

having cardiomyopathy. The reason for conversion from carbimazole to cholestyramine was transaminitis for one patient, and the remaining was due to neutropenia and thrombocytopenia. Seven patients (70%) received Lugol's iodine for not more than 10 days, relying on its Wolff-Chaikoff effect. One patient received prednisolone as an adjunct therapy for hyperthyroidism. The total daily dose of cholestyramine commenced was 12 g given in TDS dosing for a median duration of 1.4 months. Median FT4 level preand post-cholestyramine therapy were 50.2 pmol/L and 25.5 pmol/L respectively (NR 7.86-14.41), p = 0.028. The median TSH level was <0.005 m IU/L. We were able to rechallenge six patients (60%) with carbimazole as they showed an improvement in their laboratory parameters. Only two patients underwent subsequent definitive therapy with RAI and thyroidectomy. None of our patients developed any adverse side effects from cholestyramine.

CONCLUSION

Our experience demonstrated that in selected cases, cholestyramine may be used as an effective and well-tolerated therapy when first-line options are contraindicated.

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THYROTOXIC CARDIOMYOPATHY COMPLICATED BY FULMINANT HEPATIC FAILURE: A CASE REPORT

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Narendranath Gayathiri,¹ Thiagarajan Theviyaah,¹ Susinadan Jolyn,² Katiman Elliyyin,¹ Aziz Hazwani¹

¹Endocrine Unit Medical Department, Hospital Kajang, Malaysia ²Klinik Kesihatan Senawang, Negeri Sembilan, Malaysia

INTRODUCTION/BACKGROUND

Thyrotoxic cardiomyopathy with cardiac failure can lead to liver congestion and ischaemic hepatitis. Fulminant hepatic failure secondary to thyrotoxic cardiomyopathy is rare.

CASE

We report a 45-year-old woman with strong family history of hyperthyroidism. She presented with palpitations and cardiac failure symptoms for a month. Electrocardiograph showed atrial fibrillation. Echocardiogram revealed a preserved ejection fraction (55%), mid-septal wall hypokinesia, severe mitral and tricuspid regurgitation, with pulmonary hypertension. She had an elevated free T4 (fT4) level of 16.4 pmol/L (7.86-14.41 pmol/L) and free T3 (fT3) level of 7.6 pmol/L (3.10-6.80 pmol/L). TSH receptor antibody was elevated 13.7 IU/L (<1.75 IU/L) consistent with Graves' Disease. She was treated for thyroid storm and initiated on an anticoagulant. She was discharged with carbimazole 30 mg OD and bisoprolol 2.5 mg OD.

After 10 days, she returned with worsening cardiac failure, high-grade fever and jaundice. Upon admission, the fT4 level was 12 pmol/L. Her liver transaminases were normal except for hyperbilirubinemia secondary to liver congestion. Subsequently, transaminases showed rapid progression of liver failure with peak aspartate aminotransferase (AST) of more than 10,000 U/L, total bilirubin of 481.3 umol/L (5.0-21.0 umol/L), and severe coagulopathy. She required mechanical ventilation due to hepatic encephalopathy. Ultrasonography of the hepatobiliary system showed cholelithiasis with acute cholecystitis. Budd-Chiari Syndrome was ruled out since the hepatic veins were patent. Viral hepatitis was likewise ruled out. She was managed with N-acetylcysteine, diuretics, and second-line anti-thyroid treatment (cholestyramine, hydrocortisone, and Lugol's solution). Her sepsis responded to intravenous meropenem. She was not suitable for liver transplantation due to multi-organ failure after consulting the hepatology team.

CONCLUSION

A comprehensive approach involving cardiac evaluation with echocardiogram, assessment of liver dysfunction, and consideration of autoimmune causes of liver failure is crucial in the management of patients with thyrotoxicosis and liver failure. Liver transplant is an option in the management of thyrotoxicosis with fulminant liver failure.

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T3 THYROTOXICOSIS IN A PATIENT WITH METASTATIC FOLLICULAR THYROID CARCINOMA

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Ling Jing Ching, Jin Hui Ho and Hwee Ching Tee Queen Elizabeth Hospital II, Kota Kinabalu, Sabah, Malaysia

INTRODUCTION/BACKGROUND

Differentiated thyroid cancers are usually associated with normal thyroid function. Rarely, thyrotoxicosis can develop due to functioning metastatic thyroid carcinoma. We present a case of a male with metastatic follicular thyroid cancer associated with T3 thyrotoxicosis.

CASE

A 57-year-old male with underlying multinodular goitre presented with rapidly enlarging neck swelling, heat intolerance, loose stools, weight loss, and left shoulder pain over three months' duration. He exhibited a huge left goitre with right tracheal deviation. Laboratory tests revealed