

CHF (Conjestic ♥ Failure)

CHF :- Failure of ♥ Pumping Capacity due to failure in the contraction of ♥.

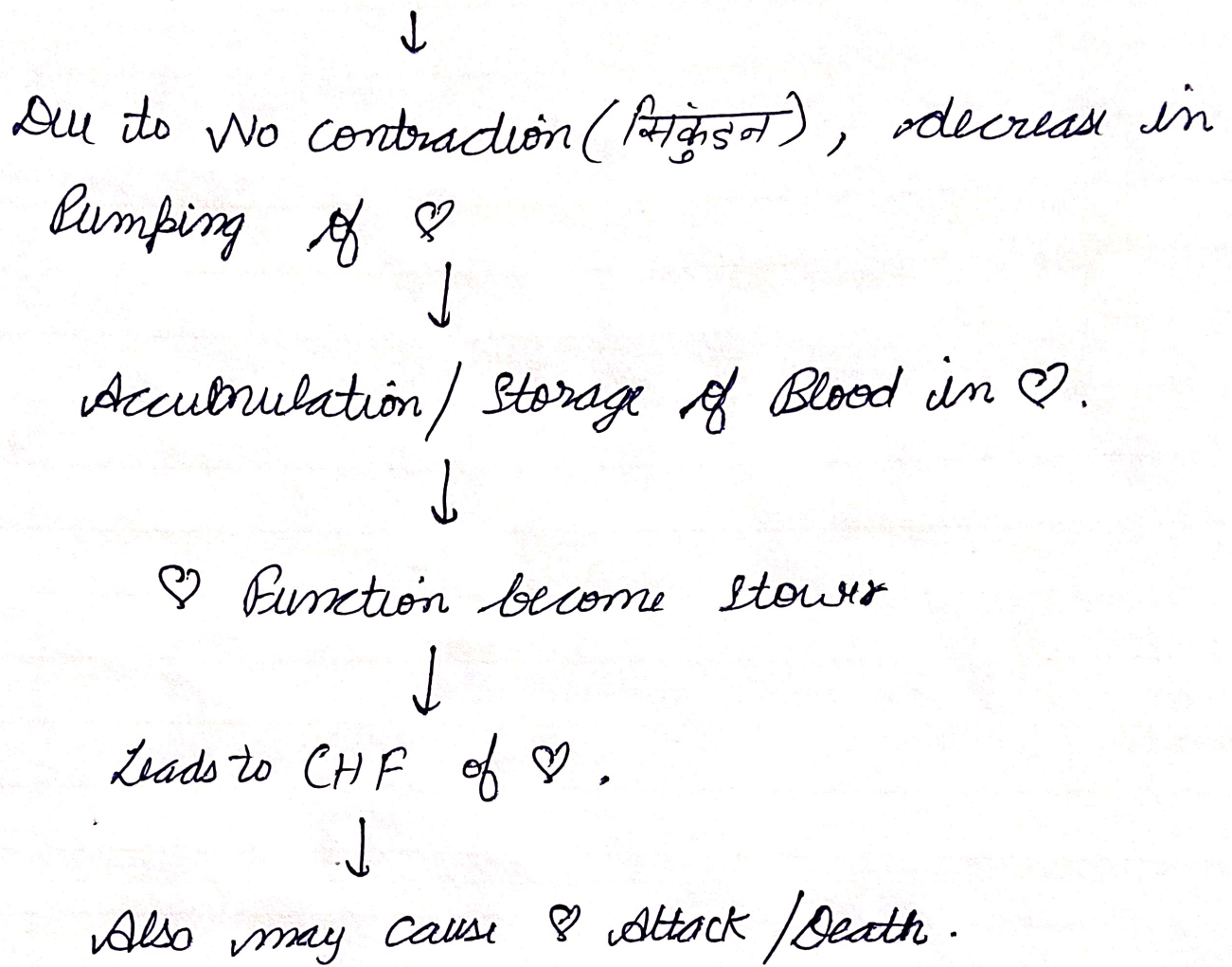
- ★ Contracting force helps in contraction of heart, that leads to pumping of Blood.

↓
When Force of contraction decrease, it leads to CHF.

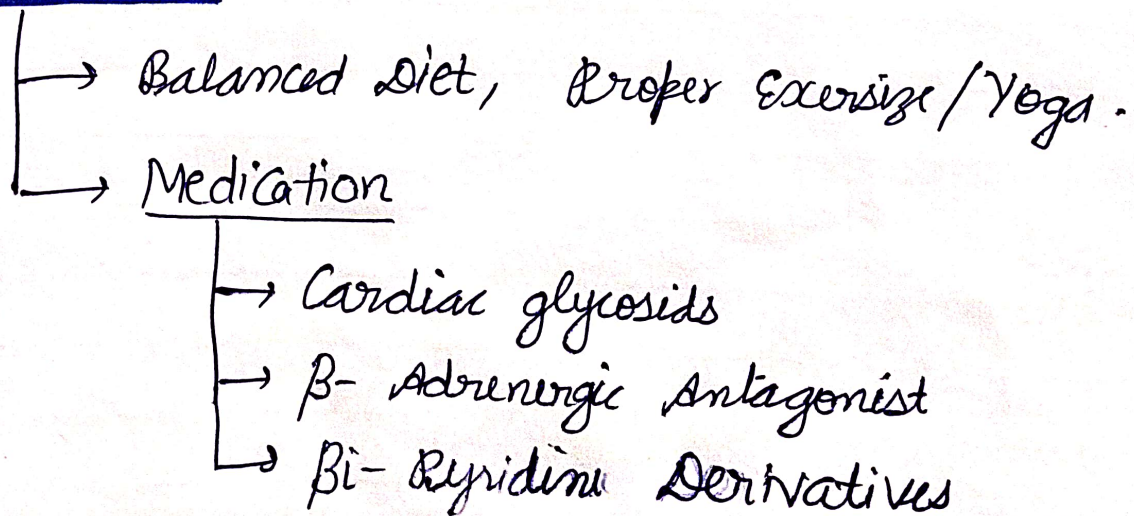
- ★ Causes :-
 - Atherosclerosis ()
 - Hypersensitivity
 - Decrease in Blood amount.
 - Imbalanced diet.
 - Defective Action Potential mechanism etc.

★ Mechanism of Action : (of Disease)

Etiologic Factors (Any Cause)
↓
Decrease in Force of Contraction
↓



Treatment



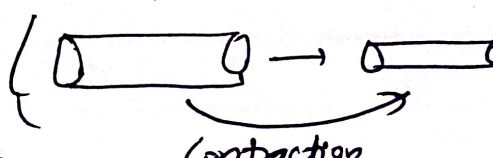
★ Cardiac Glycosides:- Extracts from Plants.

Example - Digoxin & Digoxin.

MOA - They cause opening of Na^+ & Ca^{++} Channels.

↓
+ve charge inside the Cells.

↓
 Ca^{++} can help to contract Blood

Vessels ( → ↑ Pressure of Blood)

↓
Decrease in diameter of Blood Vessel results in Increase Blood Pressure to flow.

↓
↑ Contraction

★ β -Adrenergic Antagonist :-

Example - Atenolol, Propranolol etc

MOA

↓ Inc the Sympathetic Activity of SNS



↓ Inc in ♥ load.



↓ Inc in the Force Generation



Contracting Force Enhances

Side Effects :-

- May Cause Tachycardia (↑ Inc ♥ Beats)
- May Effect heart life Long functioning
- May cause hypercalcaemia (↑ Inc calcium level)