



WELCOME

**REACTIVATION OF HEPATITIS B VIRUS (HBV)
FOLLOWING CANCER CHEMOTHERAPY
– A CASE REPORT**

Presented by

Brig Gen Md. Mokhlesur Rahman
Adviser specialist in medicine &
Senior Gastroenterologist
CMH Dhaka

Background

- Reactivation of HBV may occur after immunosuppressive and cancer chemotherapy.
- Aim of this presentation is to make an awareness of this reactivation.

- A forty- five - year old lady

- HBsAg positive since 1994.

In 2000

- HBsAg +ve
- HBeAg +ve
- HBV DNA +ve ($>10^5$ copies / mL)
- ALT – 90 IU/L
- Liver biopsy – chronic hepatitis with moderate activity (HAI score 10/18)

- Treated with injection standard Interferon 4.5 MU s.c. thrice a week for 24 weeks.

After treatment with Interferon

- Patient was symptom free.
- HBeAg -ve
- ALT – 40 IU/L
- HBV DNA –ve

In July 2008

- Developed carcinoma of breast (Lt)
- Operated
- Chemotherapy started with 5 FU, Adriamycin and Cyclophosphamide.

After 5th cycle of chemotherapy:

- Developed anorexia, nausea, fatigue.
- ALT – 1200 IU/L
- HBeAg +ve
- HBV DNA +ve ($>10^7$ copies/ml)
- USG – coarse liver
- PT – 18 sec
- S. Albumin – 34 gm/l.

Treatment

- Tab. Lamivudine 100 mg /day for 1 yr
- Chemotherapy was stopped

Follow up

- ALT – normal after 3 weeks
- HBeAg –ve after 3 months
- HBV DNA –ve after 6 months and remained –ve at 12 month

Follow up

- Lamivudine stopped after 1 yr
- Patient remain symptom free after 1¹/₂ yr

Conclusions

- Reactivation of HBV may occur after cancer chemotherapy or immunosuppressive therapy.
- At present recommendation of APASL, EASL & AASLD is to start prophylactic Lamivudine, Entecavir or any other antiviral drugs in all patients who are positive for HBsAg irrespective of HBeAg, ALT or HBV DNA status before starting chemotherapy or immunosuppressive therapy.

Conclusions

- Prophylactic Lamivudine should be started 1 week before starting chemotherapy and to be continued up to 6 months after completion of chemotherapy.
- All cases to be followed up at least 3 monthly.

Conclusions

- So, HBsAg and Anti HBc should be tested in all such cases.

THANK YOU