CLINICO-ECHOCARDIOGRAPHIC EVALUATION OF CARDIOVASCULAR MANIFESTATION IN PATIENTS OF CHRONIC RENAL FAILURE

Case No.

OPD/MRD No. ___________ Date :

Name of patient : Ward/Bed :

Age/sex :

Address :

Occupation :

Socio-economic Status :

Active/Sedentary :

Marital Status : Single/married

Referred by :

CHIEF COMPLAINTS

1. 3.

2. 4.

HISTORY OF PRESENT ILLNESS

Dyspnoea : Exertional dyspnoea : Duration

Grade

Paroxysmal Nocturnal dyspnoea

Orthopnoea

Cough : Duration

Nature - Dry

Productive

Timing
Chest pain

Duration
Character
Site
Radiation
Precipitating factors
Relieving factors
Frequency

Haemoptysis

Duration
Frequency

Palpitation

PAST HISTORY

1. Hypertension
2. Diabetes
3. Chronic recurrent UTI
4. Recurrent renal colic
5. Swelling over body
6. Tuberculosis

FAMILY HISTORY

IHD
Hypertension
Diabetes

If yes, state age, relationship :

PERSONAL HISTORY

Vegetarian/Nonvegetarian

Whether addicted to any intoxicant

HISTORY OF DRUG INTAKE

PHYSICAL EXAMINATIONS

1. General appearance
2. Weight kg
3. P.R. /min.
4. Height cms
5. R.R. /min.
6. Temperature
7. Pallor
8. Icterus
9. B.P. : Upper Limb
   Lying posture - Systolic
   diastolic
   Standing (after 10 min) - Systolic
   Diastolic

   Lower Limb
   Lying posture - Systolic
   Diastolic
   Standing (after 10 min) - Systolic
   Diastolic

   CARDIOVASCULAR EXAMINATION

   Inspection : Shape of precordium
   Visible pulsation

   Palpation
   Site of apex beat & its character
   Left parasternal heav
   Thrill
   Palpable heart sounds

   Percussion

   Auscultation
   Area  1st sound  2nd sound Accompaniment
   Mitral
   Aortic
   Tricuspid
   Pulmonary

   RESPIRATORY SYSTEM EXAMINATION

   ABDOMEN : Liver - Enlarged/Tender/Pulsatile
   Spleen
   Ascites

   NERVOUS SYSTEM
   Higher psychological function :
   - Appearance and behaviour :
   - Consciousness - Normal/Semiconscious/Comatose/
- Cranial nerves
- Motor system
- Sensory system

INVESTIGATIONS

TLC : cells/cumm.
DLC : P %, L %, E %, M %.
Hb : gm%
ESR : mm in 1st hour
Blood urea : mg%
Blood sugar : F mg%
           : PP mg%
Sr. creatinine : mg%
Sr. Cholesterol: mg%
Sr. Sodium
Sr. Potassium
Sr. Uric Acid : mg%
Urinary creatinine
clearance

Urine : Albumin :
       Sugar :
       M/E :

X-ray Chest :

E.C.G.

ECHOCARDIOGRAPHY

2-D and M-Mode Echocardiography study :
Mitral Valve :
       AML : EF Slope
       DE Amplitude
       EPSS
       Valve Area
       Thickening/Calcification/Doming/
       flutter/vegetation/Prolapse/SAM.
PML: Motion: Normal/Paradoxical
    Thickening/calcification/
    Prolapse/vegetation.

Tricuspid Valve:
    ATL: EF Slope
        DE amplitude
        Thickening/calcification/doming/vegetation.

PTL: Motion: Normal/Paradoxical

Aortic Valve:
    Cusp separation
    Ecentric index
    No. of cusp
    Thickening/calcification/vegetation

AORTIC ROOT DIAMETER

Pulmonary Valve:
    EF Slope
    A wave
    Mid systolic closure

Left Atrium:
    Dimension
    Thrombus

Right Ventricle:
    Anterior RV wall
    RV dimension

Left Ventricle:
    LV dimension (End diastolic)
    LV dimension (End systolic)
    LV posterior wall thickness ED
    LV posterior wall thickness ES
    LV end diastolic volume
    LV end systolic volume.
LV ejection fraction
LV fractional shortening

Interventricular Septum:
  Thickness wD:
  Motion - Normal/Paradoxical
  IVS amplitude

Right Atrium:
Pericardium:

Position of great arteries:

Contrast Echo study:

Comments:
  M-Mode:
  2-D Echo

Final Diagnosis

Renal biopsy:
(if needed)

TREATMENT GIVEN
Conservative treatment:

Haemodialytic treatment:

FOLLOW UP AFTER 4 WEEKS OF MAINTENANCE HAEMODIALYSIS

PHYSICAL EXAMINATION
1. General appearance
2. Weight kg
3. P.R. /min.
4. R.R.
5. Temp.
6. Pallor
7. B.P.: Upper Limb - Lying posture - systolic
diastolic
   Standing (after 10 min) - systolic
diastolic
Lower limb - Lying posture - systolic
diastolic
   Standing (after 10 min) - systolic
diastolic
8. Icterus 9. Cyanosis
12. J.V.P.

CARDIOVASCULAR EXAMINATION
Inspection: Shape of precordium
             Visible pulsation
Palpation: Site of apex beat & its character
          Left Parasternal Heav
          Thrill
          Palpable heart sound

Percussion:

Auscultation

<table>
<thead>
<tr>
<th>Area</th>
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<th>2nd sound</th>
<th>Accompaniment</th>
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<tbody>
<tr>
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RESPIRATORY SYSTEM EXAMINATION
ABDOMEN: Liver - enlarged/tender/pulsatile
         Spleen
         Ascites

NERVOUS SYSTEM EXAMINATION

INVESTIGATIONS

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<td>mm in 1st hour</td>
<td>Blood Urea:</td>
<td>mg%</td>
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<tr>
<td>Blood sugar</td>
<td>mg%, PP</td>
<td>mg%</td>
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</tr>
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ECHOCARDIOGRAPHY

SUMMARY