



Prostaglandin

Prostaglandins are hormones They transmit signals within cells and between cells Local activity only

All cells make prostaglandins Different classes made in different tissues Action is determined by class produced Many different functions



Prostacyclin (PGI₂) inhibits aggregation \longrightarrow no clot



BUT.... Prostaglandins also



-inhibit stomach acid production -increase mucous production

So trade headache for ulcers!

Sphingomyelin



Myelin increases the speed of nerve impulse conduction & protects axon.

Development continues in infant...

reason for less coordination and delayed responses

Disorders

Niemann-Pick Disease:

No Sphingomyelinase (breaks sphingomyelin down) Accumulates incells (brain,bone marrow,liver) Lack of motor skills,muscle strength and tone Lose vision and hearing Death within afew years

Multiple Sclerosis:

Believed tobe anautoimmune response Antibodies attack myelin around nerves Different levels of severity



Cholesterol Regulation



