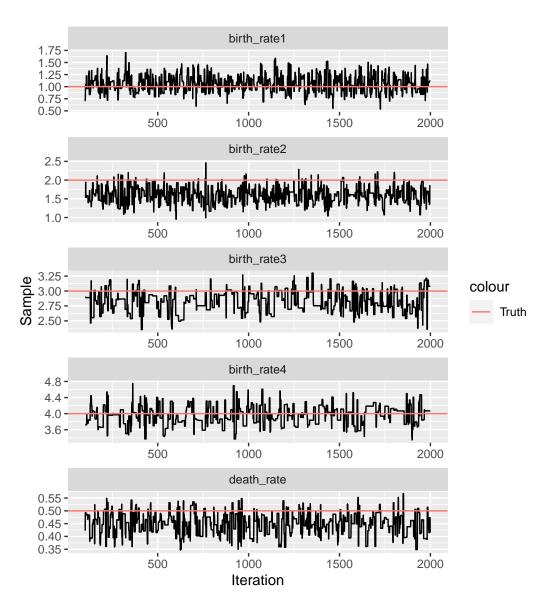
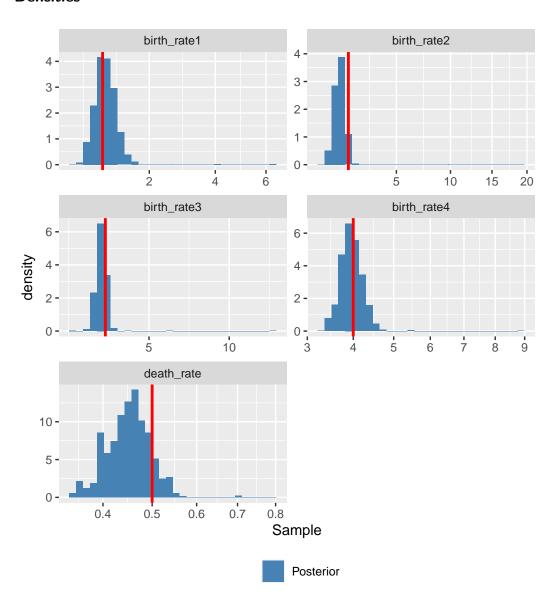
## **Traceplots**



## Densities



## **Summaries**

| Parameter      | n    | ESS | Acceptance | Q 25% | Median | Q 75% | Truth | Relative error |
|----------------|------|-----|------------|-------|--------|-------|-------|----------------|
| birth_rate1    | 2001 | 251 | 0.36       | 0.76  | 1.05   | 1.48  | 1.0   | 0.05           |
| $birth\_rate2$ | 2001 | 223 | 0.34       | 1.18  | 1.59   | 2.07  | 2.0   | 0.20           |
| $birth\_rate3$ | 2001 | 344 | 0.17       | 2.52  | 2.84   | 3.20  | 3.0   | 0.05           |
| $birth\_rate4$ | 2001 | 239 | 0.15       | 3.48  | 3.96   | 4.46  | 4.0   | 0.01           |
| $death\_rate$  | 2001 | 288 | 0.22       | 0.36  | 0.45   | 0.53  | 0.5   | 0.10           |