**SAJPH 761 supplementary tables**

**Table S1**. Top 100 most-cited articles on [maternal smoking](https://www.acemap.info/paper/208090874) during pregnancy

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| --- | --- | --- | --- | --- |
|  | **Authors, Year** | **Title** | **Source title** | **TNC** |
| **1** | Cnattingius S.2004 | The epidemiology of smoking during pregnancy: Smoking prevalence, maternal characteristics, and pregnancy outcomes | Nicotine and Tobacco Research | 812 |
| **2** | DiFranza J.R., et al.2004 | Prenatal and Postnatal Environmental Tobacco Smoke Exposure and Children's Health | Pediatrics | 632 |
| **3** | Joubert B.R., et al.2012. | 450K epigenome-wide scan identifies differential DNA methylation in newborns related to maternal smoking during pregnancy | Environmental Health Perspectives | 523 |
| **4** | Joubert B.R., et al.2016 | DNA Methylation in Newborns and Maternal Smoking in Pregnancy: Genome-wide Consortium Meta-analysis | American Journal of Human Genetics | 487 |
| **5** | Wang X., et al.2002 | Maternal cigarette smoking, metabolic gene polymorphism, and infant birth weight | Journal of the American Medical Association | 482 |
| **6** | Breton C.V., et al.2009 | Prenatal tobacco smoke exposure affects global and gene-specific DNA methylation | American Journal of Respiratory and Critical Care Medicine | 476 |
| **7** | Lumley J., et al.2009 | Interventions for promoting smoking cessation during pregnancy | Cochrane Database of Systematic Reviews | 476 |
| **8** | Hanrahan J.P., et al.1992 | The effect of maternal smoking during pregnancy on early infant lung function | American Review of Respiratory Disease | 466 |
| **9** | Gilliland F.D., et al. 2001 | Effects of maternal smoking during pregnancy and environmental tobacco smoke on asthma and wheezing in children | American Journal of Respiratory and Critical Care Medicine | 455 |
| **10** | Burke H., et al. 2012 | Prenatal and passive smoke exposure and incidence of asthma and wheeze: Systematic review and meta-analysis | Pediatrics | 453 |
| **11** | Oken E., et al.2008 | Maternal smoking during pregnancy and child overweight: Systematic review and meta-analysis | International Journal of Obesity | 427 |
| **12** | Hackshaw A., et al.2011 | Maternal smoking in pregnancy and birth defects: A systematic review based on 173 687 malformed cases and 11.7 million controls | Human Reproduction Update | 413 |
| **13** | Andres R.L., Day M.-C.2000 | Perinatal complications associated with maternal tobacco use | Seminars in Neonatology | 389 |
| **14** | Sexton M., Hebel J.R.1984 | A Clinical Trial of Change in Maternal Smoking and Its Effect on Birth Weight | JAMA: The Journal of the American Medical Association | 377 |
| **15** | Stick SM, et al.1996 | Effects of maternal smoking during pregnancy and a family history of asthma on respiratory function in newborn infants | Lancet | 369 |
| **16** | Huizink A.C., Mulder E.J.H.2006 | Maternal smoking, drinking or cannabis use during pregnancy and neurobehavioral and cognitive functioning in human offspring | Neuroscience and Biobehavioral Reviews | 361 |
| **17** | Weitzman M., et al.1990 | Maternal smoking and childhood asthma | Pediatrics | 354 |
| **18** | Mick E., et al.2002 | Case-Control Study of Attention-Deficit Hyperactivity Disorder and Maternal Smoking, Alcohol Use, and Drug Use during Pregnancy | Journal of the American Academy of Child and Adolescent Psychiatry | 340 |
| **19** | Lumley J., et al. 2000 | Interventions for promoting smoking cessation during pregnancy. | Cochrane database of systematic reviews (Online) | 339 |
| **20** | Ong K.K.L., et al.2002 | Size at birth and early childhood growth in relation to maternal smoking, parity and infant breast-feeding: Longitudinal birth cohort study and analysis | Pediatric Research | 338 |
| **21** | Fingerhut L.A., et al.1990 | Smoking before, during, and after pregnancy | American Journal of Public Health | 336 |
| **22** | Castles A., et al. 1999 | Effects of smoking during pregnancy: Five meta-analyses | American Journal of Preventive Medicine | 335 |
| **23** | DiFranza J.R., Lew R.A.1995 | Effect of maternal cigarette smoking on pregnancy complications and sudden infant death syndrome | Journal of Family Practice | 335 |
| **24** | Butler N.R., et al.1972 | Cigarette Smoking in Pregnancy: Its Influence on Birth Weight and Perinatal Mortality | British Medical Journal | 334 |
| **25** | Milberger S., et al.1996 | Is maternal smoking during pregnancy a risk factor for attention deficit hyperactivity disorder in children? | American Journal of Psychiatry | 329 |
| **26** | Butler N.R.1973 | Smoking in Pregnancy and Subsequent Child Development | British Medical Journal | 322 |
| **27** | Shah N.R., Bracken M.B.2000 | A systematic review and meta-analysis of prospective studies on the association between maternal cigarette smoking and preterm delivery | American Journal of Obstetrics and Gynecology | 321 |
| **28** | Von Kries R., et al. 2002 | Maternal smoking during pregnancy and childhood obesity | American Journal of Epidemiology | 311 |
| **29** | Wakschlag L.S., et al.2002 | Maternal smoking during pregnancy and severe antisocial behavior in offspring: A review | American Journal of Public Health | 311 |
| **30** | Chamberlain C., et al.2013 | Psychosocial interventions for supporting women to stop smoking in pregnancy | Cochrane Database of Systematic Reviews | 307 |
| **31** | Fergusson D.M., et al.1998 | Maternal smoking during pregnancy and psychiatric adjustment in late adolescence | Archives of General Psychiatry | 306 |
| **32** | Thapar A., et al.2003 | Maternal smoking during pregnancy and attention deficit hyperactivity disorder symptoms in offspring | American Journal of Psychiatry | 301 |
| **33** | Li Y.-F., et al.2005 | Maternal and grandmaternal smoking patterns are associated with early childhood asthma | Chest | 300 |
| **34** | Jacobson S.W., et al.2002 | Validity of maternal report of prenatal alcohol, cocaine, and smoking in relation to neurobehavioral outcome | Pediatrics | 294 |
| **35** | Tager I.B., et al.1983 | Longitudinal Study of the Effects of Maternal Smoking on Pulmonary Function in Children | New England Journal of Medicine | 287 |
| **36** | Gilliland F.D., et al.2000 | Maternal smoking during pregnancy, environmental tobacco smoke exposure and childhood lung function | Thorax | 280 |
| **37** | Weissman M.M., et al. 1999 | Maternal smoking during pregnancy and psychopathology in offspring followed to adulthood | Journal of the American Academy of Child and Adolescent Psychiatry | 279 |
| **38** | Power C., et al.2002 | Fetal environment and subsequent obesity: A study of maternal smoking | International Journal of Epidemiology | 275 |
| **39** | Rogers J.M.2009 | Tobacco and pregnancy | Reproductive Toxicology | 272 |
| **40** | Wakschlag L.S., et al.1997 | Maternal smoking during pregnancy and the risk of conduct disorder in boys | Archives of General Psychiatry | 270 |
| **41** | Lumley J., et al.2004 | Interventions for promoting smoking cessation during pregnancy. | Cochrane database of systematic reviews (Online) | 269 |
| **42** | Gilliland F.D., et al.2002 | Effects of glutathione S-transferase M1, maternal smoking during pregnancy, and environmental tobacco smoke on asthma and wheezing in children | American Journal of Respiratory and Critical Care Medicine | 268 |
| **43** | Dietz P.M., et al.2010 | Infant Morbidity and Mortality Attributable to Prenatal Smoking in the US. | American Journal of Preventive Medicine | 262 |
| **44** | Dempsey D.A., Benowitz N.L.2001 | Risks and benefits of nicotine to aid smoking cessation in pregnancy | Drug Safety | 262 |
| **45** | Gold DR, et al.1999 | Predictors of repeated wheeze in the first year of life: The relative roles of cockroach, birth weight, acute lower respiratory illness, and maternal smoking | American Journal of Respiratory and Critical Care Medicine | 262 |
| **46** | Horta B.L., et al.1997 | Low birthweight, preterm births and intrauterine growth retardation in relation to maternal smoking | Paediatric and Perinatal Epidemiology | 262 |
| **47** | Meyer M.B., et al.1976 | Perinatal events associated with maternal smoking during pregnancy | American Journal of Epidemiology | 262 |
| **48** | Tong V.T., et al.2009 | Trends in smoking before, during, and after pregnancy - Pregnancy risk assessment monitoring system (PRAMS), United States, 31 sites, 2000-2005 | Morbidity and Mortality Weekly Report | 261 |
| **49** | Weitzman M., et al.1992 | Maternal smoking and behavior problems of children | Pediatrics | 261 |
| **50** | Hofhuis W., et al.2003 | Adverse health effects of prenatal and postnatal tobacco smoke exposure on children | Archives of Disease in Childhood | 260 |
| **51** | Harlap S., Davies A.M.1974 | Infant admissions to hospital and maternal smoking | The Lancet | 259 |
| **52** | Rodriguez A., Bohlin G.2005 | Are maternal smoking and stress during pregnancy related to ADHD symptoms in children? | Journal of Child Psychology and Psychiatry and Allied Disciplines | 258 |
| **53** | Buka SL, et al.2003 | Elevated risk of tobacco dependence among offspring of mothers who smoked during pregnancy: A 30-year prospective study | American Journal of Psychiatry | 253 |
| **54** | Kleinman J.C., et al.1988 | The effects of maternal smoking on fetal and infant mortality | American Journal of Epidemiology | 251 |
| **55** | Salihu H.M., Wilson R.E.2007 | Epidemiology of prenatal smoking and perinatal outcomes | Early Human Development | 249 |
| **56** | Windham G.C., et al.2000 | Prenatal active or passive tobacco smoke exposure and the risk of preterm delivery or low birth weight | Epidemiology | 244 |
| **57** | Tager I.B., et al.1995 | Maternal smoking during pregnancy: Effects on lung function during the first 18 months of life | American Journal of Respiratory and Critical Care Medicine | 244 |
| **58** | Abel E.L.1980 | Smoking during pregnancy: a review of effects on growth and development of offspring | Human Biology | 243 |
| **59** | Richmond R.C., et al.2015 | Prenatal exposure to maternal smoking and offspring DNA methylation across the lifecourse: Findings from the Avon Longitudinal Study of Parents and Children (ALSPAC) | Human Molecular Genetics | 240 |
| **60** | Jauniaux E., Burton G.J.2007 | Morphological and biological effects of maternal exposure to tobacco smoke on the feto-placental unit | Early Human Development | 240 |
| **61** | Kjellberg L., et al.2000 | Smoking, diet, pregnancy and oral contraceptive use as risk factors for cervical intra-epithelial neoplasia in relation to human papillomavirus infection | British Journal of Cancer | 240 |
| **62** | Colman G.J., Joyce T.2003 | Trends in smoking before, during, and after pregnancy in ten states | American Journal of Preventive Medicine | 239 |
| **63** | Jaddoe V.W.V., et al.2008 | Active and passive maternal smoking during pregnancy and the risks of low birthweight and preterm birth: The generation R study | Paediatric and Perinatal Epidemiology | 238 |
| **64** | Tong V.T., et al.2013 | Trends in smoking before, during, and after pregnancy--Pregnancy Risk Assessment Monitoring System, United States, 40 sites, 2000-2010 | Morbidity and mortality weekly report. Surveillance summaries (Washington, DC: 2002) | 232 |
| **65** | Shiverick K.T., Salafia C.1999 | Cigarette smoking and pregnancy. I: Ovarian, uterine and placental effects | Placenta | 231 |
| **66** | Kahn R.S., et al.2003 | Role of dopamine transporter genotype and maternal prenatal smoking in childhood hyperactive-impulsive, inattentive, and oppositional behaviors | Journal of Pediatrics | 227 |
| **67** | Kandel D.B., et al.1994 | Maternal smoking during pregnancy and smoking by adolescent daughters | American Journal of Public Health | 227 |
| **68** | Elsenbruch S., et al.2007 | Social support during pregnancy: Effects on maternal depressive symptoms, smoking and pregnancy outcome | Human Reproduction | 226 |
| **69** | Jaakkola J.J.K., Gissler M.2004 | Maternal Smoking in Pregnancy, Fetal Development, and Childhood Asthma | American Journal of Public Health | 226 |
| **70** | Law KL, et al.2003 | Smoking during pregnancy and newborn neurobehavior | Pediatrics | 225 |
| **71** | Meyer M.B., Tonascia J.A.1977 | Maternal smoking, pregnancy complications, and perinatal mortality | American Journal of Obstetrics and Gynecology | 223 |
| **72** | Klebanoff M.A., et al.1998 | Serum cotinine concentration and self-reported smoking during pregnancy | American Journal of Epidemiology | 219 |
| **73** | Brennan P.A., et al.1999 | Maternal smoking during pregnancy and adult male criminal outcomes | Archives of General Psychiatry | 215 |
| **74** | Yerushalmy J.1971 | The relationship of parents' cigarette smoking to outcome of pregnancy-implications as to the problem of inferring causation from observed associations | American Journal of Epidemiology | 215 |
| **75** | Thapar A., et al.2009 | Prenatal smoking might not cause attention-deficit/hyperactivity disorder: Evidence from a novel design | Biological Psychiatry | 212 |
| **76** | D'Onofrio B.M., et al.2008 | Smoking during pregnancy and offspring externalizing problems: An exploration of genetic and environmental confounds | Development and Psychopathology | 211 |
| **77** | Maughan B., et al.2004 | Prenatal smoking and early childhood conduct problems: Testing genetic and environmental explanations of the association | Archives of General Psychiatry | 209 |
| **78** | Suter M., et al.2011 | Maternal tobacco use modestly alters correlated epigenome-wide placental DNA methylation and gene expression | Epigenetics | 208 |
| **79** | Boy E., et al.2002 | Birth weight and exposure to kitchen wood smoke during pregnancy in rural Guatemala | Environmental Health Perspectives | 207 |
| **80** | Dezateux C., et al.1999 | Impaired airway function and wheezing in infancy: The influence of maternal smoking and a genetic predisposition to asthma | American Journal of Respiratory and Critical Care Medicine | 207 |
| **81** | Jensenl T.K., et al.2004 | Association of In Utero Exposure to Maternal Smoking with Reduced Semen Quality and Testis Size in Adulthood: A Cross-Sectional Study of 1,770 Young Men from the General Population in Five European Countries | American Journal of Epidemiology | 206 |
| **82** | Nordentoft M., et al.1996 | Intrauterine growth retardation and premature delivery: The influence of maternal smoking and psychosocial factors | American Journal of Public Health | 205 |
| **83** | Floyd R.L., et al.1993 | A review of smoking in pregnancy: Effects on pregnancy outcomes and cessation efforts | Annual Review of Public Health | 205 |
| **84** | Been J.V., et al.2014 | Effect of smoke-free legislation on perinatal and child health: A systematic review and meta-analysis | The Lancet | 204 |
| **85** | Magnusson C.G.M.1986 | Maternal smoking influences cord serum IgE and IgD levels and increases the risk for subsequent infant allergy | The Journal of Allergy and Clinical Immunology | 203 |
| **86** | Naeye R.L., Peters E.C.1984 | Mental development of children whose mothers smoked during pregnancy | Obstetrics and Gynecology | 203 |
| **87** | Herrmann M., et al.2008 | Prenatal tobacco smoke and postnatal secondhand smoke exposure and child neurodevelopment | Current Opinion in Pediatrics | 202 |
| **88** | Godfrey K., et al.2001 | Neonatal bone mass: Influence of parental birthweight, maternal smoking, body composition, and activity during pregnancy | Journal of Bone and Mineral Research | 198 |
| **89** | Lange S., et al.2018 | National, regional, and global prevalence of smoking during pregnancy in the general population: a systematic review and meta-analysis | The Lancet Global Health | 197 |
| **90** | Oken E., et al.2005 | Associations of maternal prenatal smoking with child adiposity and blood pressure | Obesity Research | 196 |
| **91** | Ananth CV, et al.1996 | Maternal cigarette smoking as a risk factor for placental abruption, placenta previa, and uterine bleeding in pregnancy | American Journal of Epidemiology | 195 |
| **92** | Ebrahim S.H., et al.2000 | Trends in pregnancy-related smoking rates in the United States, 1987- 1996 | Journal of the American Medical Association | 192 |
| **93** | Cunningham J., et al.1994 | Maternal smoking during pregnancy as a predictor of lung function in children | American Journal of Epidemiology | 192 |
| **94** | Taylor B., Wadsworth J.1987 | Maternal smoking during pregnancy and lower respiratory tract illness in early life | Archives of Disease in Childhood | 192 |
| **95** | Neuman R.J., et al.2007 | Prenatal Smoking Exposure and Dopaminergic Genotypes Interact to Cause a Severe ADHD Subtype | Biological Psychiatry | 190 |
| **96** | Lieberman E., et al.1994 | Low birthweight at term and the timing of fetal exposure to maternal smoking | American Journal of Public Health | 190 |
| **97** | McCowan L.M.E., et al.2009 | Spontaneous preterm birth and small for gestational age infants in women who stop smoking early in pregnancy: Prospective cohort study | BMJ (Online) | 189 |
| **98** | Honein M.A., et al.2007 | Maternal smoking and environmental tobacco smoke exposure and the risk of orofacial clefts | Epidemiology | 189 |
| **99** | Romitti P., et al.1999 | Candidate genes for nonsyndromic cleft lip and palate and maternal cigarette smoking and alcohol consumption: Evaluation of genotype-environment interactions from a population-based case-control study of orofacial clefts | Teratology | 189 |
| **100** | Chassin L., et al.1998 | Maternal socialization of adolescent smoking: the intergenerational transmission of parenting and smoking. | Developmental psychology | 189 |

TNC: Total Number of Citations

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| **Table S2. Top 10 most productive journals** | | | | |
| **Most productive journal (*n*=58)** | **h\_index** | **TNC** | **TNP** | **IF (2021)** |
| *American Journal of Epidemiology* | 8 | 1 851 | 8 | 5.363 |
| *American Journal of Public Health* | 6 | 1 495 | 6 | 11.561 |
| *American Journal of Respiratory and Critical care Medicine* | 6 | 1 912 | 6 | 30.528 |
| *Pediatrics* | 6 | 2 219 | 6 | 9.703 |
| *Archives of General Psychiatry* | 4 | 1 000 | 4 | 14.48 |
| *American Journal of Preventive Medicine* | 3 | 836 | 3 | 6.604 |
| *American Journal of Psychiatry* | 3 | 883 | 3 | 19.242 |
| *American Journal of Obstetrics and Gynecology* | 2 | 544 | 2 | 10.693 |
| *Archives of Disease in Childhood* | 2 | 452 | 2 | 4.92 |
| *Biological Psychiatry* | 2 | 402 | 2 | 12.81 |
| Source: Journal Citation Reports 2021. TNC = total number of citations; TNP = total number of publications; IF = impact factor. | | | | |

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| **Table S3. Top 10 most active authors with ≥3 articles on maternal smoking during pregnancy** | | | |
| **Author (*n*=493)** | **h\_index** | **TNC** | **TNP** |
| Gilliland FD | 5 | 1 779 | 5 |
| Speizer FE | 4 | 1 232 | 4 |
| Tager IB | 4 | 1 284 | 4 |
| Weiss ST | 4 | 1 302 | 4 |
| Weitzman M | 4 | 1 449 | 4 |
| Chamberlain C | 3 | 1 052 | 3 |
| Dietz PM | 3 | 755 | 3 |
| Gillman MW | 3 | 1 110 | 3 |
| Li YF | 3 | 1 023 | 3 |
| Lumley J | 3 | 1 084 | 3 |
| TNC = total number of citations; TNP = total number of publications. | | | |

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| **Table S4.** **Country of** m**ost corresponding authors who published ≥2 articles on maternal smoking during pregnancy** | | | | | | | |
| **Country** | **Corresponding author’s country** | | | | | **Most-cited countries** | |
| **Articles** | **SCP** | **MCP** | **Frequency** | **MCP\_Ratio** | **TNC** | **AAC** |
| USA | 58 | 52 | 6 | 0.580 | 0.103 | 16 698 | 287.90 |
| UK | 13 | 12 | 1 | 0.130 | 0.077 | 3 753 | 288.69 |
| Netherlands | 4 | 3 | 1 | 0.040 | 0.250 | 1 063 | 265.75 |
| Sweden | 4 | 4 | 0 | 0.040 | 0.000 | 1 513 | 378.25 |
| Australia | 3 | 1 | 2 | 0.030 | 0.667 | 1 152 | 384.00 |
| Denmark | 3 | 1 | 2 | 0.030 | 0.667 | 620 | 206.67 |
| Canada | 2 | 0 | 2 | 0.020 | 1.000 | 404 | 202.00 |
| Germany | 2 | 0 | 2 | 0.020 | 1.000 | 537 | 268.50 |
| New Zealand | 2 | 1 | 1 | 0.020 | 0.500 | 495 | 247.50 |
| SCP = single-country publication (intra-country collaboration); MCP = multiple-country publication (inter-country collaboration); TNC = total number of citations, AAC = average article citations. | | | | | | | |

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| **Table S5. The top frequency keywords analysis** | | | | | |
| **Keywords plus (*n*=889)** | | **Title words (*n*=316)** | | **Abstract (*n*=2 587)** | |
| **Word** | **Occurrence** | **Word** | **Occurrence** | **Word** | **Occurrence** |
| Pregnancy | 141 | Smoking | 89 | Smoking | 538 |
| Female | 130 | Maternal | 61 | Pregnancy | 311 |
| Smoking | 111 | Pregnancy | 61 | Maternal | 237 |
| Human | 110 | Prenatal | 15 | Ci | 138 |
| Infant | 95 | Exposure | 14 | Women | 135 |
| Adult | 75 | Tobacco | 14 | Exposure | 129 |
| Article | 69 | Effects | 13 | Risk | 126 |
| Child | 69 | Smoke | 13 | Birth | 111 |
| Newborn | 66 | Birth | 11 | Children | 101 |
| Male | 65 | Children | 10 | Studies | 96 |
| Keywords plus = words or phrases that frequently appear in the titles of an article’s references. | | | | | |