1431 records identified through database searching

109 abstracts included for review after duplicates and not-relevant articles based on title review were removed

109 abstracts screened

18 full-text articles assessed for eligibility

6 studies included in quantitative synthesis (meta-analysis)

Excluded: 40 cross-sectional studies, 8 case-control studies, 2 literature reviews, 10 articles of diseases other than asthma, and 31 articles that did not fulfill other inclusion criteria

Excluded: 6 full-text articles that did not report physician diagnosed asthma, 2 articles that did not report weight by BMI, 1 article that did not report incident asthma as the primary outcome, 2 studies using non-pediatric populations, and 1 cross-sectional analysis