CBL Case

Learning objectives: The student is able to

1. Describe the anatomy of male genitalia and its anamolies.
2. Describe the secretion and regulation of testosterone and gonadotrophins.
3. Describe the normal and abnormal semen parameters.
4. Identify the causes of male factor infertility.
5. Know the importance of clinical examination and investigation of male in infertile couple.

Case:

30 years old female married since 4 years, visited infertility clinic with complains of failure to conceive, her physical examination and results of investigations were with in normal limits. Her husband is 35 years old driver, is a chain smoker and addicted to pan with tobacco and gutka. He does not have coital problem. He was examined and investigated, findings are as below.

On clinical examination:

Blood pressure – 130 /90 mmHg

Body weight -65kg

Local examination of genitalia: No anatomical abnormality.

Laboratory result of semen analysis:

Volume: 2.5 ml

PH: 7.3

Sperm concentration: 13 million/ml

Motility : 25% with rapid linear progression 05%

Morphology : 10% normal forms

Viability: 20%

White blood cells : 1-2

Questions:

1-Compare parameters of semen analysis in this case with normal limits?
2-Name the underlying condition?
3-Explain the type of sperm motility?
4-What are the causes of male infertility?
5-What is the cause of his problem?
6-Is he symptomatic?
7- How would you explain role of testosterone and gonadotrophins in spermatogenesis?
8- How will you examine this patient clinically?
9-How would you explain role of occupational and environmental factors in causing male infertility?
10-Describe the role of infection?