| Computational Model Variable | Description | Computational Model Variable | Description |
|---------------------------------|--|---------------------------------|---|
| Мас | Total number of macrophages in the lung compartment | LnCM8C | Eqn 1.14: Mtb-specific CD8+ Central Memory in the lymph node |
| $T\gamma$ | Total number of Ty cells in the lung compartment | LnEM8C | Eqn 1.15: Mtb-specific CD8+ Effector Memory in the lymph node |
| Tcyt | Total number of Cytotoxic T cells in the lung compartment | BlN8C | Eqn 1.16: Mtb-specific CD8+ in the bloc |
| Treg | Total number of Regulatory T cells in the lung compartment | BlE8C | Eqn 1.17: Mtb-specific CD8+ Effector i the blood |
| <i>T</i> YCognate | Total number of Mtb-specific Ty cells in the lung compartment | BlCM8C | Eqn 1.18: Mtb-specific CD8+ Central Memory in the blood |
| TcytCognate | Total number of Mtb-specific Cytotoxic T cells in the lung compartment | BIEM8C | Eqn 1.19: Mtb-specific CD8+ Effector Memory in the blood |
| TotMtb. | Total CFU/granuloma | LnN4NC | Eqn 1.20: non Mtb-specific CD4+ in th lymph node |
| TNF | TNF concentration in the Lung compartment | LnCM4NC | Eqn 1.21: non Mtb-specific CD4+ Centr Memory in the lymph node |
| IL10 | IL10 concentration in the Lung compartment | BlN4NC | Eqn 1.22: non Mtb-specific CD4+ Naïv cells in the blood |
| CCL2 | CCL2 concentration in the Lung compartment | BlE4NC | Eqn 1.23: non Mtb-specific CD4+ in th blood |
| LesionSize | Lesion size of the granuloma (mm) | BICM4NC | Eqn 1.24: non Mtb-specific CD4+ Centr Memory in the blood |
| APC | Eqn 1.1 – Antigen Presenting Cell proxy in the lymph node | BlEM4NC | Eqn 1.25: non Mtb-specific CD4+ Effector Memory in the blood |
| LnN4C | Eqn 1.2: Mtb-specific CD4+ Naïve cells in the lymph node | LnN8NC | Eqn 1.26: non Mtb-specific CD8+ in th lymph node |
| LnP4C | Eqn 1.3: Mtb-specific CD4+ in the lymph node | LnCM8NC | Eqn 1.27: non Mtb-specific CD8+ Centr Memory in the lymph node |
| LnE4C | Eqn 1.4: Mtb-specific CD4+ Effector in the lymph node | BlN8NC | Eqn 1.28: non Mtb-specific CD8+ Naïv cells in the blood |
| LnCM4C | Eqn 1.5: Mtb-specific CD4+ Central Memory in the lymph node | BlE8NC | Eqn 1.29: non Mtb-specific CD8+ Effector in the blood |
| LnEM4C | Eqn 1.6: Mtb-specific CD4+ Effector Memory in the lymph node | BICM8NC | Eqn 1.30: non Mtb-specific CD8+ Centr Memory in the blood |
| BlN4C | Eqn 1.7: Mtb-specific CD4+ Naïve cells in the blood | BlEM8NC | Eqn 1.31: non Mtb-specific CD8+ Effector Memory in the blood |
| BlE4C | Eqn 1.8: Mtb-specific CD4+ Effector in the blood | TyRecruited | Cumulative number of Tg cells recruite in the Lung compartment Cumulative number of Cytotoxic T cell |
| BlCM4C | Eqn 1.9: Mtb-specific CD4+ Central Memory in the blood | TcytRecruited | recruited in the Lung compartment in th Lung compartment Cumulative number of macrophage |
| BlEM4C | Eqn 1.10: Mtb-specific CD4+ Effector Memory in the blood | Fas_FasL_Kill | killing due to FAS/FASL apoptosis in th Lung compartment |
| LnN8C | Eqn 1.11: Mtb-specific CD8+ Naïve cells in the lymph node | CTL_Killing | Cumulative number of macrophage killing due to Cytotoxic T cells in the Lung compartment |
| LnP8C | Eqn 1.12: Mtb-specific CD8+ in the lymph node | Mci_Burst | Cumulative number of chronically infected macrophage bursting in the Lur compartment |
| LnE8C | Eqn 1.13: Mtb-specific CD8+ in the lymph node | TcellProlifCum | Cumulative number of T cell that have been proliferated in the Lung compartment (only Mtb-specific T cell can proliferate) |
| | | CFU | Total CFU per granuloma |