Abstract IDDF2019-ABS-0210 Figure 1 Efficacy to date

30 patients on initial presentation. On serial follow up, 9 out of 20 patients required repeat endoscopic session for gastric varices. No thrombin injection-related complication was recorded.

Conclusions Endoscopic therapy with thrombin appears safe and effective in the management of bleeding gastric varices.

IDDF2019-ABS-0194 THE ROLE OF TOCOTRIENOLS IN THE TREATMENT OF NON-ALCOHOLIC STEATOHEPATITIS- A META-ANALYSIS

Richton Eder*, Higinio Mappala, Jose R. Reyes Mem. Medical Center, Philippines

10.1136/gutjnl-2019-IDDFabstracts.280

Background Chronic liver diseases (CLD) represent a major public health problem, accounting for significant mortality of more than 1.75 million deaths are attributed to it. Among these, Non-alcoholic fatty liver disease (NAFLD) is a rapidly increasing cause, with an estimated 13.5% to 31.8% affected globally. Asia has a 33% prevalence rate based on a population study. NAFLD includes a wide spectrum of conditions, from a simple fatty liver, nonalcoholic steatohepatitis (NASH) and cirrhosis or liver cancer. Recent studies have shown that the risk of developing NASH is 4–11 times higher in patients with metabolic syndrome as compared with healthy individuals. The mainstay of treatment for NAFLD is the adoption of healthy lifestyle modification. However, among all the therapeutic options based on recent guidelines, Vitamin E appears to be the frontline treatment for non-alcoholic steatohepatitis (NASH) in non-diabetic adults, with potent anti-inflammatory and antioxidant properties which may reduce liver injury in NAFLD. Tocotrienols have been revered as the new Vitamin E, which is 100 times more absorbed than Tocopherol and with more efficient penetration into the fat tissues. The study focuses on the hepatoprotective effects of Tocotrienol in patients with NASH.

Methods The RCTs reviewed involved 128 non-diabetic patients with 61 patients receiving Tocotrienol (experimental group) at 200 mg/tab, twice daily and 67 patients given placebo (control group). The subject population is demographically homogenous. Other causes of CLD were excluded. Outcome measure includes the reduction in liver transaminases. Statistical tools include the use of Review Manager (RevMan). Sensitivity analysis was analyzed using Mantel-Haenszel procedure for binary data to determine the clinical significance of the effect. Sensitivity analysis was two-tailed, set at p-value < 0.05. Heterogeneity was calculated with i^2

statistics. Odds ratio was assessed at 95% confidence interval (CI).

Results Results in this meta-analysis

Non-diabetic patients receiving tocotrienols had significant reduction of liver transaminases specifically ALT with a p-value of <0.002.

The table is attached (figure 1).

Abstract IDDF2019-ABS-0194 Figure 1

Study or Subgroup	Tocotrienol			Placebo			Weight	Mean Difference IV, Fixed, 95% CI
	Mean	SD	Total	Mean	SD	Total		
Magosso 2013	-13	17.54	31	-3.64	17.81	33	53.8%	-9.36 [-18.02, -0.70]
Perez 2017	-5.9	16	30	-0.6	22	34	46.2%	-5.30 [-14.65, 4.05]
Total (95% CI)			61			67	100.0%	-7.49 [-13.84, -1.13]
Heterogeneity: Chi ² = 0.39, df = 1 (P = 0.53); I ² = 0%								
Test for overall effect Z = 2.31 (P = 0.02)								

Abstract IDDF2019-ABS-0194 Table 1

Conclusions This study showed that tocotrienols may have significant hepatoprotective effects in NASH patients in terms of reduction of ALT levels.

IDDF2019-ABS-0199 THE RISK OF METABOLIC ACIDOSIS IN DIABETIC PATIENTS WITH DIFFERENT SEVERITY OF CHRONIC HEPATITIS B-RELATED CIRRHOSIS AND RENAL IMPAIRMENT

Terry Cheuk-Fung Yip*, Vincent Wai-Sun Wong, Henry Lik-Yuen Chan, Yee-Kit Tse, Grace Lai-Hung Wong. Institute of Digestive Disease, Department of Medicine and Therapeutics, The Chinese University of Hong Kong; Hong Kong SAR, China

10.1136/gutjnl-2019-IDDFabstracts.281

Background We examined the interaction between severity of renal and liver impairment on the risk of metabolic acidosis in diabetic patients with chronic hepatitis B (CHB)-related cirrhosis.

Methods This is a retrospective cohort study on diabetic patients with CHB-related cirrhosis between January 2000 and December 2017 using Clinical Data Analysis and Reporting System, which is a territory-wide electronic healthcare database that captures in-patient and out-patient data of all public hospitals and clinics and represents 90% of the 7.3 million Hong Kong population. Metabolic acidosis was defined by blood pH ≤ 7.35 with arterial bicarbonate ≤ 18 mmol/L or venous bicarbonate ≤ 21 mmol/L or lactate > 5 mmol/L, and/or diagnosis codes. Renal and liver function were modelled by time-dependent estimated glomerular filtration rate (eGFR) category and Child-Pugh class. Time-dependent medication uses and comorbidities were included in Fine-Gray model adjusted for competing for death. We excluded patients with eGFR < 30 mL/min/1.73 m² or renal replacement therapy at baseline.

Results Of 4,431 diabetic patients with CHB-related cirrhosis, 3,216 (72.6%) were male; the mean age (SD) was 60.8 (10.8)