

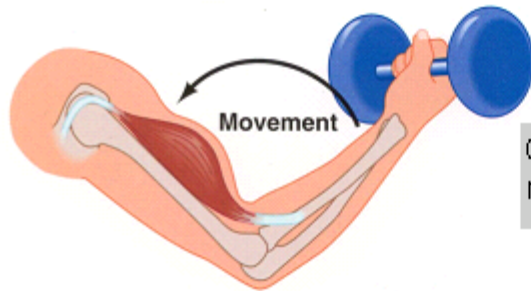
FISIOLOGI OTOT

Dr. Juni Chudri

Jenis Kontraksi

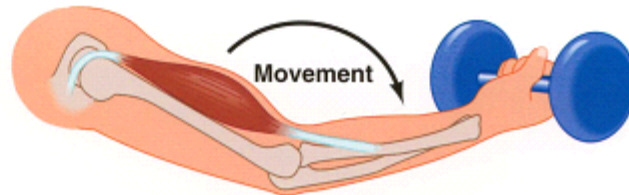
■ Kontraksi Isotonik

- ❖ kontraksi konsentrik
- ❖ kontraksi eksentrik



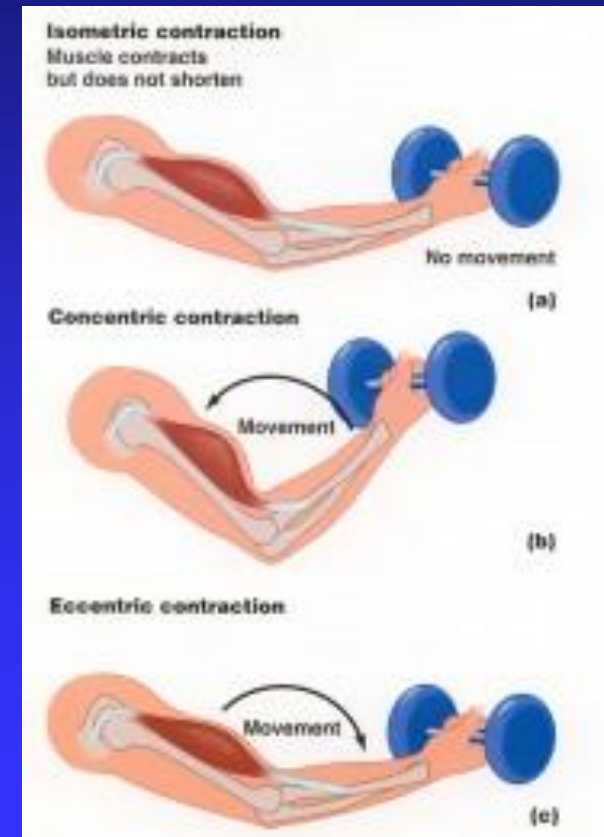
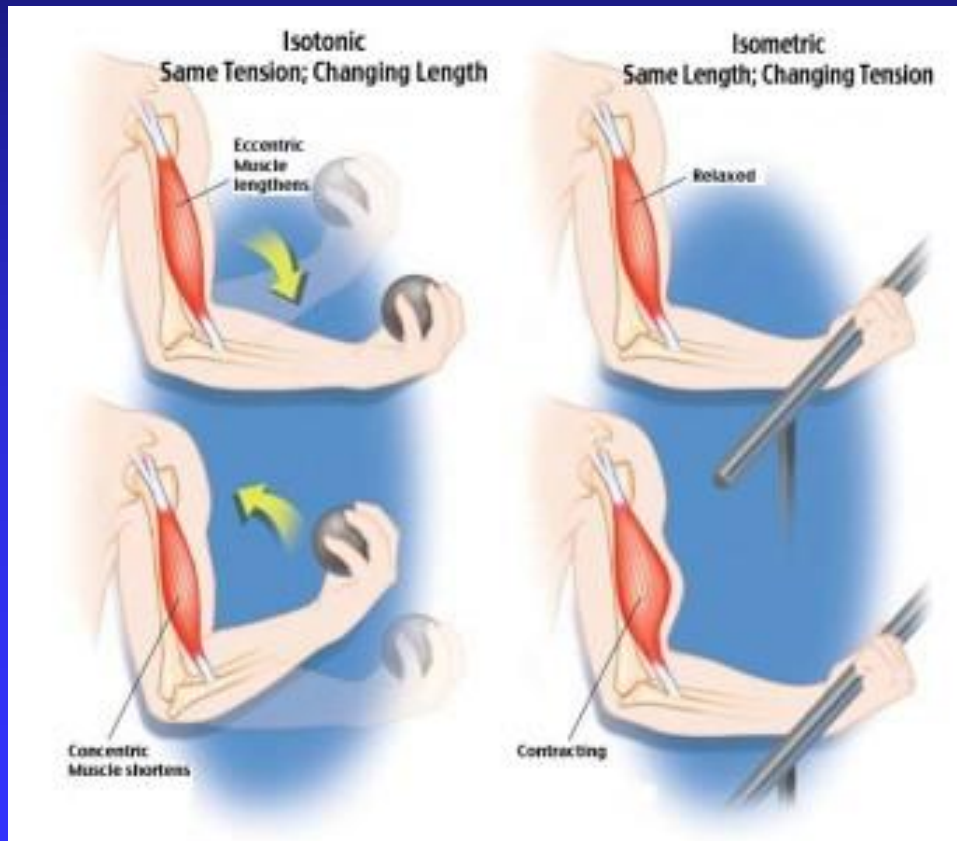
Concentric muscle contraction—The bicep muscle is shortening while contracting.

Eccentric muscle contraction—The bicep muscle is lengthening while contracting.



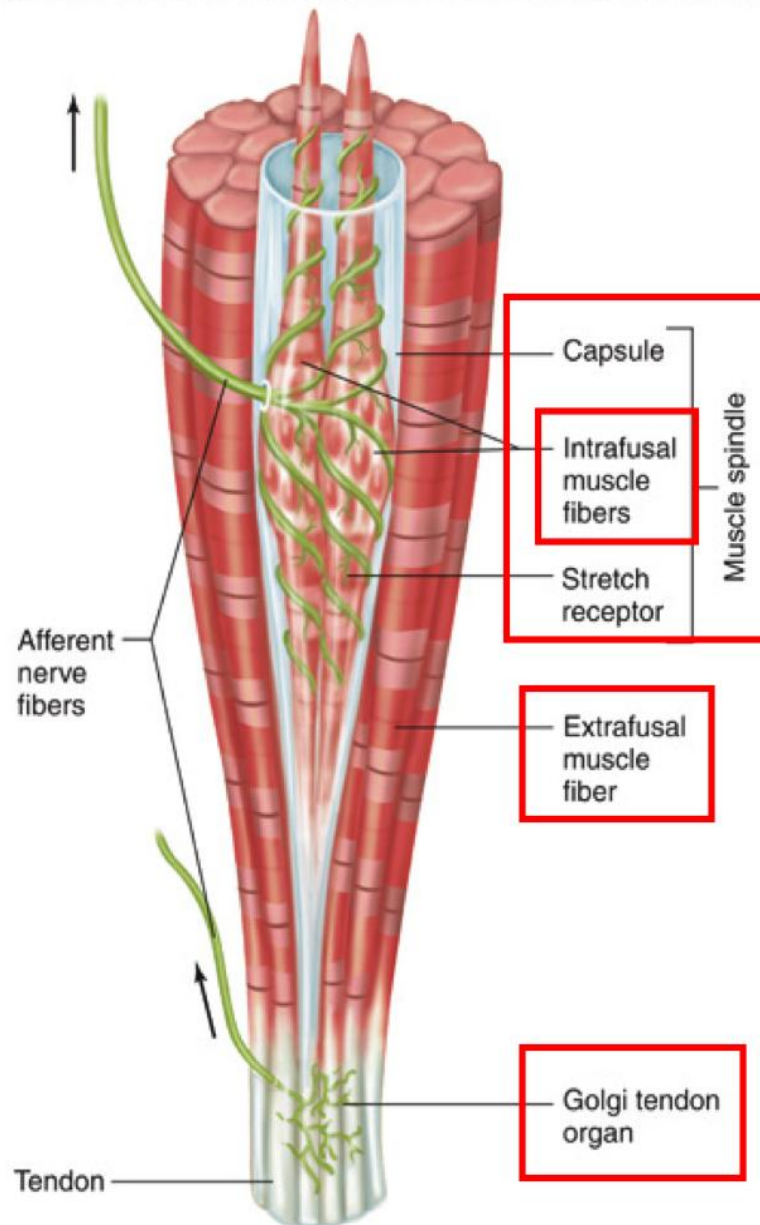
Jenis Kontraksi

■ kontraksi isometrik



MUSCLE SPINDLE

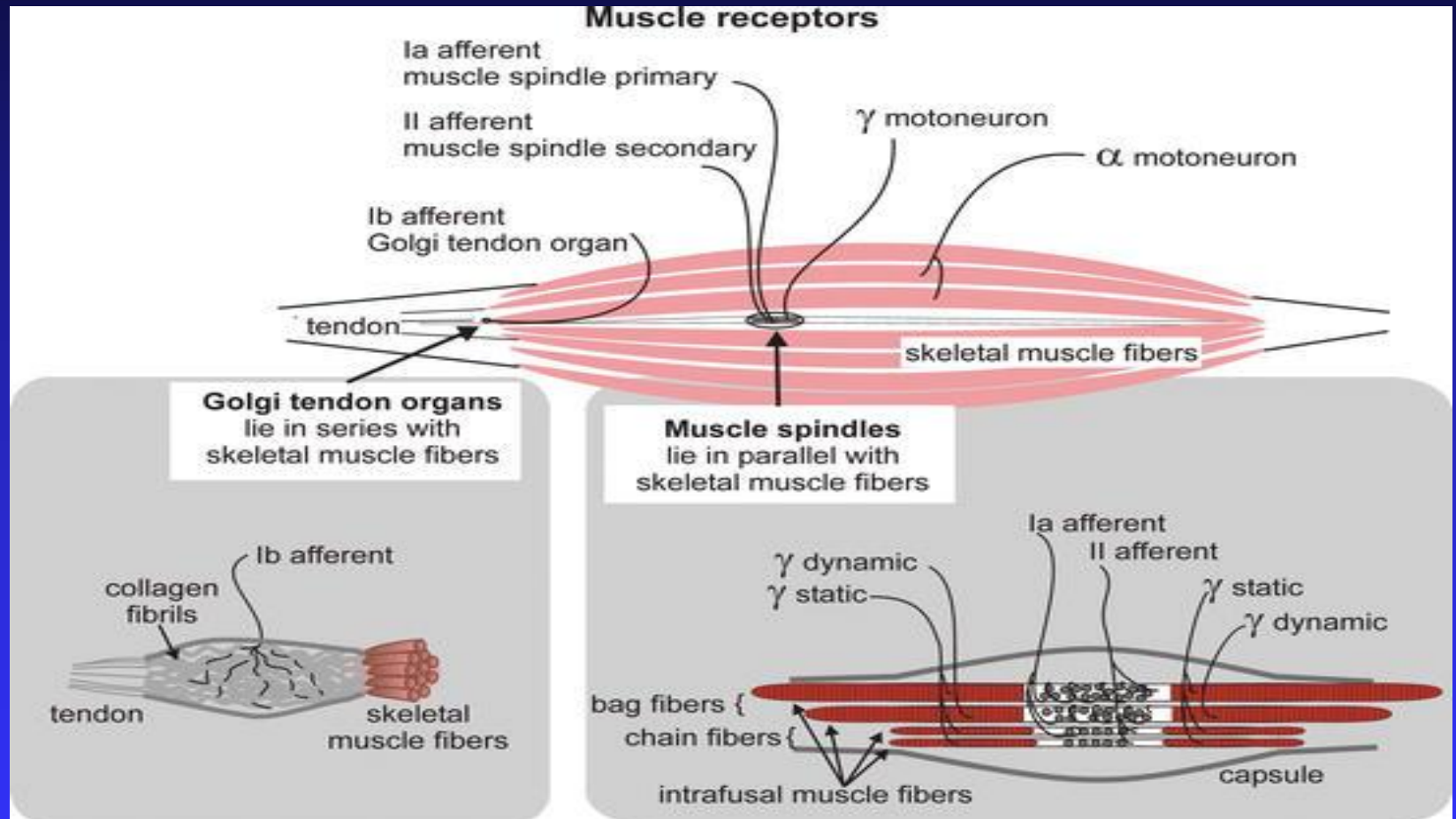
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Adapted from Elias, Pauly, and Burns.

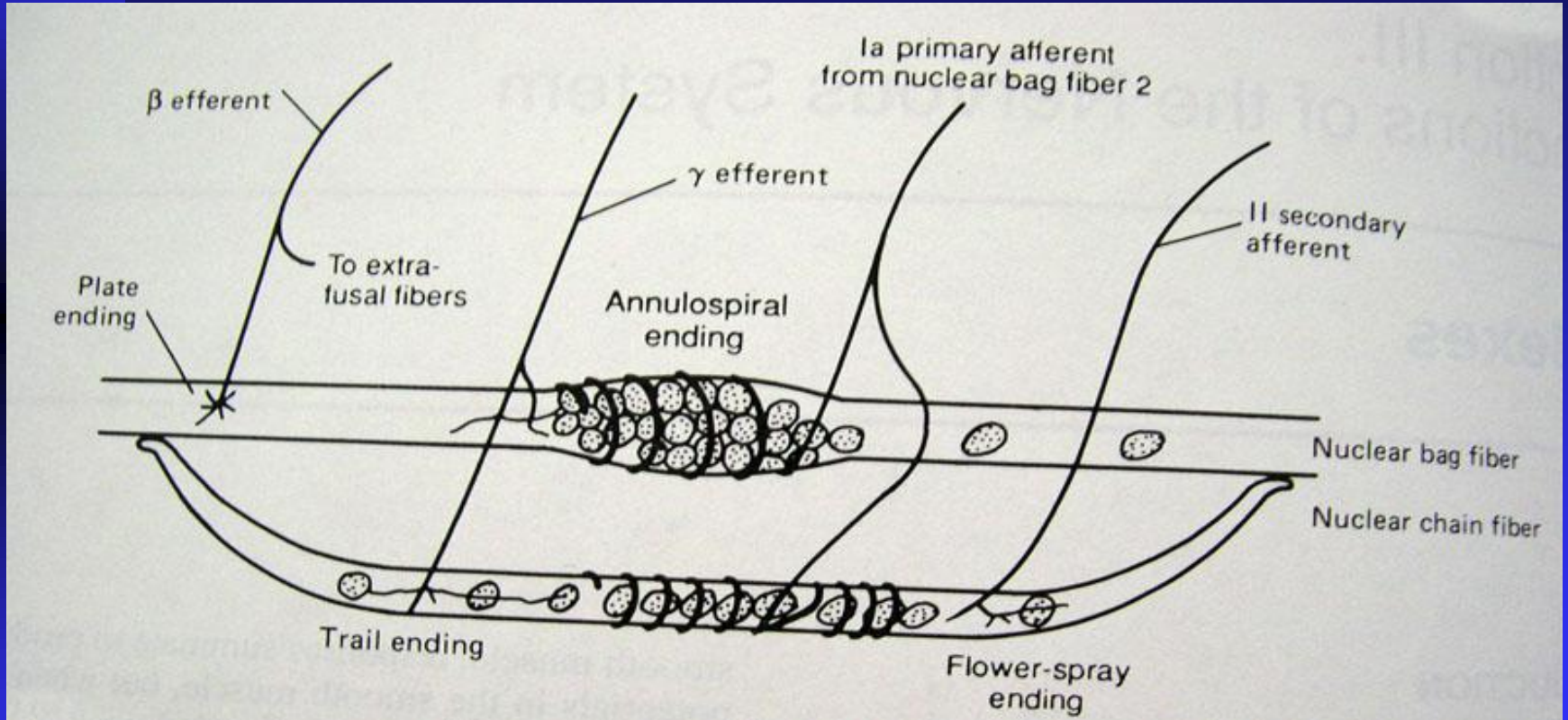
GOLGI TENDON ORGAN

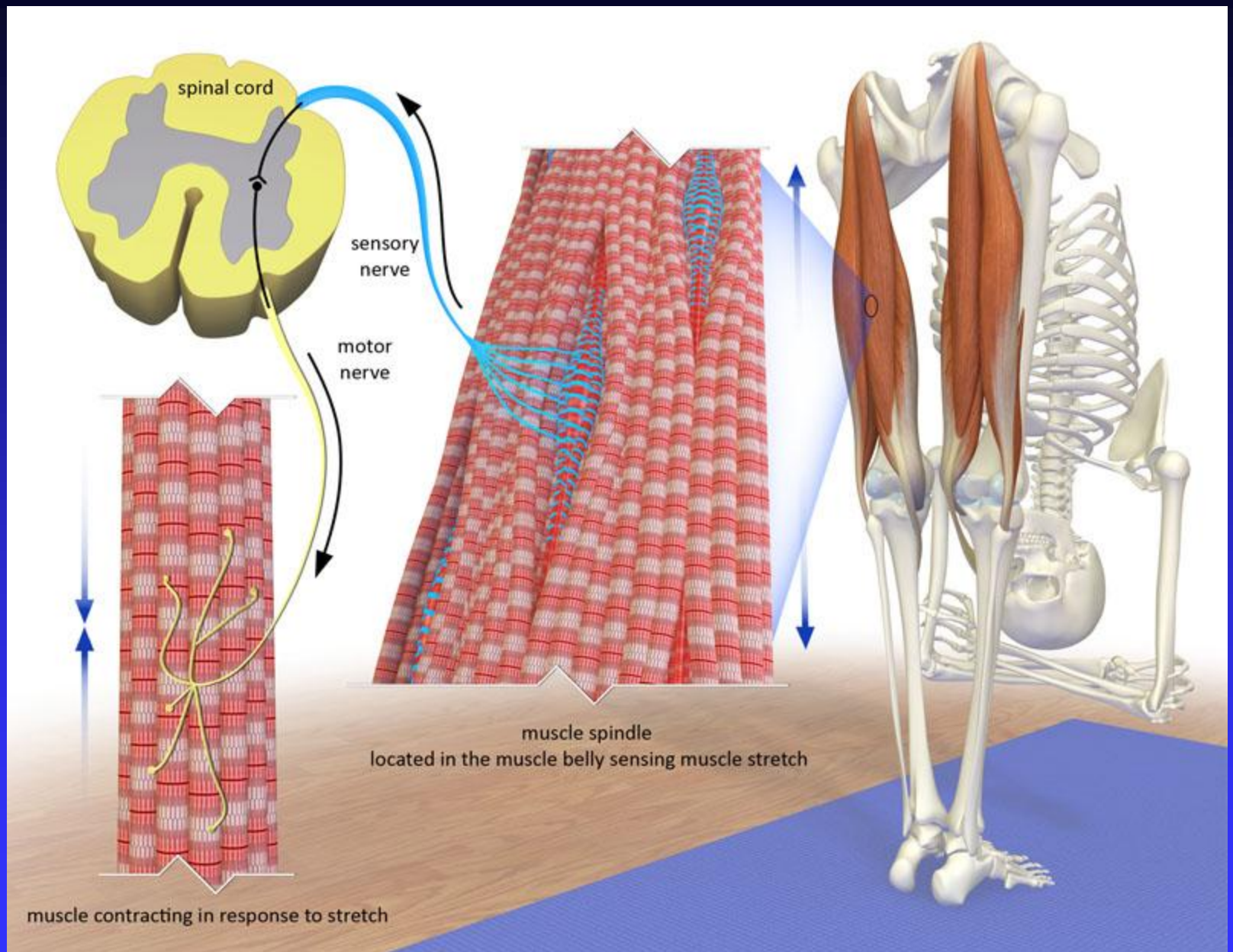
MUSCLE SPINDLE



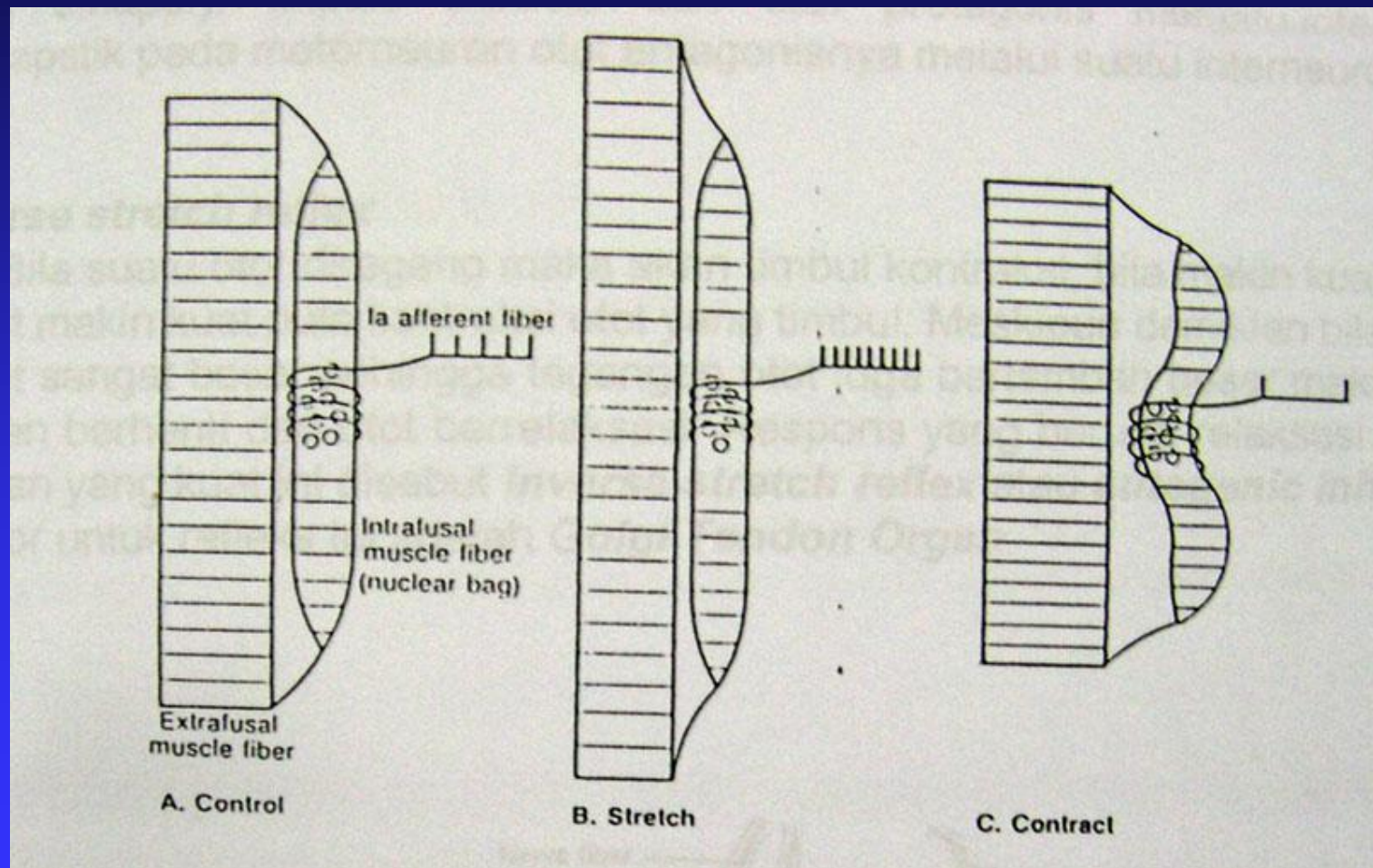
GOLGI TENDON ORGAN

Muscle Spindle

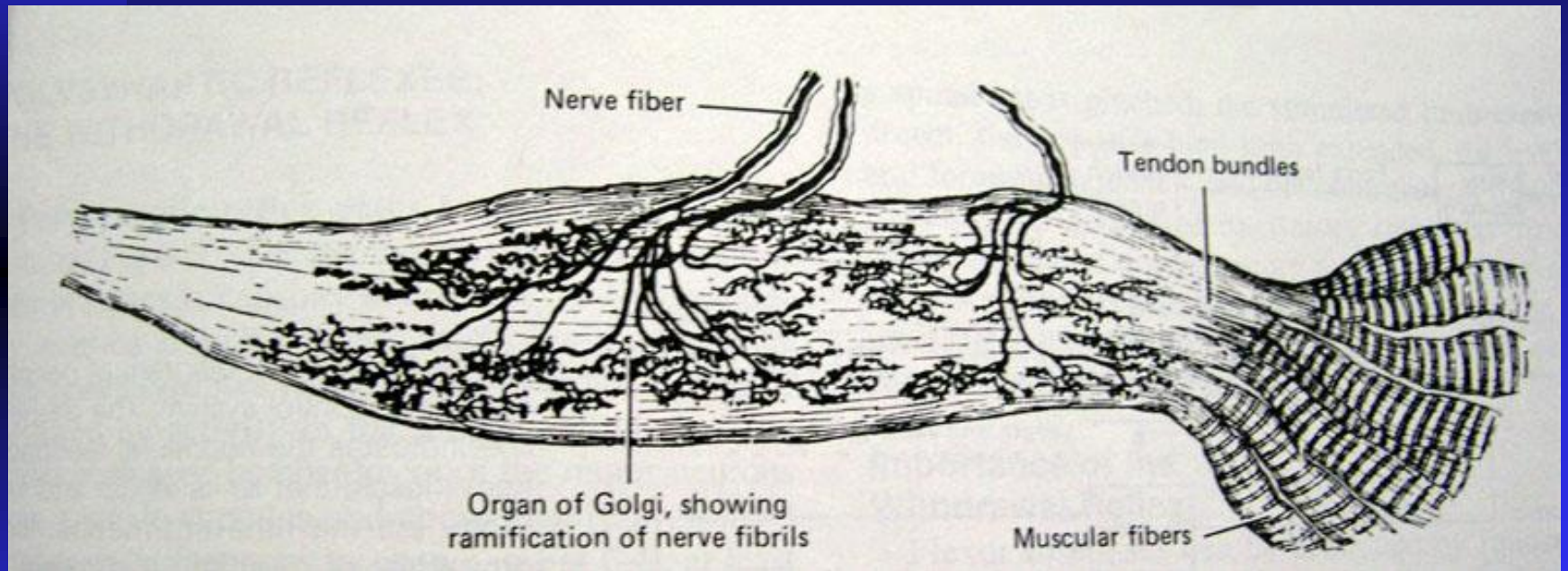




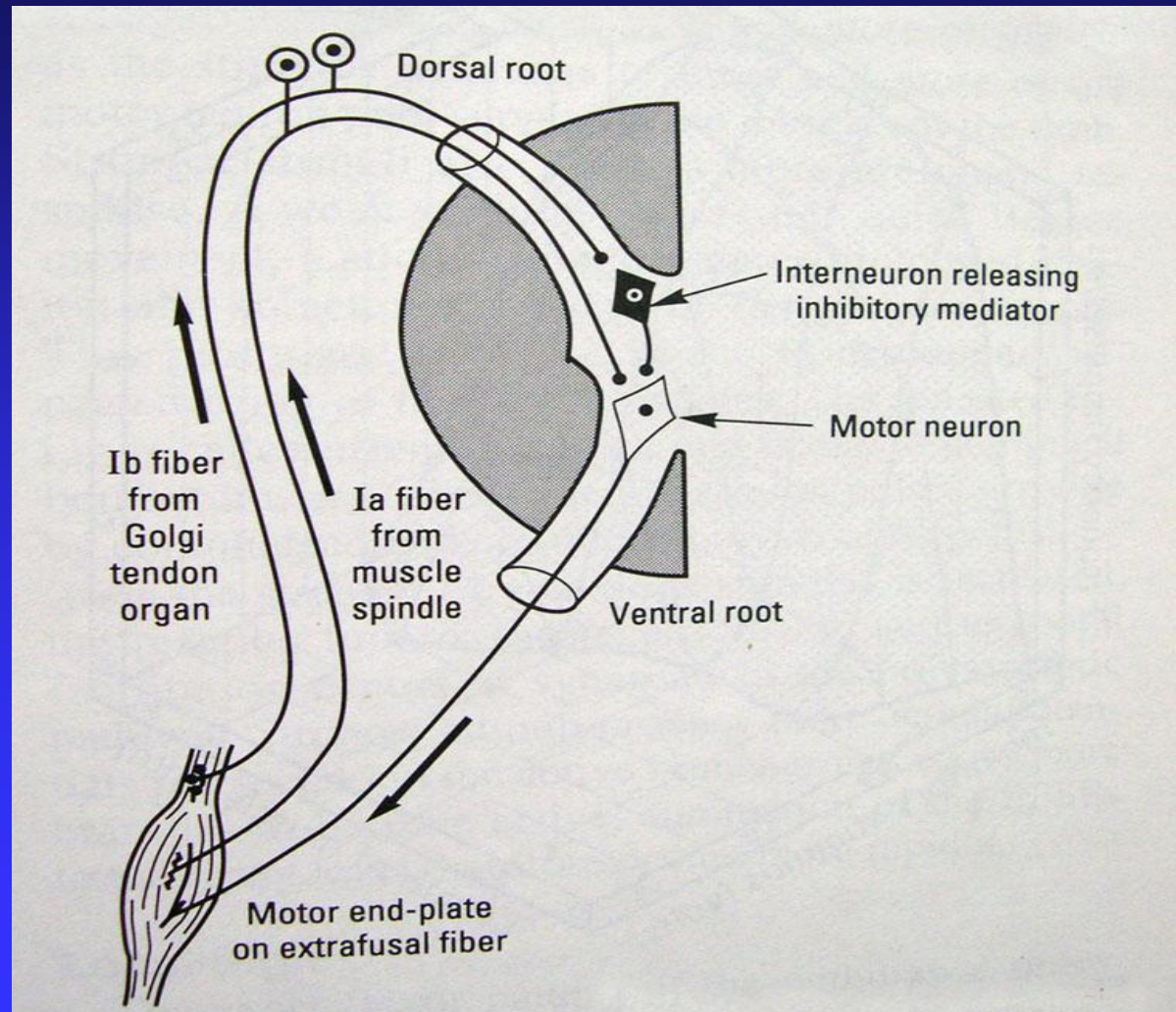
Kerja muscle spindle



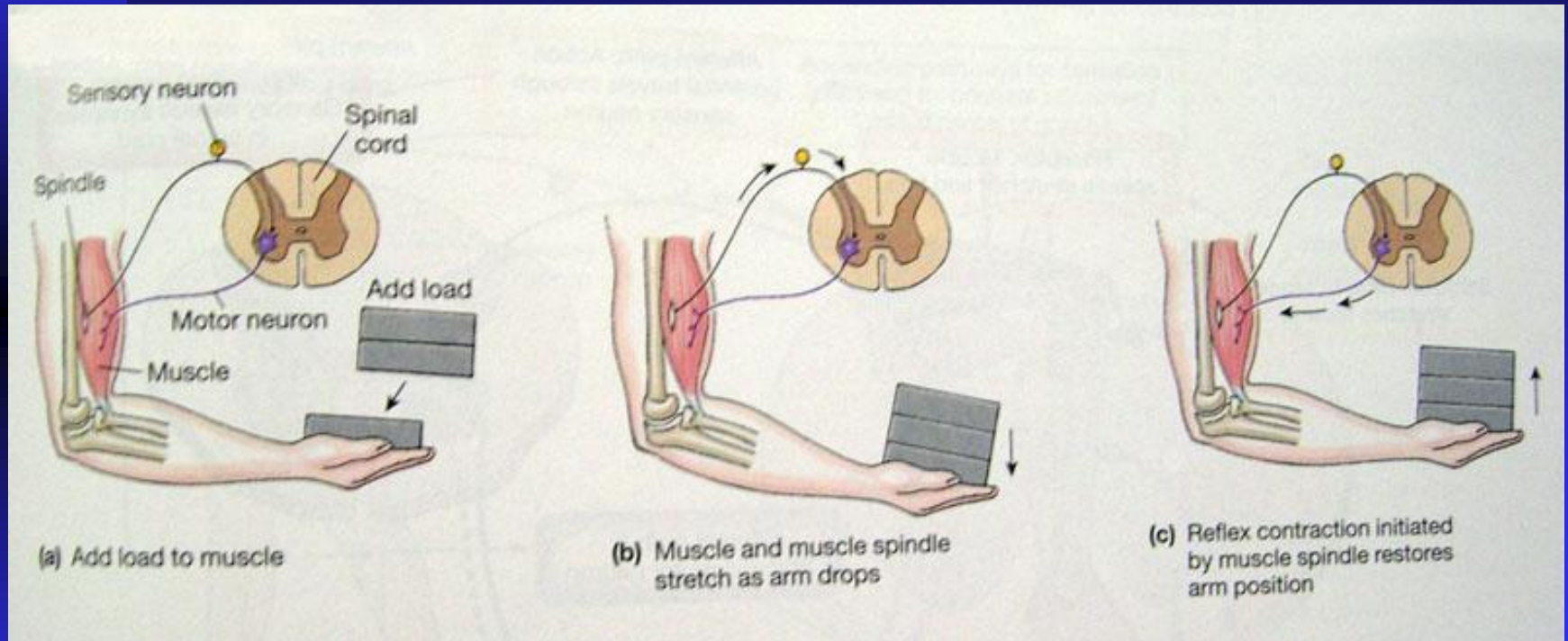
Golgi Tendon Organ



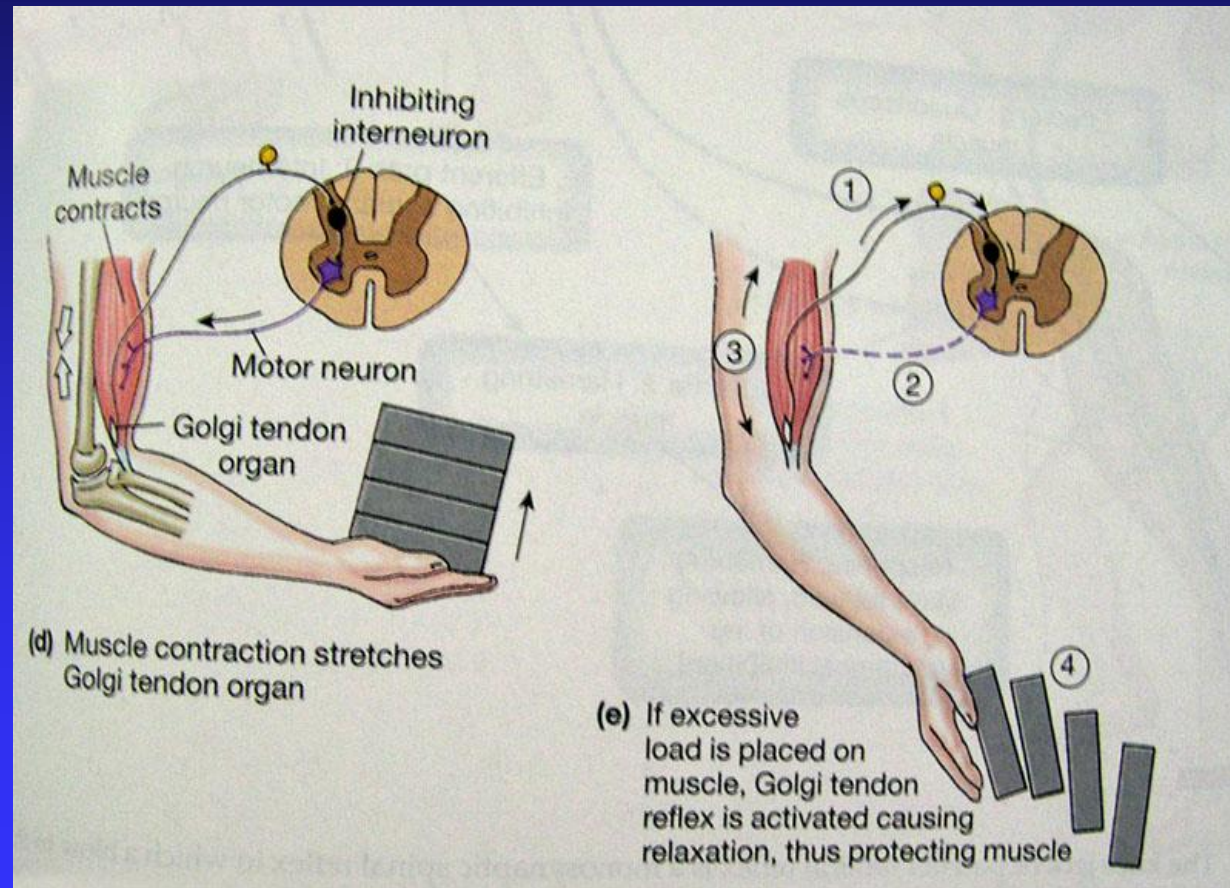
Jalur refleks muscle spindle & golgi tendon



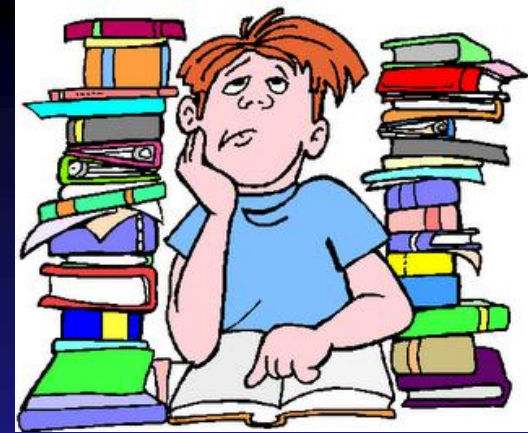
Muscle spindle reflex + GTO reflex



Muscle spindle reflex + GTO reflex



Reminder :



- Dari mana saja sumber energi untuk kontraksi otot ?
- Penggunaan energi pada mekanisme kontraksi otot terjadi pada saat ?
- Fungsi Muscle Spindle dan GTO ?



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