




CASE

PRESENTATION

Dr.likitha

2nd yr Post Graduate

Department of Ophthalmology

- 
- ❖ Informant : Mother
 - ❖ Name : xxxxx
 - ❖ Age : 2yrs
 - ❖ Sex : Male
 - ❖ Occupation: -
 - ❖ Residence : Nalagonda

Chief Complaints

- Child was brought to the hospital with chief complaints of white color reflex in the both eye since 1 year.

History Of Present Illness

- ▶ A 2yr male Child was brought to the ophthalmology department by his mother with chief complaint of whitish reflex in the both eyes
- ▶ White reflex was noticed by his mother which was gradually progressive & painless.
- ▶ No h/o Trauma
- ▶ No h/o Deafness
- ▶ No h/o diarrhoea
- ▶ No h/o vomiting
- ▶ No h/o deviation of eye
- ▶ No h/o abnormal moments of eye.

ANTENATAL HISTORY

- All trimesters were uneventful
- No H/O any intake of drugs /Radiation exposure
- No H/o infections

Birth history

- Uneventful
- Place of delivery : Hospital
- ❖ Full term Normal vaginal delivery
- ❖ Birth weight:2.5kg

DEVELOPMENTAL HISTORY

- ▶ Child attained all milestones at appropriate age

Family History

- ❖ No H/O similar complaints in the family

Personal History:

- ❖ Diet - Normal
- ❖ Bowel and Bladder - Regular & Normal
- ❖ Appetite - Normal
- ❖ Sleep - Adequate

Differential Diagnosis ?





- ▶ Congenital cataract.
- ▶ Retinopathy of prematurity.
- ▶ Persistent hyper plastic primary vitreous.
- ▶ Retinoblastoma
- ▶ **Coats Disease**



Examination



General Examination

- TEMPERATURE – 97.8 F
- PULSE – 95 BPM
- RESPIRATORY RATE – 25 BPM
- BP - 90/60 mm of HG

Systemic Examination



- ❖ CVS —Normal
- ❖ Respiratory system —Normal
- ❖ CNS —Normal
- ❖ GIT - Normal



Ocular Examination



VISUAL ACUITY

| RE | LE |
|--|--|
| <p>Child is unable to appreciate picutres shown on cardiff acuity card</p> | <p>Child is able to appreciate pictures shown on cardiff acuity card</p> |


The Principle of the target design is that of vanishing optotype.

Targets are pictures drawn with a white band, all on a neutral grey background.

Examiner simply observes the child's fixation.



CARDIFF ACUITY CARD TEST

- 
- ❖ Head posture - Normal
 - ❖ Facial symmetry —Bilaterally symmetrical
 - ❖ Ocular symmetry —Maintained
 - ❖ Ocular movements —Full range in all directions

Slit Lamp Examination

| | RE | LE |
|-------------------------|--------------------------------------|--------------------------------------|
| EYEBROWS | Normal | Normal |
| EYELIDS | Normal | Normal |
| CORNEA | Clear | Clear |
| ANTERIOR CHAMBER | Normal depth , clear contents | Normal depth , clear contents |
| IRIS | Normal pattern & colour | Normal pattern & colour |

PUPIL

**Single,circular ,
central**

size- normal

**White reflex seen in
pupillary area**

**Direct & consensual
light reflex present.**

**single ,circular,
central**

size-normal

**White reflex seen in
pupillary area**

**Direct & consensual light
reflex present**

LENS

**Greyish white
opacity with thick
posterior sub-
capsular opacity**

**Early posterior sub-
capsular opacity**

- 
- ▶ Child has been sedated under Short GA for further examination

Fundus Examination

| | RE | LE |
|------------------|--|---|
| Media | Media hazy Red glow present | Media hazy |
| Disc | details hazy | 1. Normal in Size, pink , Circular , Well defined margins 2. CDR-0.3:1 |
| Vessels | details hazy | Normal A:V Ratio-2:3 |
| Macula | details hazy | Normal FR(foveal reflex)+ |
| Periphery | details hazy | Normal |

Intra Ocular Pressure

- ❖ Both Eyes :Normal {18mm Hg with schiotz tonometer} Under Short GA.

INVESTIGATIONS





➤ B-SCAN – Normal

➤ A-SCAN

K1 – 44 D

K2 – 45.25D


Axial length – 21.58

IOL power - +25D

LABORATORY INVESTIGATIONS

BLOOD TESTS:

- RBS – 100mg/dl
- CBP –
 - HB- 13g/dl
 - haematocrit -35%
 - MCV – 85fl/redcell
 - MCHC-35%
 - WBC - 15 cells / mcl
 - neutrophils – 40%
 - Lymphocyte- 70%

- 
- plasma calcium : 9mg /dl
 - Phosphorus : 4.3 mg/dl
 - ▶ Serum galactokinase – Not Done
 - ▶ RBC transferase – Not Done
 - ▶ TORCH Titre - Negative

URINE TESTS

➤ CUE

colour- yellow

Turbidity- clear

sp gravity- 1.018

PH – 6.5

glucose: Negative

ketones : -

blood : -

protein : -

Bilirubin : -



Ammonia – 0.05%

urea - 2%

Uric acid -0.03%

Creatinine-0.1%

Sodium – 0.1%

Potassium -0.6%

Calcium – 0.015%

Chloride- 0.6%

Phosphate-0.12%

Sulphate – 0.18%



DIAGNOSIS

What is the probable diagnosis?





**BOTH EYES IMMATURE
CATARACT (CONGENITAL)**

MANAGEMENT



- ▶ Small incision cataract surgery with PCIOL implantation done for Right Eye under GA.
- ▶ Post op patient has kept on topical steroids which was tapered after two weeks.
- ▶ Patching therapy done for Left Eye postoperatively.
- ▶ On post op follow-up residual refractive error was corrected for Right Eye.

THANK YOU