

Appendix E. Research

2020 (n=15)

Benjamin RH, Ethen MK, Canfield MA, Mitchell LE. Change in prepregnancy body mass index and gastroschisis. *Ann Epidemiol.* 2020; 41:21-27.

Heinke D, Rich-Edwards JW, Williams PL, Hernandez-Diaz S, Anderka M, Fisher SC, Desrosiers TA, Shaw GM, Romitti PA., Canfield MA, Yazdy MM, & National Birth Defects Prevention Study. Quantification of selection bias in studies of risk factors for birth defects among livebirths. *Paed Perinat Epidemiol* 2020; 10.1111/ppe.12650. Advance online publication.

Hoyt AT, Ramadhani T, Le MT, Shumate CJ, Canfield MA, Scheuerle AE, National Birth Defects Prevention Study (2020). Acculturation and selected birth defects among non-Hispanic Blacks in a population-based case-control study. *Birth Defects Res.* 2020; 112:535–554.

Justice CM, Cuellar A, Bala K, Sabourin JA, Cunningham ML, Crawford K, Phipps JM, Zhou Y, Cilliers D, Byren JC, Johnson D, Wall SA, Morton J, Noons P, Sweeney E, Weber A, Rees K, Wilson LC, Simeonov E, Kaneva R, ... National Birth Defects Prevention Study. A genome-wide association study implicates the BMP7 locus as a risk factor for nonsyndromic metopic craniosynostosis. *Hum Genet.* 2020; 139:1077–1090.

Langlois PH, Canfield MA, Rutenberg GW, Mandell DJ, Hua F, Reilly B, Ruktanonchai DJ, Jackson JF, Hunt P, Freedenberg D, Lee R, Villanacci JF. The association between newborn screening analytes as measured on a second screen and childhood autism in a Texas Medicaid population. *Am J Med Gen B Neuropsych Gen.* 2020; 10.1002/ajmg.b.32804. Advance online publication.

Lei Y, Ludorf KL, Yu X, Benjamin RH, Gu X, Lin Y, Finnell RH, Mitchell LE, Musfee FI, Malik S, Canfield MA, Morrison AC, Hobbs CA, Van Zutphen AR, Fisher S, Agopian AJ, National Birth Defects Prevention Study. Maternal hypertension-related genotypes and congenital heart defects. *Am J Hypertension.* 2020, hpaa116. Advance online publication

Luke B, Brown MT, Ethen MK, Canfield MA, Watkins S, Wantman E, Doody K. Third Grade academic achievement among children conceived with the use of in-vitro fertilization: A population-based study in Texas. *Fertility and Sterility*. 2020; 113 (6): 1242-1250.

Marcotte EL, Schraw JM, Desrosiers TA, Nembhard WN, Langlois PH, Canfield MA, Meyer RE, Plon SE, Lupo P. Male sex and the risk of childhood cancer: the mediating effects of birth defects. *JNCI Cancer Spectr*. 2020, 4:pkaa052.

Hoyt AT, Ramadhani T, Le MT, Shumate CJ, Canfield MA, Scheuerle AE; National Birth Defects Prevention Study. Acculturation and selected birth defects among non-Hispanic Blacks in a population-based case-control study. *Birth Defects Res*. 2020; 112:535–554.

Reefhuis J, FitzHarris LF, Gray KM, Nesheim S, Tinker SC, Isenburg J, Laffoon BT, Lowry J, Poschman K, Cragan JD, Stephens FK, Fornoff JE, Ward CA, Tran T, Hoover AE, Nestoridi E, Kersanske L, Piccardi M, Boyer M, Knapp MM, Ibrahim AR, Browne ML, Anderson BJ, Shah D, Forestieri NE, Maxwell J, Hauser KW, Obiri GU, Blumenfeld R, Higgins D, Espinet CP, López B, Zielke K, Jackson LP, Shumate C, Russell K, Lampe MA, Neural tube defects in pregnancies among women with diagnosed HIV infection - 15 jurisdictions 2013-2017. *Morbidity and Mortality Weekly Report MMWR*. 2020; 69:1-5.

Santiago-Colón A, Rocheleau CM, Chen IC, Sanderson W, Waters MA, Lawson CC, Langlois PH, Cragan JD., Reefhuis J, & National Birth Defects Prevention Study. Association between maternal occupational exposure to polycyclic aromatic hydrocarbons and rare birth defects of the face and central nervous system. *Birth Defects Res*. 2020; 112:404–417. <https://doi.org/10.1002/bdr2.1643>

Schraw JM, Woodhouse JP, Langlois PH, Canfield MA, Scheuerle AE, Agopian AJ, Benjamin RH, Lupo PJ Risk factors and time trends for isolated craniosynostosis. *Birth Defects Res*. 2020; 10.1002/bdr2.1824. Online ahead of print.

Schraw JM, Desrosiers TA, Nembhard WN, Langlois PH, Meyer RE, Canfield MA, Rasmussen SA, Chambers TM, Spector LG, Plon SE, & Lupo PJ. Cancer diagnostic profile in children with structural birth defects: An assessment in 15,000 childhood cancer cases. *Cancer*.2020; 126:3483–3492.

Smoots AN, Olson SM, Cragan J, Delaney A, Roth NM, Godfred-Cato S, Jones AM, Nahabedian JF, Fornoff J, Sandige T, Yazdy MM, Higgins C, Olney RS, Eckert V, Forkner A, Fox DJ, Stolz A, Crawford K, Cho SJ, Knapp M, Ahmed MF, Lake-Burger H, Elmore AL, Langlois P, Breidenbach R, Nance A, Denson L, Caton L, Forestieri N, Bergman K, Humphries BK, Leedom VO, Tran T, Johnston J; Valencia-Prado M, Pérez-González S, Romitti PA, Fall C, Bryan JM, Barton J, Arias W, St. John, K, Mann S, Kimura J, Orantes L, Martin B, de Wilde L²³; Ellis EM, Song Z, Akosa A, Goodroe C, Ellington SR, Tong VT, Gilboa SM, Moore CA, Honein MA. Population-based surveillance for birth defects potentially related to Zika virus infection — 22 states and territories, January 2016–June 2017. *Morbidity and Mortality Weekly Report MMWR*. 2020; 69:67–71.

Suhl J, Conway KM, Rhoads A, Langlois PH, Feldkamp ML, Michalski A, Romitti PA, & National Birth Defects Prevention Study. Pre-pregnancy dietary arsenic consumption among women in the United States. *Birth Defects Res*. 2020; 112:270–277.

2019 (n=33)

Alman BL, Stingone JA., Yazdy M, Botto LD, Desrosiers TA, Pruitt S, Herring AH, Langlois PH, Nembhard WN, Shaw GM, Olshan AF, Luben TJ, & National Birth Defects Prevention Study. Associations between PM2.5 and risk of preterm birth among liveborn infants. *Ann Epidemiol*. 2019; 39:46–53.e2.

Bakker MK, Kancherla V, Canfield MA, Bermejo-Sanchez E, Cragan JD⁵, Dastgiri S, De Walle HEK, Feldkamp ML, Groisman B, Gatt M, Hurtado-Villa P, Kallen K, Landau D, Lelong N, Lopez Camelo JS, Martínez L, Morgan M, Mutchinick OM, Nembhard WN, Pierini A, Rissmann A, Sipek A, Szabova E, Tagliabue G, Wertenlecker W, Zarante I, Mastroiacovo P. Analysis of mortality among neonates and children with spina bifida: An international registry-based study, 2001-2012. *Paediatr Perinat Epidemiol*. 2019; 33(6):436-448.

Benjamin RH, Ethen MK, Canfield MA, Hua F, Mitchell LE. Association of interpregnancy change in body mass index and spina bifida. *Birth Defects Res.* 2019; 111:1389-1398.

Benjamin RH, Littlejohn S, Canfield MA, Ethen MK, Hua F, Mitchell LE. Interpregnancy change in body mass index and infant outcomes in Texas: a population-based study. *BMC Pregnancy Childbirth.* 2019; 19(1):119.

Benjamin RJ, Lopez A, Mitchell LE, Tsao K, Johnson A, Langlois PH, Swartz MD, Agopian AJ. Mortality by mode of delivery among infants with spina bifida in Texas. *Birth Defects Res.* 2019; 111:1543-1550.

Benjamin RH, Mitchell LE, Canfield MA, Hoyt AT, Lai D, Ramadhani TA, Carmichael SL, Case AP, Waller DK, National Birth Defects Prevention Study. Fish consumption prior to pregnancy and pregnancy outcomes in the National Birth Defects Prevention Study, 1997-2011. *Public Health Nutr.* 2019; 22:336-343.

Benjamin RH, Yu X, Navarro Sanchez ML, Chen H, Mitchell LE, Langlois PH, Canfield MA, Swartz MD, Scheuerle AE, Scott DA, Northrup H, Schaaf CP, Ray JW, McLean SD, Lupo PJ, Agopian AJ. Co-occurring defect analysis: A platform for analyzing birth defect co-occurrence in registries. *Birth Defects Res.* 2019; 111:1356-1364.

Canfield MA, Langlois PH, Rutenberg GW, Mandell DJ, Hua F, Reilly B, Ruktanonchai DJ, Jackson JF, Hunt P, Freedenberg D, Lee R, Villanacci JF. The association between newborn screening analytes and childhood autism in a Texas Medicaid population, 2010-2012. *Am J Med Genet B Neuropsychiatr Genet.* 2019; 180:291-304.

Choi G, Stingone JA, Desrosiers TA, Olshan AF., Nembhard WN, Shaw GM, Pruitt S, Romitti PA, Yazdy MM, Browne ML, Langlois PH, Botto L, Luben TJ, & National Birth Defects Prevention Study. Maternal exposure to outdoor air pollution and congenital limb deficiencies in the National Birth Defects Prevention Study. *Environ Res.* 2019; 179(Pt A):108716.

Goel N, Morris JK, Tucker D, de Walle HEK, Bakker MK, Kancherla V, Marengo L, Canfield MA, Kallen K, Lelong N, Camelo JL, Stallings EB, Jones AM, Nance A, Huynh MP, Martínez-Fernández ML, Sipek A, Pierini A, Nembhard WN, Goetz D, Rissmann A, Groisman B, Luna-Muñoz L, Szabova E, Lapchenko S, Zarante I, Hurtado-Villa P, Martinez LE, Tagliabue G, Landau D, Gatt M, Dastgiri S, Morgan M. Trisomy 13 and 18-Prevalence and mortality-A multi-registry population based analysis. *Am J Med Genet A.* 2019; 179:2382-2392.

Guptha S, Shumate C, Scheuerle AE. Likelihood of meeting defined VATER/VACTERL phenotype in infants with esophageal atresia with or without tracheoesophageal fistula. *Am J Med Genet A*. 2019; doi: 10.1002/ajmg.a.61337. [Epub ahead of print]

Hoang TT, Lei Y, Mitchell LE, Sharma SV, Swartz MD, Waller DK, Finnell RH, Benjamin RH, Browne ML, Canfield MA, Lupo PJ, McKenzie P, Shaw GM, Agopian AJ; National Birth Defects Prevention Study. Maternal genetic markers for risk of celiac disease and their potential association with neural tube defects in offspring. *Mol Genet Genomic Med*. 2019; doi: 10.1002/mgg3.688. [Epub ahead of print]

Hoang TT, Lei Y, Mitchell LE, Sharma SV, Swartz MD, Waller DK, Finnell RH, Benjamin RH, Browne ML, Canfield MA, Lupo PJ, McKenzie P, Shaw GM, Agopian AJ; National Birth Defects Prevention Study. Maternal Lactase Polymorphism (rs4988235) Is associated with neural tube defects in offspring in the National Birth Defects Prevention Study. *J Nutr*. 2019; 149:295-303.

Hoyt AT, Shumate CJ, Canfield MA, Le M, Ramadhani T, Scheuerle AE; National Birth Defects Prevention Study. Selected acculturation factors and birth defects in the National Birth Defects Prevention Study, 1997-2011. *Birth Defects Res*. 2019; 111:598-612.

Kapoor R, Kancherla V, Cao Y, Oleson J, Suhl J, Canfield MA, Druschel CM, Kirby RS, Meyer RE, Romitti PA. Prevalence and descriptive epidemiology of infantile hypertrophic pyloric stenosis in the United States: A multistate, population-based retrospective study, 1999-2010. *Birth Defects Res*. 2019; 111(3):159-169.

Kirby RS, Mai CT, Wingate MS, Janevic T, Copeland GE, Flood TJ, Isenburg J, Canfield MA, National Birth Defects Prevention Network. Prevalence of selected birth defects by maternal nativity status, United States, 1999-2007. *Birth Defects Res*. 2019; 111:630-639.

Le MT, Shumate CJ, Hoyt AT, Wilkinson AV, Canfield MA. The prevalence of birth defects among non-Hispanic Asian/Pacific Islanders and American Indians/Alaska Natives in Texas, 1999-2015. *Birth Defects Res*. 2019; 111:1380-1388.

Lopez A, Benjamin RH, Raut JR, Ramakrishnan A, Mitchell LE, Tsao K, Johnson A, Langlois PH, Swartz MD, Agopian AJ. Mode of delivery and mortality among neonates with gastroschisis: A population-based cohort in Texas. *Paediatr Perinat Epidemiol*. 2019; 33:204-212

Lupo PJ, Schraw JM, Desrosiers TA, Nembhard WN, Langlois PH, Canfield MA, Copeland G, Meyer RE, Brown AL, Chambers TM, Sok P, Danysh HE, Carozza SE, Sisoudiya SD, Hilsenbeck SG, Janitz AE, Oster ME, Scheuerle AE, Schiffman JD, Luo C, Mian A, Mueller BA, Huff CD, Rasmussen SA, Scheurer ME, Plon SE. Association between birth defects and cancer risk among children and adolescents in a

population-based assessment of 10 million live births. *JAMA Oncol.* 2019; 5:1150-1158.

Mai CT., Isenburg JL, Canfield MA, Meyer RE, Correa A, Alverson CJ, Lupo PJ, Riehle-Colarusso T., Cho SJ, Aggarwal D, Kirby RS, & National Birth Defects Prevention Network. National population-based estimates for major birth defects, 2010-2014. *Birth Defects Res.* 2019; 111:1420-1435.

Matas JL, Agana D, Germanos GJ, Hansen MA, Modak S, Tanner JP, Langlois PH, Salemi JL. Exploring classification of birth defects severity in national hospital discharge databases compared to an active surveillance program. *Birth Defects Res.* 2019; 111:1343-1355.

Pace ND, Siega-Riz AM, Olshan AF, Chescheir NC, Cole SR, Desrosiers TA, Tinker SC, Hoyt AT, Canfield MA, Carmichael SL, Meyer RE; National Birth Defects Prevention Study. Survival of infants with spina bifida and the role of maternal prepregnancy body mass index. *Birth Defects Res.* 2019; 111:1205-1216.

Pastuszak AW, Herati AS, Eisenberg ML, Cengiz C, Langlois PH, Kohn TP, Lamb DJ, Lipshultz LI. The risk of birth defects is not associated with semen parameters or mode of conception in offspring of men visiting a reproductive health clinic. *Hum Reprod.* 2019; 34:733-739.

Ryan MA, Olshan AF, Canfield MA, Hoyt AT, Scheuerle AE, Carmichael SL, Shaw GM, Werler MM, Fisher SC, Desrosiers TA, National Birth Defects Prevention Study. Sociodemographic, health behavioral, and clinical risk factors for anotia/microtia in a population-based case-control study. *Int J Pediatr Otorhinolaryngol.* 2019; 122:18-26.

Salemi JL, Tanner JP, Kirby RS, Cragan JD. The impact of the ICD-9-CM to ICD-10-CM transition on the prevalence of birth defects among infant hospitalizations in the United States. *Birth Defects Res.* 2019; 111:1365-1379.

Shao Y, Wang L, Langlois P, Mironov G, Chan HM. Proteome changes in methylmercury-exposed mouse primary cerebellar granule neurons and astrocytes. *Toxicol In Vitro.* 2019; 57:96-104.

Sheth KR, Kovar E, White JT, Chambers TM, Peckham-Gregory EC, O'Neill M, Langlois PH, Seth A, Scheurer ME, Lupo PJ, Jorgez CJ. Hypospadias risk is increased with maternal residential exposure to hormonally active hazardous air pollutants. *Birth Defects Res.* 2019; 111:345-352.

Shewale JB, Ganduglia Cazaban CM, Waller DK, Mitchell LE, Langlois PH, Agopian AJ. Microcephaly inpatient hospitalization and potential Zika outbreak in Texas: A cost and predicted economic burden analysis. *Travel Med Infect Dis.* 2019; 30:67-72.

Short TD, Stallings EB, Isenburg J, O'Leary LA, Yazdy MM, Bohm MK, Ethen M, Chen X, Tran T, Fox DJ, Fornoff J, Forestieri N, Ferrell E, Ramirez GM, Kim J, Shi J, Cho SJ, Duckett K, Nelson N, Zielke K, St. John K, Martin B, Clark C, Huynh P, Benusa C, Reefhuis J. Gastroschisis trends and ecologic link to opioid prescription rates —United States, 2006–2015. *MMWR Morb Mortal Wkly Rep.* 2019; 68(2):31-36.

Stallings EB, Isenburg JL, Short TD, Heinke D, Kirby RS, Romitti PA, Canfield MA, O'Leary LA, Liberman RF, Forestieri NE, Nembhard WN, Sandidge T, Nestoridi E, Salemi JL, Nance AE, Duckett K, Ramirez GM, Shan X, Shi J, Lupo PJ. Population-based birth defects data in the United States, 2012-2016: A focus on abdominal wall defects. *Birth Defects Res.* 2019; 111:1436–1447.

Waller DK, Tark JY, Agopian AJ, Shewale J, Ganduglia-Cazaban C, Hoyt AT, Scheuerle AE, Langlois PH. Temporal trends in diagnoses of congenital microcephaly, Texas hospital discharge diagnoses, 2000-2015. *Birth Defects Res.* 2019; doi: 10.1002/bdr2.1491. [Epub ahead of print]

White JT, Kovar E, Chambers TM, Sheth KR, Peckham-Gregory EC, O'Neill M, Langlois PH, Jorgez CJ, Lupo PJ, Seth A. Hypospadias risk from maternal residential exposure to heavy metal hazardous air pollutants. *Int J Environ Res Public Health.* 2019; 16(6):pii: E930.

Yu X, Nassar N, Mastroiacovo P, Canfield M, Groisman B, Bermejo-Sánchez E, Ritvanen A, Kiuru-Kuhlefelt S, Benavides A, Sipek A, Pierini A, Bianchi F, Källén K, Gatt M, Morgan M, Tucker D, Canessa MA, Gajardo R, Mutchinick OM, Szabova E, Csáky-Szunyogh M, Tagliabue G, Cragan JD, Nembhard WN, Rissmann A, Goetz D, Bower C, Baynam G, Lowry RB, Leon JA, Luo W, Rouleau J, Zarante I, Fernandez N, Amar E, Dastgiri S, Contiero P, Martínez-de-Villarreal LE, Borman B, Bergman JEH, de Walle HEK, Hobbs CA, Nance AE, Agopian AJ. Hypospadias prevalence and trends in international birth defect surveillance systems, 1980-2010. *Eur Urol.* 2019; 76:482-490.

2018 (n=17)

Anderka M, Mai CT, Judson E, Langlois P, Lupo PJ, Hauser K, Salemi JL, Correia J, Canfield M, Kirby RS, National Birth Defects Prevention Network. Status of population-based birth defects surveillance programs before and after the Zika public health response in the United States. *Birth Defects Res.* 2018; 110(19):1388-1394.

Chambers TM, Agopian AJ, Lewis RA, Langlois PH, Danysh HE, Weber KA, Shaw GM, Mitchell LE, Lupo PJ. Epidemiology of anophthalmia and microphthalmia: Prevalence and patterns in Texas, 1999-2009. *Am J Med Genet. Part A.* 2018. 176:1810-1818.

Delaney A, Mai C, Smoots A, Cragan J, Ellington S, Langlois P, Breidenbach R, Fornoff J, Dunn J, Yazdy M, Scotto-Rosato N, Sweatlock J, Fox D, Palacios J, Forestieri N, Leedom V, Smiley M, Nance A, Lake-Burger H, Romitti P, Fall C, Prado MV, Barton J, Bryan JM, Arias W, Brown SV, Kimura J, Mann S, Martin B, Orantes L, Taylor A, Nahabedian J, Akosa A, Song Z, Martin S, Ramlal R, Shapiro-Mendoza C, Isenburg J, Moore CA, Gilboa S, Honein MA. Population-based surveillance of birth defects potentially related to Zika virus infection — 15 states and U.S. territories, 2016. *MMWR Morb Mortal Wkly Rep.* 2018; 67:91-96.

Hoyt AT, Canfield MA, Langlois PH, Waller DK, Agopian AJ, Shumate CJ, Hall NB, Marengo LK, Ethen MK, Scheuerle AE. Pre-Zika descriptive epidemiology of microcephaly in Texas, 2008-2012. *Birth Defects Res.* 2018; 110(5):395-405.

Hoyt AT, Canfield MA, Romitti PA, Botto LD, Anderka MT, Krikov SV, Feldkamp ML. Does maternal exposure to secondhand tobacco smoke during pregnancy increase the risk for preterm or small-for-gestational age birth? *Matern Child Health J.* 2018; 22(10):1418-1429.

Lin S, Lin Z, Ou Y, Soim A, Shrestha S, Lu Y, Sheridan S, Luben TJ, Fitzgerald E, Bell E, Shaw GM, Reefhuis J, Langlois PH, Romitti P, Feldkamp ML, Malik S, Pantea C, Nayak S, Hwang SA, Browne M; National Birth Defects Prevention Study. Maternal ambient heat exposure during early pregnancy in summer and spring and congenital heart defects - A large US population-based, case-control study. *Environ Int.* 2018; 118:211-221.

Lopez KN, Nembhard WN, Wang Y, Liu G, Kucik JE, Copeland G, Gilboa SM, Kirby RS, Canfield M. Birth defects survival for Hispanic subgroups. *Birth Defects Res.* 2018; 110(4):352-363.

Marengo LK, Flood TJ, Ethen MK, Kirby RS, Fisher S, Copeland G, Meyer RE, Dunn J, Canfield MA, Anderson T, Yazzie D, Mai CT, for the National Birth Defects Prevention Network. Study of selected birth defects among American Indian/Alaska

Native population: a multi-state population-based retrospective study, 1999-2007. *Birth Defects Res.* 2018; 110:1412-1418.

Peterson-Burch FM, Olshansky E, Abujaradeh HA, Choi JJ, Zender R, Montgomery K, Case A, Sorkin DH, Chaves-Gnecco D, Libman I, Lucas CT, Zaldivar F, Charron-Prochownik D. Cultural understanding, experiences, barriers, and facilitators of healthcare providers when providing preconception counseling to adolescent Latinas with diabetes. *Res J Womens Health.* 2018; 5(2); doi: 10.7243/2054-9865-5-2.

Raut J, Simeone R, Tinker S, Canfield M, Day R, Agopian A. Proportion of orofacial clefts attributable to recognized risk factors. *Cleft Palate Craniofac J.* 2018; doi: 10.1177/1055665618774019. [Epub ahead of print]

Shumate C, Hoyt A, Liu C, Kleinert A, Canfield M. Understanding how the concentration of neighborhood advantage and disadvantage affects spina bifida risk among births to non-Hispanic white and Hispanic women, Texas, 1999-2014. *Birth Defects Res.* 2018; doi: 10.1002/bdr2.1374. [Epub ahead of print]

Stallings EB, Isenburg JL, Mai CT, Liberman RF, Moore CA, Canfield MA, Salemi JL, Kirby RS, Short TD, Nembhard WN, Forestieri NE, Heinke D, Alverson CJ, Romitti PA, Huynh MP, Denson LE, Judson EM, Lupo PJ; National Birth Defects Prevention Network. Population-based birth defects data in the United States, 2011-2015: A focus on eye and ear defects. *Birth Defects Res.* 2018; 110(19):1478-1486.

Suhl J, Romitti PA, Cao Y, Rocheleau CM, Burns TL, Conway K, Rajaraman P, Agopian AJ, Stewart P, National Birth Defects Prevention Study. Maternal occupational cadmium exposure and nonsyndromic orofacial clefts. *Birth Defects Res A Clin Mol Teratol.* 2018; 110(7):603-609.

Suhl, J., Romitti, P. A., Rocheleau, C., Cao, Y., Burns, T. L., Conway, K., Bell, E. M., Stewart, P., Langlois, P., & National Birth Defects Prevention Study (2018). Parental occupational pesticide exposure and nonsyndromic orofacial clefts. *J Occup Environ Hyg.* 15:641-653.

Van Horne BS, Caughy MO, Canfield M, Case AP, Greeley CS, Morgan R, Mitchell LE. First-time maltreatment in children ages 2-10 with and without specific birth defects: A population-based study. *Child Abuse Negl.* 2018; 84:53-63.

Waller DK, Hashmi SS, Hoyt AT, Duoung HT, Tinker SC, Gallaway MS, Olney RS, Finnell RH, Hecht JT, Canfield MA, National Birth Defects Prevention Study. Maternal report of fever from cold or flu during early pregnancy and the risk for non-cardiac birth defects, National Birth Defects Prevention Study, 1997-2011. *Birth Defects Res.* 2018; 110(4):342-351.

Weyer P, Rhoads A, Suhl J, Luben TJ, Conway KM, Langlois P, Shen D, Liang D, Puzhankara S, Anderka M, Bell E, Feldkamp ML, Hoyt AT, Mosley B, Reefhuis J, Romitti PA, The National Birth Defects Prevention Study. Drinking water disinfection byproducts and risk of orofacial clefts in the National Birth Defects Prevention Study. *Birth Defects Res.* 2018; 110(12):1027-1042.

2017 (n=14)

Agopian AJ, Kim J, Langlois PH, Lee L, Whitehead LW, Symanski E, Herdt ML, Delclos GL. Maternal occupational physical activity and risk for orofacial clefts. *Am J Indus Med.* 2017; 60(7): 627-634.

Carozza SE, Bae H, Meath T, Branscum A, Bovbjerg ML, Langlois PH. Evaluation of maternal health and labor and delivery conditions as risk factors for childhood leukemias in children with Down syndrome. *Cancer Epidemiol.* 2017; 46:36-41.

Hall NB, Broussard K, Evert N, Canfield M. Notes from the field: Zika virus-associated neonatal birth defects surveillance—Texas, January 2016–July 2017. *MMWR Morb Mortal Wkly Rep.* 2017; 66(31):835-836.

Hoang TT, Marengo LK, Mitchell LE, Canfield MA, Agopian AJ. Original findings and updated meta-analysis for the association between maternal diabetes and risk for congenital heart disease phenotypes. *Am J Epidemiol.* 2017; 186(1):118-128.

Kim J, Langlois PH, Mitchell LE, Agopian AJ. Maternal occupation and the risk of neural tube defects in offspring. *Arch Environ Occup Health.* 2017; 19:1-9.

Kim J, Swartz M, Langlois P, Romitti P, Weyer P, Mitchell L, Luben T, Ramakrishnan A, Malik S, Lupo P, Feldkamp M, Meyer R, Winston J, Reefhuis J, Blossom S, Bell E, Agopian A, National Birth Defects Prevention Study. Estimated maternal pesticide exposure from drinking water and heart defects in offspring. *Int J Environ Res Public Health.* 2017; 14(8):889.

Lara DA, Ethen MK, Canfield MA, Nembhard WN, Morris SA. A population-based analysis of mortality in patients with Turner syndrome and hypoplastic left heart syndrome using the Texas Birth Defects Registry. *Congenit Heart Dis.* 2017; 12(1):105-112.

Lee LJ, Symanski E, Lupo PJ, Tinker SC, Razzaghi H, Chan W, Hoyt AT, Canfield MA, National Birth Defects Prevention Study. Role of maternal occupational physical activity and psychosocial stressors on adverse birth outcomes. *Occup Environ Med.* 2017;74(3):192-199

Lupo PJ, Isenburg JL, Salemi JL, Mai CT, Liberman RF, Canfield MA, Copeland G, Haight S, Harpavat S, Hoyt AT, Moore CA, Nembhard WN, Nguyen HN, Rutkowski

RE, Steele A, Alverson CJ, Stallings EB, Kirby RS, National Birth Defects Prevention Network. Population-based birth defects data in the United States, 2010 to 2014: a focus on gastrointestinal defects. *Birth Defects Res.* 2017;109(18):1504-1514. doi: 10.1002/bdr2.1145.

Rocheleau CM, Bertke SJ, Lawson CC, Romitti PA, Desrosiers TA, Agopian AJ, Bell E, Gilboa SM, National Birth Defects Prevention Study. Factors associated with employment status before and during pregnancy: implications for studies of pregnancy outcomes. *Am J Ind Med.* 2017;60(4):329-341.

Soim A, Lin S, Sheridan SC, Hwang SA, Hsu WH, Luben TJ, Shaw GM, Feldkamp ML, Romitti PA, Reefhuis J, Langlois PH, National Birth Defects Prevention Study. Population-based case-control study of the association between weather-related extreme heat events and neural tube defects. *Birth Defects Res.* 2017;109(18):1482-1493.

St Louis AM, Kim K, Browne ML, Liu G, Liberman RF, Nembhard WN, Canfield MA, Copeland G, Fornoff J, Kirby RS, National Birth Defects Prevention Network. Prevalence trends of selected major birth defects: a multi-state population-based retrospective study, United States, 1999 to 2007. *Birth Defects Research.* 2017;109(18):1442-1450.

Stingone JA, Luben TJ, Carmichael SL, Aylsworth AS, Botto LD, Correa A, Gilboa SM, Langlois PH, Nembhard WN, Richmond-Bryant J, Shaw GM, National Birth Defects Prevention Study. Maternal exposure to nitrogen dioxide, intake of methyl nutrients, and congenital heart defects in offspring. *Am J Epidemiol.* 2017;186(6):719-729.

Zhou Y, Gilboa SM, Herdt ML, Lupo PJ, Flanders WD, Liu Y, Shin M, Canfield MA, Kirby RS. Maternal exposure to ozone and PM_{2.5} and the prevalence of orofacial clefts in four U.S. states. *Environ Res.* 2017;153:35-40.

2016 (n=17)

Agopian AJ, Hoang TT, Mitchell LE, Morrison AC, Tu D, Nassar N, Canfield MA. Maternal hypertension and risk for hypospadias in offspring. *Am J Med Genet A.* 2016; 170(12):3125-3132.

Cragan JD, Isenburg JL, Parker SE, Alverson CJ, Meyer RE, Stallings EB, Kirby RS, Lupo PJ, Liu JS, Seagroves A, Ethen MK, Cho SJ, Evans M, Liberman RF, Fornoff J, Browne ML, Rutkowski RE, Nance AE, Anderka M, Fox DJ, Steele A, Copeland G, Romitti PA, Mai CT, National Birth Defects Prevention Network. Population-based microcephaly surveillance in the United States 2009 to 2013: an analysis of

potential sources of variation. *Birth Defects Res A Clin Mol Teratol.* 2016; 106(11):972-982.

Gong X, Zhan FB, Brender JD, Langlois PH, Lin Y. Validity of the emission weighted proximity model in estimating air pollution exposure intensities in large geographic areas. *Sci Total Environ.* 2016; 563-564:478-485.

Hoyt AT, Canfield MA, Romitti PA, Botto LD, Anderka MT, Krikov SV, Tarpey MK, Feldkamp ML. Associations between maternal periconceptional exposure to secondhand tobacco smoke and major birth defects. *Am J Obstet Gynecol.* 2016; 215(5):613.e1-613.e11.

Jones AM, Isenburg J, Salemi JL, Arnold KE, Mai CT, Aggarwal D, Arias W, Carrino GE, Ferrell E, Folorunso O, Ibe E, Kirby RS, Krapfl HR, Marengo LK, Mosley BS, Nance AE, Romitti PA, Spadafino J, Stock J, Honein MA. Increasing prevalence of gastroschisis - 14 states, 1995-2012. *MMWR Morb Mortal Wkly Rep.* 2016; 65(2):23-26.

Kim J, Langlois PH, Herdt-Losavio ML, Agopian AJ. A case-control study of maternal occupation and the risk of orofacial clefts. *J Occup Environ Med.* 2016;58(8):833-839.

Langlois PH, Lee M, Lupo PJ, Rahbar MH, Cortez RK. Residential radon and birth defects: a population-based assessment. *Birth Defects Res A Clin Mol Teratol.* 2016; 106(1):5-15.

Lara DA, Fixler DE, Ethen MK, Canfield MA, Nembhard WN, Morris SA. Prenatal diagnosis, hospital characteristics, and mortality in transposition of the great arteries. *Birth Defects Res A Clin Mol Teratol.* 2016; 106(9):739-748.

Lee LJ, Symanski E, Lupo PJ, Tinker SC, Razzaghi H, Pompeii LA, Hoyt At, Canfield MA, Chan W, National Birth Defects Prevention Study. Data linkage between the national birth defects prevention study and the occupational information network (O*NET) to assess workplace physical activity, sedentary behaviors, and emotional stressors during pregnancy. *Am J Indus Med.* 2016; 59:137-149.

Lim H, Beasley CW, Whitehead LW, Langlois PH, Emery RJ, Agopian AJ, Waller DK, the National Birth Defects Prevention Study. Maternal exposure to radiographic exams and major structural birth defects. *Birth Defects Res A Clin Mol Teratol.* 2016; 106(7):563-72.

Meyer RE, Liu G, Gilboa SM, Ethen MK, Aylsworth AS, Powell CM, Flood TJ, Mai CT, Wang Y, Canfield MA, National Birth Defects Prevention Network. Survival of children with trisomy 13 and trisomy 18: a multi-state population-based study. *Am J Med Genet A.* 2016; 170A(4):825-37.

Moffitt KB, Case AP, Farag NH, Canfield MA. Hospitalization charges for children with birth defects in Texas, 2001 to 2010. *Birth Defects Res A Clin Mol Teratol*. 2016; 106(3):155-163.

O'Brien JL, Langlois PH, Lawson CC, Scheuerle A, Rocheleau CM, Waters MA, Symanski E, Romitti PA, Agopian AJ, Lupo PJ; National Birth Defects Prevention Study. Maternal occupational exposure to polycyclic aromatic hydrocarbons and craniosynostosis among offspring in the national birth defects prevention study. *Birth Defects Res A Clin Mol Teratol*. 2016; 106(1):55-60.

Simeone RM, Tinker SC, Gilboa SM, Agopian AJ, Oster ME, Devine OJ, Honein MA. Proportion of selected congenital heart defects attributable to recognized risk factors. *Ann Epidemiol*. 2016;26(12):838-845.

Vuong AM, Shinde MU, Brender JD, Shipp EM, Huber Jr. JC, Sharkey JR, McDonald TJ, Werler MM, Kelley KE, Griesenbeck JS, Langlois PH, Canfield MA, National Birth Defects Prevention Study Investigators. Prenatal exposure to nitrosatable drugs, dietary intake of nitrites, and preterm birth. *Am J Epi*. 2016;183(7):634-642.

Warren, J. L., Stingone, J. A., Herring, A. H., Luben, T. J., Fuentes, M., Aylsworth, A. S., Langlois, P. H., Botto, L. D., Correa, A., Olshan, A. F., & National Birth Defects Prevention Study. Bayesian multinomial probit modeling of daily windows of susceptibility for maternal PM2.5 exposure and congenital heart defects. *Statistics Med*. 2016. 35:2786-2801.

Winston JJ, Emch M, Meyer RE, Langlois P, Weyer P, Mosley B, Olshan AF., Band LE, Luben TJ, & National Birth Defects Prevention Study. Hypospadias and maternal exposure to atrazine via drinking water in the National Birth Defects Prevention study. *Environmental health: a global access science source*. 2016; 15(1):76.

2015 (n=23)

Anderka M, Mai CT, Romitti PA, Copeland G, Isenburg J, Feldkamp ML, Krikov S, Rickard R, Olney RS, Canfield MA, Stanton C, Mosley B, Kirby RS. Development and implementation of the first national data quality standards for population-based birth defects surveillance programs in the United States. *BMC Public Health*. 2015;15(1):925.

Arth A, Tinker S, Moore C, Canfield M, Agopian A, Reefhuis J. Supplement use and other characteristics among pregnant women with a previous pregnancy affected by

a neural tube defect - United States, 1997-2009. *MMWR Morb Mortal Wkly Rep.* 2015; 64:6-9.

Case AP, Hoyt AT, Canfield MA, Wilkinson AV. Periconceptional risk factors for birth defects among younger and older teen mothers. *J Pediatr Adolesc Gynecol.* 2015; 28:263-270.

Dawson AL, Razzaghi H, Arth A, Canfield MA, Parker SE, Reefhuis J, National Birth Defects Prevention Study. Maternal exposures in the National Birth Defects Prevention Study: time trends of selected exposures. *Birth Defects Res A Clin Mol Teratol.* 2015; 103:703-12.

Langlois PH, Scheuerle AE. Descriptive epidemiology of birth defects thought to arise by new mutation. *Birth Defects Res A Clin Mol Teratol.* 2015; 103(11):913-927.

Lim H, Agopian AJ, Whitehead LW, Beasley CW, Langlois PH, Emery RJ, Waller DK, National Birth Defects Prevention Study. Maternal occupational exposure to ionizing radiation and major structural birth defects. *Birth Defects Res A Clin Mol Teratol.* 2015;103(4):243-54 .

Lopez KN, Marengo LK, Canfield MA, Belmont JW, Dickerson HA. Racial disparities in heterotaxy syndrome. *Birth Defects Res A Clin Mol Teratol.* 2015;103(11):941-50.

Lupo PJ, Danysh HE, Symanski E, Langlois PH, Cai Y, Swartz MD. Neighborhood-based socioeconomic position and risk of oral clefts among offspring. *Am J Public Health.* 2015. 105:2518-2525.

Mai CT, Isenburg J, Langlois PH, Alverson CJ, Gilboa SM, Rickard R, Canfield MA, Anjohrin SB, Lupo PJ, Jackson DR, Stallings EB, Scheuerle AE, Kirby R, National Birth Defects Prevention Network. Population-based birth defects data in the United States, 2008-2012: presentation of state-specific data and descriptive brief on variability of prevalence. *Birth Defects Res A Clin Mol Teratol.* 2015; 103(11):972-993.

Marshall J, Salemi JL, Tanner JP, Ramakrishnan R, Feldkamp ML, Marengo LK, Meyer RE, Druschel CM, Rickard R, Kirby RS; National Birth Defects Prevention Network. Prevalence, correlates, and outcomes of omphalocele in the United States, 1995-2005. *Obstet Gynecol.* 2015; 126(2):284-293.

McNeese ML, Selwyn BJ, Duong H, Canfield M, Waller DK. The association between maternal parity and birth defects. *Birth Defects Res A Clin Mol Teratol.* 2015;103:144-156.

Michalski AM, Richardson SD, Browne ML, Carmichael SL, Canfield MA, VanZutphen AR, Anderka MT, Marshall EG, Druschel CM. Sex ratios among infants with birth defects, National Birth Defects Prevention Study, 1997-2009. *Am J Med Genet A*. 2015; 167(5):1071-1081.

Peckham EC, Scheurer ME, Danysh HE, Lubega J, Langlois PH, & Lupo PJ. Residential radon exposure and incidence of childhood lymphoma in Texas, 1995-2011. *Int J Environ Res Pub Health*. 2015; 12:12110-12126.

Reefhuis J, Gilboa SM, Anderka M, Browne ML, Feldkamp ML, Hobbs CA, Jenkins MM, Langlois PH, Newsome KB, Olshan AF, Romitti PA, Shapira SK, Shaw GM, Tinker SC, Honein MA, National Birth Defects Prevention Study. The National Birth Defects Prevention Study: a review of the methods. *Birth Defects Res A Clin Mol Teratol*. 2015;103(8):656-669.

Smith LB, Reich BJ, Herring AH, Langlois PH, Fuentes M. Multilevel quantile function modeling with application to birth outcomes. *Biometrics*. 2015;71(2):508-519.

Swartz M, Cai Y, Chan W, Symanski E, Mitchell L, Danysh H, Langlois P, Lupo P. Air toxics and birth defects: a Bayesian hierarchical approach to evaluate multiple pollutants and spina bifida. *Environ Health*. 2015;14:16.

Van Horne BS, Moffitt KB, Canfield M, Case A, Greeley CS, Morgan R, Mitchell LE. Maltreatment of children under age 2 with specific birth defects: a population-based study. *Pediatrics*. 2015;136(6):e1504-e1512.

Vinikoor-Imler LC, Stewart TG, Luben TJ, Davis JA, Langlois PH. An exploratory analysis of the relationship between ambient ozone and particulate matter concentrations during early pregnancy and selected birth defects in Texas. *Environ Pollut*. 2015;202:1-6.

Vo LT, Langlois PH. Time trends in prevalence of gastroschisis in Texas, 1999 to 2011: subgroup analyses by maternal and infant characteristics. *Birth Defects Res A Clin Mol Teratol*. 2015;103(11):928-940.

Wang Y, Liu G, Canfield MA, Mai CT, Gilboa SM, Meyer RE, Anderka M, Copeland GE, Kucik JE, Nembhard WN, Kirby RS. Racial/ethnic differences in United States children with birth defects: a population-based study. *J Pediatr*. 2015;166(4):819-26.

Williams J, Mai CT, Mulinare J, Isenburg J, Flood TJ, Ethen M, Frohnert B, Kirby RS. Updated estimates of neural tube defects prevented by mandatory folic acid fortification - United States, 1995-2011. *MMWR Morb Mortal Wkly Rep*. 2015;64:1-5.

Yazdy MM, Werler MM, Anderka M, Langlois PH, Vieira VM. Spatial analysis of gastroschisis in Massachusetts and Texas. *Ann Epidemiol*. 2015;25:7-14.

Yazdy MM, Werler MM, Feldkamp ML, Shaw GM, Mosley BS, Vieira VM, National Birth Defects Prevention Study. Spatial analysis of gastroschisis in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2015;103(6):544-553.

2014 (n=24)

Agopian AJ, Langlois PH, Ramakrishnan A, Canfield MA. Epidemiologic features of male genital malformations and subtypes in Texas. *Am J Med Genet A*. 2014;164a:943-949.

Brender JD, Shinde MU, Zhan FB, Gong X, Langlois PH. Maternal residential proximity to chlorinated solvent emissions and birth defects in offspring: a case-control study. *Environ Health*. 2014;13:96.

Canfield MA, Mai CT, Wang Y, O'Halloran A, Marengo LK, Olney RS, Borger CL, Rutkowski R, Fornoff J, Irwin N, Copeland G, Flood TJ, Meyer RE, Rickard R, Alverson C, Sweatlock J, Kirby RS, Network ft. NBDP. The association between race/ethnicity and major birth defects in the United States, 1999-2007. *Am J Public Health*. 2014;104:e14-e23.

Case AP, Royle M, Scheuerle AE, Carmichael SL, Moffitt K, Ramadhani T. Birth defects, causal attributions, and ethnicity in the National Birth Defects Prevention Study. *J Genet Couns*. 2014;23:860-873.

Fixler DE, Xu P, Nembhard WN, Ethen MK, Canfield MA. Age at referral and mortality from critical congenital heart disease. *Pediatrics*. 2014;134:e98-e105.

Hoyt AT, Browne M, Richardson S, Romitti P, Druschel C. Maternal caffeine consumption and small for gestational age births: results from a population-based case-control study. *Matern Child Health J*. 2014;18(6):1540-1551.

Hoyt AT, Canfield MA, Shaw GM, Waller DK, Polen KN, Ramadhani T, Anderka MT, Scheuerle AE. Sociodemographic and Hispanic acculturation factors and isolated anotia/microtia. *Birth Defects Res A Clin Mol Teratol*. 2014;100:825-862.

Khodr ZG, Lupo PJ, Agopian AJ, Canfield MA, Case AP, Carmichael SL, Mitchell LE. Preconceptional folic acid-containing supplement use in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2014;100:472-482.

Kirby RS, Nembhard WN. Increasing the utility of population-based birth defects surveillance program data. *J Registry Manag*. 2014;41:3.

Langlois PH, Hoyt AT, Desrosiers TA, Lupo PJ, Lawson CC, Waters MA, Rocheleau CM, Shaw GM, Romitti PA, Gilboa SM, Malik S. Maternal occupational exposure to polycyclic aromatic hydrocarbons and small for gestational age offspring. *Occup Environ Med.* 2014;71(8):529-535.

Langlois PH, Moffitt KB, Scheuerle AE. A modified panel of sentinel congenital anomalies for potential use in mutation epidemiology based on birth defects registry data. *Am J Med Genet A.* 2014;164A(9):2187-2199.

Lavery AM, Brender JD, Zhao H, Sweeney A, Felkner M, Suarez L, Canfield MA. Dietary intake of choline and neural tube defects in Mexican Americans. *Birth Defects Res A Clin Mol Teratol.* 2014;100(6):463-471.

Lin AE, Krikov S, Riehle-Colarusso T, Frias JL, Belmont J, Anderka M, Geva T, Getz KD, Botto LD, and the National Birth Defects Prevention Study. Laterality defects in the National Birth Defects Prevention Study (1998-2007): birth prevalence and descriptive epidemiology. *Am J Med Genet A.* 2014;164A(10):2581-2591.

Lupo PJ, Mitchell LE, Canfield MA, Shaw GM, Olshan AF, Finnell RH, Zhu H. Maternal-fetal metabolic gene-gene interactions and risk of neural tube defects. *Mol Genet Metab.* 2014;111:46-51.

Mai CT, Cassell CH, Meyer RE, Isenburg J, Canfield MA, Rickard R, Olney RS, Stallings EB, Beck M, Hashmi SS, Cho SJ, Kirby RS. Birth defects data from population-based birth defects surveillance programs in the United States, 2007 to 2011: highlighting orofacial clefts. *Birth Defects Res A Clin Mol Teratol.* 2014;100:895-904.

Marengo LK, Hoyt AT, Canfield MA. The utility of the national death index as a supplemental data source in ascertaining 5-year mortality among Texas heterotaxy cases. *J Registry Manag.* 2014;41:4-6.

McKinnish T, Rees DI, Langlois PH. Seasonality in birth defects, agricultural production and urban location. *Econ Hum Biol.* 2014;15c:120-128.

Morris SA, Ethen MK, Penny DJ, Canfield MA, Minard CG, Fixler DE, Nembhard WN. Prenatal diagnosis, birth location, surgical center, and neonatal mortality in infants with hypoplastic left heart syndrome. *Circulation.* 2014;129:285-292.

Peterson C, Ailes E, Riehle-Colarusso T, Oster ME, Olney RS, Cassell CH, Fixler DE, Carmichael SL, Shaw GM, Gilboa SM. Late detection of critical congenital heart disease among US infants: estimation of the potential impact of proposed universal screening using pulse oximetry. *JAMA Pediatr.* 2014;168:361-370.

Simmons K, Hashmi S, Scheuerle A, Canfield M, Hecht J. Mortality in babies with achondroplasia: revisited. *Birth Defects Res A Clin Mol Teratol.* 2014;100:247-249.

Stingone JA, Luben TJ, Daniels JL, Fuentes M, Richardson DB, Aylsworth AS, Herring AH, Anderka M, Botto L, Correa A, Gilboa SM, Langlois PH, Mosley B, Shaw GM, Siffel C, Olshan AF; National Birth Defects Prevention Study. Maternal exposure to criteria air pollutants and congenital heart defects in offspring: results from the National Birth Defects Prevention Study. *Environ Health Perspect*. 2014;122(8):863-872.

Vuong AM, Shinde MU, Brender JD, Shipp EM, Huber JC, Jr., Zheng Q, McDonald TJ, Sharkey JR, Hoyt AT, Werler MM, Kelley KE, Langlois PH, Canfield MA. Nitrosatable drug exposure during pregnancy and preterm and small-for-gestational-age births. *Paediatr Perinat Epidemiol*. 2014;29:60-71.

Weedn AE, Mosley BS, Cleves MA, Waller DK, Canfield MA, Correa A, Hobbs CA. Maternal reporting of prenatal ultrasounds among women in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2014;100:4-12.

Weyer PJ, Brender JD, Romitti PA, Kantamneni JR, Crawford D, Sharkey JR, Shinde M, Horel SA, Vuong AM, Langlois PH. Assessing bottled water nitrate concentrations to evaluate total drinking water nitrate exposure and risk of birth defects. *J Water Health*. 2014;12:755-762.

2013 (n=20)

Agopian AJ, Cai Y, Langlois PH, Canfield MA, Lupo PJ. Maternal residential atrazine exposure and risk for choanal atresia and stenosis in offspring. *J Pediatr*. 2013;162:581-586.

Agopian AJ, Langlois PH, Cai Y, Canfield MA, Lupo PJ. Maternal residential atrazine exposure and gastroschisis by maternal age. *Matern Child Health J*. 2013;17:1768-1775.

Agopian AJ, Lupo PJ, Canfield MA, Langlois PH. Case-control study of maternal residential atrazine exposure and male genital malformations. *Am J Med Genet A*. 2013;161a:977-982.

Agopian AJ, Lupo PJ, Canfield MA, Mitchell LE. Swimming pool use and birth defect risk. *Am J Obstet Gynecol*. 2013;209:219.e211-219.

Agopian AJ, Tinker SC, Lupo PJ, Canfield MA, Mitchell LE. Proportion of neural tube defects attributable to known risk factors. *Birth Defects Res A Clin Mol Teratol*. 2013;97:42-46.

Agopian AJ, Waller DK, Lupo PJ, Canfield MA, Mitchell LE. A case-control study of maternal bathing habits and risk for birth defects in offspring. *Environ Health*. 2013;12:88.

Ahrens KA, Anderka MT, Feldkamp ML, Canfield MA, Mitchell AA, Werler MM, Study NBDP. Antiherpetic medication use and the risk of gastroschisis: findings from the National Birth Defects Prevention Study, 1997–2007. *Paediatr Perinat Epidemiol*. 2013;27:340–345.

Brender JD, Weyer PJ, Romitti PA, Mohanty BP, Shinde MU, Vuong AM, Sharkey JR, Dwivedi D, Horel SA, Kantamneni J, Huber Jr JC, Zheng Q, Werler MM, Kelley KE, Griesenbeck JS, Zhan FB, Langlois PH, Suarez L, Canfield MA. Prenatal nitrate intake from drinking water and selected birth defects in offspring of participants in the National Birth Defects Prevention Study. *Environ Health Perspect*. 2013;121(9):1083-1089. Funded by NIH, NIEHS.

Huber JC, Jr., Brender JD, Zheng Q, Sharkey JR, Vuong AM, Shinde MU, Griesenbeck JS, Suarez L, Langlois PH, Canfield MA, Romitti PA, Weyer PJ. Maternal dietary intake of nitrates, nitrites and nitrosamines and selected birth defects in offspring: a case-control study. *Nutr J*. 2013;12:34. Funded by NIH, NIEHS.

Khodr ZG, Lupo PJ, Canfield MA, Chan W, Cai Y, Mitchell LE. Hispanic ethnicity and acculturation, maternal age and the risk of gastroschisis in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2013;97(8):538-545.

Kirby RS, Marshall J, Tanner JP, Salemi JL, Feldkamp ML, Marengo L, Meyer RE, Druschel CM, Rickard R, Kucik JE. Prevalence and correlates of gastroschisis in 15 states, 1995 to 2005. *Obstet Gynecol*. 2013;122:275-281.

Kucik JE, Shin M, Siffel C, Marengo L, Correa A. Trends in survival among children with Down syndrome in 10 regions of the United States. *Pediatrics*. 2013;131:e27-36.

Langlois PH, Canfield MA, Swartz MD. Poisson versus logistic regression in a descriptive epidemiologic analysis of data from a birth defects registry. *Birth Defects Res A Clin Mol Teratol*. 2013;97(10):702-707.

Langlois PH, Hoyt AT, Lupo PJ, Lawson CC, Waters MA, Desrosiers TA, Shaw GM, Romitti PA, Lammer EJ. Maternal occupational exposure to polycyclic aromatic hydrocarbons and risk of oral cleft-affected pregnancies. *Cleft Palate Craniofac J*. 2013;50:337–346.

Mai CT, Kucik JE, Isenburg J, Feldkamp ML, Marengo LK, Bugenske EM, Thorpe PG, Jackson JM, Correa A, Rickard R, Alverson CJ, Kirby RS, for the National Birth Defects Prevention N. Selected birth defects data from population-based birth defects surveillance programs in the United States, 2006 to 2010: featuring trisomy conditions. *Birth Defects Res A Clin Mol Teratol*. 2013;97:709-725.

Marengo L, Farag NH, Canfield M. Body mass index and birth defects: Texas, 2005-2008. *Matern Child Health J.* 2013;17(10):1898-1907.

Nembhard WN, Xu P, Ethen MK, Fixler DE, Salemi JL, Canfield MA. Racial/ethnic disparities in timing of death during childhood among children with congenital heart defects. *Birth Defects Res A Clin Mol Teratol.* 2013;97:628-640.

Ramakrishnan A, Lupo PJ, Agopian AJ, Linder SH, Stock TH, Langlois PH, Craft E. Evaluating the effects of maternal exposure to benzene, toluene, ethyl benzene, and xylene on oral clefts among offspring in Texas: 1999-2008. *Birth Defects Res A Clin Mol Teratol.* 2013;97:532-537.

Shinde MU, Vuong AM, Brender JD, Werler MM, Kelley KE, Huber JC, Jr., Sharkey JR, Zheng Q, Suarez L, Langlois PH, Canfield MA, Romitti PA, Malik S. Prenatal exposure to nitrosatable drugs, vitamin C, and risk of selected birth defects. *Birth Defects Res A Clin Mol Teratol.* 2013;97(8):515 -531. Funded by NIH, NIEHS.

Simeone RM, Rasmussen SA, Mei JV, Dollard SC, Frias JL, Shaw GM, Canfield MA, Meyer RE, Jones JL, Lorey F, Honein MA. A pilot study using residual newborn dried blood spots to assess the potential role of cytomegalovirus and *Toxoplasma gondii* in the etiology of congenital hydrocephalus. *Birth Defects Res A Clin Mol Teratol.* 2013;97(7):431-436.

2012 (n=28)

Agopian AJ, Canfield MA, Olney RS, Lupo PJ, Ramadhani T, Mitchell LE, Shaw GM, Moore CA. Spina bifida subtypes and sub-phenotypes by maternal race/ethnicity in the National Birth Defects Prevention Study. *Am J Med Genet A.* 2012;158A:109-115.

Agopian AJ, Lupo PJ, Herdt-Losavio ML, Langlois PH, Rocheleau CM, Mitchell LE. Differences in folic acid use, prenatal care, smoking, and drinking in early pregnancy by occupation. *Prev Med.* 2012;55:341-345.

Agopian AJ, Lupo PJ, Tinker SC, Canfield MA, Mitchell LE. Working towards a risk prediction model for neural tube defects. *Birth Defects Res A Clin Mol Teratol.* 2012;94:141-146.

Agopian AJ, Marengo LK, Mitchell LE. Predictors of trisomy 21 in the offspring of older and younger women. *Birth Defects Res A Clin Mol Teratol.* 2012;94:31-35.

Agopian AJ, Moulik M, Gupta-Malhotra M, Marengo LK, Mitchell LE. Descriptive epidemiology of non-syndromic complete atrioventricular canal defects. *Paediatr Perinat Epidemiol.* 2012;26:515-524.

Brender JD, Werler MM, Shinde MU, Vuong AM, Kelley KE, Huber JC, Jr., Sharkey JR, Griesenbeck JS, Romitti PA, Malik S, Suarez L, Langlois PH, Canfield MA. Nitrosatable drug exposure during the first trimester of pregnancy and selected congenital malformations. *Birth Defects Res A Clin Mol Teratol.* 2012;94:701–713. Funded by NIH, NIEHS.

Carozza SE, Langlois PH, Miller EA, Canfield M. Are children with birth defects at higher risk of childhood cancers? *Am J Epidemiol.* 2012;175:1217-1224.

Case AP, Colpitts LR, Langlois PH, Scheuerle AE. Prenatal diagnosis and cesarean section in a large, population-based birth defects registry. *J Matern Fetal Neonatal Med.* 2012;25:395-402.

Centers for Disease Control and Prevention (CDC). Preconception health indicators among women--Texas, 2002-2010. *MMWR Morb Mortal Wkly Rep.* 2012;61:550-555

Chandler AL, Hobbs CA, Mosley BS, Berry RJ, Canfield MA, Qi YP, Siega-Riz AM, Shaw GM. Neural tube defects and maternal intake of micronutrients related to one-carbon metabolism or antioxidant activity. *Birth Defects Res A Clin Mol Teratol.* 2012;94:864–874.

Desrosiers TA, Lawson CC, Meyer RE, Richardson DB, Daniels JL, Waters MA, van Wijngaarden E, Langlois PH, Romitti PA, Correa A, Olshan A. Maternal occupational exposure to organic solvents during early pregnancy and risks of neural tube defects and orofacial clefts. *Occup Environ Med.* 2012;69:493–499.

Duong HT, Hoyt AT, Carmichael SL, Gilboa SM, Canfield MA, Case A, McNeese ML, Waller DK. Is maternal parity an independent risk factor for birth defects? *Birth Defects Res A Clin Mol Teratol.* 2012;94:230–236.

Fixler DE, Nembhard WN, Xu P, Ethen MK, Canfield MA. Effect of acculturation and distance from cardiac center on congenital heart disease mortality. *Pediatrics.* 2012;129:1118-1124.

Getz KD, Anderka MT, Werler MM, Case AP. Short interpregnancy interval and gastroschisis risk in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol.* 2012;94:714–720.

Gilboa SM, Desrosiers TA, Lawson C, Lupo PJ, Riehle-Colarusso TJ, Stewart PA, van Wijngaarden E, Waters MA, Correa A; National Birth Defects Prevention Study. Association between maternal occupational exposure to organic solvents and congenital heart defects, National Birth Defects Prevention Study, 1997-2002. *Occup Environ Med.* 2012 Sep;69(9):628-35. doi: 10.1136/oemed-2011-100536. Epub 2012 Jul 17.

Hashmi SS, Canfield MA, Marengo L, Moffitt KB, Belmont JW, Freedenberg D, Tanksley SM, Lupo PJ. The association between neonatal thyroxine and craniosynostosis, Texas, 2004-2007. *Birth Defects Res A Clin Mol Teratol.* 2012;94:1004-1009.

Langlois PH, Hoyt AT, Lupo PJ, Lawson CC, Waters MA, Desrosiers TA, Shaw GM, Romitti PA, Lammer EJ. Maternal occupational exposure to polycyclic aromatic hydrocarbons and risk of neural tube defect-affected pregnancies. *Birth Defects Res A Clin Mol Teratol.* 2012;94:693-700.

Lee LJ, Canfield MA, Hashmi SS, Moffitt KB, Marengo L, Agopian AJ, Belmont JW, Freedenberg D, Tanksley SM, Mitchell LE, Lupo PJ. Association between thyroxine levels at birth and choanal atresia or stenosis among infants in Texas, 2004-2007. *Birth Defects Res A Clin Mol Teratol.* 2012;94:951-954.

Lupo PJ, Canfield MA, Chapa C, Lu W, Agopian AJ, Mitchell LE, Shaw GM, Waller DK, Olshan AF, Finnell RH, Zhu H. Diabetes and obesity-related genes and the risk of neural tube defects in the National Birth Defects Prevention Study. *Am J Epidemiol.* 2012;176:1101-1109.

Lupo PJ, Chapa C, Nousome D, Duhon C, Canfield MA, Shaw GM, Finnell RH, Zhu H. A GCH1 haplotype and risk of neural tube defects in the National Birth Defects Prevention Study. *Mol Genet Metab.* 2012;107:592-595.

Lupo PJ, Langlois PH, Reefhuis J, Lawson CC, Symanski E, Desrosiers TA, Khodr ZG, Agopian AJ, Waters MA, Duwe KN, Finnell RH, Mitchell LE, Moore CA, Romitti PA, Shaw GM. Maternal occupational exposure to polycyclic aromatic hydrocarbons: effects on gastroschisis among offspring in the National Birth Defects Prevention Study. *Environ Health Perspect.* 2012;120:910-915.

Lupo PJ, Symanski E, Langlois PH, Lawson CC, Malik S, Gilboa SM, Lee LJ, Agopian AJ, Desrosiers TA, Waters MA, Romitti PA, Correa A, Shaw GM, Mitchell LE. Maternal occupational exposure to polycyclic aromatic hydrocarbons and congenital heart defects among offspring in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol.* 2012;94:875-881. Funded by American Heart Association Beginning Grant-in-Aid.

Ma C, Shaw GM, Scheuerle AE, Canfield MA, Carmichael SL. Association of microtia with maternal nutrition. *Birth Defects Res A Clin Mol Teratol.* 2012;94:1026-1032.

Mai CT, Riehle-Colarusso T, O'Halloran A, Cragan JD, Onley RS, Lin A, Feldkamp M, Botto LD, Rickard R, Anderka M, Ethen M, Stanton C, Ehrhardt J, Canfield M. Selected birth defects data from population-based birth defects surveillance programs in the United States, 2005-2009: featuring critical congenital heart defects targeted for pulse oximetry screening. *Birth Defects Res A Clin Mol Teratol.* 2012;94:970-983.

Nassar N, Leoncini E, Amar E, Arteaga-Vazquez J, Bakker MK, Bower C, Canfield MA, Castilla EE, Cocchi G, Correa A, Csaky-Szunyogh M, Feldkamp ML, Khoshnood B, Landau D, Lelong N, Lopez-Camelo JS, Lowry RB, McDonnell R, Merlob P, Metneki J, Morgan M, Mutchinick OM, Palmer MN, Rissmann A, Siffel C, Sipek A, Szabova E, Tucker D, Mastroiacovo P. Prevalence of esophageal atresia among 18 international birth defects surveillance programs. *Birth Defects Res A Clin Mol Teratol.* 2012;94:893-899.

Shin M, Kucik JE, Siffel C, Lu C, Shaw GM, Canfield MA, Correa A. Improved survival among children with spina bifida in the United States. *J Pediatr.* 2012;161:1132-1137.

Suarez L, Felkner M, Brender JD, Canfield M, Zhu H, Hendricks KA. Neural tube defects on the Texas-Mexico border: what we've learned in the 20 years since the Brownsville cluster. *Birth Defects Res A Clin Mol Teratol.* 2012;94:882-892.

Suarez L, Felkner M, Brender JD, Canfield MA. Dieting to lose weight and occurrence of neural tube defects in offspring of Mexican-American women. *Matern Child Health J.* 2012;16:844-849.

2011 (n=27)

Bermejo-Sanchez E, Cuevas L, Amar E, Bakker MK, Bianca S, Bianchi F, Canfield MA, Castilla EE, Clementi M, Cocchi G, Feldkamp ML, Landau D, Leoncini E, Li Z, Lowry RB, Mastroiacovo P, Mutchinick OM, Rissmann A, Ritvanen A, Scarano G, Siffel C, Szabova E, Martinez-Frias ML. Amelia: a multi-center descriptive epidemiologic study in a large dataset from the International Clearinghouse for Birth Defects Surveillance and Research, and overview of the literature. *Am J Med Genet C Semin Med Genet.* 2011;157C:288-304.

Bermejo-Sanchez E, Cuevas L, Amar E, Bianca S, Bianchi F, Botto LD, Canfield MA, Castilla EE, Clementi M, Cocchi G, Landau D, Leoncini E, Li Z, Lowry RB, Mastroiacovo P, Mutchinick OM, Rissmann A, Ritvanen A, Scarano G, Siffel C, Szabova E, Martinez-Frias ML. Phocomelia: a worldwide descriptive epidemiologic study in a large series of cases from the International Clearinghouse for Birth Defects Surveillance and Research, and overview of the literature. *Am J Med Genet C Semin Med Genet.* 2011;157C:305-320.

Blanton SH, Henry RR, Yuan Q, Mulliken JB, Stal S, Finnell RH, Hecht JT. Folate pathway and nonsyndromic cleft lip and palate. *Birth Defects Res A Clin Mol Teratol.* 2011;91:50-60.

Botto LD, Feldkamp ML, Amar E, Carey JC, Castilla EE, Clementi M, Cocchi G, de Walle HE, Halliday J, Leoncini E, Li Z, Lowry RB, Marengo LK, Martinez-Frias ML,

Merlob P, Morgan M, Munoz LL, Rissmann A, Ritvanen A, Scarano G, Mastroiacovo P. Acardia: epidemiologic findings and literature review from the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Med Genet C Semin Med Genet.* 2011;157C:262-273.

Brender JD, Kelley KE, Werler MM, Langlois PH, Suarez L, Canfield MA. Prevalence and patterns of nitrosatable drug use among U.S. women during early pregnancy. *Birth Defects Res A Clin Mol Teratol.* 2011;91:258-264. Funded by NIH, NIEHS.

Brender JD, Werler MM, Kelley KE, Vuong AM, Shinde MU, Zheng Q, Huber JC, Jr., Sharkey JR, Griesenbeck JS, Romitti PA, Langlois PH, Suarez L, Canfield MA, The National Birth Defects Prevention Study. Nitrosatable drug exposure during early pregnancy and neural tube defects in offspring: National Birth Defects Prevention Study. *Am J Epidemiol.* 2011;174:1286-1295. Funded by NIH, NIEHS.

Case AP, Mitchell LE. Prevalence and patterns of choanal atresia and choanal stenosis among pregnancies in Texas, 1999-2004. *Am J Med Genet A.* 2011;155A:786-791.

Chiquet BT, Henry R, Burt A, Mulliken JB, Stal S, Blanton SH, Hecht JT. Nonsyndromic cleft lip and palate: CRISPLD genes and the folate gene pathway connection. *Birth Defects Res A Clin Mol Teratol.* 2011;91:44-49.

Duong HT, Shahrukh Hashmi S, Ramadhani T, Canfield MA, Scheuerle A, Kim Waller D. Maternal use of hot tub and major structural birth defects. *Birth Defects Res A Clin Mol Teratol.* 2011;91:836-841.

Feldkamp ML, Botto LD, Amar E, Bakker MK, Bermejo-Sanchez E, Bianca S, Canfield MA, Castilla EE, Clementi M, Csaky-Szunyogh M, Leoncini E, Li Z, Lowry RB, Mastroiacovo P, Merlob P, Morgan M, Mutchinick OM, Rissmann A, Ritvanen A, Siffel C, Carey JC. Cloacal exstrophy: an epidemiologic study from the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Med Genet C Semin Med Genet.* 2011;157C:333-343.

Langlois PH, Marengo LK, Canfield MA. Time trends in the prevalence of birth defects in Texas 1999-2007: real or artifactual? *Birth Defects Res A Clin Mol Teratol.* 2011;91:902-917.

Lupo PJ, Langlois PH, Mitchell LE. Epidemiology of ebstein anomaly: prevalence and patterns in Texas, 1999-2005. *Am J Med Genet A.* 2011;155A:1007-1014.

Lupo PJ, Symanski E, Waller DK, Chan W, Langlois PH, Canfield MA, Mitchell LE. Maternal exposure to ambient levels of benzene and neural tube defects among offspring: Texas, 1999-2004. *Environ Health Perspect.* 2011;119:397-402.

Marengo L, Ramadhani T, Farag NH, Canfield MA. Should aggregate US census data be used as a proxy for individual household income in a birth defects registry? *J Registry Manag.* 2011;38:9-14.

Mei JV, Li L, Rasmussen SA, Collier S, Frias JL, Honein MA, Shaw GM, Lorey F, Meyer R, Chaing S, Canfield MA, Jones J, Hannon WH. Effect of specimen storage conditions on newborn dried blood spots used to assess *Toxoplasma gondii* immunoglobulin M (IgM). *Clin Chim Acta.* 2011;412:455-459.

Moffitt KB, Abiri OO, Scheuerle AE, Langlois PH. Descriptive epidemiology of selected heritable birth defects in Texas. *Birth Defects Res A Clin Mol Teratol.* 2011;91:990-994.

Mutchinick OM, Luna-Munoz L, Amar E, Bakker MK, Clementi M, Cocchi G, da Graca Dutra M, Feldkamp ML, Landau D, Leoncini E, Li Z, Lowry B, Marengo LK, Martinez-Frias ML, Mastroiacovo P, Metneki J, Morgan M, Pierini A, Rissman A, Ritvanen A, Scarano G, Siffel C, Szabova E, Arteaga-Vazquez J. Conjoined twins: a worldwide collaborative epidemiological study of the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Med Genet C Semin Med Genet.* 2011;157C:274-287.

Nembhard WN, Salemi JL, Ethen MK, Fixler DE, Dimaggio A, Canfield MA. Racial/ethnic disparities in risk of early childhood mortality among children with congenital heart defects. *Pediatrics.* 2011;127:e1128-1138

Orioli IM, Amar E, Arteaga-Vazquez J, Bakker MK, Bianca S, Botto LD, Clementi M, Correa A, Csaky-Szunyogh M, Leoncini E, Li Z, Lopez-Camelo JS, Lowry RB, Marengo L, Martinez-Frias ML, Mastroiacovo P, Morgan M, Pierini A, Ritvanen A, Scarano G, Szabova E, Castilla EE. Sirenomelia: an epidemiologic study in a large dataset from the International Clearinghouse of Birth Defects Surveillance and Research, and literature review. *Am J Med Genet C Semin Med Genet.* 2011;157C:358-373.

Orioli IM, Amar E, Bakker MK, Bermejo-Sanchez E, Bianchi F, Canfield MA, Clementi M, Correa A, Csaky-Szunyogh M, Feldkamp ML, Landau D, Leoncini E, Li Z, Lowry RB, Mastroiacovo P, Morgan M, Mutchinick OM, Rissmann A, Ritvanen A, Scarano G, Szabova E, Castilla EE. Cyclopia: an epidemiologic study in a large dataset from the International Clearinghouse of Birth Defects Surveillance and Research. *Am J Med Genet C Semin Med Genet.* 2011;157C:344-357.

Parks SE, Canfield MA, Ramadhani TA. Importance of including all pregnancy outcomes to reduce bias in epidemiologic studies of neural tube defects--Texas, 1999 to 2005. *Birth Defects Res A Clin Mol Teratol.* 2011;91:185-191.

Ramadhani TA, Canfield MA, Farag NH, Royle M, Correa A, Waller DK, Scheuerle A. Do foreign- and U.S.-born mothers across racial/ethnic groups have a similar risk

profile for selected sociodemographic and periconceptional factors? *Birth Defects Res A Clin Mol Teratol.* 2011;91:823–830.

Scheuerle A. Clinical differentiation of patent foramen ovale and secundum atrial septal defect: a survey of pediatric cardiologists in Dallas, Texas, USA. *J Registry Manag.* 2011;38:4-8.

Sheu SU, Ethen MK, Scheuerle AE, Langlois PH. Investigation into an increase in plagiocephaly in Texas from 1999 to 2007. *Arch Pediatr Adolesc Med.* 2011;165:708-713.

Siffel C, Correa A, Amar E, Bakker MK, Bermejo-Sanchez E, Bianca S, Castilla EE, Clementi M, Cocchi G, Csaky-Szunyogh M, Feldkamp ML, Landau D, Leoncini E, Li Z, Lowry RB, Marengo LK, Mastroiacovo P, Morgan M, Mutchinick OM, Pierini A, Rissmann A, Ritvanen A, Scarano G, Szabova E, Olney RS. Bladder exstrophy: an epidemiologic study from the International Clearinghouse for Birth Defects Surveillance and Research, and an overview of the literature. *Am J Med Genet C Semin Med Genet.* 2011;157C:321-332.

Sommer A, Blanton SH, Weymouth K, Alvarez C, Richards BS, Barnes D, Hecht JT. Smoking, the xenobiotic pathway, and clubfoot. *Birth Defects Res A Clin Mol Teratol.* 2011;91:20-28.

Suarez L, Ramadhani T, Felkner M, Canfield MA, Brender JD, Romitti PA, Sun L. Maternal smoking, passive tobacco smoke, and neural tube defects. *Birth Defects Res A Clin Mol Teratol.* 2011;91:29–33.

2010 (n=26)

Benjamin BG, Ethen MK, Van Hook CL, Myers CA, Canfield MA. Gastroschisis prevalence in Texas 1999-2003. *Birth Defects Res A Clin Mol Teratol.* 2010;88:178-185.

Brender JD, Felkner M, Suarez L, Canfield MA, Henry JP. Maternal pesticide exposure and neural tube defects in Mexican Americans. *Ann Epidemiol.* 2010;20:16-22.

Davis EM, Peck JD, Thompson D, Wild RA, Langlois P. Maternal diabetes and renal agenesis/dysgenesis. *Birth Defects Res A Clin Mol Teratol.* 2010;88:722-727.

Defant J, Gambello MJ, Monga M, Langlois PH, Noblin SJ, Vidaeff AC. Fetal trisomy 21 and the risk of preeclampsia. *J Matern Fetal Neonatal Med.* 2010;23:55-59.

Fixler DE, Nembhard WN, Salemi JL, Ethen MK, Canfield MA. Mortality in first 5 years in infants with functional single ventricle born in Texas, 1996 to 2003. *Circulation.* 2010;121:644-650.

Gilboa SM, Correa A, Botto LD, Rasmussen SA, Waller DK, Hobbs CA, Cleves MA, Riehle-Colarusso TJ. Association between prepregnancy body mass index and congenital heart defects. *Am J Obstet Gynecol*. 2010;202:51.e1-10.

Graham A, Brender JD, Sharkey JR, Zhu L, Felkner M, Suarez L, Canfield MA. Dietary methionine intake and neural tube defects in Mexican-American women. *Birth Defects Res A Clin Mol Teratol*. 2010;88:451-457.

Green RF, Devine O, Crider KS, Olney RS, Archer N, Olshan AF, Shapira SK. Association of paternal age and risk for major congenital anomalies from the National Birth Defects Prevention Study, 1997 to 2004. *Ann Epidemiol*. 2010;20:241-249.

Griesenbeck JS, Brender JD, Sharkey JR, Steck MD, Huber JC, Jr., Rene AA, McDonald TJ, Romitti PA, Canfield MA, Langlois PH, Suarez L. Maternal characteristics associated with the dietary intake of nitrates, nitrites, and nitrosamines in women of child-bearing age: a cross-sectional study. *Environ Health*. 2010;9:10. Funded by NIH, NIEHS.

Hashmi SS, Gallaway MS, Waller DK, Langlois PH, Hecht JT. Maternal fever during early pregnancy and the risk of oral clefts. *Birth Defects Res A Clin Mol Teratol*. 2010;88:186-194.

Langlois PH, Jandle L, Scheuerle A, Horel SA, Carozza SE. Occurrence of conotruncal heart birth defects in Texas: a comparison of urban/rural classifications. *J Rural Health*. 2010;26:164-174.

Langlois PH, Sheu SU, Scheuerle AE. A physician survey regarding diagnostic variability among birth defects. *Am J Med Genet A*. 2010;152A:1594-1598.

Leoncini E, Botto LD, Cocchi G, Anneren G, Bower C, Halliday J, Amar E, Bakker MK, Bianca S, Canessa Tapia MA, Castilla EE, Csaky-Szunyogh M, Dastgiri S, Feldkamp ML, Gatt M, Hirahara F, Landau D, Lowry RB, Marengo L, McDonnell R, Mathew TM, Morgan M, Mutchinick OM, Pierini A, Poetzsch S, Ritvanen A, Scarano G, Siffel C, Sipek A, Szabova E, Tagliabue G, Vollset SE, Wertelecki W, Zhuchenko L, Mastroiacovo P. How valid are the rates of Down syndrome internationally? Findings from the International Clearinghouse for Birth Defects Surveillance and Research. *Am J Med Genet A*. 2010;152A:1670-1680.

Long J, Ramadhani T, Mitchell LE. Epidemiology of nonsyndromic conotruncal heart defects in Texas, 1999-2004. *Birth Defects Res A Clin Mol Teratol*. 2010;88:971-979.

Lu W, Guzman AR, Yang W, Chapa CJ, Shaw GM, Greene RM, Pisano MM, Lammer EJ, Finnell RH, Zhu H. Genes encoding critical transcriptional activators for murine

neural tube development and human spina bifida: a case-control study. *BMC Med Genet.* 2010;11:141.

Lupo PJ, Symanski E, Chan W, Mitchell LE, Waller DK, Canfield MA, Langlois PH. Differences in exposure assignment between conception and delivery: the impact of maternal mobility. *Paediatr Perinat Epidemiol.* 2010;24:200-208.

Lupo PJ, Symanski E, Waller DK, Chan W, Canfield MA, Langlois PH, Mitchell LE. Polytomous logistic regression as a tool for exploring heterogeneity across birth defect subtypes: an example using anencephaly and spina bifida. *Birth Defects Res A Clin Mol Teratol.* 2010;88:701-705.

Ma C, Carmichael SL, Scheuerle AE, Canfield MA, Shaw GM. Association of microtia with maternal obesity and periconceptional folic acid use. *Am J Med Genet A.* 2010;152A:2756-2761.

Messer LC, Luben TJ, Mendola P, Carozza SE, Horel SA, Langlois PH. Urban-rural residence and the occurrence of cleft lip and cleft palate in Texas, 1999-2003. *Ann Epidemiol.* 2010;20:32-39.

Miller EA, Rasmussen SA, Siega-Riz AM, Frías JL, Honein MA. Risk factors for non-syndromic holoprosencephaly in the National Birth Defects Prevention Study. *Am J Med Genet C Semin Med Genet.* 2010;154C:62-72.

Naufal Z, Zhiwen L, Zhu L, Zhou GD, McDonald T, He LY, Mitchell L, Ren A, Zhu H, Finnell R, Donnelly KC. Biomarkers of exposure to combustion by-products in a human population in Shanxi, China. *J Expo Sci Environ Epidemiol.* 2010;20:310-319.

Nembhard WN, Salemi JL, Ethen MK, Fixler DE, Canfield MA. Mortality among infants with birth defects: joint effects of size at birth, gestational age, and maternal race/ethnicity. *Birth Defects Res A Clin Mol Teratol.* 2010;88:728-736.

Parker SE, Mai CT, Canfield MA, Rickard R, Wang Y, Meyer RE, Anderson P, Mason CA, Collins JS, Kirby RS, Correa A. Updated national birth prevalence estimates for selected birth defects in the United States, 2004-2006. *Birth Defects Res A Clin Mol Teratol.* 2010;88:1008-1016.

Vendola C, Canfield M, Daiger SP, Gambello M, Hashmi SS, King T, Noblin SJ, Waller DK, Hecht JT. Survival of Texas infants born with trisomies 21, 18, and 13. *Am J Med Genet A.* 2010;152A:360-366.

Waller DK, Gallaway MS, Taylor LG, Ramadhani TA, Canfield MA, Scheuerle A, Hernandez-Diaz S, Louik C, Correa A. Use of oral contraceptives in pregnancy and major structural birth defects in offspring. *Epidemiology.* 2010;21:232-239.

Wen S, Zhu H, Lu W, Mitchell LE, Shaw GM, Lammer EJ, Finnell RH. Planar cell polarity pathway genes and risk for spina bifida. *Am J Med Genet A*. 2010;152A:299-304.

2009 (n=26)

Agopian A, Marengo L, Mitchell LE. Descriptive epidemiology of nonsyndromic omphalocele in Texas, 1999-2004. *Am J Med Genet A*. 2009;149A:2129-2133.

Browne ML, Rasmussen SA, Hoyt AT, Waller DK, Druschel CM, Caton AR, Canfield MA, Lin AE, Carmichael SL, Romitti PA. Maternal thyroid disease, thyroid medication use, and selected birth defects in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2009;85:621-628.

Canfield MA, Langlois PH, Nguyen LM, Scheuerle AE. Epidemiologic features and clinical subgroups of anotia/microtia in Texas. *Birth Defects Res A Clin Mol Teratol*. 2009;85:905-913.

Canfield MA, Marengo L, Ramadhani TA, Suarez L, Brender JD, Scheuerle A. The prevalence and predictors of anencephaly and spina bifida in Texas. *Paediatr Perinat Epidemiol*. 2009;23:41-50.

Canfield MA, Ramadhani TA, Shaw GM, Carmichael SL, Waller DK, Mosley BS, Royle MH, Olney RS. Anencephaly and spina bifida among Hispanics: maternal, sociodemographic, and acculturation factors in the National Birth Defects Prevention Study. *Birth Defects Res A Clin Mol Teratol*. 2009;85:637-646.

Case AP, Canfield MA. Methods for developing useful estimates of the costs associated with birth defects. *Birth Defects Res A Clin Mol Teratol*. 2009;85:920-924.

Chiang PW, Spector E, Scheuerle A. A case of Asian Indian OCA3 patient. *Am J Med Genet A*. 2009;149A:1578-1580.

Collins JS, Canfield MA, Pearson K, Kirby RS, Case AP, Mai CT, Major J, Mulinare J. Public health projects for preventing the recurrence of neural tube defects in the United States. *Birth Defects Res A Clin Mol Teratol*. 2009;85:935-938

Ethen MK, Ramadhani TA, Scheuerle AE, Canfield MA, Wyszynski DF, Druschel CM, Romitti PA. Alcohol consumption by women before and during pregnancy. *Matern Child Health J*. 2009;13:274-285.

Felkner M, Suarez L, Canfield MA, Brender JD, Sun Q. Maternal serum homocysteine and risk for neural tube defects in a Texas-Mexico border population. *Birth Defects Res A Clin Mol Teratol*. 2009;85:574-581.

Gallaway MS, Waller DK, Canfield MA, Scheuerle AE. The association between use of spermicides or male condoms and major structural birth defects. *Contraception*. 2009;80:422-429.

Griesenbeck JS, Steck MD, Huber JC, Jr., Sharkey JR, Rene AA, Brender JD. Development of estimates of dietary nitrates, nitrites, and nitrosamines for use with the Short Willet Food Frequency Questionnaire. *Nutr J*. 2009;8:16. Funded by NIH, NIEHS.

Honein MA, Kirby RS, Meyer RE, Xing J, Skerrette NI, Yuskiv N, Marengo L, Petrini JR, Davidoff MJ, Mai CT, Druschel CM, Viner-Brown S, Sever LE. The association between major birth defects and preterm birth. *Matern Child Health J*. 2009;13:164-175.

Langlois PH, Brender JD, Suarez L, Zhan FB, Mistry JH, Scheuerle A, Moody K. Maternal residential proximity to waste sites and industrial facilities and conotruncal heart defects in offspring. *Paediatr Perinat Epidemiol*. 2009;23:321-331.

Langlois PH, Ramadhani TA, Royle MH, Robbins JM, Scheuerle AE, Wyszynski DF. Birth defects and military service since 1990. *Mil Med*. 2009;174:170-176.

Langlois PH, Scheuerle A, Horel SA, Carozza SE. Urban versus rural residence and occurrence of septal heart defects in Texas. *Birth Defects Res A Clin Mol Teratol*. 2009;85:764-772.

Lin AE, Rasmussen SA, Scheuerle A, Stevenson RE. Clinical geneticists in birth defects surveillance and epidemiology research programs: past, present and future roles. *Birth Defects Res A Clin Mol Teratol*. 2009;85:69-75.

Luben TJ, Messer LC, Mendola P, Carozza SE, Horel SA, Langlois PH. Urban-rural residence and the occurrence of neural tube defects in Texas, 1999-2003. *Health Place*. 2009;15:848-854.

Miller EA, Manning SE, Rasmussen SA, Reefhuis J, Honein MA. Maternal exposure to tobacco smoke, alcohol and caffeine, and risk of anorectal atresia: National Birth Defects Prevention Study 1997-2003. *Paediatr Perinat Epidemiol*. 2009;23:9-17.

Mosley BS, Cleves MA, Siega-Riz AM, Shaw GM, Canfield MA, Waller DK, Werler MM, Hobbs CA. Neural tube defects and maternal folate intake among pregnancies conceived after folic acid fortification in the United States. *Am J Epidemiol*. 2009;169:9-17.

Parker SE, Mai CT, Strickland MJ, Olney RS, Rickard R, Marengo L, Wang Y, Hashmi SS, Meyer RE. Multistate study of the epidemiology of clubfoot. *Birth Defects Res A Clin Mol Teratol*. 2009;85:897-904.

Ramadhani T, Short V, Canfield MA, Waller DK, Correa A, Royle M, Scheuerle A. Are birth defects among Hispanics related to maternal nativity or number of years lived in the United States? *Birth Defects Res A Clin Mol Teratol*. 2009;85:755-763.

Scheuerle A, Vannappagari VX, Miller MK. Measurements of birth defect prevalence: which is most useful as a comparator group for pharmaceutical pregnancy registries? *Birth Defects Res A Clin Mol Teratol*. 2009;85:611-620.

Simpson MA, Scheuerle A, Hurst J, Patton MA, Stewart H, Crosby AH. Mutations in FAM20C also identified in non-lethal osteosclerotic bone dysplasia. *Clin Genet*. 2009;75:271-276.

Wen S, Lu W, Zhu H, Yang W, Shaw GM, Lammer EJ, Islam A, Finnell RH. Genetic polymorphisms in the thioredoxin 2 (TXN2) gene and risk for spina bifida. *Am J Med Genet A*. 2009;149A:155-160.

Zhu H, Kartiko S, Finnell RH. Importance of gene-environment interactions in the etiology of selected birth defects. *Clin Genet*. 2009;75:409-423.

2008 (n=20)

Bitsko RH, Reefhuis J, Louik C, Werler M, Feldkamp ML, Waller DK, Frias J, Honein MA. Periconceptional use of weight loss products including ephedra and the association with birth defects. *Birth Defects Res A Clin Mol Teratol*. 2008;82:553-562.

Boulet SL, Yang Q, Mai C, Kirby RS, Collins JS, Robbins JM, Meyer R, Canfield MA, Mulinare J. Trends in the postfortification prevalence of spina bifida and anencephaly in the United States. *Birth Defects Res A Clin Mol Teratol*. 2008;82:527-532.

Brender JD, Suarez L, Langlois PH, Steck M, Zhan FB, Moody K. Are maternal occupation and residential proximity to industrial sources of pollution related? *J Occup Environ Med*. 2008;50:834-839.

Brender JD, Suarez L, Langlois PH. Parental occupation, Hispanic ethnicity, and risk of selected congenital malformations in offspring. *Ethn Dis*. 2008;18:218-224.

Brender JD, Suarez L, Langlois PH. Validity of parental work information on the birth certificate. *BMC Public Health*. 2008;8:95.

Brender JD, Zhan FB, Langlois PH, Suarez L, Scheuerle A. Residential proximity to waste sites and industrial facilities and chromosomal anomalies in offspring. *Int J Hyg Environ Health*. 2008;211:50-58.

Case AP, Canfield MA, Barnett A, Raimondo P, Drummond-Borg M, Livingston J, Kowalik J. Proximity of pediatric genetic services to children with birth defects in Texas. *Birth Defects Res A Clin Mol Teratol.* 2008;82:795-798.

Chiquet BT, Blanton SH, Burt A, Ma D, Stal S, Mulliken JB, Hecht JT. Variation in WNT genes is associated with non-syndromic cleft lip with or without cleft palate. *Hum Mol Genet.* 2008;17(14):2212-2218.

Correa A, Gilboa SM, Besser LM, Botto LD, Moore CA, Hobbs CA, Cleves MA, Riehle-Colarusso TJ, Waller DK, Reece EA. Diabetes mellitus and birth defects. *Am J Obstet Gynecol.* 2008;199(3):237.e1-237.e9.

Finnell RH, Shaw GM, Lammer EJ, Rosenquist TH. Gene-nutrient interactions: importance of folic acid and vitamin B12 during early embryogenesis. *Food Nutr Bull.* 2008;29(2 Suppl):S86-98; discussion S99-100.

Husain T, Langlois PH, Sever LE, Gambello MJ. Descriptive epidemiologic features shared by birth defects thought to be related to vascular disruption in Texas, 1996-2002. *Birth Defects Res A Clin Mol Teratol.* 2008;82:435-440.

Leoncini E, Baranello G, Orioli IM, Anneren G, Bakker M, Bianchi F, Bower C, Canfield MA, Castilla EE, Cocchi G, Correa A, De Vigan C, Doray B, Feldkamp ML, Gatt M, Irgens LM, Lowry RB, Maraschini A, Mc Donnell R, Morgan M, Mutchinick O, Poetzsch S, Riley M, Ritvanen A, Gnansia ER, Scarano G, Sipek A, Tenconi R, Mastroiacovo P. Frequency of holoprosencephaly in the International Clearinghouse Birth Defects Surveillance Systems: searching for population variations. *Birth Defects Res A Clin Mol Teratol.* 2008;82:585-591.

Mitchell LE, Etheredge AJ, Hill DS, Finnell RH. Spina bifida. In Lang F (ed.), *Encyclopedia of Molecular Mechanisms of Disease.* Springer; 2008.

Mitchell LE. Epidemiology of cleft lip and palate. In Losee JE, Kirschner RE (eds.), *Comprehensive cleft care.* McGraw-Hill; 2008.

Mitchell LE. Spina bifida research resource: study design and participant characteristics. *Birth Defects Res A Clin Mol Teratol.* 2008;82:684-691.

Phelps A, Alverson CJ, Becker C, Case AP. Chapter: data presentation in guidelines for conducting birth defects surveillance. National Birth Defects Prevention Network, Inc. 2008.

Suarez L, Felkner M, Brender JD, Canfield M, Hendricks K. Maternal exposures to cigarette smoke, alcohol, and street drugs and neural tube defect occurrence in offspring. *Matern Child Health J.* 2008;12:394-401.

Waller DK, Correa A, Vo TM, Wang Y, Hobbs C, Langlois PH, Pearson K, Romitti PA, Shaw GM, Hecht JT. The population-based prevalence of achondroplasia and

thanatophoric dysplasia in selected regions of the US. *Am J Med Genet A*. 2008;146A:2385-2389.

Wang J, Waller DK, Hwang LY, Taylor LG, Canfield MA. Prevalence of infantile hypertrophic pyloric stenosis in Texas, 1999-2002. *Birth Defects Res A Clin Mol Teratol*. 2008;82:763-767.

Yang J, Carmichael SL, Canfield MA, Song J, Shaw GM, National Birth Defects Prevention S. Socioeconomic status in relation to selected birth defects in a large multicentered US case-control study. *Am J Epidemiol*. 2008;167(2):145-154.

2007 (n=16)

Archer NP, Langlois PH, Suarez L, Brender J, Shanmugam R. Association of paternal age with prevalence of selected birth defects. *Birth Defects Res A Clin Mol Teratol*. 2007;79:27-34.

Case AP, Ramadhani TA, Canfield MA, Beverly L, Wood R. Folic acid supplementation among diabetic, overweight, or obese women of childbearing age. *J Obstet Gynecol Neonatal Nurs*. 2007;36:335-341.

Case AP, Ramadhani TA, Canfield MA, Wicklund CA. Awareness and attitudes regarding prenatal testing among Texas women of childbearing age. *J Genet Couns*. 2007;16:655-661.

Ethen MK, Canfield MA, Trevino J. Pilot test of prenatal surveillance for birth defects in South Texas. *Birth Defects Res A Clin Mol Teratol*. 2007;79:788-791.

Felkner M, Suarez L, Liszka B, Brender JD, Canfield M. Neural tube defects, micronutrient deficiencies, and helicobacter pylori: a new hypothesis. *Birth Defects Res A Clin Mol Teratol*. 2007;79:617-621.

Hecht JT, Ester A, Scott A, Wise CA, Iovannisci DM, Lammer EJ, Langlois PH, Blanton SH. NAT2 variation and idiopathic talipes equinovarus (clubfoot). *Am J Med Genet A*. 2007;143A:2285-2291.

Kaye CI, Livingston J, Canfield MA, Mann MY, Lloyd-Puryear MA, Therrell BL, Jr. Assuring clinical genetic services for newborns identified through U.S. newborn screening programs. *Genet Med*. 2007;9(8):518-527.

Langlois PH, Canfield MA, Suarez L. Are birth defects more prevalent along the Texas-Mexico border? *Tex Med*. 2007;103:54-59.

Langlois PH, Scheuerle A. Using registry data to suggest which birth defects may be more susceptible to artifactual clusters and trends. *Birth Defects Res A Clin Mol Teratol*. 2007;79:798-805.

Mastroiacovo P, Lisi A, Castilla EE, Martinez-Frias ML, Bermejo E, Marengo L, Kucik J, Siffel C, Halliday J, Gatt M, Anneren G, Bianchi F, Canessa MA, Danderfer R, de Walle H, Harris J, Li Z, Lowry RB, McDonnell R, Merlob P, Metneki J, Mutchinick O, Robert-Gnansia E, Scarano G, Sipek A, Potzsch S, Szabova E, Yevtushok L. Gastroschisis and associated defects: an international study. *Am J Med Genet A*. 2007;143:660-671.

Rasmussen SA, Yazdy MM, Carmichael SL, Jamieson DJ, Canfield MA, Honein MA. Maternal thyroid disease as a risk factor for craniosynostosis. *Obstet Gynecol*. 2007;110(2):369-377.

Rosenquist TH, Finnell RH. Another key role for the cardiac neural crest in heart development. *Am J Physiol Heart Circ Physiol*. 2007;292:H1225-1226.

Suarez L, Brender JD, Langlois PH, Zhan FB, Moody K. Maternal exposures to hazardous waste sites and industrial facilities and risk of neural tube defects in offspring. *Ann Epidemiol*. 2007;17:772-777

Taparia S, Gelineau-van Waes J, Rosenquist TH, Finnell RH. Importance of folate-homocysteine homeostasis during early embryonic development. *Clin Chem Lab Med*. 2007;45(12):1717-1727.

Waller DK, Shaw GM, Rasmussen SA, Hobbs CA, Canfield MA, Siega-Riz A-M, Gallaway MS, Correa A. Prepregnancy obesity as a risk factor for structural birth defects. *Arch Pediatr Adolesc Med*. 2007;161(8):745-750.

Wen S, Ethen M, Langlois PH, Mitchell LE. Prevalence of encephalocele in Texas, 1999-2002. *Am J Med Genet A*. 2007;143A:2150-2155.

2006 (n=21)

Archer NP, Langlois PH, Case AP, Wolfe LJ. Linking teratogen information service and birth defects registry databases to improve knowledge of birth defect status. *Birth Defects Res A Clin Mol Teratol*. 2006;76:126-128.

Blom HJ, Shaw GM, den Heijer M, Finnell RH. Neural tube defects and folate: case far from closed. *Nat Rev Neurosci*. 2006;7(9):724-731.

Botto LD, Lisi A, Bower C, Canfield MA, Dattani N, De Vigan C, De Walle H, Erickson DJ, Halliday J, Irgens LM, Lowry RB, McDonnell R, Metneki J, Poetzsch S, Ritvanen A, Robert-Gnansia E, Siffel C, Stoll C, Mastroiacovo P. Trends of selected malformations in relation to folic acid recommendations and fortification: an international assessment. *Birth Defects Res A Clin Mol Teratol*. 2006;76:693-705.

Brender JD, Suarez L, Felkner M, Gilani Z, Stinchcomb D, Moody K, Henry J, Hendricks K. Maternal exposure to arsenic, cadmium, lead, and mercury and neural tube defects in offspring. *Environ Res.* 2006;101:132-139.

Brender JD, Zhan FB, Suarez L, Langlois PH, Gilani Z, Delima I, Moody K. Linking environmental hazards and birth defects data. *Int J Occup Environ Health.* 2006;12:126-133.

Brender JD, Zhan FB, Suarez L, Langlois PH, Moody K. Maternal residential proximity to waste sites and industrial facilities and oral clefts in offspring. *J Occup Environ Med.* 2006;48(6):565-572.

Canfield MA, Honein MA, Yuskiv N, Xing J, Mai CT, Collins JS, Devine O, Petrini J, Ramadhani TA, Hobbs CA, Kirby RS. National estimates and race/ethnic-specific variation of selected birth defects in the United States, 1999-2001. *Birth Defects Res A Clin Mol Teratol.* 2006;76:747-756.

Canfield MA, Przybyla SM, Case AP, Ramadhani T, Suarez L, Dyer J. Folic acid awareness and supplementation among Texas women of childbearing age. *Prev Med.* 2006;43:27-30.

Canfield MA, Ramadhani TA, Langlois PH, Waller DK. Residential mobility patterns and exposure misclassification in epidemiologic studies of birth defects. *J Expo Sci Environ Epidemiol.* 2006;16:538-543.

Carmichael SL, Shaw GM, Yang W, Laurent C, Herring A, Royle MH, Canfield MA. Correlates of intake of folic acid-containing supplements among pregnant women. *Am J Obstet Gynecol.* 2006;194:203-210.

Centers for Disease Control and Prevention (CDC). Improved national prevalence estimates for 18 selected major birth defects--United States, 1999-2001. *MMWR Morb Mortal Wkly Rep.* 2006;54:1301-1305.

Finnell RH, Mitchell LE. Neural tube defects. In Rimoin DL, Connor JM, Pyeritz RE, Korf BF (eds.), *Emery and Rimoin's principles and practice of medical genetics* (5th ed.). Vol 3. Pp.2648-2660. 2006.

Gilboa SM, Mendola P, Olshan AF, Harness C, Loomis D, Langlois PH, Savitz DA, Herring AH. Comparison of residential geocoding methods in population-based study of air quality and birth defects. *Environ Res.* 2006;101:256-262.

Gilboa SM, Mendola P, Olshan AF, Savitz DA, Herring AH, Loomis D, Langlois PH, Keating K. Characteristics that predict locating and interviewing mothers identified by a state birth defects registry and vital records. *Birth Defects Res A Clin Mol Teratol.* 2006;76:60-65.

Jensen LE, Etheredge AJ, Brown KS, Mitchell LE, Whitehead AS. Maternal genotype for the monocyte chemoattractant protein 1 A(-2518)G promoter polymorphism is associated with the risk of spina bifida in offspring. *Am J Med Genet A*. 2006;140:1114-1118.

Jensen LE, Hoess K, Mitchell LE, Whitehead AS. Loss of function polymorphisms in NAT1 protect against spina bifida. *Hum Genet*. 2006;120:52-57.

Langlois PH, Scheuerle AE, Winter A. Severity of birth defects as a tool for dealing with detection bias in cluster investigations. 2006;12:2-3.

Missmer SA, Suarez L, Felkner M, Wang E, Merrill AH, Jr., Rothman KJ, Hendricks KA. Exposure to fumonisins and the occurrence of neural tube defects along the Texas-Mexico border. *Environ Health Perspect*. 2006;114:237-241.

Mitchell LE, Finnell RH, Whitehead AS. Etiology and prevention of spina bifida. In: David TJ ed. *Recent advances in Pediatrics*. Royal Society of Medicine Press Ltd. 2006.

Zhan FB, Brender JD, De Lima I, Suarez L, Langlois PH. Match rate and positional accuracy of two geocoding methods for epidemiologic research. *Ann Epidemiol*. 2006;16:842-849.

Zhan FB, Brender JD, Han Y, Suarez L, Langlois PH. Gis-epilink: a spatial search tool for linking environmental and health data. *J Med Syst*. 2006;30:405-412.

2005 (n=18)

Anderson JL, Waller DK, Canfield MA, Shaw GM, Watkins ML, Werler MM. Maternal obesity, gestational diabetes, and central nervous system birth defects. *Epidemiology (Cambridge, Mass.)*. 2005;16:87-92.

Blanton SH, Cortez A, Stal S, Mulliken JB, Finnell RH, Hecht JT. Variation in irf6 contributes to nonsyndromic cleft lip and palate. *Am J Med Genet A*. 2005;137A:259-262.

Canfield MA, Collins JS, Botto LD, Williams LJ, Mai CT, Kirby RS, Pearson K, Devine O, Mulinare J. Changes in the birth prevalence of selected birth defects after grain fortification with folic acid in the United States: findings from a multi-state population-based study. *Birth Defects Res A Clin Mol Teratol*. 2005;73:679-689.

Etheredge AJ, Christensen K, Del Junco D, Murray JC, Mitchell LE. Evaluation of two methods for assessing gene-environment interactions using data from the Danish case-control study of facial clefts. *Birth Defects Res A Clin Mol Teratol*. 2005;73:541-546.

Felkner M, Suarez L, Hendricks K, Larsen R. Implementation and outcomes of recommended folic acid supplementation in Mexican-American women with prior neural tube defect-affected pregnancies. *Prev Med.* 2005;40:867-871.

Felkner MM, Suarez L, Brender J, Scaife B, Hendricks K. Iron status indicators in women with prior neural tube defect-affected pregnancies. *Matern Child Health J.* 2005;9(4):421-428.

Gilboa SM, Mendola P, Olshan AF, Langlois PH, Savitz DA, Loomis D, Herring AH, Fixler DE. Relation between ambient air quality and selected birth defects, seven county study, Texas, 1997-2000. *Am J Epidemiol.* 2005;162(3):238-252.

Hashmi SS, Waller DK, Langlois P, Canfield MA, Hecht JT. Prevalence of nonsyndromic oral clefts in Texas: 1995-1999. *Am J Med Genet A.* 2005;134:368-372.

Heck AL, Bray MS, Scott A, Blanton SH, Hecht JT. Variation in CASP10 gene is associated with idiopathic talipes equinovarus. *J Pediatr Orthop.* 2005;25(5):598-602.

Jensen LE, Hoess K, Whitehead AS, Mitchell LE. The NAT1 C1095A polymorphism, maternal multivitamin use and smoking, and the risk of spina bifida. *Birth Defects Res A Clin Mol Teratol.* 2005;73:512-516.

Mason CA, Kirby RS, Sever LE, Langlois PH. Prevalence is the preferred measure of frequency of birth defects. *Birth Defects Res A Clin Mol Teratol.* 2005;73:690-692.

McBride KL, Marengo L, Canfield MA, Langlois P, Fixler D, Belmont JW. Epidemiology of noncomplex left ventricular outflow tract obstruction malformations (aortic valve stenosis, coarctation of the aorta, hypoplastic left heart syndrome) in Texas, 1999-2001. *Birth Defects Res A Clin Mol Teratol.* 2005;73:555-561.

Mitchell LE, Weinberg CR. Evaluation of offspring and maternal genetic effects on disease risk using a family-based approach: the "pent" design. *Am J Epidemiol.* 2005;162(7):676-685.

Mitchell LE. Epidemiology of neural tube defects. *Am J Med Genet C Semin Med Genet.* 2005;135C:88-94.

Moorthi RN, Hashmi SS, Langlois P, Canfield M, Waller DK, Hecht JT. Idiopathic talipes equinovarus (ITEV) (clubfeet) in Texas. *Am J Med Genet A.* 2005;132:376-380.

Scheuerle A, Heller K, Elder F. Complete trisomy 1q with mosaic Y;1 translocation: a recurrent aneuploidy presenting diagnostic dilemmas. *Am J Med Genet A.* 2005;138A:166-170.

Suarez L, Gilani Z, Felkner M, Brender J, Henry J, Hendricks K. Exposure to polychlorinated biphenyls and risk of neural tube defects in a Mexican American population. *Int J Occup Environ Health*. 2005;11(3):233-237.

Waller DK, Dawson TE. Relationship between maternal obesity and adverse pregnancy outcomes. *Nestle Nutr Workshop Ser Pediatr Program*. 2005;55:197-207; discussion 207-111.

2004 (n=14)

Brender JD, Olive JM, Felkner M, Suarez L, Marckwardt W, Hendricks KA. Dietary nitrites and nitrates, nitrosatable drugs, and neural tube defects. *Epidemiology*. 2004;15:330-336.

Brown KS, Cook M, Hoess K, Whitehead AS, Mitchell LE. Evidence that the risk of spina bifida is influenced by genetic variation at the NOS3 locus. *Birth Defects Res A Clin Mol Teratol*. 2004;70:101-106.

Jensen LE, Barbaux S, Hoess K, Fraterman S, Whitehead AS, Mitchell LE. The human T locus and spina bifida risk. *Hum Genet*. 2004;115:475-482.

Jensen LE, Wall AM, Cook M, Hoess K, Thorn CF, Whitehead AS, Mitchell LE. A common ABCC2 promoter polymorphism is not a determinant of the risk of spina bifida. *Birth Defects Res A Clin Mol Teratol*. 2004;70:396-399.

Johnson KM, Suarez L, Felkner MM, Hendricks K. Prevalence of craniorachischisis in a Texas-Mexico border population. *Birth Defects Res A Clin Mol Teratol*. 2004;70:92-94.

Langlois PH, Driggers D, Phelps A. Applying statistical methods to improve the efficiency of case finding clues in an active birth defects surveillance system. *J Registry Manag*. 2004;31(1):19-26.

Langlois PH. Statistical methods. In: Sever LE, ed. *Guidelines for conducting birth defects surveillance*. National Birth Defects Prevention Network; 2004:8-1-8-25.

Mitchell LE, Adzick NS, Melchionne J, Pasquariello PS, Sutton LN, Whitehead AS. Spina bifida. *Lancet*. 2004;364:1885-1895

Nuckols J, Langlois P, Lynberg M, Luben T. Linking geographic water utility data with study participant residences from the National Birth Defects Prevention Study. Denver, CO.: American Water Works Association Research Foundation. 2004.

Ramadhani TA, Canfield MA, Waller DK, Case AP. Medical records vs. interview responses: a comparative analysis of selected variables for linked birth defect cases. *Birth Defects Res A Clin Mol Teratol*. 2004;70:592-596.

Spiegelstein O, Mitchell LE, Merriweather MY, Wicker NJ, Zhang Q, Lammer EJ, Finnell RH. Embryonic development of folate binding protein-1 (Folbp1) knockout mice: effects of the chemical form, dose, and timing of maternal folate supplementation. *Dev Dyn*. 2004;231(1):221-231.

Suarez L, Felkner M, Hendricks K. The effect of fever, febrile illnesses, and heat exposures on the risk of neural tube defects in a Texas-Mexico border population. *Birth Defects Res A Clin Mol Teratol*. 2004;70:815-819.

Volcik K, Zhu H, Finnell RH, Shaw G, Canfield MA, Lammer EJ. Evaluation of the jumonji gene and risk for spina bifida and congenital heart defects. *Am J Med Genet*. 2004;126A:215-217.

Zhu H, Wicker NJ, Volcik K, Zhang J, Shaw GM, Lammer EJ, Suarez L, Canfield M, Finnell RH. Promoter haplotype combinations for the human PDGFRA gene are associated with risk of neural tube defects. *Mol Genet Metab*. 2004;81:127-132.

2003 (n=9)

Correa-Villasenor A, Satten GA, Rolka H, Langlois P, Devine O. Random error and undercounting in birth defects surveillance data: implications for inference. *Birth Defects Res A Clin Mol Teratol*. 2003;67:610-616.

Felkner M, Hendricks K, Suarez L, Waller DK. Diarrhea: a new risk factor for neural tube defects? *Birth Defects Res A Clin Mol Teratol*. 2003;67:504-508.

Suarez L, Cardarelli K, Hendricks K. Maternal stress, social support, and risk of neural tube defects among Mexican Americans. *Epidemiology (Cambridge, Mass.)*. 2003;14:612-616.

Suarez L, Hendricks K, Felkner M, Gunter E. Maternal serum B12 levels and risk for neural tube defects in the Texas-Mexico border population. *Ann Epidemiol*. 2003;13:81-88.

Volcik K, Zhu H, Finnell RH, Shaw G, Canfield MA, Lammer EJ. Evaluation of the Cited2 gene and risk for spina bifida and congenital heart defects. *Am J Med Genet*. 2003;126A:324-325.

Waller DK, Tita AT, Annegers JF. Rates of twinning before and after fortification of foods in the U.S. with folic acid, Texas, 1996 to 1998. *Paediatr Perinat Epidemiol*. 2003;17:378-383.

Waller DK, Tita AT, Werler MM, Mitchell AA. Association between prepregnancy maternal body mass index and the risk of having an infant with a congenital diaphragmatic hernia. *Birth Defects Res A Clin Mol Teratol*. 2003;67:73-76.

Zhu H, Junker WM, Finnell RH, Brown S, Shaw GM, Lammer EJ, Canfield MA, Hendricks K. Lack of association between ZIC2 and ZIC3 genes and the risk of neural tube defects (NTDs) in Hispanic populations. *Am J Med Genet.* 2003;116A:414-415.

Zhu H, Wicker NJ, Shaw GM, Lammer EJ, Hendricks K, Suarez L, Canfield MA, Finnell RH. Homocysteine remethylation enzyme polymorphisms and increased risks for neural tube defects. *Mol Genet Metab.* 2003;78:216-221.

2002 (n=10)

Barber RC, van W, Lammer EJ, Shaw GM, Rosenquist TH, Finnell RH. Folic acid and homocysteine as risk factors for neural tube defects. Massaro EJ, ed. *Folate and human development.* Totwa NY: Humana Press; 2002:165-182.

Brender JD, Suarez L, Hendricks KA, Baetz RA, Larsen R. Parental occupation and neural tube defect-affected pregnancies among Mexican Americans. *J Occup Environ Med.* 2002;44:650-656.

Canfield MA, Anderson JL, Waller DK, Palmer SE, Kaye CI. Folic acid awareness and use among women with a history of a neural tube defect pregnancy - Texas, 2000-2001. *MMWR Morb Mortal Wkly Rep.* 2002;51:16-19.

Ethen MK, Canfield MA. Impact of including elective pregnancy terminations before 20 weeks gestation on birth defect rates. *Teratology.* 2002;66 Suppl 1:S32-35.

Felkner MM, Suarez L, Hendricks KA, Gunter EW. Blood folate levels on the Texas-Mexico border. *Tex Med.* 2002;98:58-60.

Kirby RS, Canfield MA. Surveillance methods, public health applications, and epidemiologic research using population-based birth defects registries. *Teratology.* 2002;66:S1-S2.

Miles AM, Singer PC, Ashley DL, Lynberg MC, Mendola P, Langlois P, Nuckols JR. Comparison of trihalomethanes in tap water and blood. *Environ Sci Technol.* 2002;36:1692-1698.

Rasmussen SA, Lammer EJ, Shaw GM, Finnell RH, McGehee RE, Jr., Gallagher M, Romitti PA, Murray JC. Integration of DNA sample collection into a multi-site birth defects case-control study. *Teratology.* 2002;66:177-184.

Strahan JE, Canfield MA, Drummond-Borg LM, Neill SU. Ethnic and gender patterns for five congenital disorders in Texas from 1992 through 1998. *Tex Med.* 2002;98(9):80-86.

Waller DK, Keddie AM, Canfield MA, Scheuerle AE. Sex ratios in infants with congenital anomalies. *Teratology*. 2002;66:60.

2001 (n=6)

Hendricks KA, Nuno OM, Suarez L, Larsen R. Effects of hyperinsulinemia and obesity on risk of neural tube defects among Mexican Americans. *Epidemiology*. 2001;12:630-635.

Langlois PH, Lynberg M. Tap water disinfection by-products and birth defects. *Disease Prevention News*. 2001;61:1-4.

Lynberg M, Nuckols JR, Langlois P, Ashley D, Singer P, Mendola P, Wilkes C, Krapfl H, Miles E, Speight V, Lin B, Small L, Miles A, Bonin M, Zeitz P, Tadmok A, Henry J, Forrester MB. Assessing exposure to disinfection by-products in women of reproductive age living in Corpus Christi, Texas, and Cobb County, Georgia: descriptive results and methods. *Environ Health Perspect*. 2001;109(6):597-604.

Nembhard WN, Waller DK, Sever LE, Canfield MA. Patterns of first-year survival among infants with selected congenital anomalies in Texas, 1995-1997. *Teratology*. 2001;64:267-275.

Waller DK, Keddie AM, Canfield MA, Scheuerle AE. Do infants with major congenital anomalies have an excess of macrosomia? *Teratology*. 2001;64:311-317.

Yoon PW, Rasmussen SA, Lynberg MC, Moore CA, Anderka M, Carmichael SL, Costa P, Druschel C, Hobbs CA, Romitti PA, Langlois PH, Edmonds LD. The National Birth Defects Prevention Study. *Public Health Rep*. 2001;116 Suppl 1:32-40.

2000 (n=5)

Barber RC, Shalat S, Hendricks K, Joggerst B, Larsen R, Suarez L, Finnell R. Investigation of folate pathway gene polymorphisms and the incidence of neural tube defects in a Texas Hispanic population. *Mol Genet Metab*. 2000;70:45-52.

Forrester MB, Canfield MA. Evaluation of a system for linking birth defects registry records and vital records. *J Registry Manag*. 2000;27:93-97.

Hendricks KA, Larsen R, Suarez L. Neural tube defect surveillance and folic acid intervention-Texas-Mexico border, 1993-1998. *MMWR*. 2000;49:1-4.

Suarez L, Hendricks KA, Cooper SP, Sweeney AM, Hardy RJ, Larsen RD. Neural tube defects among Mexican Americans living on the US-Mexico border: effects of folic acid and dietary folate. *Am J Epidemiol*. 2000;152(11):1017-1023.

Waller DK, Pujazon MA, Canfield MA, Scheuerle AE, Byrne JL. Frequency of prenatal diagnosis of birth defects in Houston, Galveston and the lower Rio Grande Valley, Texas 1995. *Fetal Diagn Ther.* 2000;15:348-354.

1999 (n=3)

Barber RC, Lammer EJ, Shaw GM, Greer KA, Finnell RH. The role of folate transport and metabolism in neural tube defect risk. *Mol Genet Metab.* 1999;66:1-9.

Hendricks KA, Simpson JS, Larsen RD. Neural tube defects along the Texas-Mexico border, 1993-1995. *Am J Epidemiol.* 1999;149:1119-1127.

Hendricks KA. Fumonisin and neural tube defects in South Texas. *Epidemiology.* 1999;10(2):198-200.

1998 (n=1)

Finnell RH, Greer KA, Barber RC, Piedrahita JA. Neural tube and craniofacial defects with special emphasis on folate pathway genes. *Crit Rev Oral Biol Med.* 1998;9:38-53.