



SNS COLLEGE OF PHYSIOTHERAPY COIMBATORE-35

COURSE : BPT

SUBJECT : BIOMECHANICS

TOPIC : ACTIVE AND PASSIVE INSUFFICIENCY

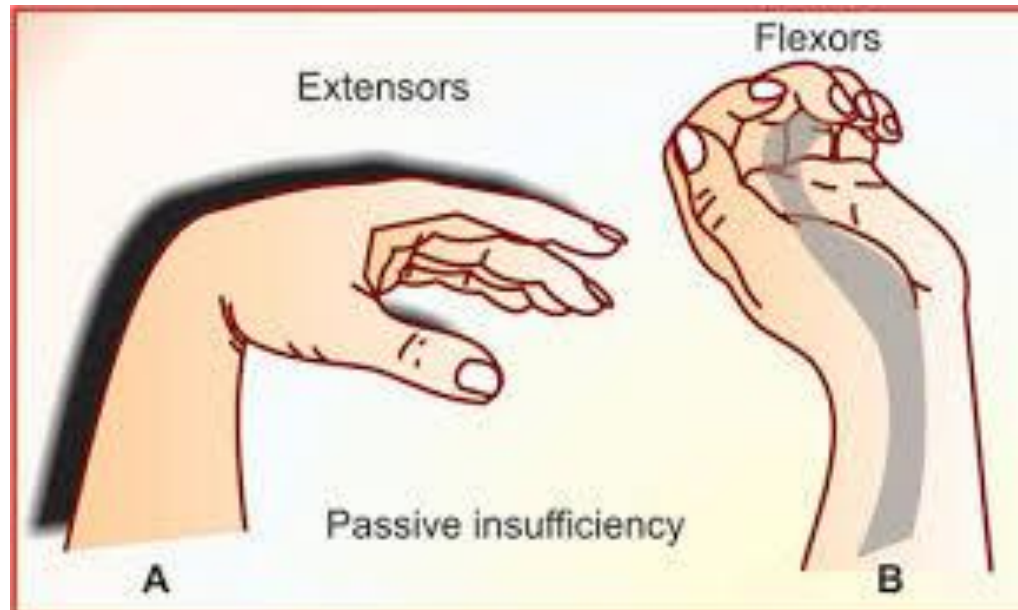
UNIT : IV

PREPARED BY :ARCHANA K

ASSISTANT PROFESSOR

- **ACTIVE INSUFFICIENCY:**
 - Inability to contract muscle at both joints simultaneously.
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- **PASSIVE INSUFFICIENCY:**
 - Inability to stretch muscle at both joints simultaneously

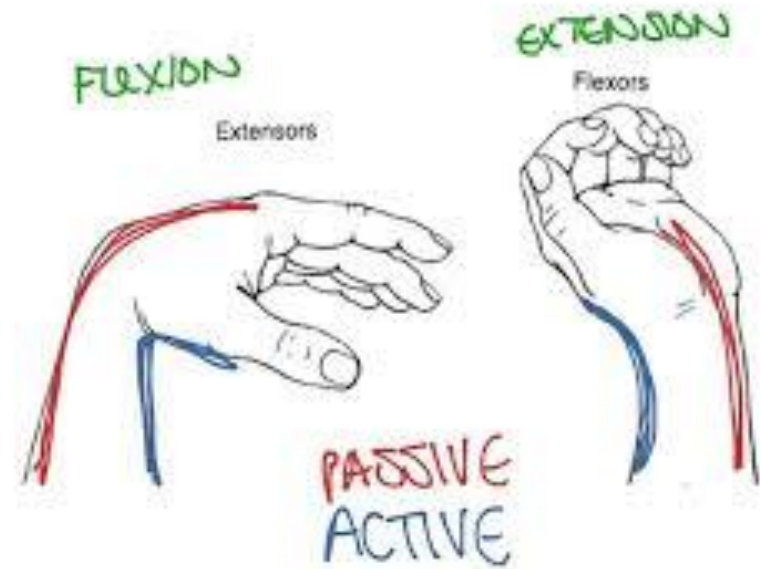
- Passive insufficiency
- E.g: making fist with flexed wrist:
- Extensors undergo passive insufficiency.
- tight fist cannot be made.



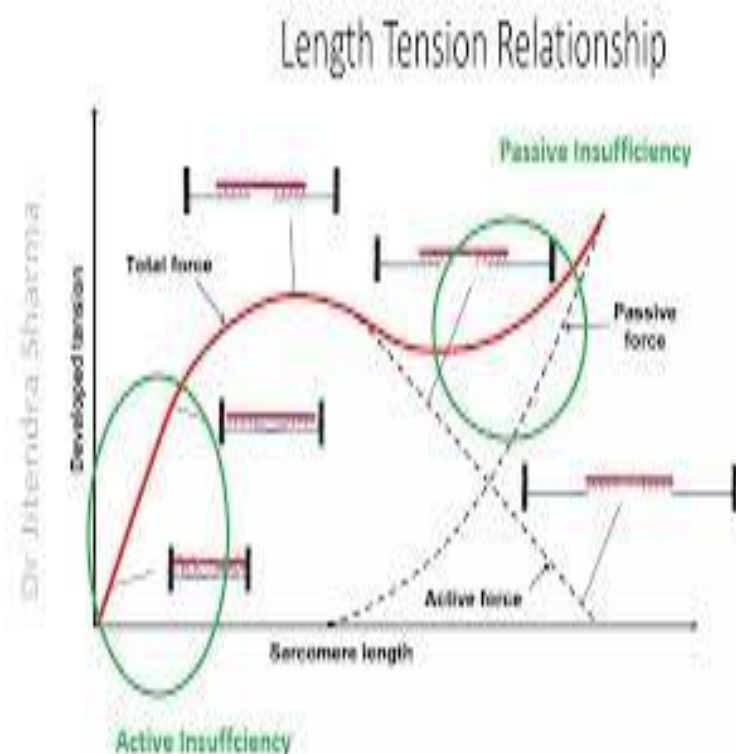
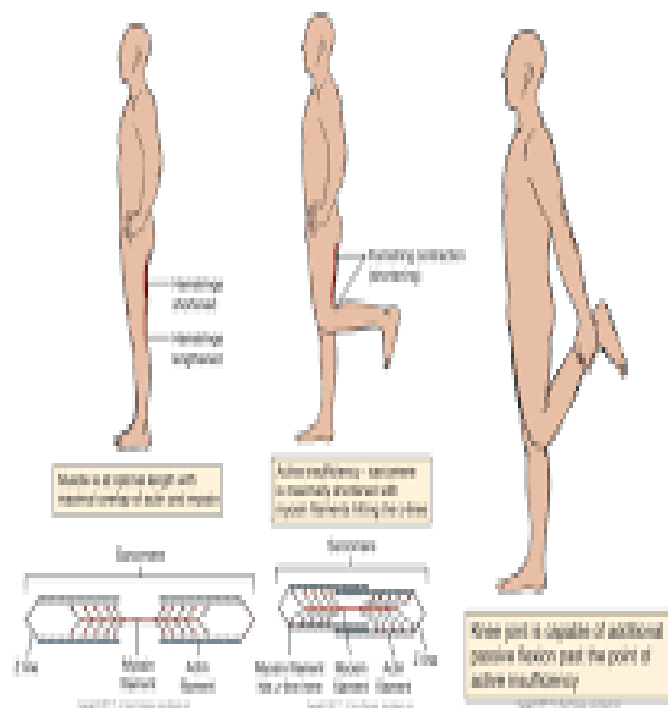
- Flexors undergo active insufficiency-preventing tight fist formation.



- Wrist flexion:
- Extensor muscles are lengthened over flexed wrist.
- They become insufficient to contract at the IP joint- finger extension.



THREAD 1: ACTIVE and PASSIVE Insufficiency



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THANKYOU