



DAFTAR PUSTAKA

Buku ajar kardiologi anak 2020. Available at: <https://lib.ui.ac.id> (Accessed: 30 July 2023).

Diagnostic Criteria and Classification of Hyperglycaemia First Detected in Pregnancy 2013.

Erratum: Obstetric Care Consensus No. 11: Pregnancy at Age 35 Years or Older (Obstet Gynecol (2022) 140 (348-366) DOI: 10.1097/AOG.0000000000004873) 2023. *Obstetrics and Gynecology*, 141(5):1030.

Weight Gain During Pregnancy COMMITTEE OPINION 2013. Available at: <http://www.nhlbisupport.com/bmi> (Accessed: 16 February 2023).

Agha, M.M., Glazier, R.H., Moineddin, R., Moore, A.M., Guttmann, A. 2011. Socioeconomic status and prevalence of congenital heart defects: does universal access to health care system eliminate the gap? *Birth Defects Res A Clin Mol Teratol*, 91(12):1011–1018.

Aly, S., Qattea, I., Kattea, M.O., Aly, H.Z. 2024. Neonatal outcomes in preterm infants with severe congenital heart disease: a national cohort analysis. *Front Pediatr*, 12:1326804.

Alyousif, S.M.M., Aldokhel, F.T., Alkhanbashi, O.K., Alqahtani, M.H.A., Aladawi, A.M.M., Ashmawi, A.A., Al-Qunaibet, A., Masuadi, E. 2021. The Incidence of Congenital Heart Defects in Offspring Among Women With Diabetes in Saudi Arabia. *Cureus* [Preprint].

Alzaim, M., Wood, R.J. 2013. Vitamin D and gestational diabetes mellitus. *Nutr Rev*, 158–167.

Ambia, A.M., Seasely, A.R., Macias, D.A., Nelson, D.B., Wells, C.E., McIntire, D.D., Cunningham, F.G. 2020. The impact of baseline proteinuria in pregnant women with pregestational diabetes mellitus. *Am J Obstet Gynecol MFM*, 2(1).

Arteaga, J., Luna, L., Mutchinick, O.M. 2008. *Diabetes, embarazo y defectos al nacimiento ARTÍCULO ORIGINAL. Revista de Investigación Clínica.*

Arul, A.S., Babu Kandha Kumar, A.S., Kiruthiga, K., Priya, M.K., Neveythaa, S.A. 2019. Spectrum of Cardiovascular Abnormalities in Infants Born to Diabetic Mother in a Tertiary Care Center. *Indian J Cardiovasc Dis Women WINCARS*, 04(03):124–128.



- Asoglu, M.R., Gabbay-Benziv, R., Turan, O.M., Turan, S. 2018. Exposure of the developing heart to diabetic environment and early cardiac assessment: A review. *Echocardiography*, 35(2):244–257.
- Auger, N., Fraser, W.D., Healy-Profítos, J., Arbour, L. 2015. Association Between Preeclampsia and Congenital Heart Defects. *JAMA*, 314(15):1588–1598.
- Balli, S., Pac, F.A., Ece, I., Oflaz, M.B., Kibar, A.E., Kandemir, Ö. 2014. Assessment of cardiac functions in fetuses of gestational diabetic mothers. *Pediatr Cardiol*, 35(1):30–37.
- Barbour, L.A., McCurdy, C.E., Hernandez, T.L., Kirwan, J.P., Catalano, P.M., Friedman, J.E. 2007. Cellular mechanisms for insulin resistance in normal pregnancy and gestational diabetes. *Diabetes Care*, 30 Suppl 2(SUPPL. 2).
- Barnes-Powell, L.L. 2007a. Infants of diabetic mothers: the effects of hyperglycemia on the fetus and neonate. *Neonatal Netw*, 26(5):283–290.
- Barnes-Powell, L.L. 2007b. Infants of diabetic mothers: the effects of hyperglycemia on the fetus and neonate. *Neonatal Netw*.
- Basu, M., Garg, V. 2018a. Maternal hyperglycemia and fetal cardiac development: Clinical impact and underlying mechanisms. *Birth Defects Res*.
- Basu, M., Garg, V. 2018b. Maternal hyperglycemia and fetal cardiac development: clinical impact and underlying mechanisms. *Birth Defects Res*, 110(20):1504.
- BE, M., SG, G., B, P., TA, B., PA, C., P, D., AR, D., Ad, L., M, H., JL, K., LP, L., HD, M., JJ, O., Y, O., MI, S. 2010. International association of diabetes and pregnancy study groups recommendations on the diagnosis and classification of hyperglycemia in pregnancy. *Diabetes Care*, 33(3):676–682.
- Begum, S., Dey, S.K., Fatema, K. 2018. Neonatal glycemc status of infants of diabetic mothers in a tertiary care hospital. *Indian J Endocrinol Metab*, 22(5).
- Best, K.E., Rankin, J. 2016a. Is advanced maternal age a risk factor for congenital heart disease? *Birth Defects Res A Clin Mol Teratol*, 106(6):461–467.
- Best, K.E., Rankin, J. 2016b. Is advanced maternal age a risk factor for congenital heart disease? *Birth Defects Res A Clin Mol Teratol*, 106(6):461–467.
- Best, K.E., Tennant, P.W.G., Rankin, J. 2017. Survival, by birth weight and gestational age, in individuals with congenital heart disease: A population-based study. *J Am Heart Assoc*, 6(7).



Biade, D.R., Wibowo, T., Wandita, S., Haksari, E.L., Julia Bagian Ilmu Kesehatan anak Fakultas Kedokteran Universitas Gadjah Mada, M., Sardjito, R., RBiade, D., Julia, M. 2016. *Faktor Risiko Hiperbilirubinemia pada Bayi Lahir dari Ibu Diabetes Melitus Risk Factors for Hyperbilirubinemia in Infants of Diabetic Mothers.*

Bogo, M.A., Pabis, J.S., Bonchoski, A.B., Santos, D.C. dos, Pinto, T.J.F., Simões, M.A., Silva, J.C., Pabis, F.C. 2021. Cardiomyopathy and cardiac function in fetuses and newborns of diabetic mothers. *J Pediatr (Rio J)*, 97(5):520–524.

De Boo, H.A., Harding, J.E. 2006. The developmental origins of adult disease (Barker) hypothesis. *Aust N Z J Obstet Gynaecol*, 46(1):4–14.

Bourbon, J.R., Farrell, P.M. 1985. Fetal lung development in the diabetic pregnancy. *Pediatr Res*, 19(3).

Bourry, J., Courteville, H., Ramdane, N., Drumez, E., Duhamel, A., Subtil, D., Deruelle, P., Vambergue, A. 2021. Progression of Diabetic Retinopathy and Predictors of Its Development and Progression During Pregnancy in Patients With Type 1 Diabetes: A Report of 499 Pregnancies. *Diabetes Care*, 44(1):181–187.

Bowman, C.J., Streck, R.D., Chapin, R.E. 2010. Maternal-placental insulin-like growth factor (IGF) signaling and its importance to normal embryo-fetal development. *Birth Defects Res B Dev Reprod Toxicol*, 89(4):339–349.

Boyd, H.A., Basit, S., Behrens, I., Leirgul, E., Bundgaard, H., Wohlfahrt, J., Melbye, M., Øyen, N. 2017. Association between Fetal Congenital Heart Defects and Maternal Risk of Hypertensive Disorders of Pregnancy in the Same Pregnancy and Across Pregnancies. *Circulation*, 136(1):39–48.

Brown, Z., Chang, J. 2018. Maternal Diabetes. *Avery's Diseases of the Newborn, Tenth Edition*, 90-103.e4.

Cade, W.T., Levy, P.T., Tinius, R.A., Patel, M.D., Choudhry, S., Holland, M.R., Singh, G.K., Cahill, A.G. 2017. Markers of maternal and infant metabolism are associated with ventricular dysfunction in infants of obese women with type 2 diabetes. *Pediatr Res*, 82(5):768–775.

Calvo, C., Capellini-Suárez, A., Hernandez, A. 2021. *Diabetic Fetopathy. Med Clin Res Open Access*. Available at: www.asrjs.com.

Canobbio, M.M., Warnes, C.A., Aboulhosn, J., Connolly, H.M., Khanna, A., Koos, B.J., Mital, S., Rose, C., Silversides, C., Stout, K. 2017. Management of Pregnancy in Patients With Complex Congenital Heart Disease: A Scientific Statement for



Healthcare Professionals From the American Heart Association. *Circulation*, 135(8):e50–e87.

Cardiovascular Problem In Infant of Diabetic Mother no date. Available at: <https://etd.repository.ugm.ac.id/penelitian/detail/223240> (Accessed: 26 November 2024).

Catalano, P.M. 2010. Obesity, insulin resistance, and pregnancy outcome. *Reproduction*, 140(3):365–371.

Caughey, A.B., Turrentine, M. 2018. ACOG Practice Bulletin No. 190: Gestational Diabetes Mellitus. *Obstetrics and gynecology*, 131(2):E49–E64.

Cedergren, M.I., Selbing, A.J., Källén, B.A.J. 2002. Risk factors for cardiovascular malformation--a study based on prospectively collected data. *Scand J Work Environ Health*, 28(1):12–17.

Cetin, H., Yalaz, M., Akisu, M., Kultursay, N. 2011. Polycythaemia in infants of diabetic mothers: β -hydroxybutyrate stimulates erythropoietic activity. *Journal of International Medical Research*, 39(3).

Chu, C., Gui, Y.H., Ren, Y.Y., Shi, L.Y. 2012. The impacts of maternal gestational diabetes mellitus (GDM) on fetal hearts. *Biomedical and Environmental Sciences*, 25(1):15–22.

Chu, S.Y., Callaghan, W.M., Kim, S.Y., Schmid, C.H., Lau, J., England, L.J., Dietz, P.M. 2007. Maternal obesity and risk of gestational diabetes mellitus. *Diabetes Care*, 30(8):2070–2076.

Cohen, E., Wong, F.Y., Horne, R.S.C., Yiallourou, S.R. 2016. Intrauterine growth restriction: impact on cardiovascular development and function throughout infancy. *Pediatric Research 2016 79:6*, 79(6):821–830.

Corrigan, N., Brazil, D.P., McAuliffe, F. 2009. Fetal cardiac effects of maternal hyperglycemia during pregnancy. *Birth Defects Res A Clin Mol Teratol*, 85(6):523–530.

Cunningham, F.G., Leveno, K.J., Dashe, J.S., Hoffman, B.L., Spong, C.Y., Casey, B.M. 2022. *Williams obstetrics*, 26.

David Ashok, A., Professor, F., Author, C. 2018. Large and Small-for-Gestational-Age (LGA and SGA) Babies born to Mothers with Pre-Pregnancy/Gestational Diabetes Mellitus (PPDM/GDM) Vs. No-DM. *ACTA SCIENTIFIC PAEDIATRICALS*, 1.



Demarini, S., Mimouni, F., Tsang, R.C., Khoury, J., Hertzberg, V. 1994. Impact of metabolic control of diabetes during pregnancy on neonatal hypocalcemia: A randomized study. *Obstetrics and Gynecology*, 83(6).

Depla, A.L., Wit, L. DE, Steenhuis, T.J., Slieker, M.G., Voormolen, D.N., Scheffer, P.G., Heus, R. DE, Van Rijn, B.B., Bekker, M.N. 2021. Effect of maternal diabetes on fetal heart function on echocardiography: systematic review and meta-analysis. *Ultrasound Obstet Gynecol*, 57:539–550.

Diller, G.-P., Qu, P., Garg, A., Zhou, Y., Yan, H., Zhai, B., Feng, R., Wang, P., Zhang, Y., Wang, Y., Hou, Y. 2022. Prevalence of Congenital Heart Disease in Chinese Children With Different Birth Weights and Its Relationship to the Neonatal Birth Weight.

Dong, M., Zheng, Q., Ford, S.P., Nathanielsz, P.W., Ren, J. 2013. Maternal obesity, lipotoxicity and cardiovascular diseases in offspring. *J Mol Cell Cardiol*, 55(1):111–116.

Ece, I., Uner, A., Balli, S., Kibar, A.E., Oflaz, M.B., Kurdoglu, M. 2014. The effects of pre-pregnancy obesity on fetal cardiac functions. *Pediatr Cardiol*, 35(5):838–843.

Eidelman, A.I., Samueloff, A. 2002. The pathophysiology of the fetus of the diabetic mother. *Semin Perinatol*, 26(3):232–236.

El-Ganzoury, M.M., El-Masry, S.A., El-Farrash, R.A., Anwar, M., Abd Ellatife, R.Z. 2012. Infants of diabetic mothers: Echocardiographic measurements and cord blood IGF-I and IGFBP-1. *Pediatr Diabetes*, 13(2):189–196.

Evans, W.N., Acherman, R.J., Restrepo, H. 2021. Advanced maternal age and critical congenital cardiac malformations in Nevada. *Prog Pediatr Cardiol*, 62:101385.

Figuroa, H., Silva, M.C., Kottmann, C., Viguera, S., Valenzuela, I., Hernandez-Andrade, E., Gratacos, E., Arraztoa, J.A., Illanes, S.E. 2012. Fetal evaluation of the modified-myocardial performance index in pregnancies complicated by diabetes. *Prenat Diagn*, 32(10):943–948.

Firouzi, M., Sherkatolabbasieh, H., Nezami, A., Shafizadeh, S. 2021. Congenital Heart Disease in Non-Diabetic Large-for-Gestational-Age (LGA) Neonates. *Cardiovascular & Hematological Disorders-Drug Targets*, 21(1):55–60.



Gaillard, R., Felix, J.F., Duijts, L., Jaddoe, V.W.V. 2014. Childhood consequences of maternal obesity and excessive weight gain during pregnancy. *Acta Obstet Gynecol Scand*, 93(11):1085–1089.

George, R.M., Maldonado-Velez, G., Firulli, A.B. 2021. The heart of the neural crest: Cardiac neural crest cells in development and regeneration. *Development (Cambridge)*, 147(20).

Giraldo-Grueso, M., Zarante, I., Mejía-Grueso, A., Gracia, G. 2020. Risk factors for congenital heart disease: A case-control study. *Revista Colombiana de Cardiologia*, 27(4):324–329.

Godfrey, M., Schimmel, M.S., Hammerman, C., Farber, B., Glaser, J., Nir, A. 2010. The incidence of congenital heart defects in very low birth weight and extremely low birth weight infants. *Isr Med Assoc J*, 12(1):36–38. Available at: <https://pubmed.ncbi.nlm.nih.gov/20450127/> (Accessed: 20 October 2024).

Gutierrez, J.C., Hrubec, T.C., Prater, M.R., Smith, B.J., Freeman, L.E., Holladay, S.D. 2007. Aortic and ventricular dilation and myocardial reduction in gestation day 17 ICR mouse fetuses of diabetic mothers. *Birth Defects Res A Clin Mol Teratol*, 79(6):459–464.

Van Hagen, I.M., Roos-Hesselink, J.W. 2020. Pregnancy in congenital heart disease: risk prediction and counselling. *Heart*, 106(23):1853–1861.

Haksari, E.L., Lafeber, H.N., Hakimi, M., Pawirohartono, E.P., Nyström, L. 2016. Reference curves of birth weight, length, and head circumference for gestational ages in Yogyakarta, Indonesia. *BMC Pediatr*, 16(1).

den Harink, T.I., M Roelofs, M.J., Limpens, J.I., Painter, R.C., Roseboom, T.J., van Deutekom, A.W. 2022. Maternal obesity in pregnancy and children's cardiac function and structure: A systematic review and meta-analysis of evidence from human studies.

Hedermann, G., Hedley, P.L., Gadsbøll, K., Thagaard, I.N., Krebs, L., Hagen, C.M., Sørensen, T.I.A., Christiansen, M., Ekelund, C.K. 2024. Maternal obesity, interpregnancy weight changes and congenital heart defects in the offspring: a nationwide cohort study. *OPEN Epidemiology and Population Health International Journal of Obesity*, 48.

Hoffman, J.I.E. 2013. The global burden of congenital heart disease. *Cardiovasc J Afr*.



Hotamisligil, G.S., Murray, D.L., Choy, L.N., Spiegelman, B.M. 1994. Tumor necrosis factor α inhibits signaling from the insulin receptor. *Proc Natl Acad Sci U S A*, 91(11):4854–4858.

Hotamisligil, G.S., Peraldi, P., Budavari, A., Ellis, R., White, M.F., Spiegelman, B.M. 1996. IRS-1-mediated inhibition of insulin receptor tyrosine kinase activity in TNF- α - and obesity-induced insulin resistance. *Science (1979)*, 271(5249):665–668.

Hugill, K., Meredith, D. 2017. The road to life. Neonatal transitions to extra-uterine life. *Practising Midwife*, 20(6).

Hunter, D.J.S., Burrows, R.F., Mohide, P.T., Whyte, R.K. 1993. Influence of maternal insulin-dependent diabetes mellitus on neonatal morbidity. *CMAJ*, 149(1).

IDF Diabetes Atlas 10th edition no date. Available at: www.diabetesatlas.org.

Jarmuzek, P., Wielgos, M., Bomba-Opon, D.A. 2015. Placental pathologic changes in gestational diabetes mellitus. *Neuroendocrinology Letters*.

Jones, K.L. 2007. Smith's recognizable patterns of human malformation, 6th edition. *Arch Dis Child*. Edited by T. Hummel and Kim J. Davis, 92(6):562. Available at: [/pmc/articles/PMC2066177/](https://pubmed.ncbi.nlm.nih.gov/2066177/) (Accessed: 17 July 2023).

Jovanovic-Peterson, L., Peterson, C.M., Reed, G.F., Metzger, B.E., Mills, J.L., Knopp, R.H., Aarons, J.H., the National Institute of Child Health. 1991. Maternal postprandial glucose levels and infant birth weight: the Diabetes in Early Pregnancy Study. The National Institute of Child Health and Human Development--Diabetes in Early Pregnancy Study. *Am J Obstet Gynecol*, 164(1 Pt 1):103–111.

Kc, K., Shakya, S., Zhang, H. 2015. Gestational diabetes mellitus and macrosomia: A literature review. *Ann Nutr Metab*. S. Karger AG, 14–20.

Kim, S.Y., Sharma, A.J., Sappenfield, W., Wilson, H.G., Salihu, H.M. 2014. Association of maternal body mass index, excessive weight gain, and gestational diabetes mellitus with large-for-gestational-age births. *Obstetrics and gynecology*, 123(4):737–744.

Kitzmilller, J.L. 1993. Sweet success with diabetes: The development of insulin therapy and glycemic control for pregnancy. *Diabetes Care*.

Lateef, R.H. 2015. Adverse effects of gestational diabetes mellitus (GDM) on measurements of the umbilical cord and its vessels. *Pakistan Journal of Biological Sciences*, 18(7).



Lemaitre, M., Bourdon, G., Bruandet, A., Lenne, X., Subtil, D., Rakza, T., Vambergue, A. 2023. Pre-gestational diabetes and the risk of congenital heart defects in the offspring: A French nationwide study. *Diabetes Metab*, 49(4):101446.

Lin, P.C., Hung, C.H., Chan, T.F., Lin, K.C., Hsu, Y.Y., Ya-Ling Tzeng. 2016. The risk factors for gestational diabetes mellitus: A retrospective study. *Midwifery*, 42.

Lisowski, L.A., Verheijen, P.M., Copel, J.A., Kleinman, C.S., Wassink, S., Visser, G.H.A., Meijboom, E.J. 2010a. Congenital heart disease in pregnancies complicated by maternal diabetes mellitus. An international clinical collaboration, literature review, and meta-analysis. *Herz*, 35(1):19–26.

Lisowski, L.A., Verheijen, P.M., Copel, J.A., Kleinman, C.S., Wassink, S., Visser, G.H.A., Meijboom, E.J. 2010b. Congenital heart disease in pregnancies complicated by maternal diabetes mellitus: An international clinical collaboration, literature review, and meta-analysis. *Herz*, 35(1).

Liu, S., Joseph, K.S., Lisonkova, S., Rouleau, J., Van Den Hof, M., Sauve, R., Kramer, M.S. 2013. Association between maternal chronic conditions and congenital heart defects: A population-based cohort study. *Circulation*, 128(6):583–589.

Liu, Y., Chen, S., Zühlke, L., Black, G.C., Choy, M.K., Li, N., Keavney, B.D. 2019. Global birth prevalence of congenital heart defects 1970-2017: Updated systematic review and meta-analysis of 260 studies. *Int J Epidemiol*, 48(2).

Lucía Sánchez-Martínez, K., Fernando Oseguera-Torres, L., Avalos-Nuño, J. 2016. Relación entre el nivel de hemoglobina glucosilada materna y cardiomiopatía hipertrófica fetal. *Rev Med Inst Mex Seguro Soc.*, 54(Suppl. 3).

Lynch, C.M., Sexton, D.J., Hession, M., Morrison, J.J. 2008. Obesity and mode of delivery in primigravid and multigravid women. *Am J Perinatol*, 25(3):163–167.

Mamasoula, C., Bigirimurame, | Theophile, Chadwick, T., Addor, M.-C., Cavero-Carbonell, C., Carlos, |, Dias, M., Echevarría-González, | Luis-Javier, Gatt, M., Khoshnood, B., Klungsoyr, K., Randall, K., Pennington, L., Rankin, J. 2023. Maternal age and the prevalence of congenital heart defects in Europe, 1995-2015: A register-based study.

Mammaro, A., Carrara, S., Cavaliere, A., Ermito, S., Dinatale, A., Pappalardo, E.M., Militello, M., Pedata, R., Cacciatore, A. 2009. Hypertensive Disorders of



Pregnancy. *J Prenat Med*, 3(1):1. Available at: [/pmc/articles/PMC3279097/](https://pubmed.ncbi.nlm.nih.gov/3279097/) (Accessed: 15 January 2024).

McMahon, C.L., Braddock, S.R. 2001. Maternal diabetes: An independent risk factor for major cardiovascular malformations with increased mortality of affected infants. *Teratology*, 64(2).

Miranda, J.O., Cerqueira, R.J., Ramalho, C., Areias, J.C., Henriques-Coelho, T. 2018. Fetal Cardiac Function in Maternal Diabetes: A Conventional and Speckle-Tracking Echocardiographic Study. *J Am Soc Echocardiogr*, 31(3):333–341.

Moore Editor, L.E. 2018. *Diabetes in Pregnancy The Complete Guide to Management*.

Myatt, L., Maloyan, A. 2016. Obesity and Placental Function. *Semin Reprod Med*, 34(1):42–49.

Nold, Joan L, Georgieff, M.K. 2004. Infants of diabetic mothers. *Pediatr Clin North Am*, 51(3):619–637.

Nold, Joan L., Georgieff, M.K. 2004. Infants of diabetic mothers. *Pediatr Clin North Am*, 51(3):619–637.

Nora, J.J. 1994. From generational studies to a multilevel genetic-environmental interaction. *J Am Coll Cardiol*, 23(6):1468–1471.

Opara, P.I., Jaja, T., Onubogu, U.C. 2010. Morbidity and mortality amongst infants of diabetic mothers admitted into a special care baby unit in Port Harcourt, Nigeria. *Ital J Pediatr*, 36(1).

Ornoy, A., Rand, S.B., Bischitz, N. 2010. Hyperglycemia and hypoxia are interrelated in their teratogenic mechanism: studies on cultured rat embryos. *Birth Defects Res B Dev Reprod Toxicol*, 89(2):106–115.

Øyen, N., Boyd, H.A., Carstensen, L., Søndergaard, L., Wohlfahrt, J., Melbye, M. 2022. Risk of Congenital Heart Defects in Offspring of Affected Mothers and Fathers. *Circ Genom Precis Med*, 15(4):E003533.

Palma, A., Morais, S., Silva, P. V., Pires, A. 2023. Congenital heart defects and preterm birth: Outcomes from a referral center. *Revista Portuguesa de Cardiologia*, 42(5):403–410.

PB PERKENI. no date. Pedomani Diagnosis dan Penatalaksanaan Hiperglikemia dalam Kehamilan.



- Persson, M., Razaz, N., Bonamy, A.-K.E., Villamor, E., Cnattingius, S. 2019a. Maternal Overweight and Obesity and Risk of Congenital Heart Defects.
- Persson, M., Razaz, N., Bonamy, A.-K.E., Villamor, E., Cnattingius, S. 2019b. Maternal Overweight and Obesity and Risk of Congenital Heart Defects.
- Rajdl, D., Racek, J., Steinerová, A., Novotný, Z., Stožický, F., Trefil, L., Siala, K. 2005. Markers of oxidative stress in diabetic mothers and their infants during delivery. *Physiol Res*, 54(4).
- Ramakrishnan, A., Lee, L.J., Mitchell, L.E., Agopian, A.J. 2015. Maternal Hypertension During Pregnancy and the Risk of Congenital Heart Defects in Offspring: A Systematic Review and Meta-analysis. *Pediatr Cardiol*, 36(7):1442.
- Reutens, A.T. 2013. Epidemiology of diabetic kidney disease. *Med Clin North Am*, 97(1):1–18.
- Ryan, E.A., Enns, L. 1988. Role of Gestational Hormones in the Induction of Insulin Resistance. *Journal of Clinical Endocrinology and Metabolism*, 67(2):341–347.
- Saben, J., Lindsey, F., Zhong, Y., Thakali, K., Badger, T.M., Andres, A., Gomez-Acevedo, H., Shankar, K. 2014. Maternal obesity is associated with a lipotoxic placental environment. *Placenta*, 35(3):171–177.
- Salbaum, J.M., Kappen, C. 2011. Diabetic embryopathy: a role for the epigenome? *Birth Defects Res A Clin Mol Teratol*, 91(8):770–780.
- Sanapo, L., Donofrio, M.T., Ahmadzia, H.K., Gimovsky, A.C., Mohamed, M.A. 2020a. The association of maternal hypertensive disorders with neonatal congenital heart disease: analysis of a United States cohort. *J Perinatol*, 40(11):1617–1624.
- Sanapo, L., Donofrio, M.T., Ahmadzia, H.K., Gimovsky, A.C., Mohamed, M.A. 2020b. The association of maternal hypertensive disorders with neonatal congenital heart disease: analysis of a United States cohort. *Journal of Perinatology* 2020 40:11, 40(11):1617–1624.
- Sanhal, C.Y., Daglar, H.K., Kara, O., Uygur, D., Yucel, A. 2017. Assessment of fetal myocardial performance index in women with pregestational and gestational diabetes mellitus. *Journal of Obstetrics and Gynaecology Research*, 43(1):65–72.
- Sara T Hashim, Jr., Alamri, R.A., Bakraa, R., Rawas, R., Farahat, F., Waggass, R. 2020. The Association Between Maternal Age and the Prevalence of Congenital



Heart Disease in Newborns from 2016 to 2018 in Single Cardiac Center in Jeddah, Saudi Arabia. *Cureus*, 12(3).

Sardesai, M.G., Gray, A.A., McGrath, M.M.J., Ford, S.E. 2001. Fatal hypertrophic cardiomyopathy in the fetus of a woman with diabetes. *Obstetrics and Gynecology*, 98(5).

Schaefer, U.M., Songster, G., Xiang, A., Berkowitz, K., Buchanan, T.A., Kjos, S.L. 1997. Congenital malformations in offspring of women with hyperglycemia first detected during pregnancy. *Am J Obstet Gynecol*, 177(5):1165–1171.

Simán, C.M., Gittenberger-De Groot, A.C., Wisse, B., Eriksson, U.J. 2000. Malformations in offspring of diabetic rats: Morphometric analysis of neural crest-derived organs and effects of maternal vitamin E treatment. *Teratology*, 61(5).

Steurer, M.A., Baer, R.J., Keller, R.L., Oltman, S., Chambers, C.D., Norton, M.E., Peyvandi, S., Rand, L., Rajagopal, S., Ryckman, K.K., Moon-Grady, A.J., Jelliffe-Pawlowski, L.L. 2017. Gestational age and outcomes in critical congenital heart disease. *Pediatrics*, 140(4).

Steurer, M.A., Baer, R.J., Burke, E., Peyvandi, S., Oltman, S., Chambers, C.D., Norton, M.E., Rand, L., Rajagopal, S., Ryckman, K.K., Feuer, S.K., Liang, L., Paynter, R.A., McCarthy, M., Moon-Grady, A.J., Keller, R.L., Jelliffe-Pawlowski, L.L. 2018. Effect of fetal growth on 1-year mortality in neonates with critical congenital heart disease. *J Am Heart Assoc*, 7(17).

Stewart, F.M., Freeman, D.J., Ramsay, J.E., Greer, I.A., Caslake, M., Ferrell, W.R. 2007. Longitudinal Assessment of Maternal Endothelial Function and Markers of Inflammation and Placental Function throughout Pregnancy in Lean and Obese Mothers. *J Clin Endocrinol Metab*, 92(3):969–975.

Tabib, A., Shirzad, N., Sheikhabaei, S., Mohammadi, S., Qorbani, M., Haghpanah, V., Abbasi, F., Hasani-Ranjbar, S., Baghaei-Tehrani, R. 2013a. Cardiac malformations in fetuses of gestational and pre gestational diabetic mothers. *Iran J Pediatr*, 23(6).

Tabib, A., Shirzad, N., Sheikhabaei, S., Mohammadi, S., Qorbani, M., Haghpanah, V., Abbasi, F., Hasani-Ranjbar, S., Baghaei-Tehrani, R. 2013b. Cardiac Malformations in Fetuses of Gestational and Pre Gestational Diabetic Mothers. *Iran J Pediatr*, 23(6):664–668. Available at: <http://ijp.tums.ac.ir> (Accessed: 30 July 2023).



Taylor, K., Elhakeem, A., Lucia, J., Nader, T., Yang, T.C., Isaevska, E., Richiardi, L., Vrijkotte, T., Pinot De Moira, A., Murray, D.M., Finn, D., Mason, D., Wright, J., Oddie, S., Roeleveld, N., Harris, J.R., Andersen, A.-M.N., Caputo, M., Lawlor, D.A. 2021. Effect of Maternal Prepregnancy/Early-Pregnancy Body Mass Index and Pregnancy Smoking and Alcohol on Congenital Heart Diseases: A Parental Negative Control Study.

Temple, R.C., Aldridge, V.J., Murphy, H.R. 2006. Prepregnancy care and pregnancy outcomes in women with type 1 diabetes. *Diabetes Care*, 29(8):1744–1749.

Thorne, S., MacGregor, A., Heart, C.N.-P.-, 2006, undefined. no date. Risks of contraception and pregnancy in heart disease. *heart.bmj.com* S Thorne, A MacGregor, C Nelson-PiercyHeart, 2006•*heart.bmj.com* [Preprint]. Available at: <https://heart.bmj.com/content/92/10/1520.short> (Accessed: 18 July 2023).

Tsang, R.C., Kleinman, L.I., Sutherland, J.M., Light, I.J. 1972. Hypocalcemia in infants of diabetic mothers. Studies in calcium, phosphorus, and magnesium metabolism and parathormone responsiveness. *J Pediatr*, 80(3).

Turunen, R., Pulakka, A., Metsälä, J., Vahlberg, T., Ojala, T., Gissler, M., Kajantie, E., Helle, E. 2024. Maternal Diabetes and Overweight and Congenital Heart Defects in Offspring Key Points + Supplemental content. *JAMA Netw Open*, 7(1):2350579.

Uebing, A., Steer, P.J., Yentis, S.M., Gatzoulis, M.A. 2006. Pregnancy and congenital heart disease. *Br Med J*, 332(7538):401–406.

Vuralli, D. 2019. Clinical Approach to Hypocalcemia in Newborn Period and Infancy: Who Should Be Treated?

Wallenstein, M.B., Harper, L.M., Odibo, A.O., Roehl, K.A., Longman, R.E., MacOnes, G.A., Cahill, A.G. 2012. Fetal congenital heart disease and intrauterine growth restriction: a retrospective cohort study. *The Journal of Maternal-Fetal & Neonatal Medicine*, 25(6):662–665.

Warnes, C.A., Liberthson, R., Danielson, G.K., Dore, A., Harris, L., Hoffman, J.I., Somerville, J., Williams, R.G., Webb, G.D. 2001. Task Force 1: the changing profile of congenital heart disease in adult life. *J Am Coll Cardiol*, 37(5):1170–1175.

Wei, D., Loeken, M.R. 2014. Increased DNA Methyltransferase 3b (Dnmt3b)-Mediated CpG Island Methylation Stimulated by Oxidative Stress Inhibits



Expression of a Gene Required for Neural Tube and Neural Crest Development in Diabetic Pregnancy. *Diabetes*, 63(10):3512–3522.

WHO Global Report. 2016. Global Report on Diabetes. *Isbn*, 978:11. Available at: http://www.who.int/about/licensing/copyright_form/index.htmlhttp://www.who.int/about/licensing/copyright_form/index.html<https://apps.who.int/iris/handle/10665/204871><http://www.who.int> (Accessed: 27 July 2023).

Widyaputri, F., Lim, L.L., Utami, T.P., Harti, A.P., Agni, A.N., Nurdiati, D.S., Widayanti, T.W., Supanji, Wardhana, F.S., Prayogo, M.E., Sasongko, M.B. 2022. Prevalence of diabetes in pregnancy and microvascular complications in native Indonesian women: The Jogjakarta diabetic retinopathy initiatives in pregnancy (Jog-DRIP). *PLoS One*, 17(6).

Williams1, A.F. 1997. Reviews / Analyses Hypoglycaemia of the newborn: a review*.

Wren, C., Birrell, G., Hawthorne, G. 2003. Cardiovascular malformations in infants of diabetic mothers. *Heart*, 89(10).

Wu, L., Li, N., Liu, Y. 2023. Association Between Maternal Factors and Risk of Congenital Heart Disease in Offspring: A Systematic Review and Meta-Analysis. *Matern Child Health J*, 27:29–48.

Xu, H., Simonet, F., Luo, Z.C. 2010. Optimal birth weight percentile cut-offs in defining small- or large-for-gestational-age. *Acta Paediatr*, 99(4):550–555.

Yang, J., Cummings, E.A., O’Connell, C., Jangaard, K. 2006. Fetal and neonatal outcomes of diabetic pregnancies. *Obstetrics and gynecology*, 108(3 Pt 1):644–650.