

PATHOPHYSIOLOGICAL IMPACTS ARISING FROM DISRUPTION IN COPPER HOMEOSTASIS

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Copper is an essential trace element and it plays vital roles in cellular metabolism. Copper has a profound role in boosting the immune system and fighting against infections. Disruption of copper homeostasis invites various pathophysiological consequences such as cardiovascular system disorders, connective tissue and neurobiological disorders. Recent studies highlight the association of copper in disrupting lipid homeostasis such as non-alcoholic fatty liver disease (NAFLD). Despite these findings significant questions remain unanswered. More sensitive biomarkers for copper status are needed to be sought out. Further investigations on these queries will uncover more specific details of copper metabolism in humans.
