Online Resource 1. Search strategy for Medline (Pubmed).

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| #1 | “Risk Factors”[Mesh] OR risk factors [All fields] OR "Anti-Bacterial Agents"[Mesh] OR "Anti-Bacterial Agents"[Pharmacological Action] OR "Penicillins"[Mesh] OR antibacterial\*[tiab] OR anti-bacterial\*[tiab] OR antibiotic\*[tiab] OR antimicrobial[tiab] OR anti-microbial[tiab] OR anti-infective[tiab] OR antiinfective[tiab] OR penicillin\*[tiab] OR macrolide\*[tiab] OR phenethicillin\*[tiab] OR clavulanat\*[tiab] OR flucloxacillin\*[tiab] OR amoxicillin\*[tiab] |
| #2 | "Child Development Disorders, Pervasive"[Mesh] OR pervasive developmental disorder\*[tiab] OR autis\*[tiab] OR pdd[tiab] OR childhood schizophrenia[tiab] OR kanner[tiab] OR asperger[tiab] |
| #3 |  “Child”[Mesh] OR child\*[tiab] OR “Infant”[Mesh] OR infan\*[tiab] OR newborn\*[tiab] OR baby\*[tiab] OR babies\*[tiab] OR toddler\*[tiab] OR Pregnancy[Mesh] OR pregnan\*[tiab] OR gestat\*[tiab] OR prenatal\*[tiab] OR perinatal\*[tiab] OR postnatal\*[tiab] OR antenatal\*[tiab] |
| #4 | #1 AND #2 AND #3 |

Online Resource 2. Search strategy for Embase

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| #1 | 'risk factor'/exp OR 'risk factor\*':ab,ti OR 'antibiotic agent'/exp OR 'antibiotic\*':ab,ti OR 'antiinfect\*':ab,ti OR 'antimicrob\*':ab,ti OR 'anti-infect\*':ab,ti OR 'anti-microb\*':ab,ti OR 'antibact\*':ab,ti OR 'anti-bact\*':ab,ti |
| #2 | 'autism'/exp OR 'autis\*':ab,ti OR 'pervasive developmental disorder\*':ab,ti OR 'pdd':ab,ti OR 'kanner':ab,ti OR 'asperger':ab,ti OR 'childhood schizophrenia':ab,ti |
| #3 |  ‘child'/exp OR 'pregnancy'/exp OR 'child\*':ab,ti OR 'toddler\*':ab,ti OR 'infan\*':ab,ti OR 'newborn\*':ab,ti OR 'baby':ab,ti OR 'babies':ab,ti OR 'pregnan\*':ab,ti OR 'gestat\*':ab,ti OR 'prenatal\*':ab,ti OR 'perinatal\*':ab,ti OR 'postnatal\*' OR 'antenatal\*' |
| #4 | #1 AND #2 AND #3 |