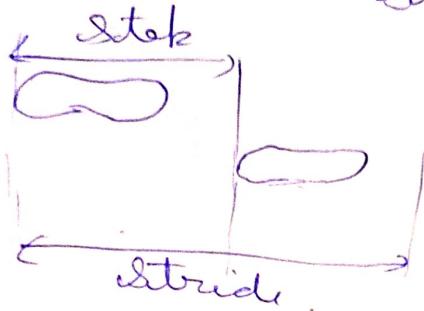


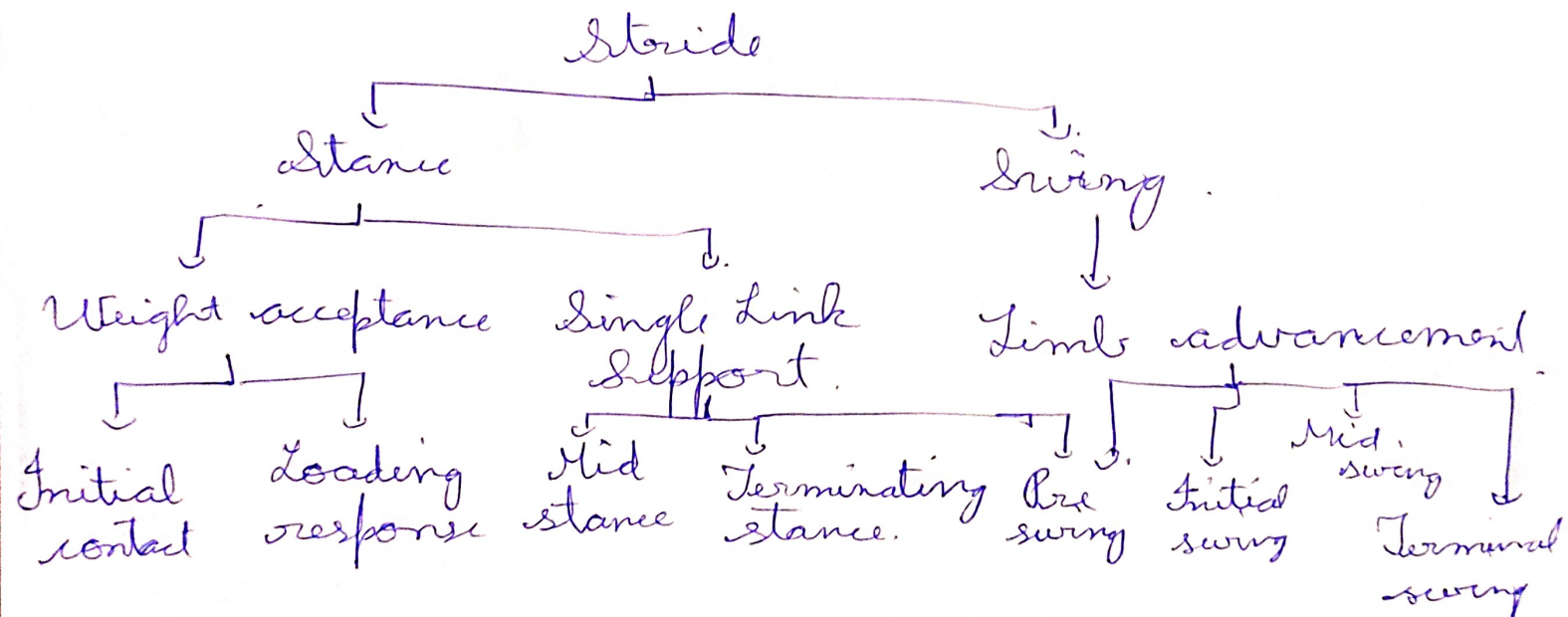
Gait Cycle:-

Double Support  $\rightarrow$  Single Support  $\rightarrow$  Double Support  
 (10%) (40%) (10%)

Single Support (40%)



Normal gait cycle  
 $\rightarrow$  Symmetric gait cycle



Initial contact: The moment foot touches the ground.

Opposite toe off: The moment foot initial contact when the other toe lifts off.

Heel rise: The moment when the heel of stance leg lifts off.

Swing phase  $\rightarrow$  feet adjacent and tibia vertical

Loading response: Initial DS when limb accepts weight.

Mid stance: First phase of SS  $\rightarrow$  body advances over the supporting limb and moves ahead.

Terminal stance: Last phase of SS and it ends with Opposite initial contact.

Pre-  
~~Final~~ swing: Final DS period in preparation for swing. Weight is shifted to opposite limb.

Initial swing:  $\frac{1}{3}^{\text{rd}}$  of the swing period: Ends with feet adjacent.

Mid swing: ( $\frac{1}{3}^{\text{rd}}$  to  $\frac{2}{3}^{\text{rd}}$  of swing period). Ends with tibia vertical.

Terminal swing: Comprises of the last  $\frac{1}{3}^{\text{rd}}$  of the swing.

Cadence = steps per minute

$$\text{Cycle time} = \frac{120}{\text{Cadence}}.$$