**Table 4:** Estimation of main parameters in different model by MCMC BUGS.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameters** | **M0** | **M1** | **M2** | **M3** | **M4** |
| **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** | **Mean** | **SD** |
| *γ1* | -0.044 | 0.25 | -0.076 | 0.316 | -0.028 | 0.276 | -0.003 | 0.262 | -0.029 | 0.291 |
| *γ2* | -0.043 | 0.241 | -0.021 | 0.274 | -0.09 | 0.286 | -0.003 | 0.245 | -0.062 | 0.287 |
| *γ3* | -0.116 | 0.298 | -0.117 | 0.357 | -0.315 | 0.56 | -0.099 | 0.32 | -0.17 | 0.455 |
| *γ4* | 0.339 | 0.292 | 0.344 | 0.313 | 0.344 | 0.313 | 0.349 | 0.315 | 0.338 | 0.313 |
| *γ5* | - | - | -0.161 | 0.741 | 0.218 | 0.501 | 0.015 | 0.147 | 0.055 | 0.33 |
| *λ1* | 0.795 | 0.144 | 0.829 | 0.149 | 0.804 | 0.15 | 0.437 | 0.58 | 0.815 | 0.149 |
| *λ2* | 0.8 | 0.145 | 0.834 | 0.15 | 0.809 | 0.151 | 0.439 | 0.583 | 0.82 | 0.15 |
| *λ3* | 0.805 | 0.146 | 0.838 | 0.151 | 0.814 | 0.152 | 0.442 | 0.586 | 0.825 | 0.151 |
| *λ4* | 0.806 | 0.145 | 0.84 | 0.151 | 0.816 | 0.152 | 0.443 | 0.588 | 0.827 | 0.151 |
| *λ5* | 0.732 | 0.138 | 0.763 | 0.144 | 0.741 | 0.144 | 0.402 | 0.535 | 0.751 | 0.143 |
| *λ6* | 0.599 | 0.124 | 0.624 | 0.128 | 0.606 | 0.128 | 0.329 | 0.44 | 0.614 | 0.128 |
| *λ7* | 0.718 | 0.11 | 0.716 | 0.118 | 0.733 | 0.117 | 0.049 | 0.466 | 0.727 | 0.117 |
| *λ8* | 0.764 | 0.113 | 0.762 | 0.121 | 0.78 | 0.12 | 0.052 | 0.495 | 0.773 | 0.12 |
| *λ9* | 0.768 | 0.113 | 0.767 | 0.121 | 0.785 | 0.121 | 0.052 | 0.498 | 0.778 | 0.121 |
| *λ10* | 0.769 | 0.113 | 0.768 | 0.122 | 0.786 | 0.121 | 0.053 | 0.499 | 0.779 | 0.121 |
| *λ11* | 0.773 | 0.113 | 0.771 | 0.122 | 0.79 | 0.121 | 0.053 | 0.501 | 0.783 | 0.121 |
| *λ12* | 0.67 | 0.107 | 0.668 | 0.114 | 0.684 | 0.113 | 0.046 | 0.435 | 0.678 | 0.113 |
| *λ13* | 0.767 | 0.113 | 0.766 | 0.122 | 0.784 | 0.121 | 0.052 | 0.497 | 0.777 | 0.121 |
| *λ14* | 0.559 | 0.1 | 0.557 | 0.106 | 0.571 | 0.106 | 0.038 | 0.364 | 0.565 | 0.106 |
| *λ15* | 0.766 | 0.113 | 0.764 | 0.121 | 0.782 | 0.12 | 0.052 | 0.496 | 0.775 | 0.12 |
| **Model fitness** |
| DIC | 1580 | 1593 | 1593 | -8273 | 1594 |
| 2logB0k | - | 2651.796 | 2654.999 | - | 2650.307 |