

Supplementary material

1. Search strategy

We used the following combined random words and subject terms: “leptin” and “systemic lupus erythematosus”. The subject terms in PubMed, Embase and Cochrane Library are Mesh terms, Emtree terms and Mesh terms, respectively.

1.1 PubMed: (“leptin [Mesh Terms]” OR “leptin [All Fields]” OR “Obese Protein [All Fields]” OR “Obese Gene Product [All Fields]” OR “Gene Product, Obese [All Fields]” OR “Ob Gene Product [All Fields]” OR “Gene Product, Ob [All Fields]” OR “Ob Protein [All Fields]”) AND (“Lupus Erythematosus, Systemic [Mesh Terms]” OR “Lupus Erythematosus, Systemic [All Fields]” OR “Systemic Lupus Erythematosus [All Fields]” OR “Lupus Erythematosus Disseminatus [All

Fields]” OR “Libman-Sacks Disease [All Fields]” OR “Disease, Libman-Sacks [All Fields]” OR “Libman Sacks Disease [All Fields]”).

1.2 Embase: (‘leptin’/exp OR ‘leptin’ OR ‘obese protein’ OR ‘obese gene product’ OR ‘gene product, obese’ OR ‘ob gene product’ OR ‘gene product, ob’ OR ‘ob protein’) AND (‘systemic lupus erythematosus’/exp OR ‘systemic lupus erythematosus, systemic’ OR ‘lupus erythematosus disseminatus’ OR ‘libman-sacks disease’ OR ‘disease, libman-sacks’ OR ‘libman sacks disease’).

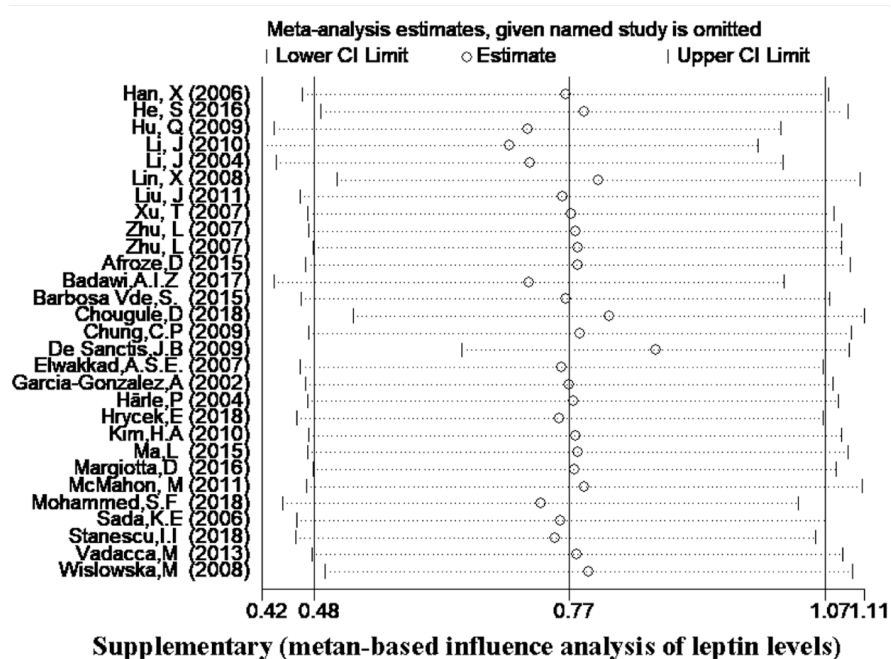
1.3 Cochrane: (“MeSH descriptor: [Leptin] explode all trees” OR “(leptin):ti,ab,kw” OR “(Obese Protein):ti,ab,kw” OR “(Obese Gene Product):ti,ab,kw” OR “(Gene Product, Obese):ti,ab,kw” OR “(Ob Gene Product):ti,ab,kw”

OR “(Gene Product, Ob):ti,ab,kw” OR “(Ob Protein):ti,ab,kw”) AND (“MeSH descriptor: [Lupus Erythematosus, Systemic] explode all trees” OR “(Lupus Erythematosus, Systemic):ti,ab,kw” OR “(Systemic Lupus Erythematosus):ti,ab,kw” OR “(Lupus Erythematosus Disseminatus):ti,ab,kw” OR “(Libman-Sacks Disease):ti,ab,kw” OR “(Disease, Libman-Sacks):ti,ab,kw” OR “(Libman Sacks Disease):ti,ab,kw”)

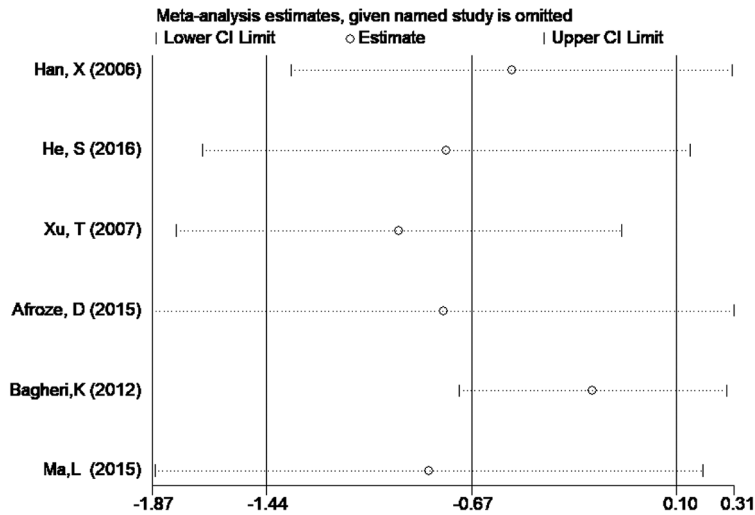
1.4 CNKI: (“leptin” [key words]) AND (“Systemic Lupus Erythematosus” [key words])

1.5 Wanfang: (“leptin” [key words]) AND (“Systemic Lupus Erythematosus” [key words])

1.6 VIP: (“leptin” [key words]) AND (“Systemic Lupus Erythematosus” [key words])

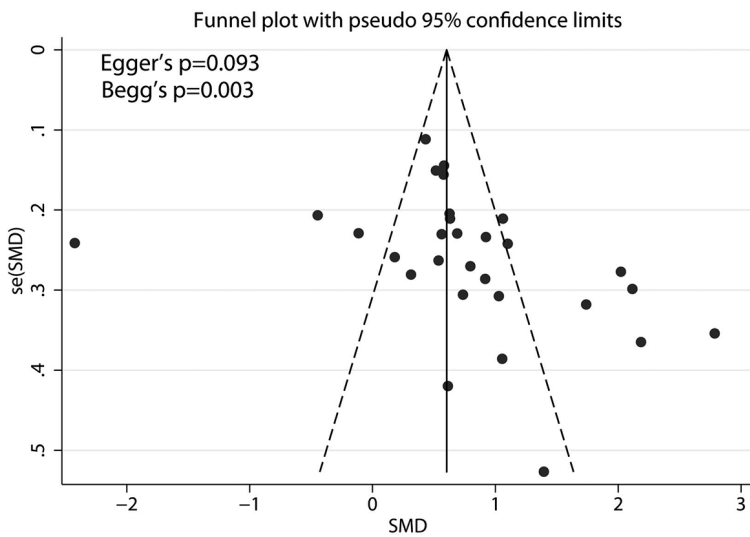


Supplementary Fig. S1. Sensitivity analysis of leptin levels.

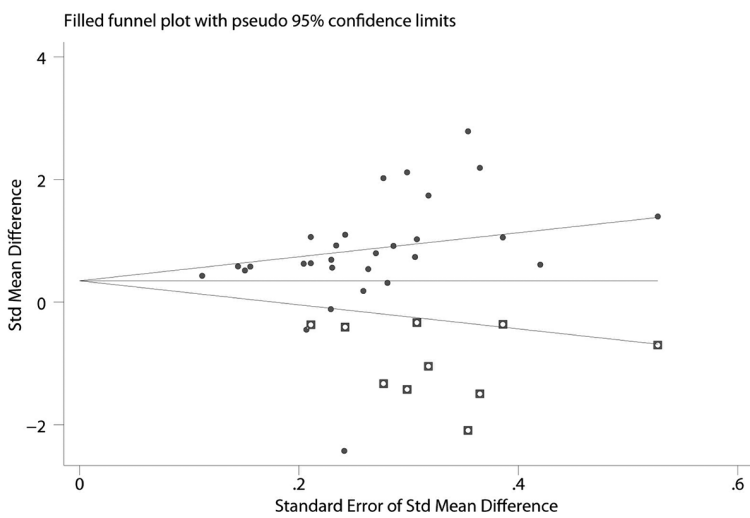


Supplementary (metan-based influence analysis of LepR levels)

Supplementary Fig. S2. Sensitivity analysis of lepR levels.



Supplementary Fig. S3. Funnel plot.



Supplementary (funnel plot of leptin levels with trim and fill method)

Supplementary Fig. S4. Funnel plot with trim and fill method.