

BPI Review Form 070520

Book Name:	<u>Advancement and New Understanding in Medical Science</u>
Manuscript Number:	Ms_BP_7655E
Title of the Manuscript:	Study of Thyroid Function Tests in Cirrhosis of Liver and Correlation of Thyroid Function Tests Levels with Severity of Liver Dysfunction
Type of the Article	Book chapter

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PART 1: Review Comments

	Reviewer's comment	Author's comment (If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)
Is the manuscript important for the scientific community? Please write a few sentences explaining your answer	The intricate interplay between thyroid function, cirrhosis, and liver dysfunction presents a compelling opportunity for scientific and medical advancements. This exploration has multifaceted significance, with a primary focus on revolutionizing clinical diagnosis. The research introduces a promising avenue for novel diagnostic tools, utilizing thyroid function tests to detect cirrhosis early—a groundbreaking prospect that minimizes the risk of severe complications such as liver cancer and improves treatment outcomes. Early diagnosis not only holds clinical benefits but also addresses the economic burden associated with expensive liver transplants, often inaccessible in countries with limited healthcare coverage. This research becomes a pivotal force in reshaping clinical practice, fostering groundbreaking research, and ultimately enhancing the health and well-being of individuals grappling with these interconnected conditions.	
Is the title of the article suitable? Do you have any alternative Title in your mind?	Thyroid Function Dynamics in Liver Cirrhosis and Dysfunction	
Is the abstract of the article comprehensive? If your answer is No, please provide suggestions	No Suggestion: Introduction: "One of the leading causes of morbidity and mortality worldwide is chronic liver diseases. Thyroid hormones regulate the basal metabolic rate of all cells, including hepatocytes, thereby modulating hepatic function. The liver, in turn, metabolizes thyroid hormones and regulates their systemic endocrine effects. Thyroid dysfunction may perturb liver function, while liver disease modulates thyroid hormone metabolism, and various systemic diseases affect both organs. Based on our own experience and considering the above view, we have focused on and stressed the association between thyroid function tests and the severity of liver dysfunction in cirrhosis of the liver, emphasizing the importance of Child Pugh scoring. Based on Rajarajeshwari Medical College and Hospital, where there is a frequency of patients of all ages with cirrhosis of the liver, we have approved SOPs, including a detailed history, physical examination, and drug history taken as per a pre-designed performa, which we recommend be adopted by other institutions. We stress to our readers of this book to consider this experience. We also conduct the relevant investigations that will provide details to help our students, colleagues, practitioners, and researchers assess thyroid function and liver cirrhosis. We have implemented grading of the severity of liver dysfunction and recommend using Child Pugh Scoring. It is crucial to address the prevalence of hypothyroidism among patients with liver cirrhosis, as we found it to be quite frequent during daily practice. We would also like to support institutions with similar practical experiences, like our institution, to consider the importance of the assessment of TSH and TSH levels. We have found these to correspond to the severity of liver disease. Other investigations, such as total T3 levels, were also observed to be frequently low in the majority of patients attending this medical institution and were inversely correlated with the severity of liver disease, serving as an important screening and diagnostic indicator for this serious complication. We also stress the role of FT3, with important findings in most cases with Child B and Child C score; it was inversely correlated with the severity of liver disease, resulting in low results below the range. Finally, the assessment of FT3 is important because it is deemed a sensitive screening method. Thyroid dysfunction is common in cirrhosis of the liver; hence, thyroid function tests are crucial to roll out in all cirrhotic patients to assess the severity and prognostication of the disease. Moreover, unraveling the intricate connections between thyroid function and liver health opens doors to understanding novel disease mechanisms. This understanding can lead to innovative therapeutic targets and the development of	

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	personalized treatment approaches tailored to individual needs. The interconnected axis of thyroid function, cirrhosis, and liver dysfunction, explored in this journey, empowers healthcare professionals to make informed decisions. Enhanced diagnostic accuracy resulting from this exploration facilitates earlier and more precise interventions, paving the way for improved treatment strategies. As a result, this exciting journey promises to not only transform clinical practice but also contribute to groundbreaking research, fostering a positive impact on the lives of individuals affected by the complex relationship between thyroid function, cirrhosis, and liver dysfunction.”	
Do you think the English quality of the article is suitable for scholarly communications? If your answer is No, please provide suggestions	Yes	
Please provide your comments regarding the appropriateness of different sections of the manuscript.	<ul style="list-style-type: none"> - Introduction - Pathophysiology and Biology of Liver Disease - Thyroid Function in Liver Disease and Cirrhosis - Quality of Practice - Recommendations and Guidelines 	
Do you think that the references in the manuscript are proper, recent and sufficient? If you have any suggestions, please write here.	Yes	

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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