

Appendix S1: Search Strategy

Ovid MEDLINE(R)	Embase Classic+Embase	APA PsycInfo
1 obstetric labor, premature/ or premature birth/ 2 infant, premature/ or infant, extremely premature/ 3 ((preterm or pre-term or prematur* or pre-matur*) adj2 (infant* or birth* or child* or deliver* or labour or labor or born or baby or babies or neonate* or newborn*)).mp. 4 (((("24" or "25" or "26" or "27" or "28" or "29" or "30" or "31" or "32" or "33" or "34" or "35" or "36") adj weeks) and (gestation* or pregnan*)).mp. 5 1 or 2 or 3 or 4 6 Neurodevelopmental Disorders/ 7 Developmental Disabilities/ or Cerebral Palsy/ or Intellectual Disability/ or hearing disorders/ or hearing loss/ or deafness/ or vision disorders/ or blindness/ or Learning Disabilities/ or Intelligence/ or Academic Performance/ or Psychomotor Performance/ or Psychomotor Disorders/ or Cognition Disorders/ or Motor Skills Disorders/ 8 adolescent development/ or child development/ 9 nervous system diseases/ or central nervous system diseases/ or attention deficit disorder with hyperactivity/ or child behavior disorders/ or child development disorders, pervasive/ or autism spectrum disorder/ or autistic disorder/ 10 ((longterm or long-term or development* or neurodevelopmental or intellectual or vision or hearing or psychomotor or cognitive or motor or mental or attention or academic or learning) adj3 (effect* or outcome* or disorder* or disabilit* or impairment*)).mp. 11 (cerebral palsy or blindness or deafness or autistic trait* or ADHD or autism).mp. 12 (academic adj (performance or achievement* or success)).mp.	1 premature labor/ or "immature and premature labor"/ 2 prematurity/ 3 ((preterm or pre-term or prematur* or pre-matur*) adj2 (infant* or birth* or child* or deliver* or labour or labor or born or baby or babies or neonate* or newborn*)).mp. 4 (((("24" or "25" or "26" or "27" or "28" or "29" or "30" or "31" or "32" or "33" or "34" or "35" or "36") adj weeks) and (gestation* or pregnan*)).mp. 5 1 or 2 or 3 or 4 6 developmental disorder/ or developmental delay/ 7 cerebral palsy/ or mental deficiency/ or intellectual impairment/ or hearing impairment/ or hearing disorder/ or unilateral hearing loss/ or functional hearing loss/ or perception deafness/ or visual disorder/ or blindness/ or deafblindness/ or partial blindness/ or learning disorder/ or intelligence/ or academic achievement/ or psychomotor performance/ or psychomotor activity/ or psychomotor disorder/ or cognitive defect/ or motor dysfunction/ or motor development/ 8 adolescent development/ or child development/ 9 central nervous system disease/ or neurologic disease/ or attention deficit hyperactivity disorder/ or behavior disorder/ or autism/ 10 ((longterm or long-term or development* or neurodevelopmental or intellectual or vision or hearing or psychomotor or cognitive or motor or mental or attention or academic or	1 Premature Birth/ 2 ((preterm or pre-term or prematur* or pre-matur*) adj2 (infant* or birth* or child* or deliver* or labour or labor or born or baby or babies or neonate* or newborn*)).mp. 3 (((("24" or "25" or "26" or "27" or "28" or "29" or "30" or "31" or "32" or "33" or "34" or "35" or "36") adj weeks) and (gestation* or pregnan*)).mp. 4 1 or 2 or 3 5 Neurodevelopmental Disorders/ 6 developmental disabilities/ or delayed development/ or intellectual development disorder/ or specific language impairment/ or cerebral palsy/ or deaf/ or hearing disorders/ or blind/ or vision disorders/ or learning disabilities/ or learning disorders/ or intelligence/ or intellectual development/ or academic achievement/ or cognitive ability/ or cognitive impairment/ or cognitive development/ or psychomotor development/ or motor development/ 7 early childhood development/ or childhood development/ or adolescent development/ 8 central nervous system disorders/ or nervous system disorders/ or autism spectrum disorders/ or autistic traits/ or attention deficit disorder with hyperactivity/ or attention deficit disorder/ 9 ((longterm or long-term or development* or neurodevelopmental or intellectual or vision or hearing or psychomotor or cognitive or motor or mental or attention or academic or learning) adj3 (effect* or outcome* or disorder* or disabilit* or impairment*)).mp. 10 (cerebral palsy or blindness or deafness or autistic trait* or ADHD or autism).mp. 11 (academic adj (performance or achievement* or success)).mp.

13 (education* adj (performance or achievement* or success)).mp.	learning) adj3 (effect* or outcome* or disorder* or disabilit* or impairment*).mp.	12 (education* adj (performance or achievement* or success)).mp.
14 ((child* or adolescent) adj development).mp.	11 (cerebral palsy or blindness or deafness or autistic trait* or ADHD or autism).mp.	13 ((child* or adolescent) adj development).mp.
15 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14	12 (academic adj (performance or achievement* or success)).mp.	14 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12 or 13
16 Developing Countries/	13 (education* adj (performance or achievement* or success)).mp.	15 Developing Countries/
17 (Afghanistan* or Albania* or Algeria* or Angola* or Argentina* or Armenia* or Azerbaijan* or Bangladesh* or Belarus* or Beliz* or Benin* or Bhutan* or Bolivia* or Bosnia* or Herzegovin* or Botswan* or Brazil* or Bulgaria* or Burkina* or Burundi* or Cabo Verde* or Cape Verde* or Cambodia* or Cameroon* or Central African or Chad* or China or Chinese or Colombia* or Comor* or Congo* or Costa Rica* or Cote d'Ivoir* or Ivory Coast or Cuba* or Djibouti* or Dominica* or Ecuador* or Egypt* or El Salvador* or Eritrea* or Ethiopia* or Fiji* or Gabon* or Gambia* or Georgia* or Ghana* or Grenad* or Guatemala* or Guinea* or Guyan* or Haiti* or Hondura* or India* or Indonesia* or Iran* or Iraq* or Jamaica* or Jordan* or Kazakhstan* or Kenya* or Kiribati* or Korea* or Kosov* or Kyrgyz* or Lao* or Leban* or Lesotho* or Liberia* or Libya* or Macedonia* or Madagascar* or Malawi* or Malaysia* or Maldiv* or Mali* or Marshall Island* or Mauritania* or Mauriti* or Mexic* or Micronesia* or Moldova* or Mongolia* or Montenegri* or Morocc* or Mozambi* or Myanma* or Burmese or Namibia* or Nepal* or Nicaragua* or Niger* or Pakistan* or Palau* or Papua New Guinea* or Paraguay* or Peru* or Philippines or Filipino or Romania* or Rwanda* or Samoa* or Sao Tome* or Senegal* or Serbia* or Sierra Leon* or Solomon Island* or Somalia* or South Africa* or Sudan* or Sri Lanka* or St Lucia* or Saint Lucia or St Vincent or Saint Vincent or Grenadines or Surinam* or Swazi* or Syria* or Tajikistan* or Tanzania* or Thai* or Timor* or Togo* or Tonga* or Tunisia* or Turk* or Tuvalu* or Uganda* or Ukrain* or Uzbekistan* or Vanuatu* or Venezuela* or	14 ((child* or adolescent) adj development).mp.	16 (Afghanistan* or Albania* or Algeria* or Angola* or Argentina* or Armenia* or Azerbaijan* or Bangladesh* or Belarus* or Beliz* or Benin* or Bhutan* or Bolivia* or Bosnia* or Herzegovin* or Botswan* or Brazil* or Bulgaria* or Burkina* or Burundi* or Cabo Verde* or Cape Verde* or Cambodia* or Cameroon* or Central African or Chad* or China or Chinese or Colombia* or Comor* or Congo* or Costa Rica* or Cote d'Ivoir* or Ivory Coast or Cuba* or Djibouti* or Dominica* or Ecuador* or Egypt* or El Salvador* or Eritrea* or Ethiopia* or Fiji* or Gabon* or Gambia* or Georgia* or Ghana* or Grenad* or Guatemala* or Guinea* or Guyan* or Haiti* or Hondura* or India* or Indonesia* or Iran* or Iraq* or Jamaica* or Jordan* or Kazakhstan* or Kenya* or Kiribati* or Korea* or Kosov* or Kyrgyz* or Lao* or Leban* or Lesotho* or Liberia* or Libya* or Macedonia* or Madagascar* or Malawi* or Malaysia* or Maldiv* or Mali* or Marshall Island* or Mauritania* or Mauriti* or Mexic* or Micronesia* or Moldova* or Mongolia* or Montenegri* or Morocc* or Mozambi* or Myanma* or Burmese or Namibia* or Nepal* or Nicaragua* or Niger* or Pakistan* or Palau* or Papua New Guinea* or Paraguay* or Peru* or Philippines or Filipino or Romania* or Rwanda* or Samoa* or Sao Tome* or Senegal* or Serbia* or Sierra Leon* or Solomon Island* or Somalia* or South Africa* or Sudan* or Sri Lanka* or St Lucia* or Saint Lucia or St Vincent or Saint Vincent or Grenadines or Surinam* or Swazi* or Syria* or Tajikistan* or Tanzania* or Thai* or Timor* or Togo* or Tonga* or Tunisia* or Turk* or Tuvalu* or Uganda* or Ukrain* or Uzbekistan* or Vanuatu* or Venezuela* or

Vietnam* or viet-nam* or West Bank or Gaza or Yemen* or Zambia* or Zimbabwe* or Russia* or Yugoslavia* or USSR or Soviet* or Byelarus*).mp. 18 (africa* or asia* or caribbean or central america* or latin america* or south america* or melanesia* or micronesia* or polynesia*).mp. 19 (resource-limit* or resource-poor or low-resource* or limited-resource* or resource-constrain* or constrain*-resource* or under-resource* or poor*-resource* or resource-scarce* or scarce*-resource* or low-income or middle-income or lowincome or middleincome or (low* adj3 middle-income)).mp. 20 (((developing or underdeveloped or under-developed or emerging or less-developed or least-developed or less-economically developed or least-economically developed or less-affluent or least-affluent or deprived or poor) adj (country or countries or nation? or region? or economy or economies)) or ((developing or underdeveloped or under-developed or less-developed or least-developed) adj (population* or world)) or (third-world* or thirdworld* or 3rd-world* or lmic or lmics or lami countr* or lalmi countr* or transitional countr*) or (low* adj (gdp or gnp or gross domestic or gross national)) or ((underserved or under-served) adj (countr* or nation? or population*))).mp. 21 16 or 17 or 18 or 19 or 20 22 5 and 15 and 21	Montenegr* or Morocc* or Mozambi* or Myanma* or Burmese or Namibia* or Nepal* or Nicaragua* or Niger* or Pakistan* or Palau* or Papua New Guinea* or Paraguay* or Peru* or Philippines or Filipino or Romania* or Rwanda* or Samoa* or Sao Tome* or Senegal* or Serbia* or Sierra Leon* or Solomon Island* or Somalia* or South Africa* or Sudan* or Sri Lanka* or St Lucia* or Saint Lucia or St Vincent or Saint Vincent or Grenadines or Surinam* or Swazi* or Syria* or Tajikistan* or Tanzania* or Thai* or Timor* or Togo* or Tonga* or Tunisia* or Turk* or Tuvalu* or Uganda* or Ukrain* or Uzbekistan* or Vanuatu* or Venezuela* or Vietnam* or viet-nam* or West Bank or Gaza or Yemen* or Zambia* or Zimbabwe* or Russia* or Yugoslavia* or USSR or Soviet* or Byelarus*).mp. 18 (africa* or asia* or caribbean or central america* or latin america* or south america* or melanesia* or micronesia* or polynesia*).mp. 19 (resource-limit* or resource-poor or low-resource* or limited-resource* or resource-constrain* or resource-constrain* or under-resource* or poor*-resource* or resource-scarce* or scarce*-resource* or low-income or middle-income or lowincome or middleincome or (low* adj3 middle-income)).mp. 20 (((developing or underdeveloped or under-developed or emerging or less-developed or least-developed or less-economically developed or least-economically developed or less-affluent or least-affluent or deprived or poor) adj (country or countries or nation? or region? or economy or economies)) or	Vietnam* or viet-nam* or West Bank or Gaza or Yemen* or Zambia* or Zimbabwe* or Russia* or Yugoslavia* or USSR or Soviet* or Byelarus*).mp. 488938 17 (africa* or asia* or caribbean or central america* or latin america* or south america* or melanesia* or micronesia* or polynesia*).mp. 18 (resource-limit* or resource-poor or low-resource* or limited-resource* or resource-constrain* or constrain*-resource* or under-resource* or poor*-resource* or resource-scarce* or scarce*-resource* or low-income or middle-income or lowincome or middleincome or (low* adj3 middle-income)).mp. 19 (((developing or underdeveloped or under-developed or emerging or less-developed or least-developed or less-economically developed or least-economically developed or less-affluent or least-affluent or deprived or poor) adj (country or countries or nation? or region? or economy or economies)) or ((developing or underdeveloped or under-developed or less-developed or least-developed) adj (population* or world)) or (third-world* or thirdworld* or 3rd-world* or lmic or lmics or lami countr* or lalmi countr* or transitional countr*) or (low* adj (gdp or gnp or gross domestic or gross national)) or ((underserved or under-served) adj (countr* or nation? or population*))).mp. 20 15 or 16 or 17 or 18 or 19 21 4 and 14 and 20
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	((developing or underdeveloped or under-developed or less-developed or least-developed) adj (population* or world)) or (third-world* or thirdworld* or 3rd-world* or lmics or lami countr* or lalmi countr* or transitional countr*) or (low* adj (gdp or gnp or gross domestic or gross national)) or ((underserved or under-served) adj (countr* or nation? or population*))).m 21 16 or 17 or 18 or 19 or 20 22 5 and 15 and 21	
CINAHL plus	Web of Science	Scopus
S1 (MH "Childbirth, Premature") OR (MH "Labor, Premature") S2 (MH "Infant, Premature") S3 (preterm or "pre-term" or prematur* or "pre-matur*") N2 (infant* or birth* or child* or deliver* or labour or labor or born or baby or babies or neonate* or newborn*) S4 ((((" 24" or "25" or "26" or "27" or "28" or "29" or "30" or "31" or "32" or "33" or "34" or "35" or "36") N0 weeks) and (gestation* or pregnan*))) S5 S1 OR S2 OR S3 OR S4 S6 (MH "Developmental Disabilities") OR (MH "Intellectual Disability") OR (MH "Learning Disorders") OR (MH "Motor Skills") OR (MH "Motor Skills Disorders") OR (MH "Child Development Disorders, Pervasive") OR (MH "Mental Disorders Diagnosed in Childhood") OR (MH "Social Behavior Disorders") OR (MH "Child Behavior Disorders") OR (MH "Hearing Disorders") OR (MH "Deaf-Blind Disorders") OR (MH "Hearing Loss, Partial") OR (MH "Hearing Loss, Sensorineural") OR (MH "Hearing Loss, Central") OR (MH "Hearing Loss, Conductive") OR (MH "Vision Disorders") OR (MH "Intelligence") OR (MH "Academic Performance") OR (MH "Psychomotor Performance") OR (MH "Psychomotor Disorders") OR (MH "Cognition Disorders") S7 (MH "Central Nervous System Diseases") OR (MH	1 TS=((preterm or pre-term or prematur* or pre-matur*) NEAR/2 (infant* or birth* or child* or deliver* or labour or labor or born or baby or babies or neonate* or newborn*)) 2 TS(((((" 24" or "25" or "26" or "27" or "28" or "29" or "30" or "31" or "32" or "33" or "34" or "35" or "36") NEAR/0 weeks) and (gestation* or pregnan*))) 3 #1 OR #2 4 TS=((longterm or long-term or development* or neurodevelopmental or intellectual or vision or hearing or psychomotor or cognitive or motor or mental or attention or academic or learning) NEAR/2 (effect* or outcome* or disorder* or disabilit* or impairment*)) 5 TS=("cerebral palsy" or blindness or deafness or "autistic trait*" or ADHD or autism) 242342 6 TS=(academic NEAR/0 (performance or achievement* or success)) 7 TS=(education* NEAR/0 (performance or achievement* or success)) 8 TS=((child* or adolescent) NEAR/0 development) 9 #4 OR #5 OR #6 OR #7 OR #8 10 TS=(Afghanistan* or Albania* or Algeria* or Angola* or Argentina* or	1 TITLE-ABS-KEY ((preterm OR pre-term OR prematur* OR pre-matur*) W/1 (infant* OR birth* OR child* OR deliver* OR labour OR labor OR born OR baby OR babies OR neonate* OR newborn*)) 2 TITLE-ABS-KEY (("24" OR "25" OR "26" OR "27" OR "28" OR "29" OR "30" OR "31" OR "32" OR "33" OR "34" OR "35" OR "36") W/0 (weeks) AND (gestation* OR pregnan*)) 3 1 OR 2 4 TITLE-ABS-KEY ((longterm OR "long-term" OR development* OR neurodevelopmental OR intellectual OR vision OR hearing OR psychomotor OR cognitive OR motor OR mental OR attention OR academic OR learning) W/2 (effect* OR outcome* OR disorder* OR disabilit* OR impairment*)) 5 TITLE-ABS-KEY ("cerebral palsy" OR blindness OR deafness OR "autistic trait*" OR adhd OR autism) 6 TITLE-ABS-KEY (academic W/0 (performance OR achievement* OR succes)) 7 TITLE-ABS-KEY (education* W/0 (performance OR achievement* OR success)) 8 TITLE-ABS-KEY ((child* OR adolescent) W/0 development) 9 4 OR 5 OR 6 OR 7 OR 8 10 TITLE-ABS-KEY (afghanistan* OR albania* OR algeria* OR angola* OR argentina* OR armenia* OR azerbaijan* OR bangladesh* OR belarus* OR beliz* OR benin* OR bhutan* OR bolivia* OR bosnia* OR herzegovin* OR

"Nervous System Diseases") OR (MH "Autistic Disorder") OR (MH "Attention Deficit Hyperactivity Disorder") S8 (MH "Child Development: Middle Childhood (6-11 Years) (Iowa NOC)") OR (MH "Child Development") OR (MH "Child Development: Adolescence (12-17 Years) (Iowa NOC)") OR (MH "Child Development: 5 Years (Iowa NOC)") OR (MH "Child Development: 6 Months (Iowa NOC)") OR (MH "Child Development: 4 Years (Iowa NOC)") OR (MH "Child Development: 3 Years (Iowa NOC)") OR (MH "Child Development: 2 Years (Iowa NOC)") OR (MH "Child Development: 12 Months (Iowa NOC)") OR (MH "Adolescent Development") 31,284 S9 (longterm or "long-term" or development* or neurodevelopmental or intellectual or vision or hearing or psychomotor or cognitive or motor or mental or attention or academic or learning) N3 (effect* or outcome* or disorder* or disabilit* or impairment*) 365,134 S10 "cerebral palsy" or blindness or deafness or "autistic trait*" or ADHD or autism S11 (academic N0 (performance or achievement* or success)) S12 (education* N0 (performance or achievement* or success)) S13 (child* or adolescent) N0 development S14 S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 S15 (MH "Developing Countries") OR (MH "Low and Middle Income Countries") S16 Afghanistan* OR Albania* OR Algeria* OR Angola* OR Argentina* OR Armenia* OR Azerbaijan* OR Bangladesh* OR Belarus* OR Beliz* OR Benin* OR Bhutan* OR Bolivia* OR Bosnia* OR Herzegovin* OR Botswan* OR Brazil* OR Bulgaria* OR Burkina* OR Burundi* OR Cabo Verde* OR Cape Verde* OR Cambodia* OR Cameroon* OR "Central African" OR Chad* OR China OR Chinese OR Colombia* OR Comor* OR	Armenia* or Azerbaijan* or Bangladesh* or Belarus* or Beliz* or Benin* or Bhutan* or Bolivia* or Bosnia* or Herzegovin* or Botswan* or Brazil* or Bulgaria* or Burkina* or Burundi* or "Cabo Verde*" or "Cape Verde*" or Cambodia* or Cameroon* or "Central African" or Chad* or China or Chinese or Colombia* or Comor* or Congo* or "Costa Rica*" or "Cote d'Ivoire*" or "Ivory Coast" or Cuba* or Djibouti* or Dominica* or Ecuador* or Egypt* or "El Salvador*" or Eritrea* or Ethiopia* or Fiji* or Gabon* or Gambia* or Georgia* or Ghana* or Grenad* or Guatemala* or Guinea* or Guyan* or Haiti* or Hondura* or India* or Indonesia* or Iran* or Iraq* or Jamaica* or Jordan* or Kazakhstan* or Kenya* or Kiribati* or Korea* or Kosov* or Kyrgyz* or Lao* or Leban* or Lesotho* or Liberia* or Libya* or Macedonia* or Madagascar* or Malawi* or Malaysia* or Maldiv* or Mali* or "Marshall Island*" or Mauritania* or Mauriti* or Mexic* or Micronesia* or Moldova* or Mongolia* or Montenegr* or Morocc* or Mozambi* or Myanma* or Burmese or Namibia* or Nepal* or Nicaragua* or Niger* or Pakistan* or Palau* or "Papua New Guinea*" or Paraguay* or Peru* or Philippines or Filipino or Romania* or Rwanda* or Samoa* or Sao Tome* or Senegal* or Serbia* or Sierra Leon* or "Solomon Island*" or Somalia* or "South Africa*" or Sudan* or "Sri Lanka*" or "St Lucia*" or "Saint Lucia" or "St Vincent" or "Saint Vincent" or Grenadines or Surinam* or Swazi* or Syria* or Tajikistan* or Tanzania* or Thai* or Timor* or Togo* or Tonga* or Tunisia* or Turk* or Tuvalu* or Uganda* or	botswan* OR brazil* OR bulgaria* OR burkina* OR burundi* OR "cabo verde*" OR "cape verde*" OR cambodia* OR cameroon* OR "central african" OR chad* OR china OR chinese OR colombia* OR comor* OR congo* OR "costa rica*" OR "cote d'ivoir*" OR "ivory coast" OR cuba* OR djibouti* OR dominica* OR ecuador* OR egypt* OR "el salvador*" OR eritrea* OR ethiopia* OR fiji* OR gabon* OR gambia* OR georgia* OR ghana* OR grenad* OR guatemala* OR guinea* OR guyan* OR haiti* OR hondura* OR india* OR indonesia* OR iran* OR iraq* OR jamaica* OR jordan* OR kazakhstan* OR kenya* OR kiribati* OR korea* OR kosov* OR kyrgyz* OR lao* OR leban* OR lesotho* OR liberia* OR libya* OR macedonia* OR madagascar* OR malawi* OR malaysia* OR maldiv* OR mali* OR "marshall island*" OR mauritania* OR mauriti* OR mexic* OR micronesia* OR moldova* OR mongolia* OR montenegr* OR morocc* OR mozambi* OR myanma* OR burmese OR namibia* OR nepal* OR nicaragua* OR niger* OR pakistan* OR palau* OR "papua new guinea*" OR paraguay* OR peru* OR philippines OR filipino OR romania* OR rwanda* OR samoa* OR "sao tome*" OR senegal* OR serbia* OR "sierra leon*" OR "solomon island*" OR somalia* OR "south africa*" OR sudan* OR "sri lanka*" OR "st lucia*" OR "saint lucia" OR "st vincent" OR "saint vincent" OR grenadines OR surinam* OR swazi* OR syria* OR tajikistan* OR tanzania* OR thai* OR timor* OR togo* OR tonga* OR tunisia* OR turk* OR tuvalu* OR uganda* OR ukraine* OR uzbekistan* OR vanuatu* OR venezuela* OR vietnam* OR "viet-nam*" OR "west bank" OR gaza OR yemen* OR zambia* OR zimbabwe* OR russia* OR yugoslavia* OR ussr OR soviet* OR byelarus*) 11 TITLE-ABS-KEY (africa* OR asia* OR caribbean OR "central america*" OR "latin america*" OR "south america*" OR melanesia* OR micronesia* OR polynesia*)
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Congo* OR “Costa Rica*” OR “Cote d'Ivoire*” OR “Ivory Coast” OR Cuba* OR Djibouti* OR Dominica* OR Ecuador* OR Egypt* OR “El Salvador*” OR Eritrea* OR Ethiopia* OR Fiji* OR Gabon* OR Gambia* OR Georgia* OR Ghana* OR Grenad* OR Guatemala* OR Guinea* OR Guyan* OR Haiti* OR Hondura* OR India* OR Indonesia* OR Iran* OR Iraq* OR Jamaica* OR Jordan* OR Kazakhstan* OR Kenya* OR Kiribati* OR Korea* OR Kosov* OR Kyrgyz* OR Lao* OR Leban* OR Lesotho* OR Liberia* OR Libya* OR Macedonia* OR Madagascar* OR Malawi* OR Malaysia* OR Maldiv* OR Mali* OR “Marshall Island*” OR Mauritania* OR Mauriti* OR Mexic* OR Micronesia* OR Moldova* OR Mongolia* OR Monteneg* OR Morocc* OR Mozambi* OR Myanma* OR Burmese OR Namibia* OR Nepal* OR Nicaragua* OR Niger* OR Pakistan* OR Palau* OR “Papua New Guinea*” OR Paraguay* OR Peru* OR Philippines OR Filipino OR Romania* OR Rwanda* OR Samoa* OR “Sao Tome*” OR Senegal* OR Serbia* OR “Sierra Leon*” OR “Solomon Island*” OR Somalia* OR “South Africa*” OR Sudan* OR “Sri Lanka*” OR “St Lucia*” OR “Saint Lucia” OR “St Vincent” OR “Saint Vincent” OR Grenadines OR Surinam* OR Swazi* OR Syria* OR Tajikistan* OR Tanzania* OR Thai* OR Timor* OR Togo* OR Tonga* OR Tunisia* OR Turk* OR Tuvalu* OR Uganda* OR Ukrain* OR Uzbekistan* OR Vanuatu* OR Venezuela* OR Vietnam* OR “vietnam*” OR “West Bank” OR Gaza OR Yemen* OR Zambia* OR Zimbabwe* OR Russia* OR Yugoslavia* OR USSR OR Soviet* OR Byelarus* 887,671 S17 africa* or asia* or caribbean or “central america*” or “latin america*” or melanesia* or micronesia* or polynesia* S18 “resource-limit*” or “resource-poor” or “low-resource*” or “limited-resource*” or “resource-constrain*” or “constrain*-	Ukrain* or Uzbekistan* or Vanuatu* or Venezuela* or Vietnam* or “viet-nam*” or “West Bank” or Gaza or Yemen* or Zambia* or Zimbabwe* or Russia* or Yugoslavia* or USSR or Soviet* or Byelarus*) 11 TS=(africa* or asia* or caribbean or “central america*” or “latin america*” or “south america*” or melanesia* or micronesia* or polynesia*) 12 TS=(“resource-limit*” or “resource-poor” or “low-resource*” or “limited-resource*” or “resource-constrain*” or “constrain*-resource*” or “under-resource*” or “poor*-resource*” or “resource-scarce*” or “scarce*-resource*” or “low-income” or “middle-income” or lowincome or middleincome or (low* W/2 “middle-income”)) 13 TS=((developing or underdeveloped or under-developed” OR “less-developed” OR “least-economically developed” OR “least-affluent” OR “least-affluent” OR deprived OR poor) W/0 (country OR countries OR nation? OR region? OR economy OR economies))) OR (TITLE-ABS-KEY ((developing OR underdeveloped OR “under-developed” OR “less-developed” OR “least-developed”) W/0 (population* OR world))) OR (TITLE-ABS-KEY (“third-world*” OR thirdworld* OR “3rd-world*” OR lmic OR lmics OR “lami countr*” OR “lalmi countr*” OR “transitional countr*”) OR (TITLE-ABS-KEY (low* W/0 (gdp OR gnp OR “gross domestic” OR “gross national”) OR (underserved OR “under-served”) W/0 (countr* OR nation? OR population 14 10 OR 11 OR 12 OR 13 15 3 OR 9 OR
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resource*" or "under-resource*" or "poor*-resource*" or "resource- scarce*" or "scarce*-resource*" or "low-income" or "middle-income" or lowincome or middleincome or (low* N3 "middle-income") S19 (((developing or underdeveloped or "under- developed" or emerging or "less- developed" or "least-developed" or "less-economically developed" or "least-economically developed" or "less-affluent" or "least-affluent" or deprived or poor) N0 (country or countries or nation? or region? or economy or economies)) or (((developing or underdeveloped or "under-developed" or "less- developed" or "least-developed") N0 (population* or world)) or ("third-world*" or thirdworld* or "3rd-world*" or lmic or lmics or "lami countr*" or "lalmi countr*" or "transitional countr*") or (low* N0 (gdp or gnp or "gross domestic" or "gross national"))) or ((underserved or "under-served") N0 (countr* or nation? or population*))) S20 S15 OR S16 OR S17 OR S18 OR S19 S21 S5 AND S14 AND S20	15 #14	#3 AND #9 AND	
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Appendix S2: Operational definitions of neurodevelopmental outcomes

1. Neurodevelopmental impairment: presence of any of the following - cerebral palsy, visual impairment/blindness, hearing impairment/deafness, development delays, or however defined by the authors.
2. Cerebral palsy: abnormality of tone with motor dysfunction diagnosed through clinical/neurological examination, or however defined by the authors.
3. Motor impairments (excluding CP): serious impairment in the development of motor coordination, assessed using validated method/assessment tool, or however defined by the authors. (e.g. developmental coordination disorder)
4. Developmental delays:
 - a. Motor, Cognitive or language delays: a score of less than -1SD below population mean, assessed using validated method/assessment tool, or however defined by the authors.
 - b. Global developmental delays: presence of delay in two or more developmental domains (e.g. motor, cognitive, language)
5. Hearing impairment including deafness: hearing loss requiring amplification or worse
6. Vision impairment including blindness: severe visual impairment with a visual acuity of $<3/60$ in either eye assessed by standard method.
7. Learning difficulties: however, defined by the authors using age-appropriate assessment tool
8. Adverse behavioural and social-emotional outcomes: includes screening or clinical diagnosis of Autism spectrum disorder (ASD), Attention-deficit/hyperactivity disorder (ADHD), externalizing and internalizing behavioral problems.
9. Growth outcomes:
 - a. Undernutrition: weight for age z score $<2SD$
 - b. Stunting: height for age z score $<2SD$

Figure S1: Prevalence of neurodevelopmental impairment

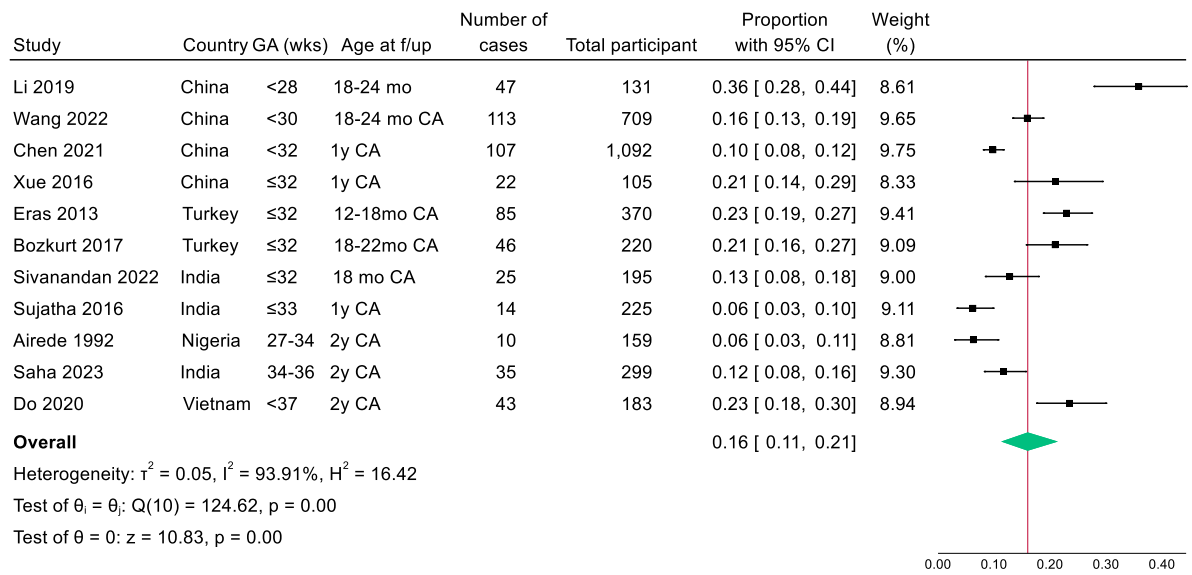


Figure S2: Prevalence of cerebral palsy

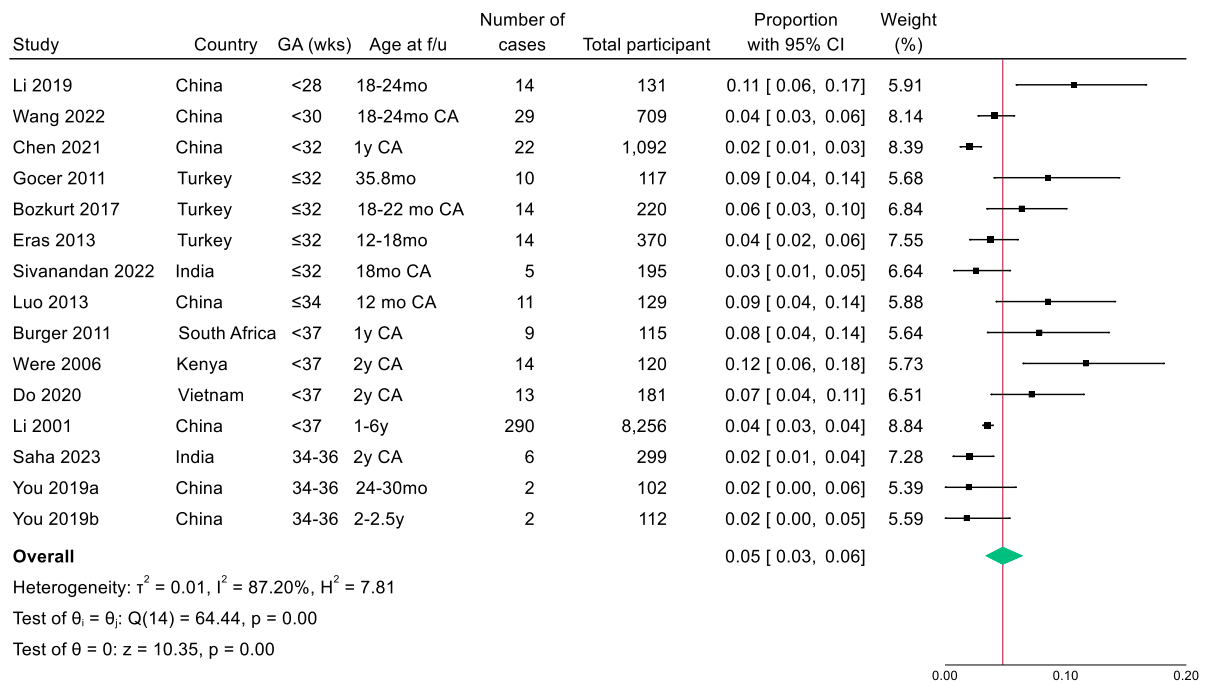


Figure S3: Prevalence of hearing impairment/deafness

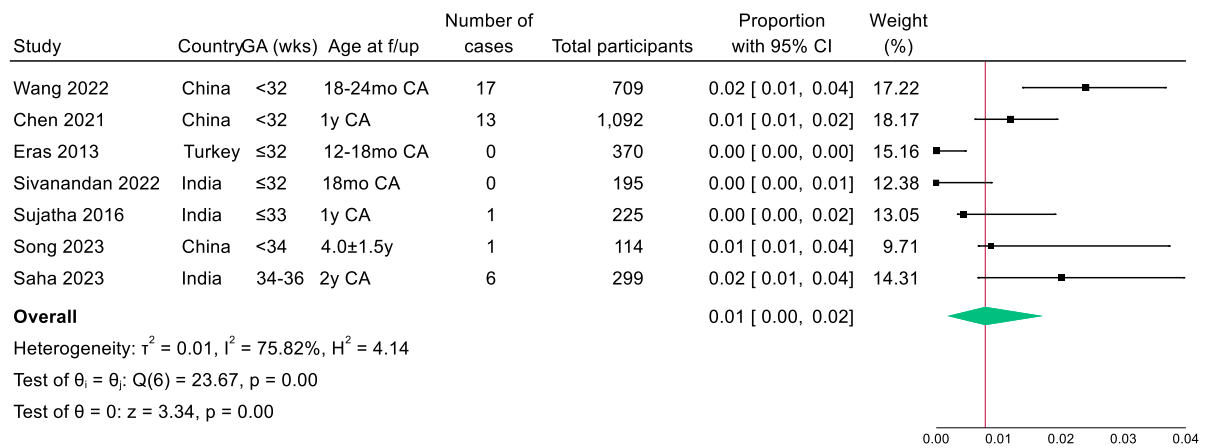


Figure S4: Prevalence of visual impairment/blindness

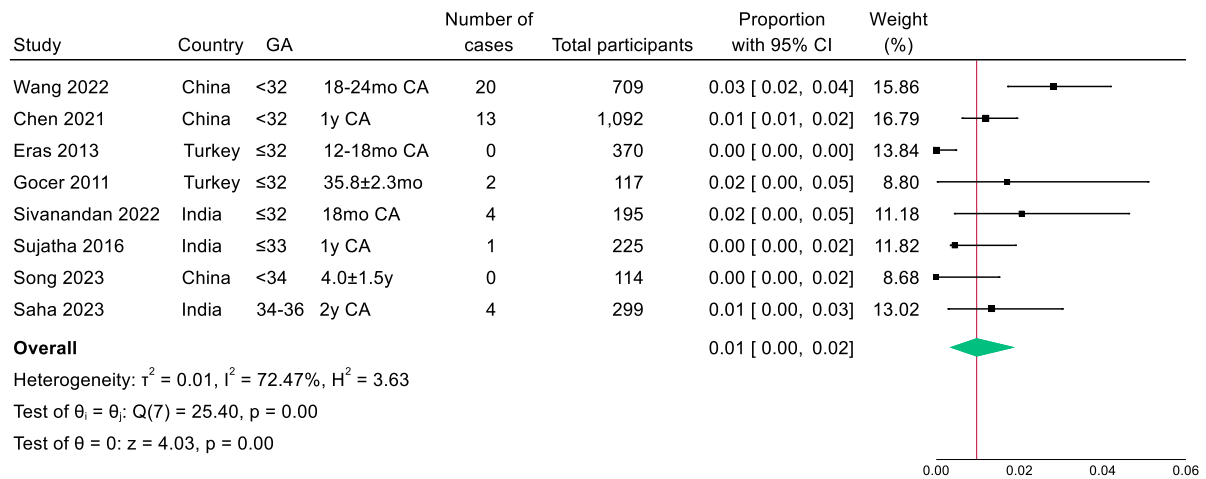


Figure S5: Prevalence of motor impairment

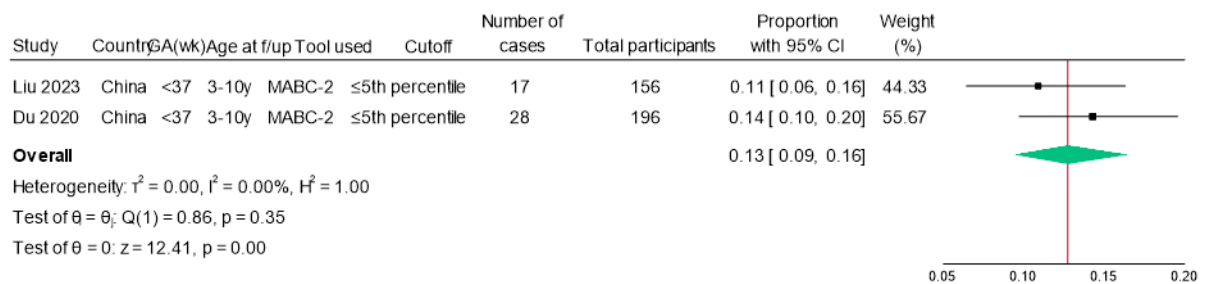


Figure S6: Prevalence of motor delays

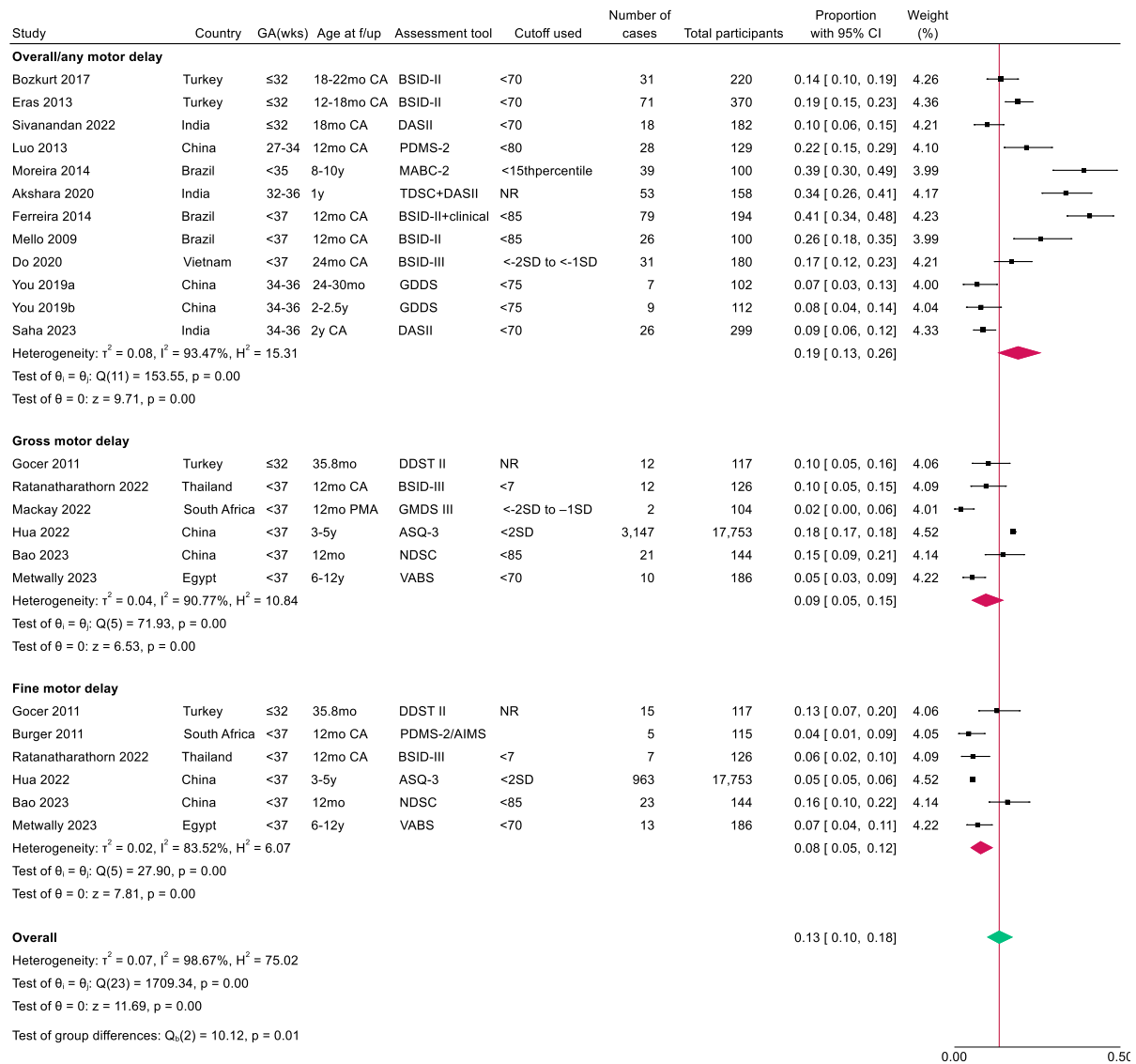


Figure S7: Prevalence of cognitive delays

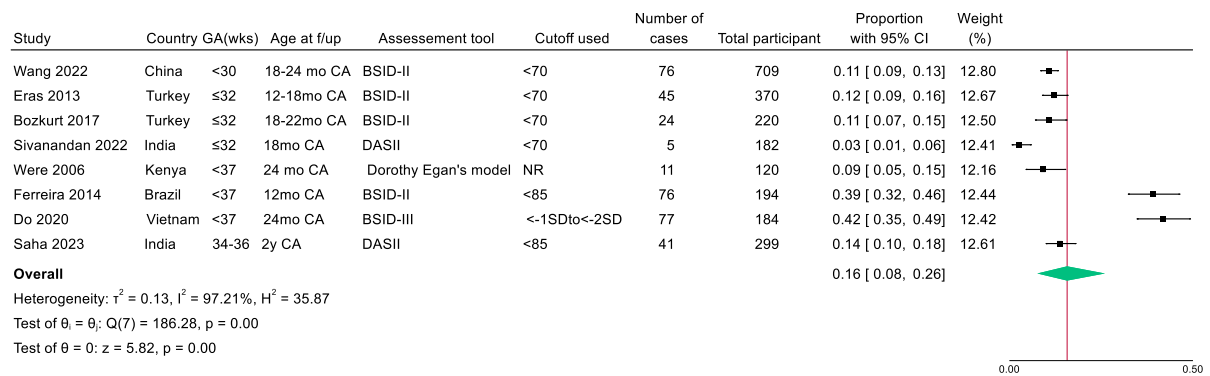


Figure S8: Prevalence of language delay

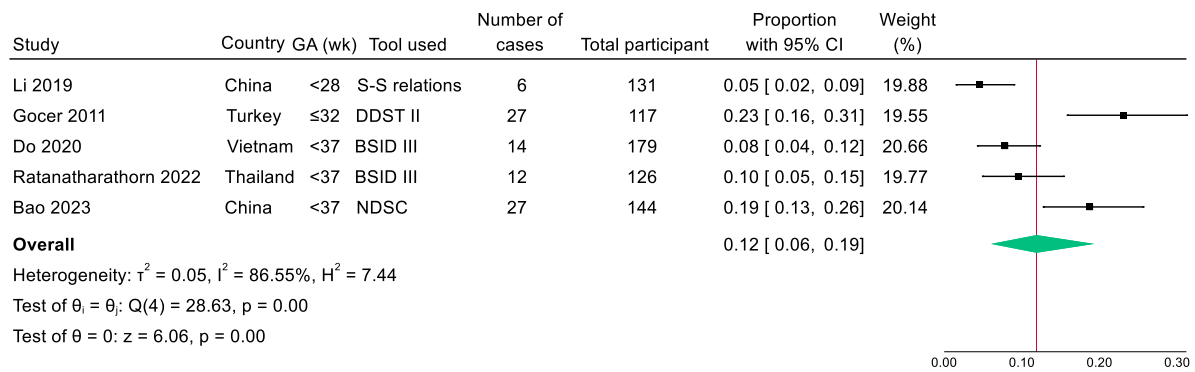


Figure S9: Prevalence of global developmental delay

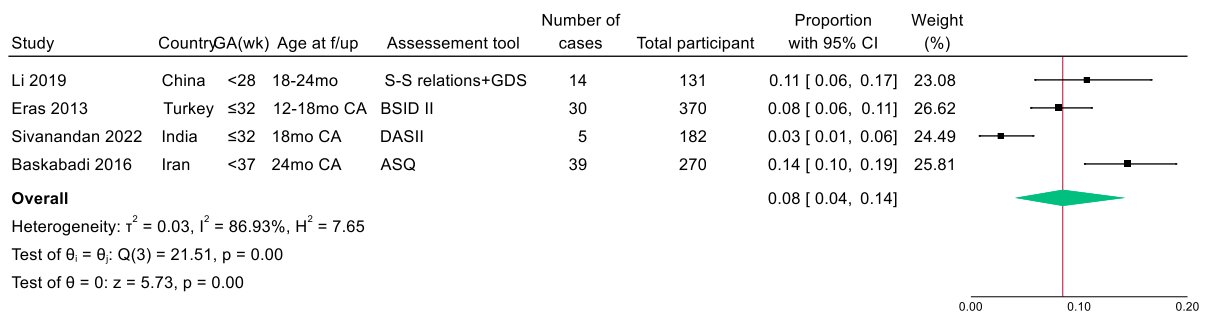


Figure S10: Prevalence of ADHD

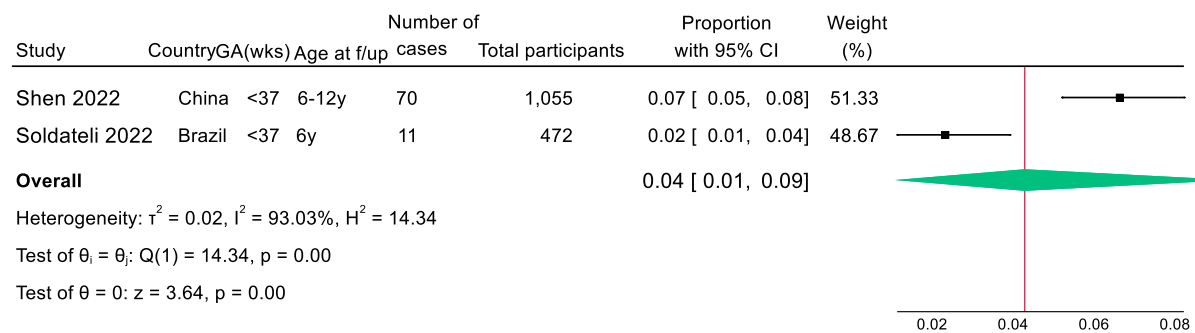


Figure S11: Prevalence of underweight

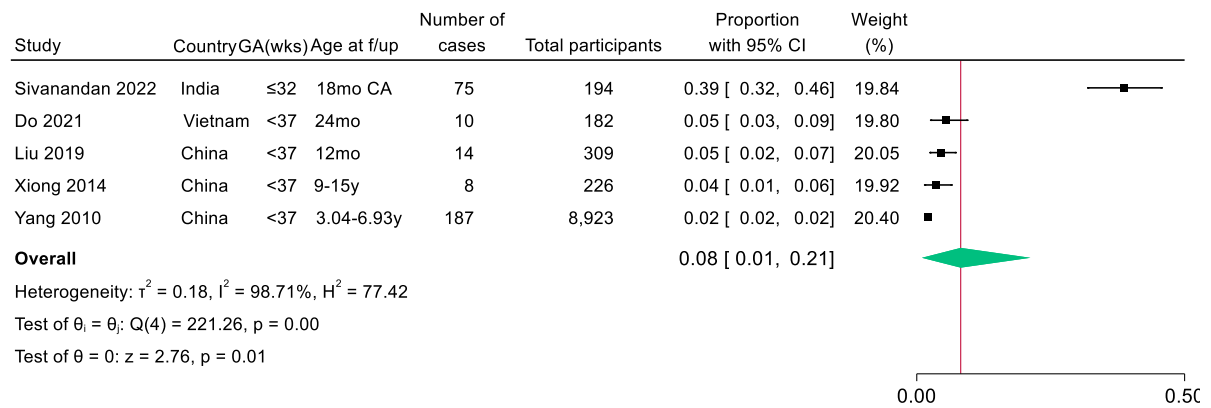


Figure S12: Prevalence of stunting

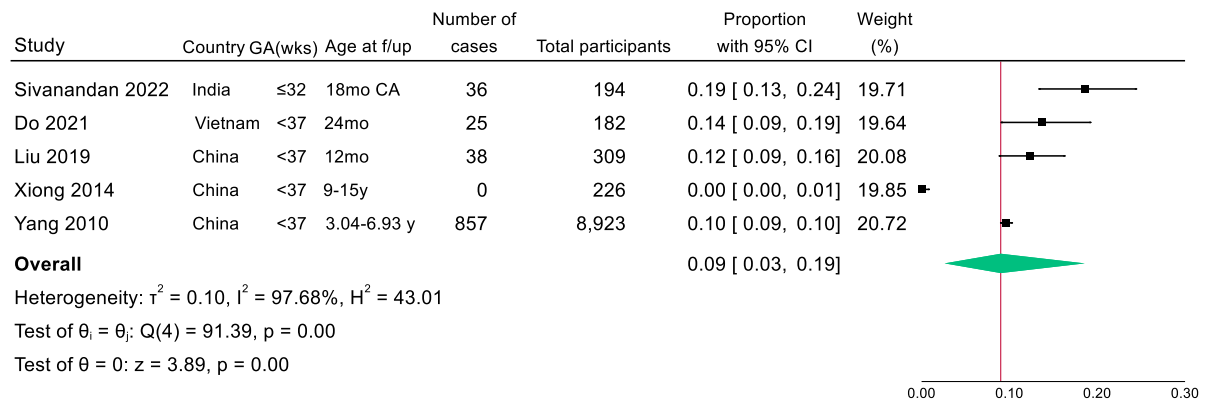


Figure S13: Funnel plots

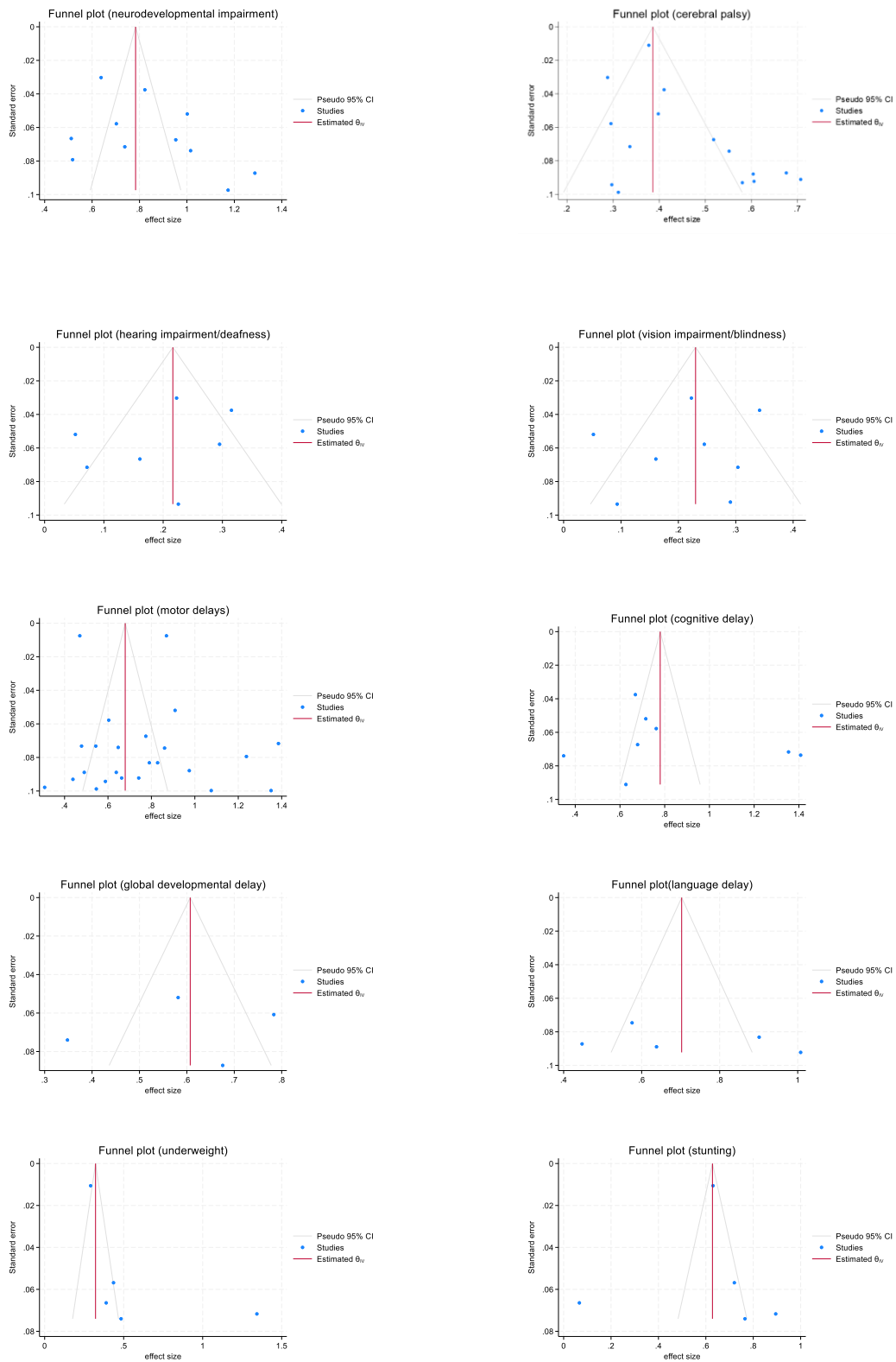


Table S1: Subgroup analysis by mean gestational age

Subgroup	Number of studies	Number of cases	Total participants	Prevalence (%)	95% CI	I ² (%)	Test of group difference
Neurodevelopmental impairment							
<28 weeks	1	47	131	36	28 – 44	-	0.00
28 to <32 weeks	9	465	3258	15	10 – 20	92.18	
32 to 36 weeks	1	35	299	12	8 – 16	-	
Cerebral palsy							
<28 weeks	1	14	131	11	6 – 17	-	0.06
28 to <32 weeks	7	92	2882	4	3 – 6	75.02	
32 to 36 weeks	4	24	633	4	1 – 8	82.63	
Not reported	3	311	8502	6	3 – 11	79.98	
Visual impairment/blindness							
<28 weeks	NA						0.66
28 to <32 weeks	6	38	2705	1	0 – 2	80.43	
32 to 36 weeks	1	4	299	1	0 – 3	-	
Not reported	1	2	117	2	0 – 5	-	
Hearing impairment/deafness							
<28 weeks	NA						0.11
28 to <32 weeks	6	32	2705	1	0 - 2	76.83	
32 to 36 weeks	1	6	299	2	1 - 4	-	
Motor delays							
<28 weeks	NA						0.04
28 to <32 weeks	10	282	1717	13	7 - 21	94.16	
32 to 36 weeks	3	42	513	8	6 - 11	0.00	
Not reported	11	4324	36787	15	10 – 22	99.33	
Cognitive delays							
<28 weeks	NA						0.42
28 to <32 weeks	6	302	1869	17	7- 32	98.03	
32 to 36 weeks	2	52	419	12	8-16	36.63	
Global developmental delay							
<28 weeks	1	14	131	11	6 – 17	-	0.50
28 to <32 weeks	3	74	822	8	3 – 16	91.75	

32 to 36 weeks	NA						
Language delay							
<28 weeks	1	6	131	5	2 – 9	-	0.00
28 to <32 weeks	2	26	305	8	6 – 12	0.00	
32 to 36 weeks	NA						
Not reported	2	54	261	21	16 – 26	0.00	

Table S2: Subgroup analysis by mean birthweight

Subgroup	Number of studies	Number of cases	Total participants	Prevalence (%)	95% CI	I ² (%)	Test of group difference
Neurodevelopmental impairment							
<1500 gm	8	455	2981	17	12 – 24	94.36	0.00
1500 to <2500 gm	2	78	482	17	7 – 30	91.04	
Not reported	1	14	225	6	3 – 10	-	
Cerebral palsy							
<1500 gm	8	121	2952	5	3 – 8	85.82	0.17
1500 to <2500 gm	2	19	480	4	1 – 11	86.53	
≥2500 gm	2	4	214	2	0 – 4	0.00	
Not reported	3	311	8502	6	3 -11	79.98	
Visual impairment/blindness							
<1500 gm	4	37	2366	1	0 – 3	87.94	0.91
1500 to <2500 gm	1	4	413	1	0 – 2	47.61	
Not reported	2	3	342	1	0 – 2	23.30	
Hearing impairment/deafness							
<1500 gm	4	30	2366	1	0 - 2	87.66	0.27
1500 to <2500 gm	2	7	299	2	1 - 3	0.00	
Not reported	NA	1	225	0	0 – 2	-	
Motor delays							
<1500 gm	11	278	1771	13	7 – 19	93.09	0.82
1500 to <2500 gm	2	57	479	13	5 – 22	85.57	
≥2500 gm	4	60	502	11	7 – 16	59.66	
Not reported	7	4253	36265	17	8 – 28	99.75	
Cognitive delays							
<1500 gm	6	237	1795	13	5 – 23	96.26	0.32
1500 to <2500 gm	2	118	483	26	5 - 57	97.90	
≥2500 gm	NA						
Global developmental delay							
<1500 gm	3	49	683	7	3 – 12	81.52	0.03
1500 to <2500 gm	1	39	270	14	10 – 19	-	
≥2500 gm	NA						
Language delay							

<1500 gm	3	45	374	11	3 – 24	90.11	0.01
1500 to <2500 gm	1	14	179	8	4 – 12	-	
≥2500 gm	1	27	144	19	13 – 26	-	

Table S3: Subgroup analysis by country-income level

Subgroup	Number of studies	Number of cases	Total participants	Prevalence (%)	95% CI	I ² (%)	Test of group difference
Neurodevelopmental impairment							
Upper-middle - income	6	420	2627	20	14 – 27	94.07	0.06
Lower-middle-income	5	127	1061	11	6 – 18	88.45	
Cerebral palsy							
Upper-middle - income	11	417	11353	5	3 – 7	86.75	0.87
Lower-middle-income	4	38	795	5	2 -10	85.35	
Visual impairment/blindness							
Upper-middle - income	5	35	2402	1	0 – 1	83.63	0.66
Lower-middle-income	3	9	719	1	0 – 2	0.00	
Hearing impairment/deafness							
Upper-middle - income	4	31	114	1	0 – 2	83.93	0.78
Lower-middle-income	3	7	719	1	0 – 2	67.49	
Motor delays							
Upper-middle - income	14	4497	37826	14	9 – 19	99.00	0.75
Lower-middle-income	5	151	1191	12	6 – 21	93.45	
Cognitive delays							
Upper-middle - income	5	282	1792	16	8 – 27	96.37	0.91
Lower-middle-income	3	93	486	15	0 – 42	97.94	
Global developmental delay							
Upper-middle - income	2	44	501	9	6 – 11	0.00	0.86
Lower-middle-income	2	44	452	8	0 – 23	95.16	
Language delay							
Upper-middle - income	4	72	518	13	6 – 23	87.99	0.24
Lower-middle-income	1	14	179	8	4 – 12	-	
Underweight							
Upper-middle - income	3	209	9458	3	2 – 5	71.94	0.20
Lower-middle-income	2	85	376	19	0 – 59	98.56	
Stunting							

Upper-middle - income	3	895	9458	5	0 – 18	98.41	0.09
Lower-middle-income	2	61	376	16	12 – 21	36.92	

Table S4: Sensitivity analysis for high quality studies

Outcome	Number of studies	Pooled estimate of prevalence (%, 95% CI)	I² (%)
Neurodevelopmental impairment	9	15 (10 -21)	95.24
Cerebral palsy	10	5 (3 – 7)	84.67
Visual impairment/blindness	7	1 (0 – 2)	76.36
Motor delays	13	12 (7 – 17)	99.32
Cognitive delays	7	16 (7 – 29)	97.60
Global developmental delays	3	7 (3 – 12)	81.52
Language delay	3	11 (3 – 23)	91.56