1753 articles identified by MEDLINE search.

1413 articles excluded because
- Studies did not report bivariate correlations between the hyperinsulinaemic euglycaemic clamp and surrogate measures.
- Restricted to children or adolescents.
- Did not include human data.
- Not published in English.

Remaining 340 full text articles for further analyses.

223 articles excluded because
- Studies did not report bivariate correlations between the euglycaemic hyperinsulinaemic clamp and either the oral glucose tolerance test or fasting blood samples including either glucose or insulin or both.
- Other carbohydrate doses than 75 g (40 g/m²) were used during the oral glucose tolerance test.
- Studies measured hepatic insulin sensitivity only and not whole body insulin sensitivity during the clamp.

We browsed reference lists and found 16 additional articles.

133 articles were evaluated in detail.

120 articles were included in the final meta-analysis.

133 articles were evaluated in detail.

- 9 articles were excluded because of medical conditions that interfered with measurements of insulin sensitivity (type 1 diabetes, insulinoma, renal failure). Due to the same reason we excluded parts of 6 additional articles.
- 4 articles were excluded because of double publication. Another 10 articles had the same study population as other articles but reported in part different surrogate measures. In these cases we included each reported surrogate measure only once.