**The Three Lines of Defence**

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|  | **Specific/Non – Specific Immunity?** | **Components** **(Which parts of the body/ cells are involved?)** | **Examples and Additional Information** |
| **First Line of Defence****(Barriers)** | Non-specific | Skin, mucous membranes (eyes, ears, nose, mouth, genitals); Tears (lysozomes); skin (semi-solid barrier); urine; stomach (acid and natural flora) | Mucous can capture and kill some bacteria. Cilia remove particles. Some natural chemicals destroy pathogens. |
| **Second Line of Defence** **(Body Responses)** | Non-specific | Blood (clotting); inflammation (increase blood cells); fever; production of phagocytes from white blood cells | Many pathogens destroyed by higher body temperature and/or process of non-specific phagocytosis. |
| **Third Line of Defence** **(Immunity)** | Specific | Two forms: extracellular and intracellular, controlled by dendritic cells, T cells and B cells | B cells release antibodies which target pathogens. T cells destroy these, but also destroy cells which have been invaded and which have released antigens. |