Chapter 2 AIM & OBJECTIVES

2.1 AIM:

The aim of the study was to describe the morphometric & morphological features of various Valves of Heart & Papillary muscle and to explain the anatomical variations, embryological remnants (Left venous Valve remnant, Chiari network) present in the interior of the heart.

2.2 OBJECTIVES: Primary objectives of present study were as mentioned below.

2.2.1 To study morphology of tricuspid valve by observing various parameters like the number of cusps present, shape of cusp, number of cleft and scallop present in cusps and by measuring length & width of cusp & annular circumference of valve.

2.2.2 To describe morphology of bicuspid valve, by observing various parameters like the number of cusps present, shape of cusp, number of cleft and scallop present in cusps and by measuring length & width of cusp & annular circumference of valve.

2.2.3 To study morphology of normal and variation in aortic valve, by measuring various parameters namely: length of cusps, width of cusp, annular circumference of valve, origin and variation in coronary arteries.

2.2.4 To determine morphology of normal and variation in pulmonary valve, by measuring various parameters namely: length of cusps, width of cusp, number of cusp, annular circumference of valve.

2.2.5 To study morphology of Eustachian valve by analyzing various parameters namely: presence or absence of valve, structural composition of Eustachian valve.

2.2.6 To study morphology of Thebesian valve by observing various parameters namely: presence or absence of valve, structural composition , shape ,site of attachment on coronary sinus and its mode of covering the coronary sinus orifice.

2.2.7 To study morphology of coronary sinus by measuring various parameters namely: craniocaudal diameter, transverse diameter.

2.2.8 To study morphology of papillary muscle by measuring various parameters namely: number, length, number of additional head if present, shape of tip, pattern of papillary muscle.

2.2.9 To identify chiari network and if present, its morphology was studied by observing its structure, attachment of both ends either on inferior vena cava, coronary sinus or on right atrial wall.

2.2.10 To study variation in structure of remnant of left venous valve if present.

2.2.11 To find out variation in different measured parameters of heart.