

# **Correction + Abbreviations**

Physiology Team

# Lecture 2 – Cardiac Electrical Activity

Team  
Work

**The difference between Ventricle action potential and SA node :**

	Ventricle Action Potential	SA Node Action Potential
Resting Membrane potential ( RMP )	( -85 to -95 )	( -55 to -60 )
Fast sodium channels	Open	Closed The cause: the membrane potential is -55 mV ( <u>more negative</u> )
Slow Calcium-sodium channels	Open In the plateau phase	Open
Speed Of Develop	Faster	Slower The cause: Only the slow sodium channels can be activated
Speed Of Return to RMP	Faster	Slower

## Factors affecting VR (Preload)

- **Muscle pump.:**

Rhythmical contraction of limb muscles as during normal locomotion (walking, running, swimming) promotes venous return by the muscle pump mechanism.

Decrease in diameter

- **Sympathetic vasoconstrictor tone:**

Sympathetic activation of veins ~~decreases~~ increases central venous pressure and promotes venous return and augmenting cardiac output through the Frank-Starling mechanism, which increases the total blood flow through the circulatory system.

- **Respiratory activity.:**

During inspiration, the venous return increases because of a decrease in right atrial pressure.

# Some abbreviation in Cardiac Cycle lecture

Abbreviation	Stand for
Vs	Valves
B/t	Between
w/out	Without
LV	Left Ventricle
VR	Venous Return
MP	Main Pressure
Bl	Blood

**We did not write them in our team work because the doctor said she will send it later on but maybe she forget that 😊**