

ORIGINAL RESEARCH

# Recent prevalence and trends of obesity and metabolic dysfunction-associated steatotic liver disease (MASLD) among US adolescents: 1999 to 2020

Michael Sun<sup>1</sup> | Hongbing Sun<sup>2</sup> 

<sup>1</sup>Department of Pediatrics, Nemours/Alfred I. duPont Hospital for Children, Wilmington, Delaware, USA

<sup>2</sup>Nutrition, Biostatistics and Health Study, Department of Earth and Chemical Sciences, Rider University, Lawrenceville, New Jersey, USA

## Correspondence

Michael Sun, Department of Pediatrics, Nemours/Alfred I. duPont Hospital for Children, Wilmington, DE, USA.  
Email: [michael.sun@nemours.org](mailto:michael.sun@nemours.org)

Hongbing Sun, Nutrition, Biostatistics and Health Study, Department of Earth and Chemical Sciences, Rider University, 2083 Lawrenceville Road, Lawrenceville, NJ 08648, USA.  
Email: [hsun@rider.edu](mailto:hsun@rider.edu)

## Summary

**Background:** Metabolic dysfunction-associated steatotic liver disease (MASLD), previously known as non-alcoholic fatty liver disease (NAFLD), is understudied among US adolescents despite rising obesity rates.

**Methods:** This study analysed the prevalence and trends of obesity and MASLD among US adolescents aged 12–17 using data from the National Health and Nutrition Examination Survey (NHANES). We developed a new screening model utilizing FibroScan-measured controlled attenuation parameter (CAP) scores, body measurements and blood chemistry data from 2017 to 2020 to assist in analysing MASLD trends from 1999 to 2020.

**Results:** Between 2017 and 2020, the prevalence of obesity and MASLD was approximately 20%, with about 70% of obese adolescents affected by MASLD. The condition was more common in boys, particularly among Mexican American adolescents. Additionally, 97.2% of those with NAFLD also had MASLD. Adolescents with MASLD had significantly higher body weight, waist circumference, triglyceride levels and alanine transaminase (ALT) levels, along with lower high-density lipoprotein (HDL) cholesterol and an increased risk of liver fibrosis. Insufficient physical activity and poor diet quality were key risk factors for developing MASLD. From 1999 to 2020, the prevalence of MASLD rose significantly, paralleling the increasing rates of obesity.

**Conclusions:** The study underscores the pressing need to screen at-risk adolescents for metabolic issues associated with steatotic liver diseases, given the rising obesity rates among adolescents. The high overlap between MASLD and NAFLD diagnoses indicates that the transition from NAFLD to MASLD can be effectively integrated into paediatric practice.

## KEYWORDS

ECAPA, estimating liver CAP score, fatty liver diseases, NHANES, steatosis of US adolescents

## 1 | INTRODUCTION

The prevalence of obesity among children and adolescents aged 2–19 years in the United States has more than tripled from 1963 to 2018 and continues to rise.<sup>1,2</sup> This rising trend is a significant concern

for the liver health of children and adolescents, as obesity is closely associated with Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD), formerly known as non-alcoholic fatty liver disease (NAFLD).<sup>3</sup> MASLD was introduced through Delphi consensus by multiple societies to emphasize the critical role of metabolic dysfunction

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**István T. Horváth**



## **Recent Trends In Catalysi 1999:**

New Trends in Enzyme Catalysis and Biomimetic Chemical Reactions Gertz I. Likhtenshtein, 2007-05-08 This book is a view of enzyme catalysis by a physico chemist with long term experience in the investigation of structure and action mechanism of biological catalysts This book is not intended to provide an exhaustive survey of each topic but rather a discussion of their theoretical and experimental background and recent developments The literature of enzyme catalysis is so vast and many scientists have made important contribution in the area that it is impossible in the space allowed for this book to give a representative set of references The author has tried to use reviews and general principles of articles He apologizes to those he has not been able to include The monograph is intended for scientists working on enzyme catalysis and adjacent areas such as chemical modeling of biological processes homogeneous catalysis biomedical research and biotechnology The book can be use as a subsidiary manual for instructors graduate and undergraduate students of university biochemistry and chemistry departments Pages ix x

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*Interfacial Catalysis* Alexander G. Volkov, 2002-12-12 A comprehensive volume on interfacial catalysis this book includes contributions from an international group of specialists in chemistry environmental science informatics physiology nuclear energy and physics The editor has organized the material into the main topics of fundamental characteristics phase transfer catalysis reversed micelles biological aspects and interfacial photocatalysis Individual topics include self organized microheterogeneous structures nanochemistry interfacial catalysis in metal complexation the role of water molecules in ion transfer at the oil water interface and ultrathin films in enhanced oil recovery

**Combinatorial Catalysis and High Throughput Catalyst Design and Testing** E.G. Derouane, Francisco Lemos, Avelino Corma, Fernando Ramôa Ribeiro, 2012-12-06 Catalysts are central in modern industrial chemistry and there is an urgent need to develop new catalysts Such a rapid pace of development brings with it a new set of challenges at all levels of research from synthesis and characterization to testing and modelling This book reviews the current status of combinatorial catalysis scientific catalyst design techniques methods for preparing inorganic combinatorial libraries experimental design methods data processing system modelling an simulation and catalyst testing The individual contributions reveal the development of high throughput catalyst design and test methods and identify the main challenges in the field including new catalyst preparation techniques rapid performance evaluation and new microreactor configurations Readership All those working in catalytic process analysis and development The extensive review of catalysis principles is

especially relevant for postgraduate students seeking to pursue studies in catalysis

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