

CORRELATION BETWEEN HYPERIMMUNE ANTI-HEPATITIS B IMMUNOGLOBULIN LEVELS AND CLINICAL PARAMETERS IN LIVER TRANSPLANT RECIPIENTS WITH HBV INFECTION

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BACKGROUND AND IMPORTANCE

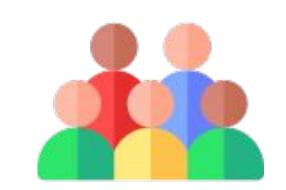


AIM AND OBJECTIVE

Routine vaccination has reduced hepatitis B Evaluation of anti-hepatitis B immunoglobulin (HBIg) virus (HBV) incidence. However, the detection serum concentrations, in HBV-infected liver transplant mostly imported, highlights the patients, during induction and maintenance treatment cases, OT ongoing need for effective, safe, and up-to-date after transplantation, and analysis of clinical and analytical factors that may influence their consistency. HBV treatments.

MATERIALS AND METHODS

Ambispective, observational study from April 2018 to February 2024



Liver transplant adult patients because of HBV-infection on HBIg treatment.



Variables: anthropometric, clinical, pharmacological (concomitant oral antivirals and immunosuppressive treatment).

Dosage:



- In induction: 4000UI on day 1, 2000UI from day 2-7
- In maintenance: 1000-2000UI/month

Therapeutic target range of HBlg concentrations:

- In induction 100-150UI/L(HBV DNA-) or >500UI/L(HBV DNA+*)
- In maintenance: >100 IU/L.

| Dosage HBlg (mean, range) | |
|---------------------------|----------------|
| Induction | Maintenance |
| 243,3 UI/kg/mes | 17,3 UI/kg/mes |
| 276,9-197,8 | 27,8-11,0 |

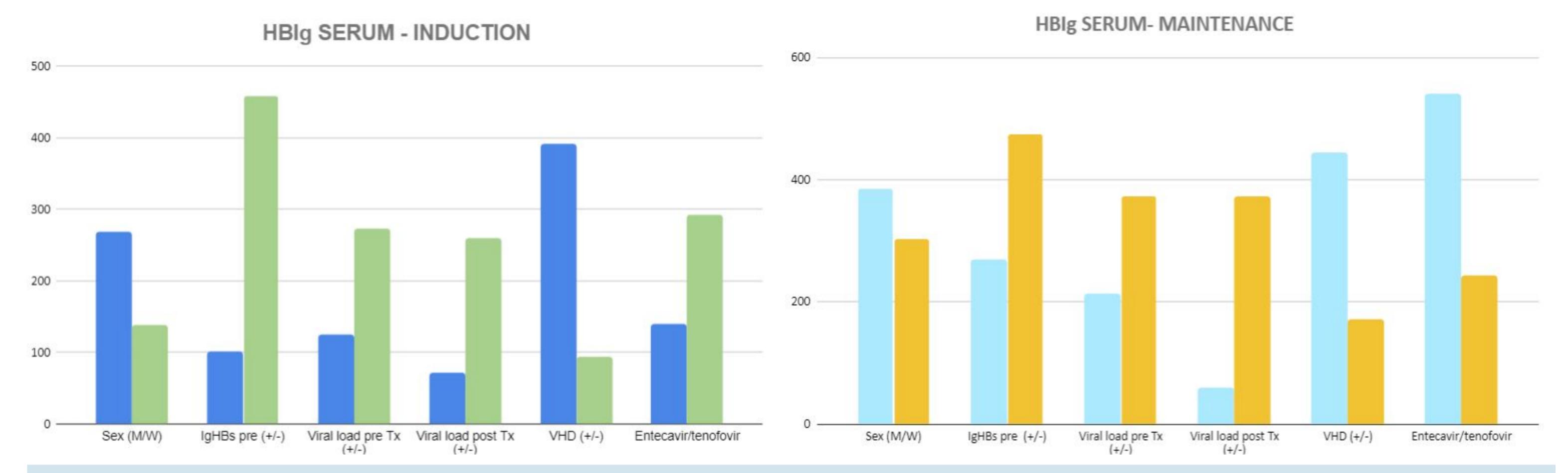
| HBlg pre-dose (mean, SD) | |
|--------------------------|-------------|
| Induction | Maintenance |
| 234,2UI/L | 326,7UI/L |
| 328,9 | 261,5 |

RESULTS

Thirty patients were included:

- 23 (76.7%) men
- Age, mean (SD): 51.8 (12.6) years
- Weight, mean (SD): 76.4 (11.4) kg

Serum HBlg values at induction and HBlg dose are not significantly associated (P=0.434), although they are associated at maintenance (P= 0.007 and 74.4% of the variability explained).



CONCLUSION AND RELEVANCE

- Serum HBIg concentrations and recovery showed significant inter-individual variability, making regular monitoring essential.
- Low HBIg concentrations during induction suggest the need for higher doses to reach the therapeutic range and ensure immunization against HBV.

making the difference in medication

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