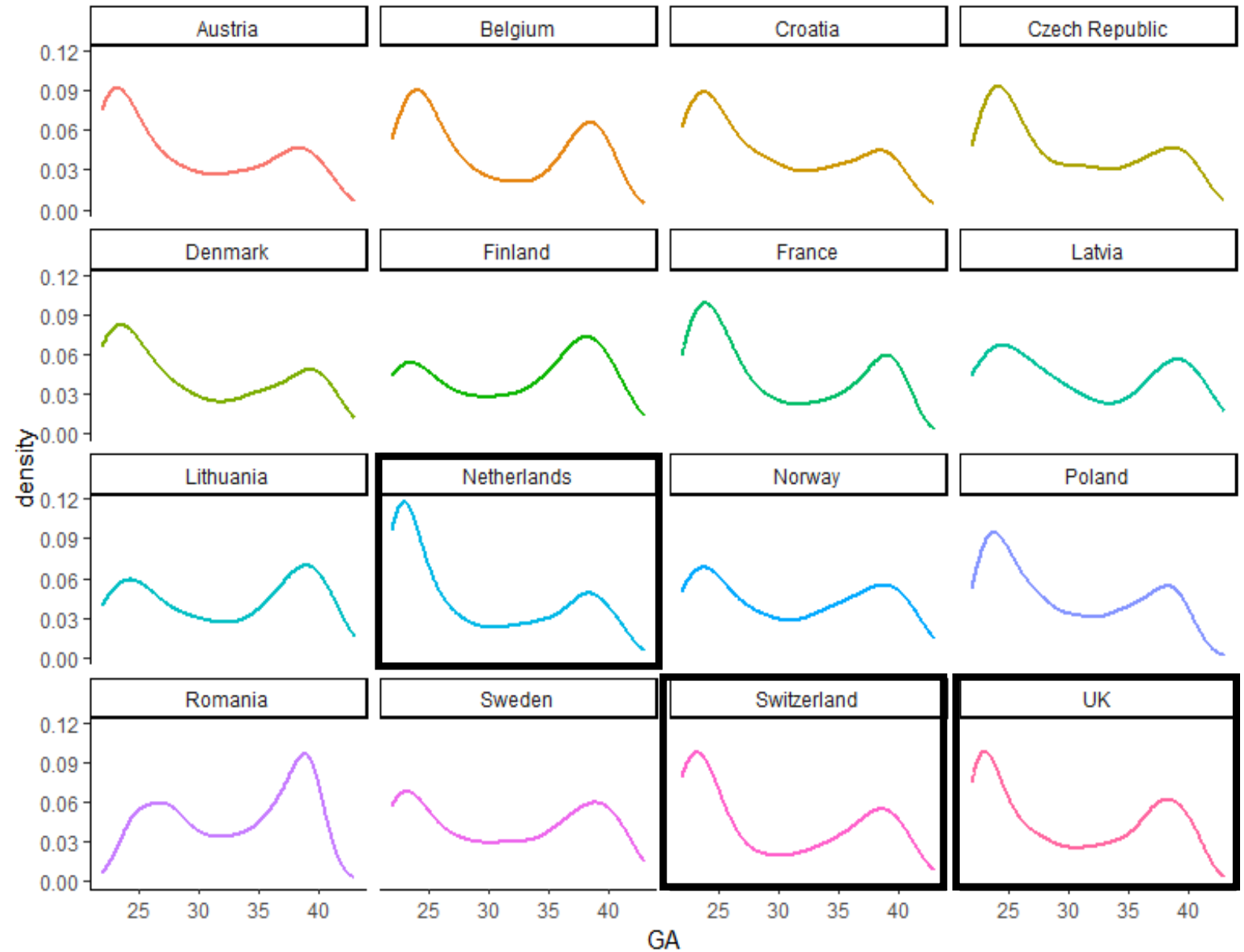
Proportion of neonatal deaths (≥ 24 GW) by GA class



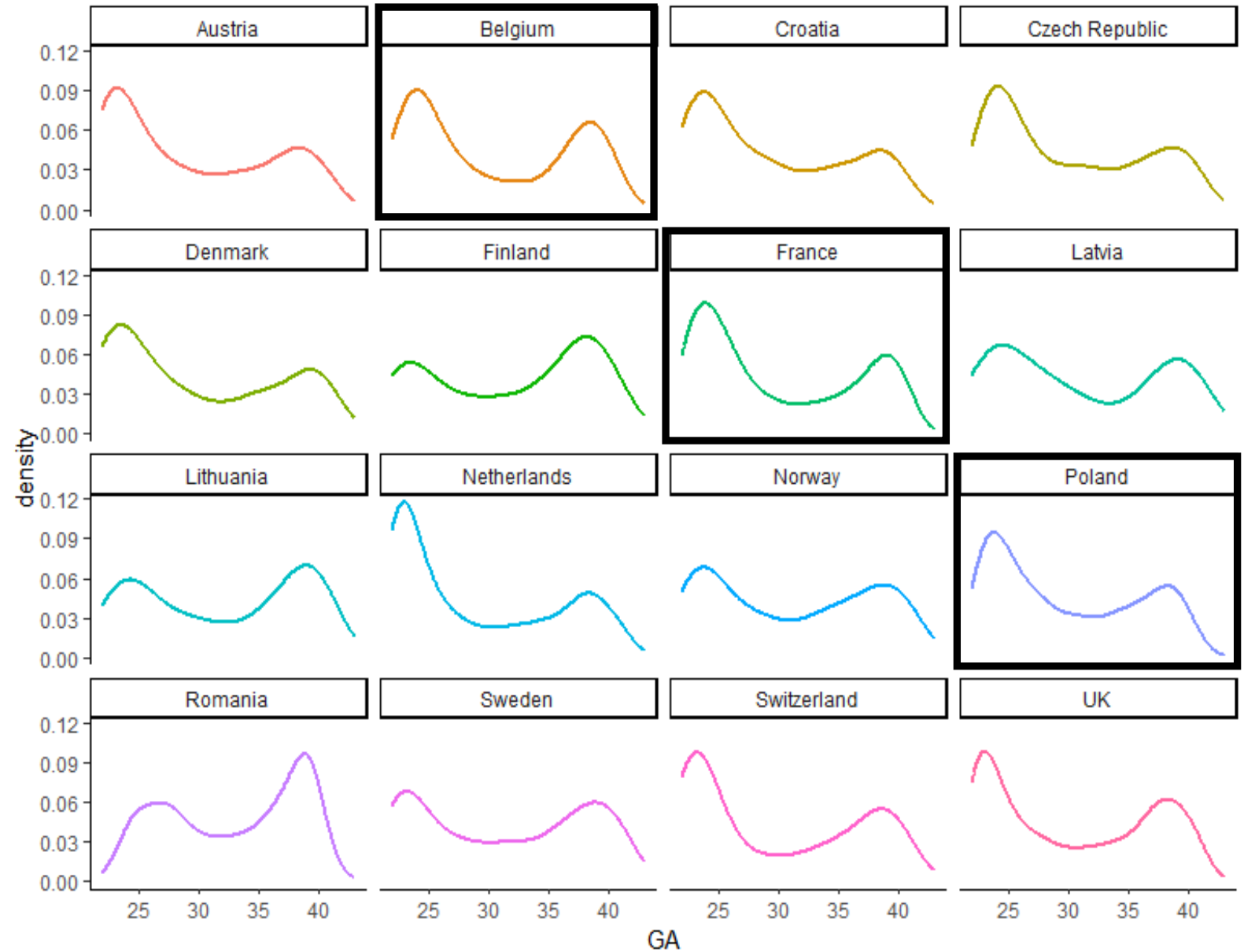
Distribution of neonatal deaths by GA



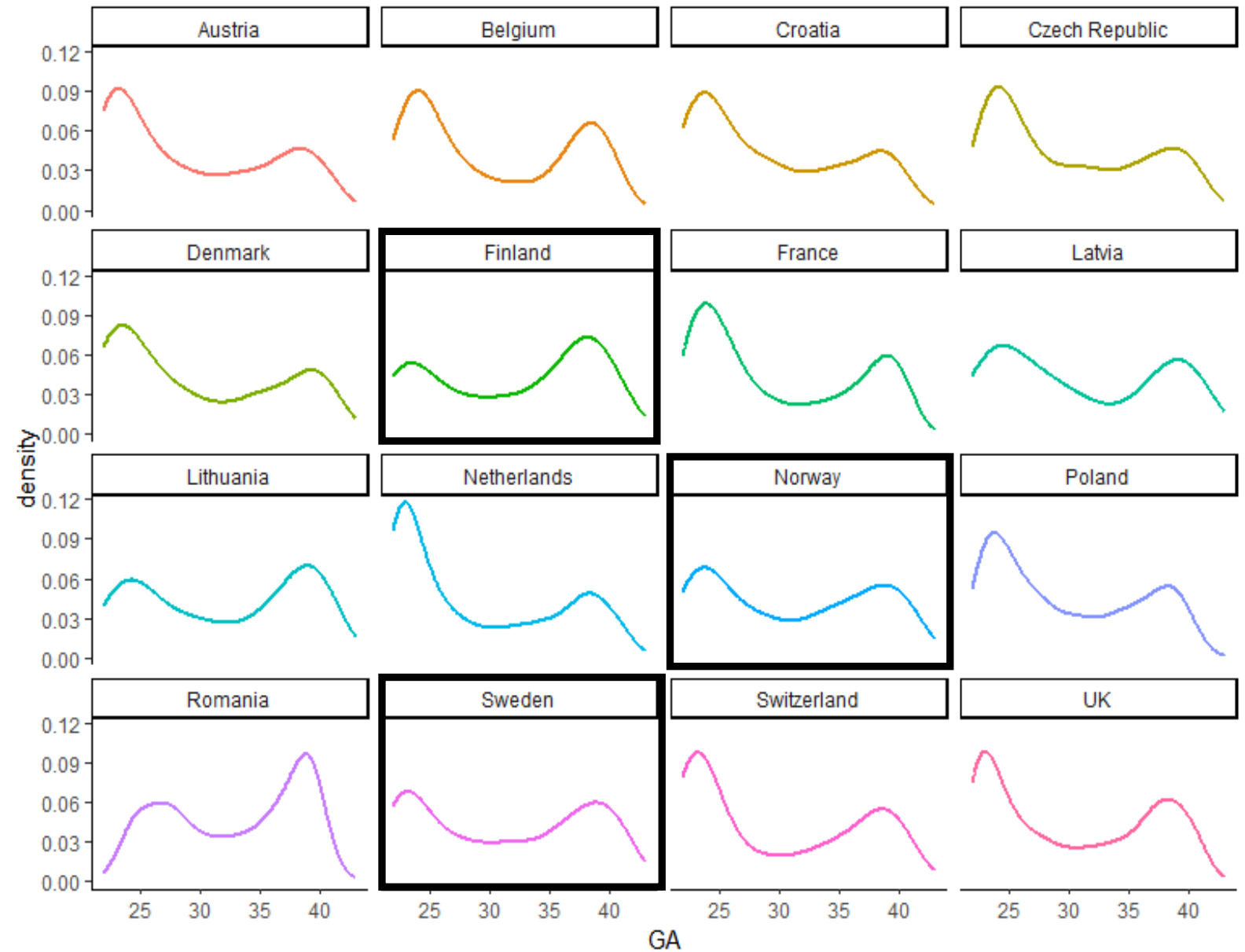
Distribution of neonatal deaths by GA



Distribution of neonatal deaths by GA

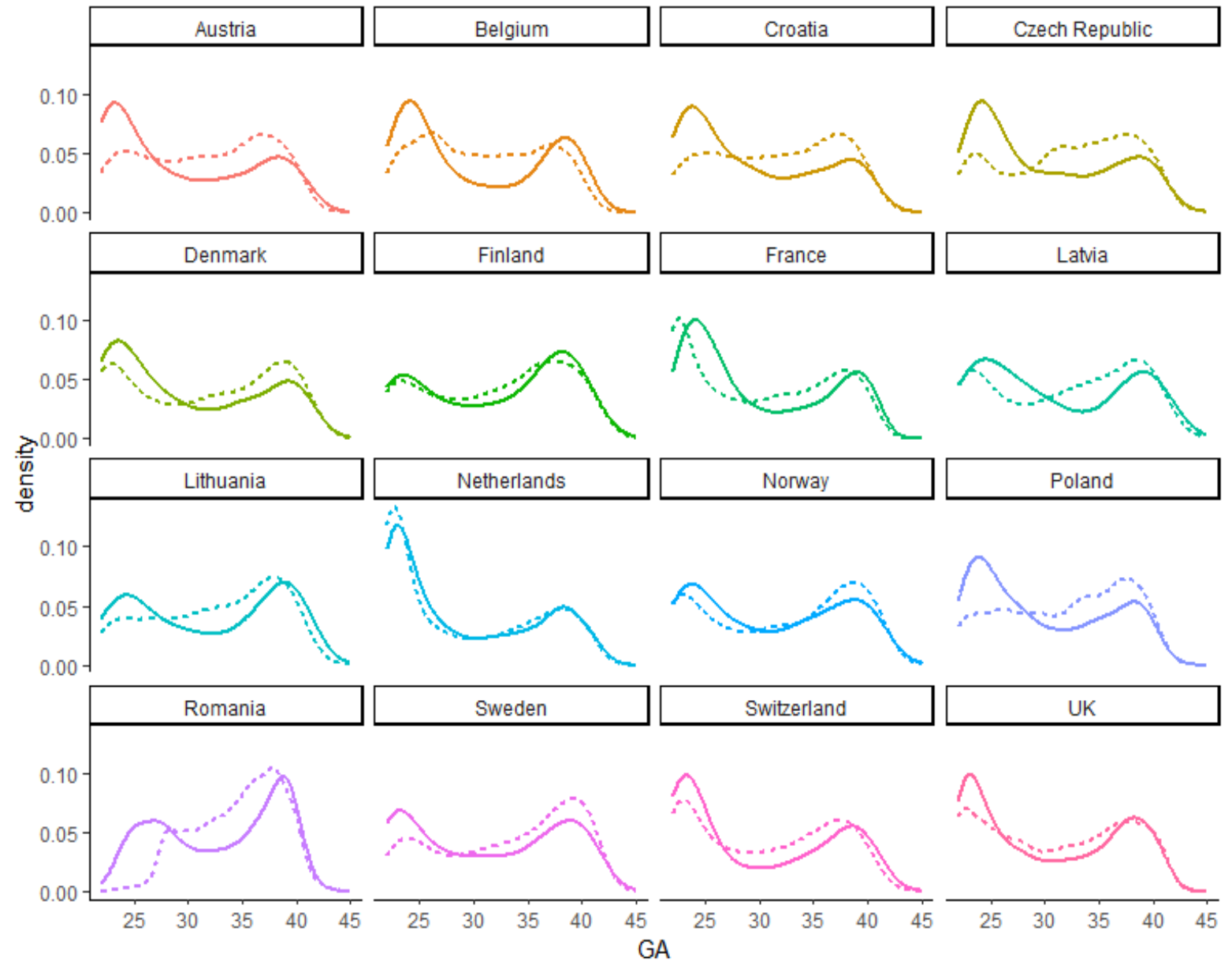


Distribution of neonatal deaths by GA

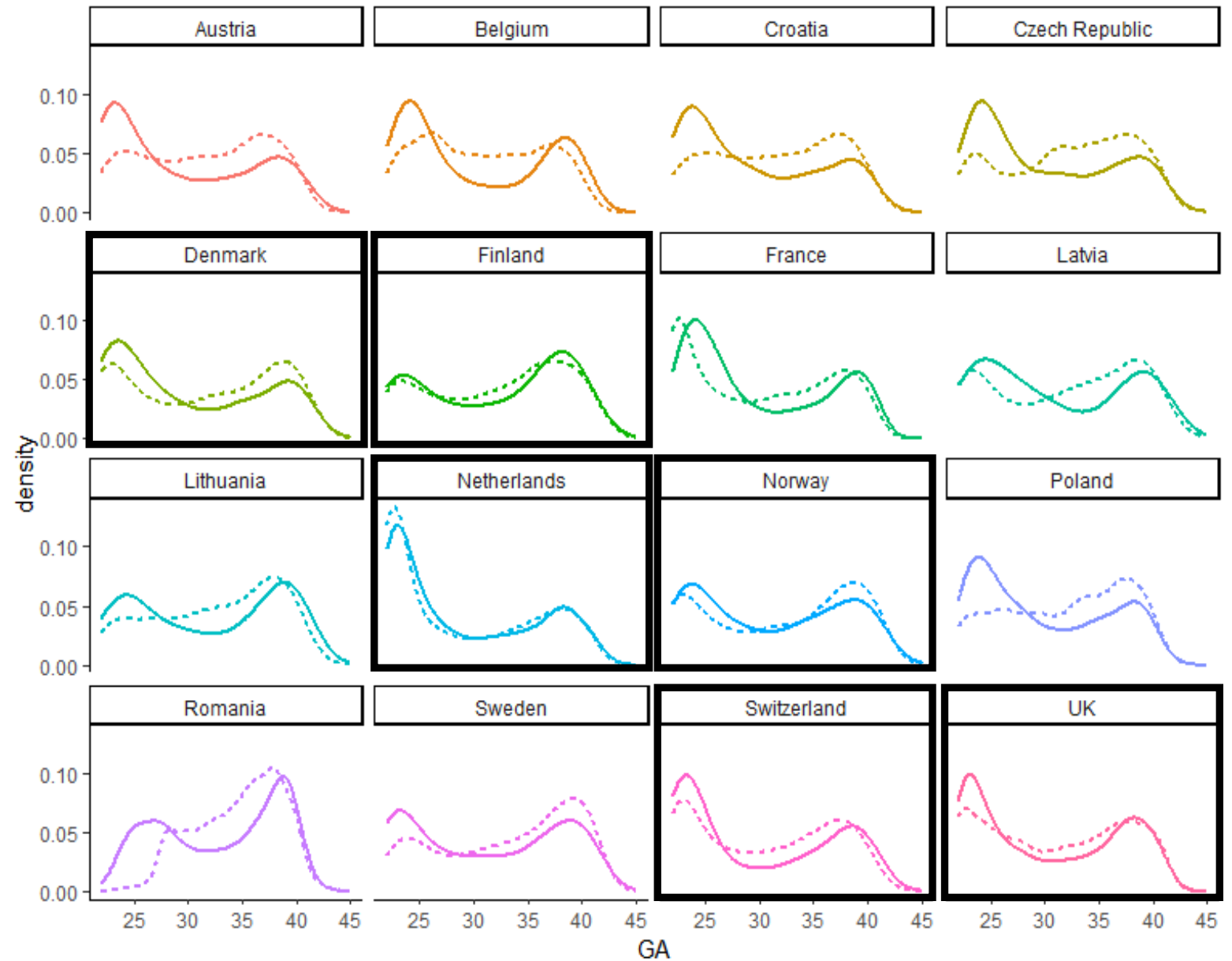


Neonatal deaths & Stillbirths

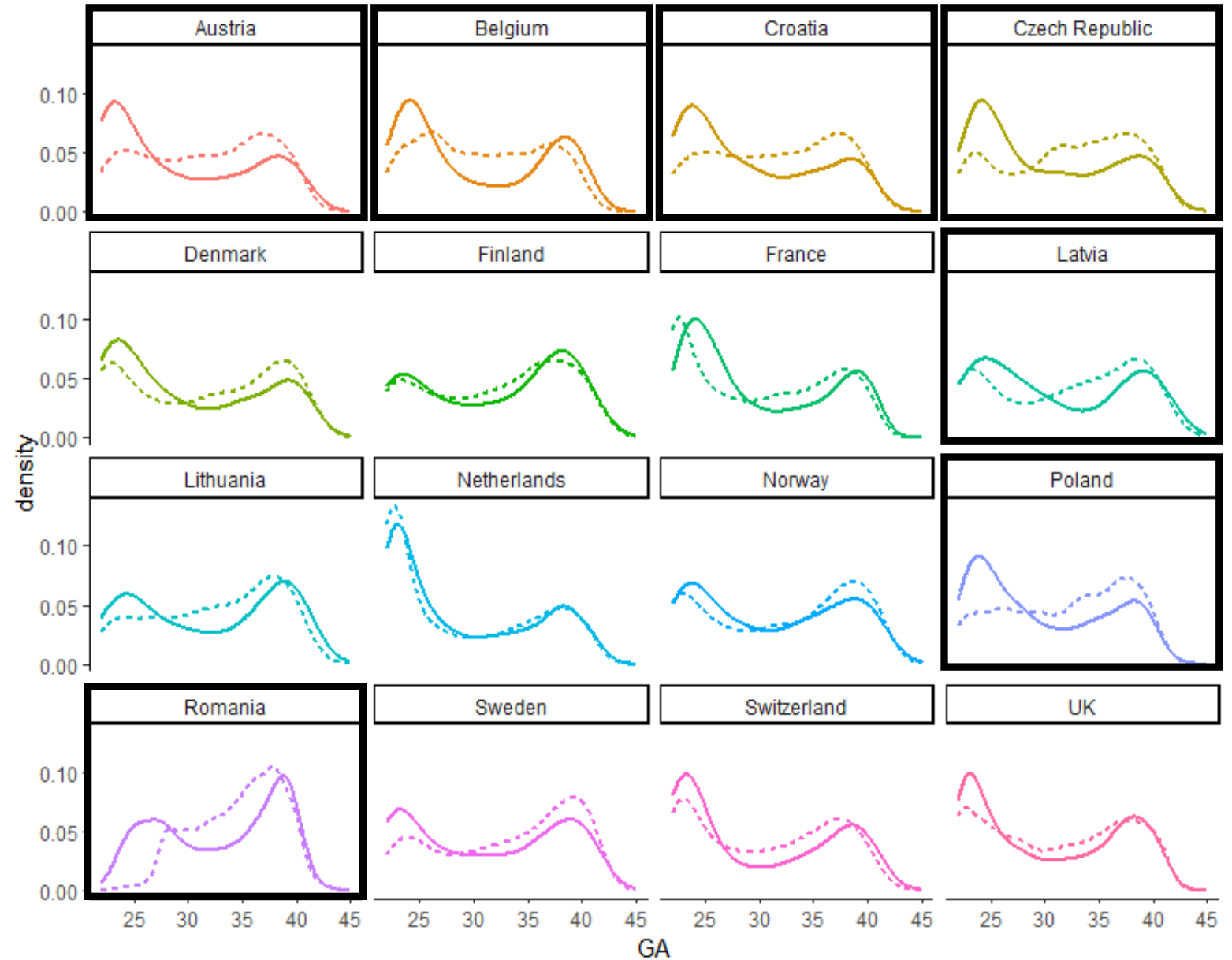
TOP not included



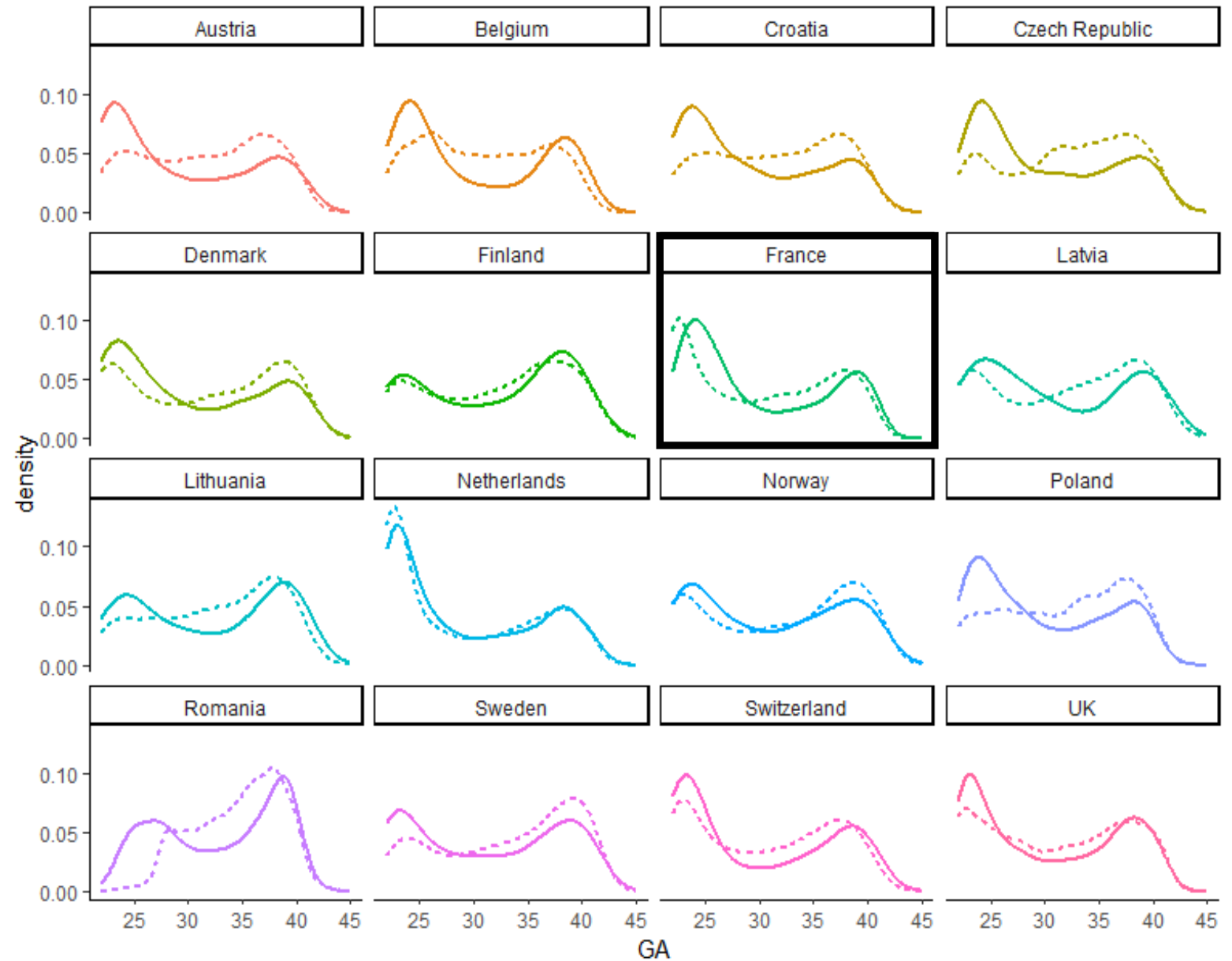
Neonatal deaths & Stillbirths



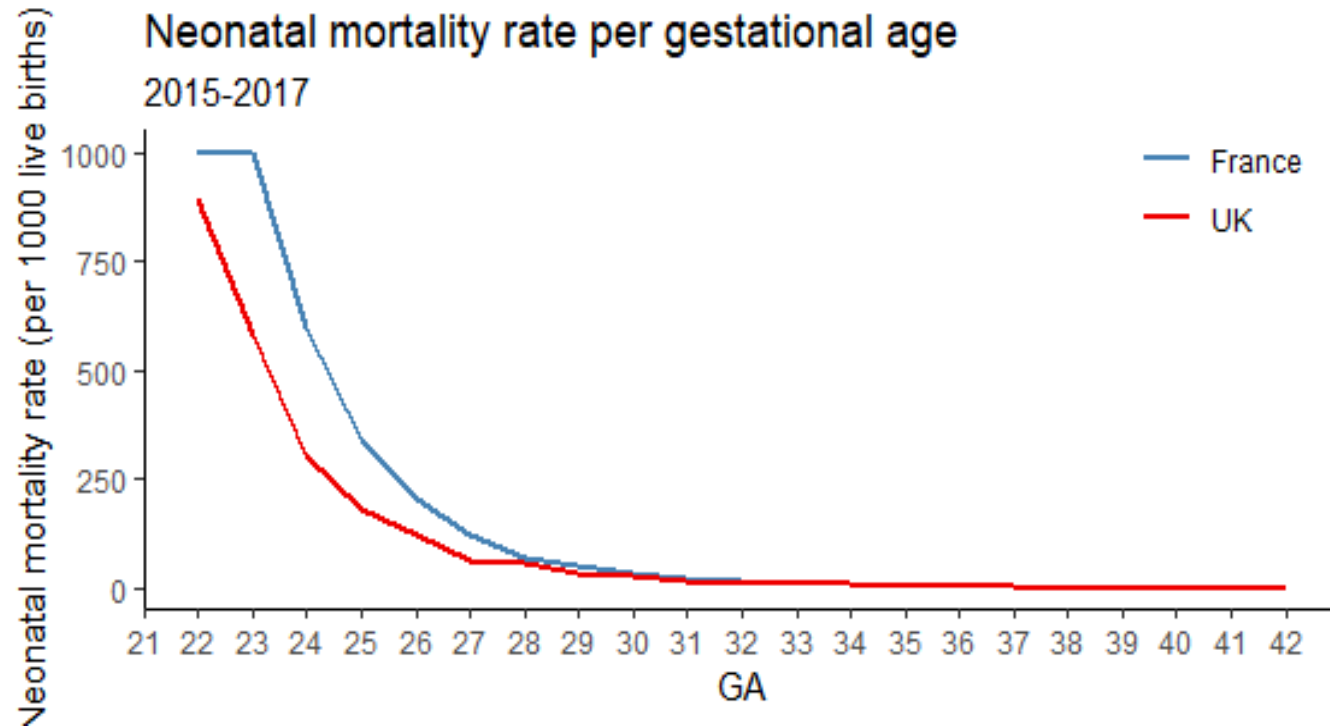
Neonatal deaths & Stillbirths



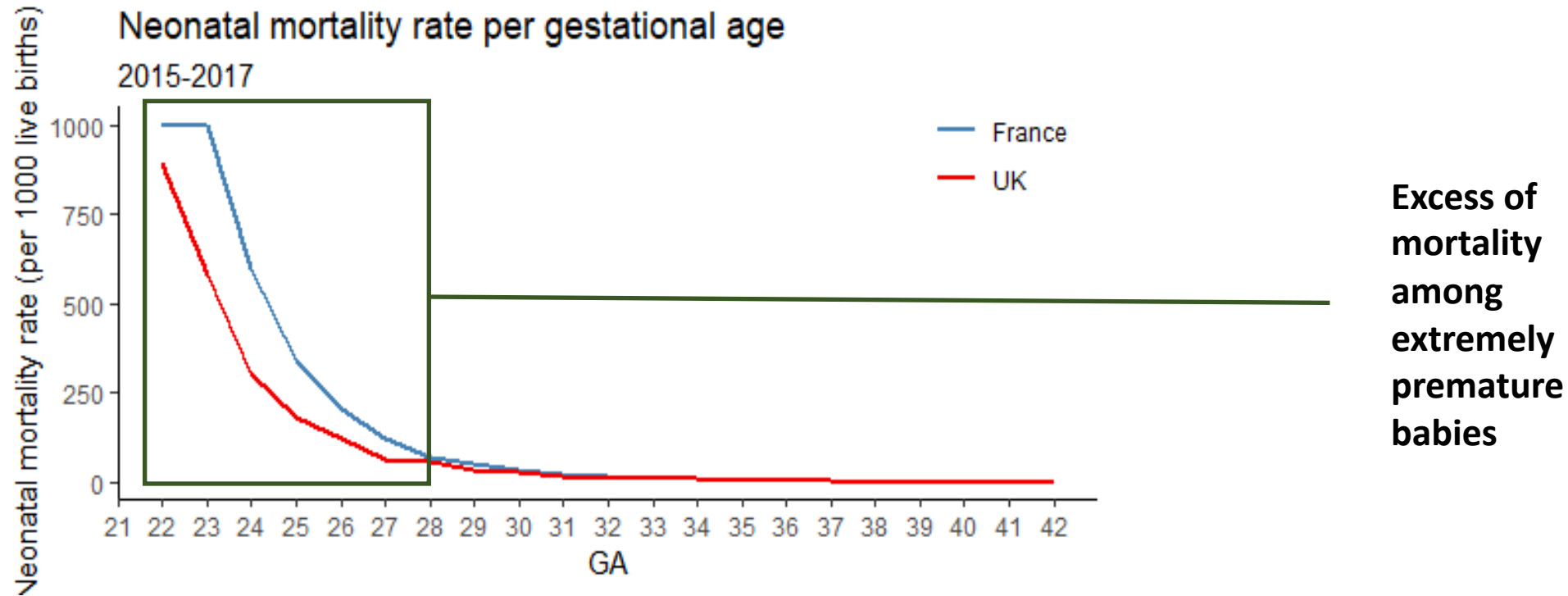
Neonatal deaths & Stillbirths



France: neonatal mortality rate by GA

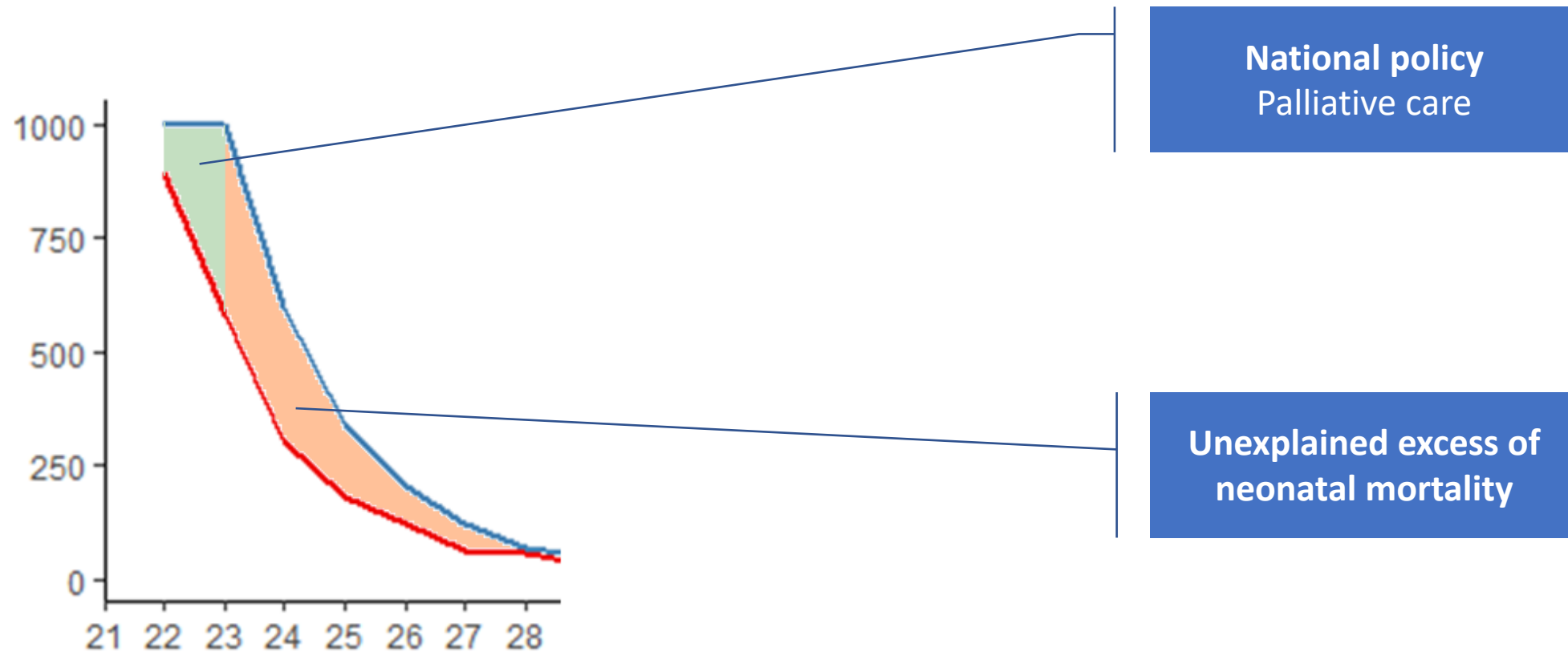


France: neonatal mortality rate by GA



France: neonatal mortality rate by GA

Excess of mortality among extremely premature babies



Conclusion

► **France: neonatal mortality rate 22-28 GW**

► **Differences in the distribution of GA for neonatal deaths and stillbirths**

