

Supplementary materials

Supplementary file 1: Search strategy

PubMed: ("neonat*" [All Fields] OR "newborn*" [All Fields] OR "infant*" [All Fields]) AND ("phototherapy" [MeSH Terms] OR "phototherapy" [All Fields] OR "phototherapies" [All Fields] OR ("hyperbilirubinaemia" [All Fields] OR "hyperbilirubinemia" [MeSH Terms] OR "hyperbilirubinemia" [All Fields] OR "hyperbilirubinaemias" [All Fields] OR "hyperbilirubinemias" [All Fields]) OR ("jaundice" [MeSH Terms] OR "jaundice" [All Fields] OR "jaundiced" [All Fields] OR "jaundices" [All Fields])) AND ("cancer s" [All Fields] OR "cancerated" [All Fields] OR "canceration" [All Fields] OR "cancerization" [All Fields] OR "cancerized" [All Fields] OR "cancerous" [All Fields] OR "neoplasms" [MeSH Terms] OR "neoplasms" [All Fields] OR "cancer" [All Fields] OR "cancers" [All Fields] OR "malign*" [All Fields] OR ("leukaemia" [All Fields] OR "leukemia" [MeSH Terms] OR "leukemia" [All Fields] OR "leukaemias" [All Fields] OR "leukemias" [All Fields] OR "leukemia s" [All Fields]) OR ("leukaemia" [All Fields] OR "leukemia" [MeSH Terms] OR "leukemia" [All Fields] OR "leukaemias" [All Fields] OR "leukemias" [All Fields] OR "leukemia s" [All Fields]) OR "lymphoma*" [All Fields] OR "tumor*" [All Fields] OR "neoplasm*" [All Fields])

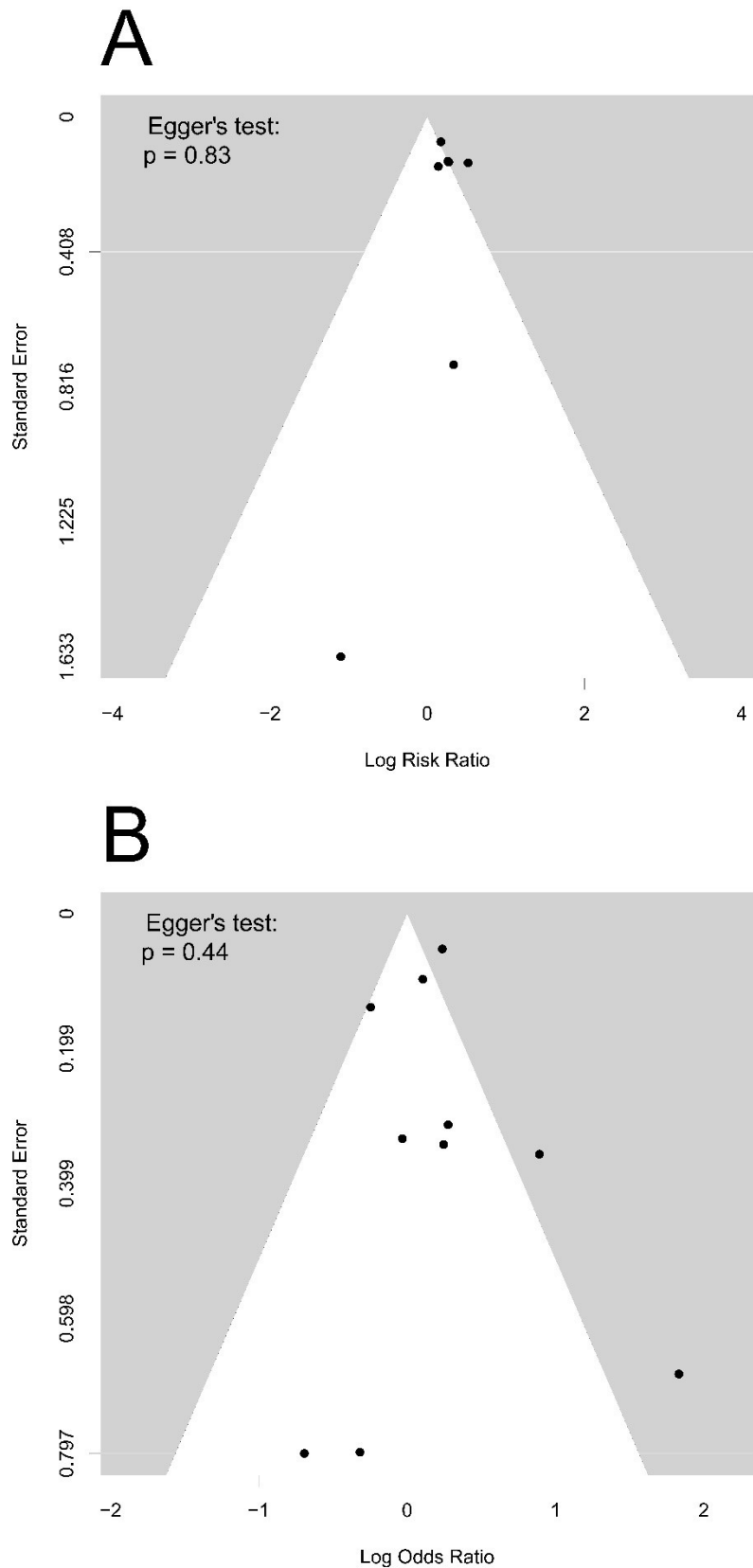
SCOPUS: (neonat* or newborn* or infant*) AND (phototherapy or hyperbilirubinemia or jaundice) AND (cancer or malign* or leukemia or leukaemia or lymphoma* or tumor* or neoplasm*)

CENTRAL: photoherapy and (cancer or tumor or neoplasm)

Web of Science: (phototherapy or hyperbilirubinemia or jaundice) and (cancer or tumor or neoplasm or leukemia or lymphoma) and (newborn or neonate or neonatal or infant or infants)

Publication bias

Supplementary figure 1 Funnel plots of included cohort studies (A) and case-control studies (B). Egger's test used for statistical testing. White area represents $p > 0.05$. Trim and fill method was tried but it produced no new points to the figure as the included studies form an expectedly symmetric distribution



Sensitivity analysis for all main outcomes. Studies judged to be in high risk of bias were excluded.

Figure S2: Sensitivity analysis for the figure 2

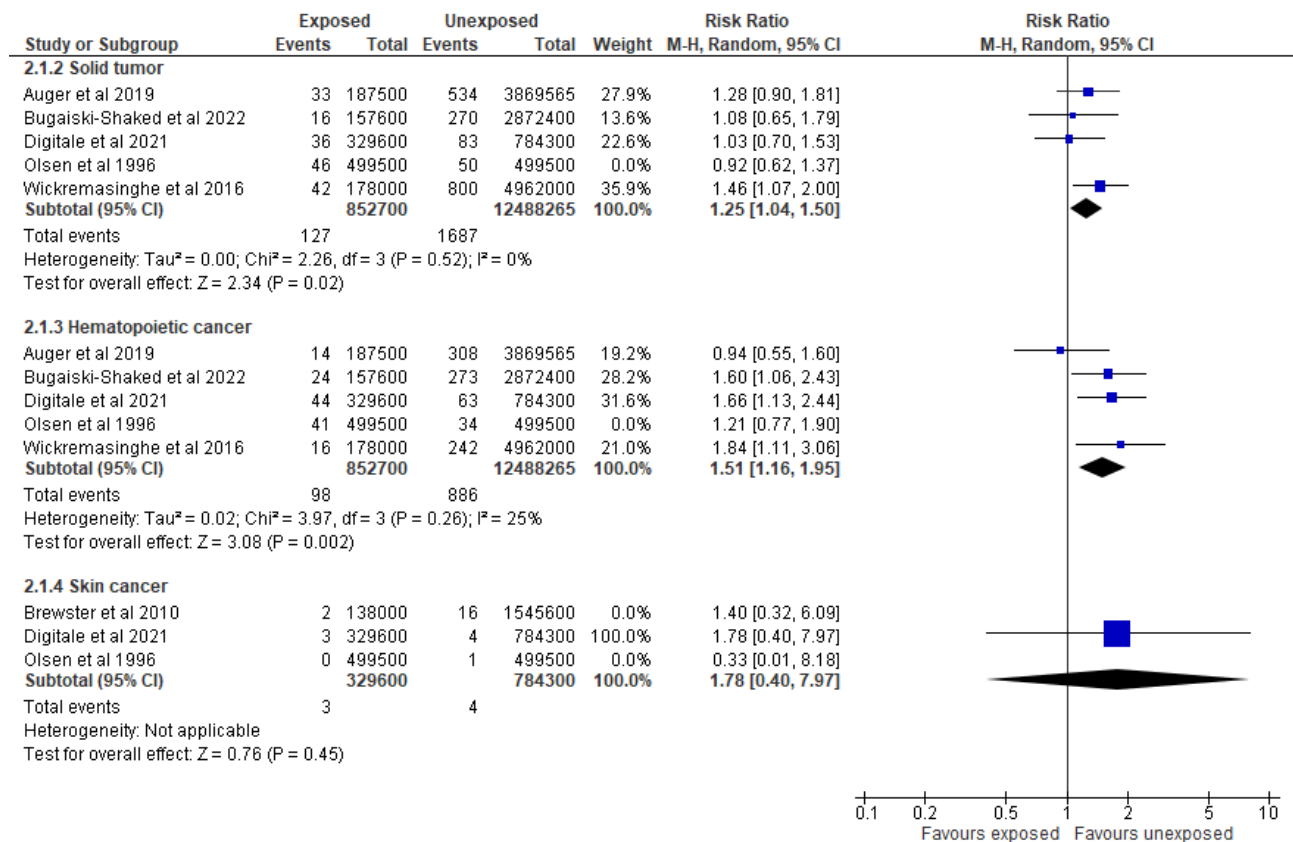


Figure S3: Sensitivity analysis of the figure 3

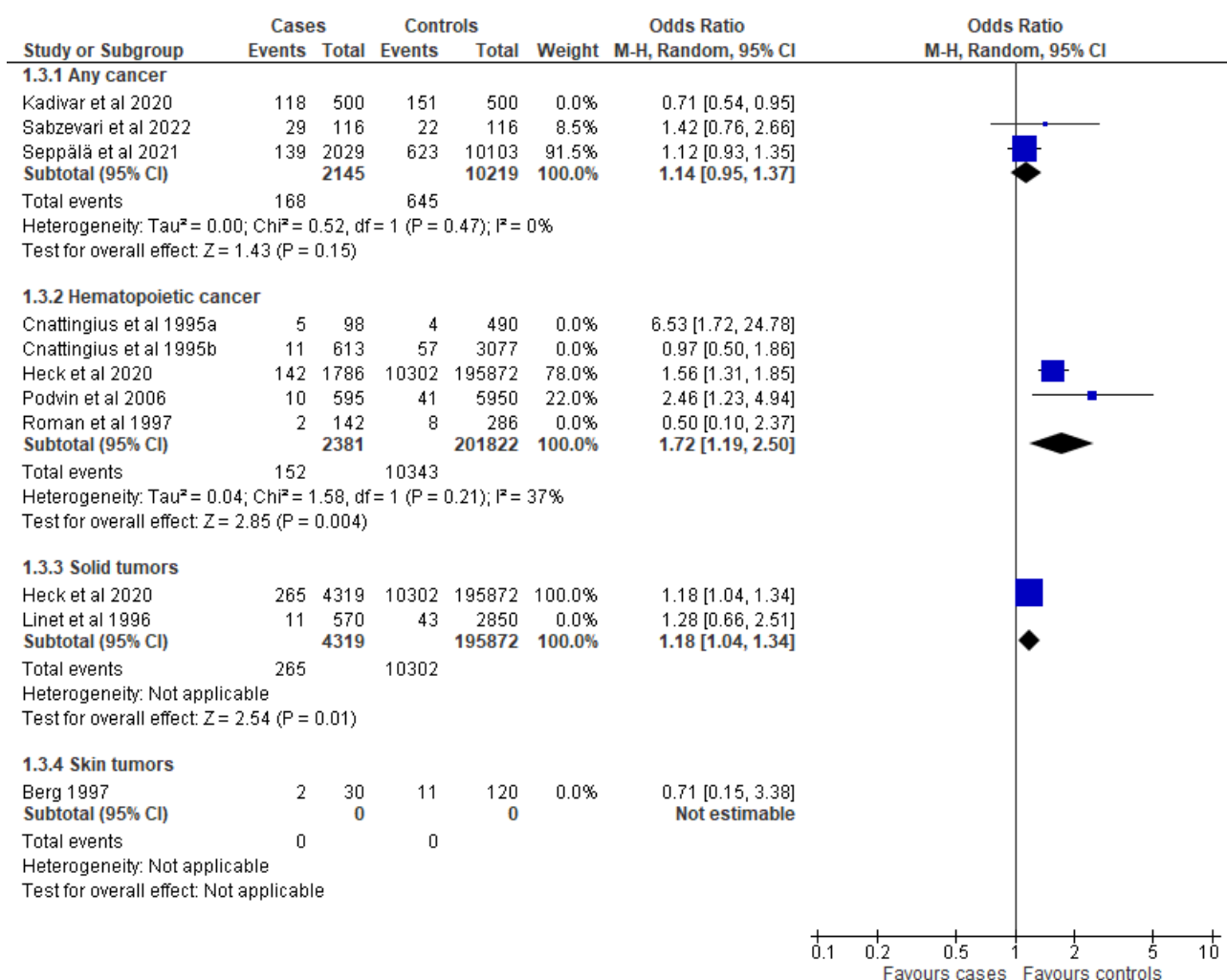


Figure S4 Causal pathways illustrated in directed acyclic graph. The graph presents possible confounders and modifiers for the causal pathway between phototherapy and cancer.

