

## RESULTS

The consumption of vegetables before meat and sticky rice (V-M-R) significantly increased GLP-1 AUC (0-120) than the consumption of vegetables with meat, followed by sticky rice (VM-R) or vegetables with meat and sticky rice (VMR) (V-M-R 5213.4 ± 2114.37 Vs VM-R 3869.02 ± 1362.68 Vs VMR 3426.16 ± 1478.15;  $p < 0.05$ ). Both V-M-R and VM-R induced significantly lower postprandial glucose AUC (0-30) and AUC (0-60) compared to VMR (At 30 min, V-M-R 3154.79 ± 336.9 Vs VM-R 3161.35 ± 230.17 Vs VMR 3585.87 ± 597.49; At 60 min, V-M-R 6664.83 ± 673.43 Vs VM-R 6594.59 ± 632.58 Vs VMR 7636.53 ± 1056.38,  $p < 0.05$ ).

## CONCLUSION

The V-M-R meal sequence enhanced more GLP-1 release than other meal sequence patterns (VM-R and VMR) and produced less postprandial glucose excursion. The results provide the possibility of meal sequencing as a new non-pharmacological treatment for diabetic prevention in prediabetic patients.

## KEYWORDS

meal sequencing, prediabetes, GLP-1, postprandial glucose

## PP-D-15

### HYPERTRIGLYCERIDAEMIA-INDUCED PANCREATITIS

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## CASE

A 45-year-old male presented with a five-day duration of abdominal pain and yellow pustular skin eruptions on his eyebrow. His abdominal pain was worse after eating and was associated with nausea. The patient had diabetes mellitus since 37 years of age and receiving Gliclazide MR 60 mg twice daily and metformin 500 mg three times daily. He has a family history of diabetes, with his mother suffering from diabetes. He has a hepatitis B infection without current treatment. He was a previous smoker with a 10-pack-year history and stopped only 4 months prior. He has been an alcoholic beverage drinker (half a bottle of whisky) 3 days per week for the last 5 years. Physical examination revealed a fever of 102°F, tachycardia of 100, blood pressure of 130/70 mm Hg, respiratory rate of 16, and oxygen saturation of 96% on room air. He had abdominal tenderness in his right upper quadrant and epigastrium. His skin lesions were discovered to be eruptive xanthoma. Fundoscopy revealed a lipaemic retina. Blood tests revealed a triglyceride of 5460 mg/dl and cholesterol of 558 mg/dl, while liver function test was normal. Blood showed leukocytosis with neutrophil predominance and

CRP was 229.04 mg/l. HbA1c was 8.9%. Amylase was initially 43 U/l, but when rechecked several hours later was 167 U/l. Blood glucose was 443 mg/dl. The abdominal x-ray and a chest x-ray revealed no abnormality. A USG of the abdomen showed an enlarged fatty liver and swollen pancreas. He was diagnosed with Hypertriglyceridemia-induced pancreatitis. The patient was kept nil by mouth and given aggressive fluid resuscitation alongside analgesia for pain review. His blood sugars were closely monitored as the VRII protocol had been started in the Emergency Department. An urgent CT scan was booked which confirmed pancreatitis. An insulin infusion FRII was started and an intravenous antibiotic was given. The patient made a good recovery and was followed up in the clinic for the management of his hyperlipoproteinemia.

## KEYWORDS

hypertriglyceridaemia, pancreatitis., diabetes mellitus, alcoholic, amylase

## PP-D-16

### DIABETIC STRIATOPATHY IN A NEWLY DIAGNOSED TYPE 2 DIABETES MELLITUS: A RARE NEUROLOGIC COMPLICATION

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## CASE

Chronic neurological complications are prevalent in patients with type 2 diabetes mellitus. Diabetic striatopathy is a rare, acute neurological complication of Diabetes Mellitus that commonly presents with non-ketotic hyperglycemia and involuntary movements, specifically hemichorea or hemiballismus. Striatal abnormalities on neuroimaging have been reported in most, but not all, cases.

We report the case of a 92-year-old Filipino female with no history of diabetes who presented with acute onset involuntary movements of the left upper extremity of a few hours duration, which progressed to right hemifacial spasm. She was diagnosed with a hyperosmolar hyperglycemic state and treated accordingly. Cranial CT scan findings were unremarkable. There was an immediate resolution of her neurologic symptoms after the correction of hyperglycemia.

The underdiagnosis of diabetic striatopathy highlights the importance of increasing awareness and understanding of this condition among clinicians to prevent delayed diagnosis and treatment. The prognosis for diabetic striatopathy is good with prompt glycemic control.

## KEYWORDS

hyperkinetic movement disorder, diabetic striatopathy, nonketotic hyperglycemia, involuntary movement, neurologic complication

## PP-D-17

### CLINICAL, SUBCLINICAL CHARACTERISTICS AND RISK FACTORS OF THE NEW-ONSET DIABETES AFTER TRANSPLANTATION (NODAT) IN LIVING DONOR LIVER TRANSPLANTATION

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## INTRODUCTION

With the increased number of long-term survivors after liver transplantation, new-onset diabetes after transplantation (NODAT) is becoming more significant in patient follow-up. However, the incidence of NODAT after living-donor liver transplantation (LDLT) has not been well elucidated. This study aimed to evaluate the incidence, characteristics, and risk factors for NODAT in adult LDLT recipients at a single center in Vietnam.

## METHODOLOGY

This was a retrospective and prospective study of 122 patients who underwent living-donor liver transplantation without pre-transplant diabetes from October 2017 to July 2023 at 108 Military Central Hospital.

## RESULTS

NODAT occurred in 22.9% of liver recipients with a median follow-up time of 19 months. NODAT cases diagnosed within one year after transplantation accounted for 89.2%, with a mean age of 53.96 (10-22 years), and 89.2% of patients were male. BMI >25 kg/m<sup>2</sup> accounted for 32.2%. The mean HbA1c in NODAT patients was 6.52 ± 0.78%. There was a negative correlation between NODAT and the patient's gender, obesity, and family history of diabetes. Other factors, such as hepatitis B and C virus infection, cytomegalovirus infection, the number of HLA antigen disparities between donor and recipient, dialysis, plasma exchange, or pulse steroid were not found to be associated with the incidence of NODAT. Recipient's age of more than 70 and post-transplant intensive care unit stay >15 days were risk factors for NODAT.

## CONCLUSION

Nearly a quarter of the patients had NODAT. The diagnosis and treatment of NODAT play an important role in the management of patients post-transplantation. More studies are needed to determine the effects of recognition and treatment of hyperglycemia in recent transplant recipients

## KEYWORDS

NODAT, diabetes, living donor liver transplantation

## PP-D-18

### MIXED PRESENTATION OF DIABETIC KETOACIDOSIS AND HYPEROSMOLAR HYPERGLYCEMIC STATE IN ELDERLY PATIENT AND RURAL AREA: A CASE REPORT

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## CASE

The mixed presentation of diabetic ketoacidosis (DKA) and hyperosmolar hyperglycemic state (HHS) portends a worse prognosis and poses a unique challenge in the management of the acute complications of diabetes mellitus. We present a referred case of a 72-year-old Indonesian female, with uncontrolled diabetes mellitus and hypertension, seen with decreased consciousness, Kussmaul breathing, tachycardia, and a one-week history of productive cough. Additional examination revealed extreme hyperglycemia, severe metabolic acidosis, ketonuria, and hyperosmolar state which showed a mixed presentation of DKA and HHS. The patient's condition was precipitated by pneumonia and complicated by the presentation of severe hyperkalemia. The patient was inadequately managed in the previous healthcare facility, but after fluid rehydration, insulin therapy, hyperkalemia, and acidosis management, and close monitoring of the patient in intensive care, the condition of the patient improved. This report emphasizes the importance of early recognition and prompt treatment of DKA and HHS in limited healthcare settings with special consideration for the elderly population.

## KEYWORDS

diabetic ketoacidosis, hyperosmolar hyperglycemic state, type 2 diabetes, elderly population