

Appendix A: Complete Search Queries

PubMed Search Query (Executed on May 30, 2025)

("pediatric MASLD" OR "childhood MASLD" OR "metabolic dysfunction-associated steatotic liver disease" OR "hepatic steatosis") AND ("childhood obesity" OR "pediatric obesity" OR "obesity" OR "body mass index" OR "BMI") AND ("youth-onset type 2 diabetes" OR "type 2 diabetes" OR "T2D" OR "insulin resistance" OR "hepatic insulin resistance") AND ("noninvasive biomarkers" OR "diagnostic tools" OR "liver imaging" OR "adiponectin" OR "cytokeratin-18" OR "MRI-PDFF") AND ("child*" OR "pediatric*" OR "adolescent*" OR "youth") NOT ("adult*" OR "gestational diabetes") Filters: Publication date from 2015/01/01 to 2025/05/31, English, Humans

Scopus Search Query (Executed on May 30, 2025)

TITLE-ABS-KEY(("pediatric MASLD" OR "childhood MASLD" OR "metabolic dysfunction-associated steatotic liver disease" OR "hepatic steatosis") AND ("childhood obesity" OR "pediatric obesity" OR "obesity" OR "body mass index" OR "BMI") AND ("youth-onset type 2 diabetes" OR "type 2 diabetes" OR "T2D" OR "insulin resistance" OR "hepatic insulin resistance") AND ("noninvasive biomarkers" OR "diagnostic tools" OR "liver imaging" OR "adiponectin" OR "cytokeratin-18" OR "MRI-PDFF") AND ("child*" OR "pediatric*" OR "adolescent*" OR "youth") AND NOT ("adult*" OR "gestational diabetes")) AND PUBYEAR > 2014 AND PUBYEAR < 2026 AND (LIMIT-TO(LANGUAGE, "English"))

Google Scholar Search Query (Executed on May 30, 2025)

allintitle: ("pediatric MASLD" OR "childhood MASLD" OR "metabolic dysfunction-associated steatotic liver disease" OR "hepatic steatosis") ("childhood obesity" OR "pediatric obesity" OR "obesity") ("youth-onset type 2 diabetes" OR "type 2 diabetes" OR "T2D") ("noninvasive biomarkers" OR "adiponectin" OR "cytokeratin-18" OR "MRI-PDFF") -adult -gestational Filters: Since 2015