

## TIDES Study Publications

1. Barrett ES, Sathyanarayana S, Janssen S, et al. Environmental health attitudes and behaviors: Findings from a large pregnancy cohort study. *Eur J Obstet Gynecol Reprod Biol.* 2014;176:119-125. PMID: 24647207. PMCID: [PMC4001243](#)
2. Serrano SE, Karr CJ, Seixas NS, et al. Dietary phthalate exposure in pregnant women and the impact of consumer practices. *Int J Environ Res Public Health.* 2014;11(6):6193-6215. PMID: 2492703. PMCID: [PMC4078574](#)
3. Swan SH, Sathyanarayana S, Grady R, Redmon B, Ivicsek K, Barrett E, Janssen S. First trimester phthalate exposure and anogenital distance in newborns. *Hum Reprod.* 2015 Apr;30(4):963-72. PMID: 25697839. PMCID: [PMC4359397](#)
4. Sathyanarayana S, Grady R, Redmon JB, Ivicsek K, Barrett E, Janssen S, Nguyen R, Swan SH, TIDES Study Team. Anogenital distance and penile width measurements in The Infant Development and the Environment Study (TIDES): methods and predictors. *J Pediatr Urol.* 2015 Apr; 11(2):76.e1-6. PMID: 25824881. PMCID: [PMC4456209](#)
5. Adibi JJ, Lee MK, Naimi AI, Barrett E, Nguyen R, Sathyanarayana S, Janssen S, Thiet MP, Baskin L, Redmon JB, Swan SH. Human chorionic gonadotropin partially mediates phthalate association with male and female anogenital distance. *J Clin Endocrinol Metab.* 2015 Sep;100(9):e1216-24. PMID: 26200238. PMCID: [PMC4570159](#)
6. Alur S, Hongyue W, Hoeger K, Swan SH, Sathyanarayana S, Barrett ES. Urinary phthalate metabolite concentrations in relation to history of infertility and use of assisted reproductive technology. *Fertil Steril.* 2015 Nov;104(5):1227-35. PMID: 26275821. PMCID: [PMC4630141](#)
7. Barrett E, Sathyanarayana S, Redmon B, Brantley E, Fiore H, Janssen S, Nguyen R, Kobrosly R, Swan SH, and the TIDES Study Team. Prenatal stress as a modifier of associations between phthalate exposure and reproductive development: results from a multicenter pregnancy cohort study. *Paediatr Perinat Epidemiol.* 2016 Mar;30(2): 105-14. PMID: 26576028. PMCID: [PMC4749428](#)
8. Martino-Andrade AJ, Liu F, Sathyanarayana S, Barrett ES, Redmon JB, Nguyen RH, Levine H, Swan SH; TIDES Study Team. Timing of prenatal phthalate exposure in relation to genital endpoints in male newborns. *Andrology.* 2016 Jul;4(4):585-93. PMID: 27062102. PMCID: In Process
9. Nelson JW, Edhlund BL, Johnson J, Rosebush CE, Holmquist ZS, Swan SH, Nguyen RH. Assessing a New Method for Measuring Fetal Exposure to Mercury: Newborn Bloodspots. *Int J Environ Res Public Health.* 2016;13(7). PMID: 27409626. PMCID: [PMC4962233](#)
10. Sathyanarayana S, Barrett E, Nguyen R, Redmon B, Haaland W, Swan SH. First trimester phthalate exposure and infant birth weight in the Infant Development and Environment Study. *Int J Environ Res Public Health.* 2016 Sep 23;13(10). PMID: 27669283. PMCID: [PMC5086684](#)
11. Sathyanarayana S, Grady R, Barrett E, Redmon B, Nguyen R, Bush N, Swan SH, and the TIDES Study Team. First trimester phthalate exposure and newborn male genital anomalies. *Environ Res.* 2016 Nov; 151:777-82. PMID: 27567446. PMCID: In Process.
12. Sathyanarayana S, Butts S, Wang C, Barrett E, Nguyen R, Schwartz SM, Haaland W, Swan SH. Early Prenatal Phthalate Exposure, Sex Steroid Hormones, and Birth Outcomes. *J Clin Endocrinol Metab.* 2017 Jun 1; 102(6):1870-1878. PMID: 28324030. PMCID: [PMC5470772](#)

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13. Barrett ES, Sathyanarayana S, Bowe O, Thurston SW, Redmon JB, Nguyen RHN, Swan SH. First-Trimester Urinary Bisphenol A Concentration in Relation to Anogenital Distance, an Androgen-Sensitive Measure of Reproductive Development, in Infant Girls. *Environ Health Perspect*. 2017 Jul 11; 125(7):077008. PMID: 28728138. PMCID: [PMC5744699](#)
14. Barrett E, Sathyanarayana S, Redmon B, Brantley E, Fiore H, Janssen S, Nguyen R, Kobrosly R, Swan SH, and the TIDES Study Team. Anogenital distance in newborn daughters of women with polycystic ovary syndrome indicates fetal testosterone exposure. *Dev Orig Health Dis*. 2018 Jun;9(3):307-314. PMID: 29310733. PMCID: [PMC5997496](#)
15. Eick SM, Barrett ES, van 't Erve TJ, et al. Association between prenatal psychological stress and oxidative stress during pregnancy. *Paediatr Perinat Epidemiol*. 2018;32(4):318-326. PMID: 33028249. PMCID: [PMC6103836](#)
16. Luthra G, Vuckovic I, Bangdiwala A, et al. First and second trimester urinary metabolic profiles and fetal growth restriction: an exploratory nested case-control study within the infant development and environment study. *BMC Pregnancy Childbirth*. 2018;18(1):48. PMID: 29422013. PMCID: [PMC5806311](#)
17. Bornehag CG, Lindh C, Reichenberg A, Wikström S, Hallerback MU, Evans SF, Sathyanarayana S, Barrett ES, Nguyen RHN, Bush NR, Swan SH. Association of prenatal phthalate exposure with language development in early childhood. *JAMA Pediatr*. 2018 Dec 1;172(12):1169-1176. PMID: 30383084. PMCID: [PMC6583016](#)
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19. Shaffer RM, Ferguson KK, Sheppard L, James-Todd T, Butts S, Chandrasekaran S, Swan SH, Barrett ES, Nguyen R, Bush N, McElrath TF, Sathyanarayana S, TIDES Study Team. Maternal urinary phthalate metabolites in relation to gestational diabetes and glucose intolerance during pregnancy. *Environ Int*. 2019 Feb:588-596. PMID: 30622083. PMCID: [PMC6347428](#)
20. van 't Erve TJ; Rosen EM, Barrett ES, Nguyen RHN, Sathyanarayana S, Milne GL, Calafat AM, Swan SH, Ferguson KK. Phthalates and phthalate alternatives have diverse associations with oxidative stress and inflammation in pregnant women. *Environ Sci Technol*. 2019 Mar 19;53(6): 3258-3267. PMID: 30793895. PMCID: [PMC6487641](#)
21. Barrett ES, Mbowe O, Thurston SW, Butts S, Wang C, Nguyen R, Bush N, Redmon JB, Sheshu S, Swan SH, Sathyanarayana S. Predictors of steroid hormone concentrations in early pregnancy: results from a multi-center cohort. *Matern Child Health J*. 2019 Mar;23(2):397-407. PMID: 30659461. PMCID: [PMC6397082](#)
22. Ferguson KK, Rosen EM, Barrett ES, Nguyen RHN, Bush N, McElrath TF, Swan SH, Sathyanarayana S. Joint impact of phthalate exposure and stressful life events in pregnancy on preterm birth. *Environ Int*. 2019 Dec;133(Pt B): 105254. PMID: 31675562. PMCID: [PMC6924167](#)
23. Day DB, Collett BR, Barrett ES, Bush NR, Swan SH, Wang C, Sathyanarayana S, TIDES Study Team. Prenatal sex hormones and behavioral outcomes in children. *Psychoneuroendocrinology*. 2020 Mar;113:104547. doi: 10.1016/j.psyneuen.2019.104547. PMID: 31901731. PMCID: [PMC7759302](#)

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25. Bedell SM, Lyden GR, Sathyanarayana S, Barrett ES, Ferguson KK, Santilli A, Bush NR, Swan SH, McElrath TF, Nguyen RHN. First- and Third-Trimester Urinary Phthalate Metabolites in the Development of Hypertensive Diseases of Pregnancy. *Int J Environ Res Public Health*. 2021;18(20):10627. doi:10.3390/ijerph182010627. PMCID: [PMC8536149](#)
26. Evans SF, Raymond S, Sethuram S, Barrett ES, Bush NR, Nguyen R, Sathyanarayana S, Swan SH. Associations between prenatal phthalate exposure and sex-typed play behavior in preschool age boys and girls. *Environ Res*. 2021 Jan;192:110264. doi: 10.1016/j.envres.2020.110264. PMID: 32997969. PMCID: In Process.
27. Day DB, Collett BR, Barrett ES, Bush NR, Swan SH, Nguyen RHN, Szpiro AA, Sathyanarayana S. Phthalate mixtures in pregnancy, autistic traits, and adverse childhood behavioral outcomes. *Environ Int*. 2021 Feb;147:106330. doi: 10.1016/j.envint.2020.106330. PMID: 33418196. PMCID: [PMC9291724](#).
28. Lesseur C, Pirrotte P, Pathak KV, Manservisi F, Mandrioli D, Belpoggi F, Panzacchi S, Li Q, Barrett ES, Nguyen RHN, Sathyanarayana S, Swan SH, Chen J. Maternal urinary levels of glyphosate during pregnancy and anogenital distance in newborns in a US multicenter pregnancy cohort. *Environ Pollut*. 2021 Jul 1;280:117002. doi: 10.1016/j.envpol.2021.117002. PMID: 33812205. PMCID: [PMC8165010](#).
29. Lyden GR, Vock DM, Barrett ES, Sathyanarayana S, Swan SH, Nguyen RHN. A permutation-based approach to inference for weighted sum regression with correlated chemical mixtures. *Stat Methods in Med Res*. 2022 Apr;31(4):579-593. doi: 10.1177/09622802211013578. PMID: 35128995. PMCID: In Process.
30. Nguyen RHN, Knapp EA, Li X, Camargo CA, Conradt E, Cowell W, Derefinko KJ, Elliott AJ, Friedman AM, Khurana Hershey GK, Hofheimer JA, Lester BM, McEvoy CT, Neiderhiser JM, Oken E, Ondersma SJ, Sathyanarayana S, Stabler ME, Stroustrup A, Tung I, McGrath M. Characteristics of Individuals in the United States Who Used Opioids During Pregnancy. *J Womens Health (Larchmt)*. 2022 Nov 9. doi: 10.1089/jwh.2022.0118. Epub ahead of print. PMID: 36350685. PMCID: In Process