

### non specific defenses

innate immunity	defenses present at birth. no memory response. includes first and second line defenses
adaptive immunity	third line defense. not born with it it changes with experience (has memory)

### first line defences: physical

skin	closely packed cells, shedding, dryness (at risk when surface is broken)
mucous membrane	cilia pushes microbes out, secrete mucous
lacrimal apparatus	eye protection, tears wash surface of eyes, act as wind shield wipers
saliva	dilute and wash teeth and oral membranes
other physical factors	epiglottis- protects respiratory tract from saliva/ microbes from mouth

### first line of defense: chemical

sebum	oily substance from sebaceous glands
perspiration	eliminates wastes and flushes microbes from skin
earwax	secretes rich fatty acids
saliva	lysosome, urea, uric acid, IgA
gastric juice	protection from food particles

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