Abstract IDDF2021-ABS-0190 Figure 1

Methods A cross-sectional study of all eligible LT recipients from 2008 to 2020 in a leading transplant centre in Singapore was conducted to determine the vaccine response in HBV-naïve subjects. A standardised workflow was devised to identify barriers in vaccination and response monitoring. Transplant coordinators and pharmacists assisted physicians to identify and prescribe CDC-recommended vaccinations using a template, which include Engerix 40mcg of three doses, followed by rechecking anti-HBs titre one month after. A second 3-dose Engerix regimen was given if anti-HBs remains <10 mIU/mL. Non-responder is defined as failure to achieve protective anti-HBs titre after completing two cycles.

Results Of the 279 LT recipients, we excluded patients not on follow-up and patients with anti-HBc positivity. 75 patients were included. Prior to vaccination implementation, 9/75 (12%) were not checked for anti-HBs. Of the 66 checked, 40 required vaccination. 29/40 (72.5%) were started on the first cycle, and 21/40 (52.5%) completed. 11/20 (55%) patients were initiated on the second cycle. Post workflow implementation, 40 needed vaccination. 34/40 (85%) were started on the first cycle and 24/40 (60%) completed. 18/23 (78.3%) were started on a second cycle. 3/4 (75%) were non-responders (IDDF2021-ABS-0190 Figure 1). Our implementation coincided with the COVID-19 pandemic where more teleconsultation was used. COVID-19 vaccination was also prioritised over HBV vaccination. We postulate that these results would be further improved once physical consultations resumed.

Conclusions The development of a standardised workflow can lead to improvement in anti-HBs testing and compliance to vaccination post-LT. These findings may be useful for other patients who are on long-term immunosuppression. Continual efforts from the multidisciplinary team are required to ensure the sustainability of effect.

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A SCREENING MODEL FOR OBSTRUCTIVE SLEEP APNEA ON THE BASIS OF FATTY LIVER DISEASE-RELATED PARAMETERS

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Background/Aims Obstructive sleep apnea (OSA) among patients with nonalcoholic fatty liver disease (NAFLD) has an emerging increased trend, thus noninvasive screening methods are urgently needed to screen for OSA risk in these patients. Therefore, we aimed to screen them while conducting an office-based survey of hepatic steatosis. The routine hepatic check-up methods, such as controlled attenuation parameter (CAP) and hepatic steatosis index (HSI) in patients with or without OSA, are investigated and developed the screening model to detect OSA.

Methods The medical records of all adult patients (aged ≥ 18 years) receiving routine liver sonography examination from June 2017 to June 2020 with completed CAP, polysomnography, and HSI data in our hospital were retrospectively reviewed.

Results A total of 59 patients were included in this study. Among them, 62.7% (37/59) and 74.6% (44/59) (detected by HSI and CAP, respectively) had NAFLD, and 78% (46/59) were diagnosed with OSA- based on standard in-laboratory polysomnography. Binary logistic regression models showed that sex (male, odds ratio 4.17 [95% CI: 1.76-298.92]), body mass index (BMI) (> 24.8 , odds ratio 1.42 [95% CI: 1.09-1.86]), and HSI (> 38.3 , odds ratio 1.17 [95% CI: 1.02-1.36]) significantly screening OSA risk, in descending order of odds ratio. Multivariate analysis showed that male sex, BMI, and HSI independently screen OSA and their combination best screen for OSA risk (sensitivity = 78%; specificity = 85%; and positive and negative predictive values = 95% and 52%, respectively; area under the curve = 0.85).

Conclusions Our result suggests that HSI has better screening performance than CAP. A combination of male, BMI, and HSI proposed here provides a noninvasive and rapid screening tool for OSA risk. The model can be employed while patients receive routine hepatic check-ups in clinical practice. That can be used to efficiently screen for at-risk patients, and thus facilitate earlier detection and timely treatment intervention.

Clinical Gastroenterology

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NUTRITION SUPPORT TEAM FOR INTESTINAL FAILURE PATIENTS ON PARENTERAL NUTRITION: IMPROVING MACRO-AND-MICRONUTRIENTS INTAKE

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Background A nutrition support team (NST) is a multidisciplinary team of physicians, pharmacists, nurses and dietitians, who are responsible for managing patients with complex nutritional needs. NST improves the quality of treatment, clinical outcomes and reduces costs by avoiding unnecessary treatments and simplifying the treatments used. This study reviewed the outcomes achieved after the implementation of an NST on a group of patients who were given parenteral nutrition (PN) at a local acute hospital.

Methods A total of 81 patient records were retrieved for service evaluation analysis. Among the subjects, 44 of the patients on PN who were seen by the NST from Apr 2017 – Jun 2019 were compared to the historical control of 37