

Cell-free DNA Prenatal Screening for Chromosomal Aneuploidies

Appendix H: Excluded Studies

October 22, 2019

Health Technology Assessment Program (HTA)

Washington State Health Care Authority

PO Box 42712

Olympia, WA 98504-2712

(360) 725-5126

www.hca.wa.gov/hta

shtap@hca.wa.gov

Cell-free DNA Prenatal Screening for Chromosomal Aneuploidies

Draft Evidence Report

Prepared by:

Center for Evidence-based Policy
Oregon Health & Science University
3030 SW Moody, Suite 250
Portland, OR 97201
Phone: 503.494.2182
Fax: 503.494.3807

<http://centerforevidencebasedpolicy.org/>



Authors:

Beth Shaw, MSc,
Valerie King, MD, MPH,
Shannon Robalino MSc,
Michelle Eide,
Curtis Harrod, PhD, MPH

The authors would like to acknowledge Alison Adams Martinez, and the independent peer reviewers for their contributions to this report.

Appendix H. Excluded Studies

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Corrigenda: Non-invasive prenatal testing for aneuploidy and beyond: Challenges of responsible innovation in prenatal screening (European Journal of Human Genetics (2015) 23 (1438-1450) DOI: 10.1038/ejhg.2015.57). <i>European Journal of Human Genetics</i> . 2015. 23:1592 | Not relevant publication type |
| Ainsworth, A. J., Holman, M. A., Codsí, E., Wick, M.. Use of Genetic Testing after Abnormal Screening Ultrasound: A Descriptive Cohort Study. <i>Gynecologic & Obstetric Investigation</i> . 2018. 83:466-470 | Not appropriate population |
| Al-Alfy, M. E., El-Noury, M. A., Azmy, O. M., Bebars, M. A., Alsharnoubi, G., Dawood, R. M., Nagy, O. A., Ibrahim, A. K.. Molecular detection of CFFDNA for early laboratory diagnosis of X linked disorders carriers. <i>Middle East Fertility Society Journal</i> . 2017. 22:260-263 | Not appropriate setting or country |
| Alberti, A., Salomon, L. J., Le Lorc'h, M., Couloux, A., Bussières, L., Goupil, S., Malan, V., Pelletier, E., Hyon, C., Vialard, F., Rozenberg, P., Bouhanna, P., Oury, J. F., Schmitz, T., Romana, S., Weissenbach, J., Vekemans, M., Ville, Y.. Non-invasive prenatal testing for trisomy 21 based on analysis of cell-free fetal DNA circulating in the maternal plasma. <i>Prenatal Diagnosis</i> . 2015. 35:471-6 | Not appropriate population |
| Allach El Khattabi, L., Brun, S., Gueguen, P., Chatron, N., Guichoux, E., Schutz, S., Nectoux, J., Sorlin, A., Quere, M., Boudjarane, J., Tsatsaris, V., Mandelbrot, L., Schluth-Bolard, C., Dupont, J. M., Rooryck, C., H. Consortium. Performance of Semiconductor sequencing platform for non-invasive prenatal genetic screening for fetal aneuploidies: results from a multicenter prospective cohort study in a clinical setting. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 06:06 | Not appropriate population |
| Aldred, S. K., Deeks, J. J., Guo, B., Neilson, J. P., Alfirevic, Z.. Second trimester serum tests for Down's Syndrome screening. <i>Cochrane Database of Systematic Reviews</i> . 2012. #volume#:CD009925 | Not intervention or test of interest |
| Aldred, S. K., Takwoingi, Y., Guo, B., Pennant, M., Deeks, J. J., Neilson, J. P., Alfirevic, Z.. First trimester serum tests for Down's syndrome screening. <i>Cochrane Database of Systematic Reviews</i> . 2015. #volume#: #pages# | Not intervention or test of interest |
| Amorim Costa, C.. Non-invasive prenatal screening for chromosomal abnormalities using circulating cell-free fetal DNA in maternal plasma: Current applications, limitations and prospects. <i>Egyptian Journal of Medical Human Genetics</i> . 2017. 18:1-7 | Not relevant publication type |
| An, N., Li, L. L., Wang, R. X., Li, L. L., Yue, J. M., Liu, R. Z.. Clinical and cytogenetic results of a series of amniocentesis cases from Northeast China: a report of 2500 cases. <i>Genetics & Molecular Research</i> . 2015. 14:15660-7 | Not appropriate setting or country |
| Andrew, C., Koshy, T., Gopal, S., Paul, S. F. D.. A retrospective exploratory study of fetal genetic invasive procedures at a University Hospital. <i>Journal of Obstetrics & Gynaecology</i> . 2018. 38:906-910 | Not appropriate setting or country |
| Anonymous, . Committee Opinion No. 640: Cell-Free DNA Screening For Fetal Aneuploidy. <i>Obstetrics & Gynecology</i> . 2015. 126:e31-7 | Other - withdrawn guidance |
| Anonymous, . Committee Opinion Summary No. 640: Cell-Free DNA Screening For Fetal Aneuploidy. <i>Obstetrics & Gynecology</i> . 2015. 126:691-2 | Other - withdrawn guidance |
| Arbabi, A., Rampasek, L., Brudno, M.. Cell-free DNA fragment-size distribution analysis for non-invasive prenatal CNV prediction. <i>Bioinformatics</i> . 2016. 32:1662-9 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Artieri, C. G., Haverty, C., Evans, E. A., Goldberg, J. D., Haque, I. S., Yaron, Y., Muzzey, D.. Noninvasive prenatal screening at low fetal fraction: comparing whole-genome sequencing and single-nucleotide polymorphism methods. <i>Prenatal Diagnosis</i> . 2017. 37:482-490 | Not intervention or test of interest |
| Ashoor, G., Poon, L., Syngelaki, A., Mosimann, B., Nicolaides, K. H.. Fetal fraction in maternal plasma cell-free DNA at 11-13 weeks' gestation: effect of maternal and fetal factors. <i>Fetal Diagnosis & Therapy</i> . 2012. 31:237-43 | Not appropriate population |
| Ashoor, G., Syngelaki, A., Poon, L. C., Rezende, J. C., Nicolaides, K. H.. Fetal fraction in maternal plasma cell-free DNA at 11-13 weeks' gestation: relation to maternal and fetal characteristics. <i>Ultrasound in Obstetrics & Gynecology</i> . 2013. 41:26-32 | Not outcomes of interest |
| Ashoor, G., Syngelaki, A., Wagner, M., Birdir, C., Nicolaides, K. H.. Chromosome-selective sequencing of maternal plasma cell-free DNA for first-trimester detection of trisomy 21 and trisomy 18. <i>American Journal of Obstetrics & Gynecology</i> . 2012. 206:322.e1-5 | Not appropriate population |
| Ayres, A. C., Whitty, J. A., Ellwood, D. A.. A cost-effectiveness analysis comparing different strategies to implement noninvasive prenatal testing into a Down syndrome screening program. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2014. 54:412-7 | Not appropriate setting or country |
| Badeau, M., Lindsay, C., Blais, J., Takwoingi, Y., Langlois, S., Légaré, F., Giguère, Y., Turgeon, A. F., Witteman, W., Rousseau, F.. Genomics-based non-invasive prenatal testing for detection of fetal chromosomal aneuploidy in pregnant women. <i>Cochrane Database of Systematic Reviews</i> . 2015. 2015:#pages# | Not relevant publication type |
| Baer, R. J., Currier, R. J., Norton, M. E., Flessel, M. C., Goldman, S., Towner, D., Jelliffe-Pawlowski, L. L.. Obstetric, perinatal, and fetal outcomes in pregnancies with false-positive integrated screening results. <i>Obstetrics & Gynecology</i> . 2014. 123:603-9 | Not intervention or test of interest |
| Baer, R. J., Currier, R. J., Norton, M. E., Flessel, M. C., Goldman, S., Towner, D., Jelliffe-Pawlowski, L. L.. Outcomes of pregnancies with more than one positive prenatal screening result in the first or second trimester. <i>Prenatal Diagnosis</i> . 2015. 35:1223-31 | Not appropriate population |
| Baer, R. J., Flessel, M. C., Jelliffe-Pawlowski, L. L., Goldman, S., Hudgins, L., Hull, A. D., Norton, M. E., Currier, R. J.. Detection Rates for Aneuploidy by First-Trimester and Sequential Screening. <i>Obstetrics & Gynecology</i> . 2015. 126:753-9 | Not intervention or test of interest |
| Balslev-Harder, M., Richter, S. R., Kjaergaard, S., Johansen, P.. Correlation between Z score, fetal fraction, and sequencing reads in non-invasive prenatal testing. <i>Prenatal Diagnosis</i> . 2017. 37:943-945 | Not intervention or test of interest |
| Barrett, A. N., Xiong, L., Tan, T. Z., Advani, H. V., Hua, R., Laureano-Asibal, C., Soong, R., Biswas, A., Nagarajan, N., Choolani, M.. Measurement of fetal fraction in cell-free DNA from maternal plasma using a panel of insertion/deletion polymorphisms. <i>PLoS ONE [Electronic Resource]</i> . 2017. 12:e0186771 | Not intervention or test of interest |
| Barrinquer, S. N., Sandlin, A. T., Magann, E. F.. Non-Invasive Prenatal Testing (NIPT) in Arkansas: Prenatal Genetics Clinic Experience and Lessons Learned. <i>Journal of the Arkansas Medical Society</i> . 2016. 113:38-40, 42 | Not appropriate population |
| Basaran, S., Has, R., Kalelioglu, I. H., Karaman, B., Kirgiz, M., Dehgan, T., Satkin, B. N., Sivrikoz, T. S., Yuksel, A.. Follow-Up Studies of cf-DNA Testing from 101 Consecutive Fetuses and Related Ultrasound Findings. <i>Ultraschall in der Medizin</i> . 2018. 25:25 | Not appropriate setting or country |
| Bayindir, B., Dehaspe, L., Brison, N., Brady, P., Ardui, S., Kammoun, M., Van der Veken, L., Lichtenbelt, K., Van den Bogaert, K., Van Houdt, J., Peeters, H., Van Esch, H., de Ravel, T., Legius, E., Devriendt, K., Vermeesch, J. R.. Noninvasive prenatal testing using a novel analysis pipeline to screen for all autosomal fetal aneuploidies improves pregnancy management. <i>European Journal of Human Genetics</i> . 2015. 23:1286-93 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Bayon, J. C., Orruno, E., Portillo, M. I., Asua, J. The consequences of implementing non-invasive prenatal testing with cell-free foetal DNA for the detection of Down syndrome in the Spanish National Health Service: a cost-effectiveness analysis. <i>Cost Effectiveness & Resource Allocation</i> . 2019. 17:6 | Not appropriate setting or country |
| Beamon, C. J., Hardisty, E. E., Harris, S. C., Vora, N. L. A single center's experience with noninvasive prenatal testing. <i>Genetics in Medicine</i> . 2014. 16:681-7 | Not appropriate population |
| Beck, V., Opdekamp, S., Enzlin, P., Done, E., Gucciardo, L., El Handouni, N., van Mieghem, T., Lewi, L., Deprest, J. Psychosocial aspects of invasive fetal therapy as compared to prenatal diagnosis and risk assessment. <i>Prenatal Diagnosis</i> . 2013. 33:334-40 | Not intervention or test of interest |
| Becker, D. A., Tang, Y., Jacobs, A. P., Biggio, J. R., Edwards, R. K., Subramaniam, A. Sensitivity of prenatal ultrasound for detection of trisomy 18. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. #volume#:1-7 | Not appropriate population |
| Belloin, C., Jacquemard, F., Bernabé-Dupont, C., Viot, G., Lohmann, L., Grangé, G. The noninvasive prenatal testing for Down's Syndrome. Retrospective study of 8821 patients. <i>Revue Sage - Femme</i> . 2017. 16:243-249 | Not in English |
| Benachi, A., Letourneau, A., Kleinfinger, P., Senat, M. V., Gautier, E., Favre, R., Bidat, L., Houfflin-Debarge, V., Bouyer, J., Costa, J. M., Collaborative, SEquencage a Haut Debit et Aneuploidies Study Group. Cell-free DNA analysis in maternal plasma in cases of fetal abnormalities detected on ultrasound examination. <i>Obstetrics & Gynecology</i> . 2015. 125:1330-7 | Not appropriate population |
| Bestwick, J. P., Wald, N. J. Antenatal reflex DNA screening for trisomy 18 and trisomy 13 in addition to Down's syndrome. <i>Journal of Medical Screening</i> . 2016. 23:171-174 | Not appropriate population |
| Beulen, L., Faas, B. H. W., Feenstra, I., van Vugt, J. M. G., Bekker, M. N. Clinical utility of non-invasive prenatal testing in pregnancies with ultrasound anomalies. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 49:721-728 | Not appropriate population |
| Beulen, L., Faas, B. H. W., Feenstra, I., Van Vugt, J. M. G., Bekker, M. N. Clinical Utility of Noninvasive Prenatal Testing in Pregnancies with Ultrasound Anomalies. <i>Obstetrical and Gynecological Survey</i> . 2017. 72:640-642 | Not relevant publication type |
| Beulen, L., Grutters, J. P. C., Faas, B. H., Feenstra, I., Van Vugt, J. M. G., Bekker, M. N. The consequences of implementing non-invasive prenatal testing in Dutch National Health Care: A cost-effectiveness analysis: Editorial comment. <i>Obstetrical and Gynecological Survey</i> . 2015. 70:162-164 | Not relevant publication type |
| Beulen, L., Grutters, J. P., Faas, B. H., Feenstra, I., van Vugt, J. M., Bekker, M. N. The consequences of implementing non-invasive prenatal testing in Dutch national health care: a cost-effectiveness analysis. <i>European Journal of Obstetrics, Gynecology, & Reproductive Biology</i> . 2014. 182:53-61 | Not appropriate setting or country |
| Bevilacqua, E., Gil, M. M., Nicolaidis, K. H., Ordonez, E., Cirigliano, V., Dierickx, H., Willems, P. J., Jani, J. C. Performance of screening for aneuploidies by cell-free DNA analysis of maternal blood in twin pregnancies. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:61-6 | Not appropriate population |
| Bevilacqua, E., Jani, J. C., Letourneau, A., Duiella, S. F., Kleinfinger, P., Lohmann, L., Resta, S., Cos Sanchez, T., Fils, J. F., Mirra, M., Benachi, A., Costa, J. M. Cell-Free DNA Analysis in Maternal Blood: Differences in Estimates between Laboratories with Different Methodologies Using a Propensity Score Approach. <i>Fetal Diagnosis & Therapy</i> . 2019. 45:302-311 | Not appropriate population |
| Bevilacqua, E., Ordonez, E., Hurtado, I., Rueda, L., Mazzone, E., Cirigliano, V., Jani, J. C. Screening for Sex Chromosome Aneuploidy by Cell-Free DNA Testing: Patient Choice and Performance. <i>Fetal Diagnosis & Therapy</i> . 2018. 44:98-104 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Bevilacqua, E., Resta, S., Carlin, A., Kang, X., Cos Sanchez, T., de Marchin, J., Jani, J. C.. Profile of women choosing the Harmony Prenatal Test. <i>Expert Review of Molecular Diagnostics</i> . 2018. 18:591-599 | Not appropriate population |
| Bianchi, D. W., Parsa, S., Bhatt, S., Halks-Miller, M., Kurtzman, K., Sehnert, A. J., Swanson, A.. Fetal sex chromosome testing by maternal plasma DNA sequencing: clinical laboratory experience and biology. <i>Obstetrics & Gynecology</i> . 2015. 125:375-82 | Not appropriate population |
| Bianchi, D. W., Platt, L. D., Goldberg, J. D., Abuhamad, A. Z., Sehnert, A. J., Rava, R. P., MatErnal, BLOOD I. S. Source to Accurately diagnose fetal aneuploidy Study Group. Genome-wide fetal aneuploidy detection by maternal plasma DNA sequencing. <i>Obstetrics & Gynecology</i> . 2012. 119:890-901 | Not appropriate population |
| Bianchi, D. W., Prosen, T., Platt, L. D., Goldberg, J. D., Abuhamad, A. Z., Rava, R. P., Sehnert, A. J., MatErnal, BLOOD I. S. Source to Accurately diagnose fetal aneuploidy Study Group. Massively parallel sequencing of maternal plasma DNA in 113 cases of fetal nuchal cystic hygroma. <i>Obstetrics & Gynecology</i> . 2013. 121:1057-62 | Not appropriate population |
| Bianchi, D. W.. Cherchez la femme: Maternal Incidental Findings Can Explain Discordant Prenatal Cell-free DNA Sequencing Results. <i>Obstetrical and Gynecological Survey</i> . 2019. 74:72-75 | Not relevant publication type |
| Birko, S., Ravitsky, V., Dupras, C., Le Clerc-Blain, J., Lemoine, M. E., Affdal, A. O., Haidar, H., Laberge, A. M.. The value of non-invasive prenatal testing: preferences of Canadian pregnant women, their partners, and health professionals regarding NIPT use and access. <i>BMC Pregnancy & Childbirth</i> . 2019. 19:22 | Not outcomes of interest |
| Bjerregaard, L., Stenbakken, A. B., Andersen, C. S., Kristensen, L., Jensen, C. V., Skovbo, P., Sorensen, A. N.. The rate of invasive testing for trisomy 21 is reduced after implementation of NIPT. <i>Danish Medical Journal</i> . 2017. 64:#pages# | Not appropriate population |
| Blais, J., Giroux, S., Caron, A., Clement, V., Dionne-Laporte, A., Jouan, L., Gauthier, J., MacLeod, T., Moore, R., Parker, J., Swanson, L., Zhao, Y., Rouleau, G., Karsan, A., Langlois, S., Rousseau, F.. Non-invasive prenatal aneuploidy testing: Critical diagnostic performance parameters predict sample z-score values. <i>Clinical Biochemistry</i> . 2018. 59:69-77 | Not intervention or test of interest |
| Borruto, F., Treisser, A., Abdelkrim, S. B., Comparetto, C.. The end of amniocentesis? From TriTest to PrenaTest™. <i>Donald School Journal of Ultrasound in Obstetrics and Gynecology</i> . 2013. 7:213-218 | Not relevant publication type |
| Brar, H., Wang, E., Struble, C., Musci, T. J., Norton, M. E.. The fetal fraction of cell-free DNA in maternal plasma is not affected by a priori risk of fetal trisomy. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2013. 26:143-5 | Not appropriate population |
| Bremant, A. M., Chow, J. C., U'Ren, L., Normand, E. A., Qdaisat, S., Zhao, L., Henke, D. M., Chen, R., Shaw, C. A., Jackson, L., Yang, Y., Vossaert, L., Needham, R. H., Chang, E. J., Campton, D., Werbin, J. L., Seubert, R. C., Van den Veyver, I. B., Stilwell, J. L., Kaldjian, E. P., Beaudet, A. L.. Evidence for feasibility of fetal trophoblastic cell-based noninvasive prenatal testing. <i>Prenatal Diagnosis</i> . 2016. 36:1009-1019 | Not intervention or test of interest |
| Bremant, A. M., Chow, J. C., U'Ren, L., Normand, E. A., Qdaisat, S., Zhao, L., Henke, D. M., Chen, R., Shaw, C. A., Jackson, L., Yang, Y., Vossaert, L., Needham, R. H. V., Chang, E. J., Campton, D., Werbin, J. L., Seubert, R. C., Van Den Veyver, I. B., Stilwell, J. L., Kaldjian, E. P., Beaudet, A. L.. Evidence for Feasibility of Fetal Trophoblastic Cell-Based Noninvasive Prenatal Testing. <i>Obstetrical and Gynecological Survey</i> . 2017. 72:4-5 | Not relevant publication type |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Brison, N., Neofytou, M., Dehaspe, L., Bayindir, B., Van Den Bogaert, K., Dardour, L., Peeters, H., Van Esch, H., Van Buggenhout, G., Vogels, A., de Ravel, T., Legius, E., Devriendt, K., Vermeesch, J. R.. Predicting fetoplacental chromosomal mosaicism during non-invasive prenatal testing. <i>Prenatal Diagnosis</i> . 2018. 38:258-266 | Not appropriate population |
| Brison, N., Van Den Bogaert, K., Dehaspe, L., van den Oever, J. M., Janssens, K., Blaumeiser, B., Peeters, H., Van Esch, H., Van Buggenhout, G., Vogels, A., de Ravel, T., Legius, E., Devriendt, K., Vermeesch, J. R.. Accuracy and clinical value of maternal incidental findings during noninvasive prenatal testing for fetal aneuploidies. <i>Genetics in Medicine</i> . 2017. 19:306-313 | Not outcomes of interest |
| Byers, H. M., Neufeld-Kaiser, W., Chang, E. Y., Tsuchiya, K., Oehler, E. S., Adam, M. P.. Discordant sex between fetal screening and postnatal phenotype requires evaluation. <i>Journal of Perinatology</i> . 2019. 39:28-33 | Not appropriate study design |
| Calabrese, G., Baldi, M., Fantasia, D., Sessa, M. T., Kalantar, M., Holzhauser, C., Alunni-Fabroni, M., Palka, G., Sitar, G.. Detection of chromosomal aneuploidies in fetal cells isolated from maternal blood using single-chromosome dual-probe FISH analysis. <i>Clinical Genetics</i> . 2012. 82:131-9 | Not intervention or test of interest |
| Calabrese, G., Fantasia, D., Alfonsi, M., Morizio, E., Celentano, C., Guanciali Franchi, P., Sabbatinelli, G., Palka, C., Benn, P., Sitar, G.. Aneuploidy screening using circulating fetal cells in maternal blood by dual-probe FISH protocol: a prospective feasibility study on a series of 172 pregnant women. <i>Molecular Genetics & Genomic Medicine</i> . 2016. 4:634-640 | Not intervention or test of interest |
| Canick, J. A., Kloza, E. M., Lambert-Messerlian, G. M., Haddow, J. E., Ehrich, M., van den Boom, D., Bombard, A. T., Deciu, C., Palomaki, G. E.. DNA sequencing of maternal plasma to identify Down syndrome and other trisomies in multiple gestations. <i>Prenatal Diagnosis</i> . 2012. 32:730-4 | Not appropriate population |
| Chai, H., DiAdamo, A., Grommisch, B., Boyle, J., Amato, K., Wang, D., Wen, J., Li, P.. Integrated FISH, Karyotyping and aCGH Analyses for Effective Prenatal Diagnosis of Common Aneuploidies and Other Cytogenomic Abnormalities. <i>Medical Sciences</i> . 2019. 7:23 | Not appropriate population |
| Chan, N., Smet, M. E., Sandow, R., da Silva Costa, F., McLennan, A.. Implications of failure to achieve a result from prenatal maternal serum cell-free DNA testing: a historical cohort study. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> . 2018. 125:848-855 | Not appropriate population |
| Chan, N., Smet, M. E., Sandow, R., Da Silva Costa, F., McLennan, A.. Implications of Failure to Achieve a Result from Prenatal Maternal Serum Cell-Free DNA Testing: A Historical Cohort Study. <i>Obstetrical and Gynecological Survey</i> . 2018. 73:611-613 | Not relevant publication type |
| Chan, Y. M., Leung, W. C., Chan, W. P., Leung, T. Y., Cheng, Y. K., Sahota, D. S.. Women's uptake of non-invasive DNA testing following a high-risk screening test for trisomy 21 within a publicly funded healthcare system: findings from a retrospective review. <i>Prenatal Diagnosis</i> . 2015. 35:342-7 | Not appropriate population |
| Chen, A., Tenhunen, H., Torkki, P., Heinonen, S., Lillrank, P., Stefanovic, V.. Considering medical risk information and communicating values: A mixed-method study of women's choice in prenatal testing. <i>PLoS ONE [Electronic Resource]</i> . 2017. 12:e0173669 | Not appropriate population |
| Chen, E. Z., Chiu, R. W., Sun, H., Akolekar, R., Chan, K. C., Leung, T. Y., Jiang, P., Zheng, Y. W., Lun, F. M., Chan, L. Y., Jin, Y., Go, A. T., Lau, E. T., To, W. W., Leung, W. C., Tang, R. Y., Au-Yeung, S. K., Lam, H., Kung, Y. Y., Zhang, X., van Vugt, J. M., Minekawa, R., Tang, M. H., Wang, J., Oudejans, C. B., Lau, T. K., Nicolaidis, K. H., Lo, Y. M.. Noninvasive prenatal diagnosis of fetal trisomy 18 and trisomy 13 by maternal plasma DNA sequencing. <i>PLoS ONE [Electronic Resource]</i> . 2011. 6:e21791 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Chen, Y. P., He, Z. Q., Shi, Y., Zhou, Q., Cai, Z. M., Yu, B., Wang, T.. Not all chromosome aberrations can be detected by NIPT in women at advanced maternal age: A multicenter retrospective study. <i>Clinica Chimica Acta</i> . 2018. 486:232-236 | Not appropriate setting or country |
| Chen, Y., Lai, Y., Yi, S., Tang, Y., Lei, Y., Yi, S., Shen, Y., Wei, H.. Non-invasive prenatal screening for fetal aneuploidy in twin pregnancies by cell-free DNA analysis. <i>Clinical and Experimental Obstetrics and Gynecology</i> . 2018. 45:656-660 | Not appropriate setting or country |
| Cheng, S. S. W., Chan, K. Y. K., Leung, K. K. P., Au, P. K. C., Tam, W. K., Li, S. K. M., Luk, H. M., Kan, A. S. Y., Chung, B. H. Y., Lo, I. F. M., Tang, M. H. Y.. Experience of chromosomal microarray applied in prenatal and postnatal settings in Hong Kong. <i>American Journal of Medical Genetics. Part C, Seminars in Medical Genetics</i> . 2019. 181:196-207 | Not appropriate population |
| Cheng, Y., Leung, W. C., Leung, T. Y., Choy, K. W., Chiu, R., Lo, T. K., Kwok, K. Y., Sahota, D. S.. Women's preference for non-invasive prenatal DNA testing versus chromosomal microarray after screening for Down syndrome: a prospective study. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> . 2018. 125:451-459 | Not appropriate setting or country |
| Chetty, S., Garabedian, M. J., Norton, M. E.. Uptake of noninvasive prenatal testing (NIPT) in women following positive aneuploidy screening. <i>Prenatal Diagnosis</i> . 2013. 33:542-6 | Not appropriate population |
| Chitty, L. S., Wright, D., Hill, M., Verhoef, T. I., Daley, R., Lewis, C., Mason, S., McKay, F., Jenkins, L., Howarth, A., Cameron, L., McEwan, A., Fisher, J., Kroese, M., Morris, S.. Uptake, outcomes, and costs of implementing non-invasive prenatal testing for Down's syndrome into NHS maternity care: prospective cohort study in eight diverse maternity units. <i>BMJ</i> . 2016. 354:i3426 | Not appropriate population |
| Chitty, L. S., Wright, D., Hill, M., Verhoef, T. I., Daley, R., Lewis, C., Mason, S., McKay, F., Jenkins, L., Howarth, A., et al., . Uptake, outcomes, and costs of implementing non-invasive prenatal testing for down syndrome into NHS maternity care: prospective cohort study in eight diverse maternity units. <i>Obstetrical & gynecological survey</i> . 2016. 71:637-639 | Not relevant publication type |
| Chiu, R. W., Akolekar, R., Zheng, Y. W., Leung, T. Y., Sun, H., Chan, K. C., Lun, F. M., Go, A. T., Lau, E. T., To, W. W., Leung, W. C., Tang, R. Y., Au-Yeung, S. K., Lam, H., Kung, Y. Y., Zhang, X., van Vugt, J. M., Minekawa, R., Tang, M. H., Wang, J., Oudejans, C. B., Lau, T. K., Nicolaides, K. H., Lo, Y. M.. Non-invasive prenatal assessment of trisomy 21 by multiplexed maternal plasma DNA sequencing: large scale validity study. <i>BMJ</i> . 2011. 342:c7401 | Not appropriate population |
| Chiu, R. W., Chan, K. C., Gao, Y., Lau, V. Y., Zheng, W., Leung, T. Y., Foo, C. H., Xie, B., Tsui, N. B., Lun, F. M., Zee, B. C., Lau, T. K., Cantor, C. R., Lo, Y. M.. Noninvasive prenatal diagnosis of fetal chromosomal aneuploidy by massively parallel genomic sequencing of DNA in maternal plasma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2008. 105:20458-63 | Not intervention or test of interest |
| Chiu, R. W., Sun, H., Akolekar, R., Clouser, C., Lee, C., McKernan, K., Zhou, D., Nicolaides, K. H., Lo, Y. M.. Maternal plasma DNA analysis with massively parallel sequencing by ligation for noninvasive prenatal diagnosis of trisomy 21. <i>Clinical Chemistry</i> . 2010. 56:459-63 | Not intervention or test of interest |
| Chu, T., Bunce, K., Hogge, W. A., Peters, D. G.. Statistical considerations for digital approaches to non-invasive fetal genotyping. <i>Bioinformatics</i> . 2010. 26:2863-6 | Not appropriate study design |
| Chu, T., Shaw, P. A., Yeniterzi, S., Dunkel, M., Rajkovic, A., Hogge, W. A., Bunce, K. D., Peters, D. G.. Comparative evaluation of the Minimally-Invasive Karyotyping (MINK) algorithm for non-invasive prenatal testing. <i>PLoS ONE [Electronic Resource]</i> . 2017. 12:e0171882 | Not appropriate population |
| Cicatiello, R., Pignataro, P., Izzo, A., Mollo, N., Pezone, L., Maruotti, G. M., Sarno, L., Sglavo, G., Conti, A., Genesio, R., Nitsch, L.. Chromosomal Microarray Analysis versus Karyotyping in Fetuses with Increased Nuchal Translucency. <i>Medical Sciences</i> . 2019. 7:27 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--|
| Cirigliano, V., Ordonez, E., Rueda, L., Syngelaki, A., Nicolaides, K. H.. Performance of the neoBona test: a new paired-end massively parallel shotgun sequencing approach for cell-free DNA-based aneuploidy screening. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 49:460-464 | Not intervention or test of interest |
| Cirigliano, V., Voglino, G., Ordonez, E., Marongiu, A., Paz Canadas, M., Ejarque, M., Rueda, L., Lloveras, E., Fuster, C., Adinolfi, M.. Rapid prenatal diagnosis of common chromosome aneuploidies by QF-PCR, results of 9 years of clinical experience. <i>Prenatal Diagnosis</i> . 2009. 29:40-9 | Not appropriate population |
| Clark-Ganheart, C. A., Fries, M. H., Leifheit, K. M., Jensen, T. J., Moreno-Ruiz, N. L., Ye, P. P., Jennings, J. M., Driggers, R. W.. Use of cell-free DNA in the investigation of intrauterine fetal demise and miscarriage. <i>Obstetrics & Gynecology</i> . 2015. 125:1321-9 | Not appropriate population |
| Colosi, E., D'Ambrosio, V., Periti, E.. First trimester contingent screening for trisomies 21, 18, 13: is this model cost efficient and feasible in public health system?. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2017. 30:2905-2910 | Not appropriate setting or country |
| Comas, C., Echevarria, M., Rodriguez, M. A., Prats, P., Rodriguez, I., Serra, B.. Initial experience with non-invasive prenatal testing of cell-free DNA for major chromosomal anomalies in a clinical setting. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2015. 28:1196-201 | Not appropriate population |
| Comas, C., Echevarria, M., Rodriguez, M. A., Rodriguez, I., Serra, B., Cirigliano, V.. Prenatal Diagnosis of Chromosome Abnormalities: A 13-Year Institution Experience. <i>Diagnostics</i> . 2012. 2:57-71 | Not intervention or test of interest |
| Conner, P., Gustafsson, S., Kublickas, M.. First trimester contingent testing with either nuchal translucency or cell-free DNA. Cost efficiency and the role of ultrasound dating. <i>Acta Obstetrica et Gynecologica Scandinavica</i> . 2015. 94:368-75 | Not intervention or test of interest |
| Costa, J. M., Letourneau, A., Favre, R., Bidat, L., Belaisch-Allart, J., Jouannic, J. M., Quarello, E., Senat, M. V., Broussin, B., Tsatsaris, V., Demain, A., Kleinfinger, P., Lohmann, L., Agostini, H., Bouyer, J., Benachi, A.. Cell-free fetal DNA versus maternal serum screening for trisomy 21 in pregnant women with and without assisted reproduction technology: a prospective interventional study. <i>Genetics in Medicine</i> . 2018. 20:1346-1353 | Not intervention or test of interest |
| Cotarelo-Pérez, C., Oancea-Ionescu, R., Asenjo-de-la-Fuente, E., Ortega-de-Heredia, D., Soler-Ruiz, P., Coronado-Martín, P., Fenollar-Cortés, M.. A contingent model for cell-free DNA testing to detect fetal aneuploidy after first trimester combined screening. <i>European Journal of Obstetrics and Gynecology and Reproductive Biology</i> : X. 2019. 1:#pages# | Not intervention or test of interest |
| Crea, F., Forman, M., Hulme, R., Old, R. W., Ryan, D., Mazey, R., Risley, M. D.. The IONA Test: Development of an Automated Cell-Free DNA-Based Screening Test for Fetal Trisomies 13, 18, and 21 That Employs the Ion Proton Semiconductor Sequencing Platform. <i>Fetal Diagnosis & Therapy</i> . 2017. 42:218-224 | Not intervention or test of interest |
| Cuckle, H., Benn, P., Pergament, E.. Maternal cfDNA screening for Down syndrome--a cost sensitivity analysis. <i>Prenatal Diagnosis</i> . 2013. 33:636-42 | Economic study in the U.S. but outside of date range |
| Curnow, K. J., Wilkins-Haug, L., Ryan, A., Kirkizlar, E., Stosic, M., Hall, M. P., Sigurjonsson, S., Demko, Z., Rabinowitz, M., Gross, S. J.. Detection of triploid, molar, and vanishing twin pregnancies by a single-nucleotide polymorphism-based noninvasive prenatal test. <i>American Journal of Obstetrics & Gynecology</i> . 2015. 212:79.e1-9 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Dahl, F., Ericsson, O., Karlberg, O., Karlsson, F., Howell, M., Persson, F., Roos, F., Stenberg, J., Ahola, T., Alftren, I., Andersson, B., Barkenas, E., Brandner, B., Dahlberg, J., Elfman, S., Eriksson, M., Forsgren, P. O., Francois, N., Gousseva, A., Hakamali, F., Janfalk-Carlsson, A., Johansson, H., Lundgren, J., Mohsenchian, A., Olausson, L., Olofsson, S., Qureshi, A., Skarpas, B., Savneby, A., Astrom, E., Ohman, O., Westgren, M., Kopp-Kallner, H., Fianu-Jonasson, A., Syngelaki, A., Nicolaidis, K.. Imaging single DNA molecules for high precision NIPT. <i>Scientific Reports</i> . 2018. 8:4549 | Not intervention or test of interest |
| Dan, S., Wang, W., Ren, J., Li, Y., Hu, H., Xu, Z., Lau, T. K., Xie, J., Zhao, W., Huang, H., Xie, J., Sun, L., Zhang, X., Wang, W., Liao, S., Qiang, R., Cao, J., Zhang, Q., Zhou, Y., Zhu, H., Zhong, M., Guo, Y., Lin, L., Gao, Z., Yao, H., Zhang, H., Zhao, L., Jiang, F., Chen, F., Jiang, H., Li, S., Li, Y., Wang, J., Wang, J., Duan, T., Su, Y., Zhang, X.. Clinical application of massively parallel sequencing-based prenatal noninvasive fetal trisomy test for trisomies 21 and 18 in 11, 105 pregnancies with mixed risk factors. <i>Prenatal Diagnosis</i> . 2012. 32:1225-32 | Not appropriate setting or country |
| Dar, P., Curnow, K. J., Gross, S. J., Hall, M. P., Stosic, M., Demko, Z., Zimmermann, B., Hill, M., Sigurjonsson, S., Ryan, A., Banjevic, M., Kolacki, P. L., Koch, S. W., Strom, C. M., Rabinowitz, M., Benn, P.. Clinical experience and follow-up with large scale single-nucleotide polymorphism-based noninvasive prenatal aneuploidy testing. <i>American Journal of Obstetrics & Gynecology</i> . 2014. 211:527.e1-527.e17 | Outcome data cannot be abstracted |
| Davis, A. R., Horvath, S. K., Castano, P. M.. Trends in gestational age at time of surgical abortion for fetal aneuploidy and structural abnormalities. <i>American Journal of Obstetrics & Gynecology</i> . 2017. 216:278.e1-278.e5 | Not appropriate population |
| Davis, C., Cuckle, H., Yaron, Y.. Screening for Down syndrome--incidental diagnosis of other aneuploidies. <i>Prenatal Diagnosis</i> . 2014. 34:1044-8 | Not intervention or test of interest |
| Deng, C., Zhu, Q., Liu, S., Liu, J., Bai, T., Jing, X., Xia, T., Liu, Y., Cheng, J., Li, Z., Wei, X., Xing, L., Luo, Y., Liu, H.. Clinical application of noninvasive prenatal screening for sex chromosome aneuploidies in 50, 301 pregnancies: initial experience in a Chinese hospital. <i>Scientific Reports</i> . 2019. 9:7767 | Not appropriate setting or country |
| Deng, Y. H., Yin, A. H., He, Q., Chen, J. C., He, Y. S., Wang, H. Q., Li, M., Chen, H. Y.. Non-invasive prenatal diagnosis of trisomy 21 by reverse transcriptase multiplex ligation-dependent probe amplification. <i>Clinical Chemistry & Laboratory Medicine</i> . 2011. 49:641-6 | Not appropriate setting or country |
| Dhaifalah, I., Salek, T., Langova, D., Cuckle, H.. Incorporating thyroid markers in Down syndrome screening protocols. <i>Prenatal Diagnosis</i> . 2017. 37:510-514 | Not intervention or test of interest |
| Dhallan, R., Guo, X., Emche, S., Damewood, M., Bayliss, P., Cronin, M., Barry, J., Betz, J., Franz, K., Gold, K., Vallecillo, B., Varney, J.. A non-invasive test for prenatal diagnosis based on fetal DNA present in maternal blood: a preliminary study. <i>Lancet</i> . 2007. 369:474-81 | Not intervention or test of interest |
| Dheedene, A., Sante, T., De Smet, M., Vanbellinghen, J. F., Grisart, B., Vergult, S., Janssens, S., Menten, B.. Implementation of non-invasive prenatal testing by semiconductor sequencing in a genetic laboratory. <i>Prenatal Diagnosis</i> . 2016. 36:699-707 | Not intervention or test of interest |
| Dobson, L. J., Reiff, E. S., Little, S. E., Wilkins-Haug, L., Bromley, B.. Patient choice and clinical outcomes following positive noninvasive prenatal screening for aneuploidy with cell-free DNA (cfDNA). <i>Prenatal Diagnosis</i> . 2016. 36:456-62 | Not appropriate population |
| Du, E., Feng, C., Cao, Y., Yao, Y., Lu, J., Zhang, Y.. Massively Parallel Sequencing (MPS) of Cell-Free Fetal DNA (cffDNA) for Trisomies 21, 18, and 13 in Twin Pregnancies. <i>Twin Research & Human Genetics: the Official Journal of the International Society for Twin Studies</i> . 2017. 20:242-249 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Du, Y., Lin, J., Lan, L., Dong, Y., Zhu, J., Jiang, W., Pan, X., Lu, Y., Li, D., Wang, L.. Detection of chromosome abnormalities using current noninvasive prenatal testing: A multi-center comparative study. <i>Bioscience Trends</i> . 2018. 12:317-324 | Not appropriate setting or country |
| Dugoff, L., Barberio, A., Whittaker, P. G., Schwartz, N., Sehdev, H., Bastek, J. A.. Cell-free DNA fetal fraction and preterm birth. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 215:231.e1-7 | Not appropriate population |
| Ehrich, M., Deciu, C., Zwiefelhofer, T., Tynan, J. A., Cagasan, L., Tim, R., Lu, V., McCullough, R., McCarthy, E., Nygren, A. O., Dean, J., Tang, L., Hutchison, D., Lu, T., Wang, H., Angkachatchai, V., Oeth, P., Cantor, C. R., Bombard, A., van den Boom, D.. Noninvasive detection of fetal trisomy 21 by sequencing of DNA in maternal blood: a study in a clinical setting. <i>American Journal of Obstetrics & Gynecology</i> . 2011. 204:205.e1-11 | Not appropriate population |
| Eiben, B., Krapp, M., Borth, H., Kutur, N., Kreiselmaier, P., Glaubitz, R., Deutinger, J., Merz, E.. Single Nucleotide Polymorphism-Based Analysis of Cell-Free Fetal DNA in 3000 Cases from Germany and Austria. <i>Ultrasound International Open</i> . 2015. 1:E8-E11 | Not appropriate population |
| El Khattabi, L. A., Rouillac-Le Sciellour, C., Le Tessier, D., Luscan, A., Coustier, A., Porcher, R., Bhourri, R., Nectoux, J., Serazin, V., Quibel, T., Mandelbrot, L., Tsatsaris, V., Vialard, F., Dupont, J. M.. Could Digital PCR Be an Alternative as a Non-Invasive Prenatal Test for Trisomy 21: A Proof of Concept Study. <i>PLoS ONE [Electronic Resource]</i> . 2016. 11:e0155009 | Not intervention or test of interest |
| Ellison, C. K., Sun, Y., Hogg, G., Fox, J., Tao, H., McCarthy, E., Sagoe, B., Azab, M. A., Mazloom, A. R., Tynan, J., Burcham, T., Kim, S. K., van den Boom, D., Ehrich, M., Jensen, T. J.. Using Targeted Sequencing of Paralogous Sequences for Noninvasive Detection of Selected Fetal Aneuploidies. <i>Clinical Chemistry</i> . 2016. 62:1621-1629 | Not intervention or test of interest |
| Erturk, B., Karaca, E., Aykut, A., Durmaz, B., Guler, A., Buke, B., Yenieli, A. O., Ergenoglu, A. M., Ozkinay, F., Ozeren, M., Kazandi, M., Akerkan, F., Sagol, S., Gunduz, C., Cogulu, O.. Prenatal Evaluation of MicroRNA Expressions in Pregnancies with Down Syndrome. <i>BioMed Research International</i> . 2016. 2016:5312674 | Not appropriate setting or country |
| Evans, M. I., Wapner, R. J., Berkowitz, R. L.. Noninvasive prenatal screening or advanced diagnostic testing: caveat emptor. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 215:298-305 | Not relevant publication type |
| Faas, B. H., de Ligt, J., Janssen, I., Eggink, A. J., Wijnberger, L. D., van Vugt, J. M., Vissers, L., Geurts van Kessel, A.. Non-invasive prenatal diagnosis of fetal aneuploidies using massively parallel sequencing-by-ligation and evidence that cell-free fetal DNA in the maternal plasma originates from cytotrophoblastic cells. <i>Expert Opinion on Biological Therapy</i> . 2012. 12 Suppl 1:S19-26 | Not intervention or test of interest |
| Fairbrother, G., Johnson, S., Musci, T. J., Song, K.. Clinical experience of noninvasive prenatal testing with cell-free DNA for fetal trisomies 21, 18, and 13, in a general screening population. <i>Prenatal Diagnosis</i> . 2013. 33:580-3 | Outcome data cannot be abstracted |
| Fan, H. C., Blumenfeld, Y. J., Chitkara, U., Hudgins, L., Quake, S. R.. Noninvasive diagnosis of fetal aneuploidy by shotgun sequencing DNA from maternal blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2008. 105:16266-71 | Not intervention or test of interest |
| Fang, Y., Wang, G., Wang, C., Suo, F., Gu, M., Xia, Y.. The Diagnosis Pattern of Mid-Trimester Fetal Chromosomal Aneuploidy in Xuzhou and the Clinical Applications. <i>Cell Biochemistry & Biophysics</i> . 2015. 73:267-270 | Not appropriate setting or country |
| Fiorentino, F., Bono, S., Pizzuti, F., Duca, S., Polverari, A., Faieta, M., Baldi, M., Diano, L., Spinella, F.. The clinical utility of genome-wide non invasive prenatal screening. <i>Prenatal Diagnosis</i> . 2017. 37:593-601 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--|
| Fiorentino, F., Bono, S., Pizzuti, F., Mariano, M., Polverari, A., Duca, S., Sessa, M., Baldi, M., Diano, L., Spinella, F.. The importance of determining the limit of detection of non-invasive prenatal testing methods. <i>Prenatal Diagnosis</i> . 2016. 36:304-11 | Not appropriate population |
| Flock, A., Tu, N. C., Ruland, A., Holzgreve, W., Gembruch, U., Geipel, A.. Non-invasive prenatal testing (NIPT): Europe's first multicenter post-market clinical follow-up study validating the quality in clinical routine. <i>Archives of Gynecology & Obstetrics</i> . 2017. 296:923-928 | Not appropriate population |
| Fosler, L., Winters, P., Jones, K. W., Curnow, K. J., Sehnert, A. J., Bhatt, S., Platt, L. D.. Aneuploidy screening by non-invasive prenatal testing in twin pregnancy. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 49:470-477 | Not appropriate population |
| Friel, L. A., Czerwinski, J. L., Singletary, C. N.. The impact of noninvasive prenatal testing on the practice of maternal-fetal medicine. <i>American Journal of Perinatology</i> . 2014. 31:759-64 | Not appropriate population |
| Futch, T., Spinosa, J., Bhatt, S., de Feo, E., Rava, R. P., Sehnert, A. J.. Initial clinical laboratory experience in noninvasive prenatal testing for fetal aneuploidy from maternal plasma DNA samples. <i>Prenatal Diagnosis</i> . 2013. 33:569-74 | Not appropriate population |
| Galeva, S., Gil, M. M., Konstantinidou, L., Akolekar, R., Nicolaidis, K. H.. First-trimester screening for trisomies by cfDNA testing of maternal blood in singleton and twin pregnancies: factors affecting test failure. <i>Ultrasound in Obstetrics & Gynecology</i> . 2019. 53:804-809 | Not appropriate population |
| Galeva, S., Konstantinidou, L., Gil, M. M., Akolekar, R., Nicolaidis, K. H.. Routine first-trimester screening for fetal trisomies in twin pregnancy: cell-free DNA test contingent on results from combined test. <i>Ultrasound in Obstetrics & Gynecology</i> . 2019. 53:208-213 | Not appropriate population |
| Ganesamoorthy, D., Bruno, D. L., McGillivray, G., Norris, F., White, S. M., Adroub, S., Amor, D. J., Yeung, A., Oertel, R., Pertile, M. D., et al., . Meeting the challenge of interpreting high-resolution single nucleotide polymorphism array data in prenatal diagnosis: does increased diagnostic power outweigh the dilemma of rare variants?. <i>BJOG</i> . 2013. 120:594-606 | Not appropriate population |
| Garfield, S. S., Armstrong, S. O.. Clinical and cost consequences of incorporating a novel non-invasive prenatal test into the diagnostic pathway for fetal trisomies. <i>Journal of Managed Care Medicine</i> . 2012. 15:32-39 | Economic study in the U.S. but outside of date range |
| Geipel, A., Daiss, T., Katalinic, A., Germer, U., Kohl, T., Krapp, M., Gembruch, U., Berg, C.. Changing attitudes towards non-invasive aneuploidy screening at advanced maternal age in a German tertiary care center. <i>Ultraschall in der Medizin</i> . 2007. 28:67-70 | Not intervention or test of interest |
| Gerundino, F., Giachini, C., Contini, E., Benelli, M., Marseglia, G., Giuliani, C., Marin, F., Nannetti, G., Lisi, E., Sberini, F., Periti, E., Cordisco, A., Colosi, E., D'Ambrosio, V., Mazzi, M., Rossi, M., Staderini, L., Minuti, B., Pelo, E., Cicatiello, R., Maruotti, G. M., Sglavo, G., Conti, A., Frusconi, S., Pescucci, C., Torricelli, F.. Validation of a method for noninvasive prenatal testing for fetal aneuploidies risk and considerations for its introduction in the Public Health System. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2017. 30:710-716 | Not intervention or test of interest |
| Ghanta, S., Mitchell, M. E., Ames, M., Hidestrand, M., Simpson, P., Goetsch, M., Thilly, W. G., Struble, C. A., Tomita-Mitchell, A.. Non-invasive prenatal detection of trisomy 21 using tandem single nucleotide polymorphisms. <i>PLoS ONE [Electronic Resource]</i> . 2010. 5:e13184 | Not appropriate population |
| Ghorbian, S.. Applications of cell-free fetal DNA in maternal serum. <i>International Journal of Infertility and Fetal Medicine</i> . 2012. 3:33-39 | Not relevant publication type |
| Gil, M. M., Brik, M., Casanova, C., Martin-Alonso, R., Verdejo, M., Ramirez, E., Santacruz, B.. Screening for trisomies 21 and 18 in a Spanish public hospital: from the combined test to the cell-free DNA test. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2017. 30:2476-2482 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--|
| Gil, M. M., Giunta, G., Macalli, E. A., Poon, L. C., Nicolaides, K. H.. UK NHS pilot study on cell-free DNA testing in screening for fetal trisomies: factors affecting uptake. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:67-73 | Not appropriate population |
| Gil, M. M., Quezada, M. S., Bregant, B., Ferraro, M., Nicolaides, K. H.. Implementation of maternal blood cell-free DNA testing in early screening for aneuploidies. <i>Ultrasound in Obstetrics & Gynecology</i> . 2013. 42:34-40 | Not appropriate population |
| Gil, M. M., Revello, R., Poon, L. C., Akolekar, R., Nicolaides, K. H.. Clinical implementation of routine screening for fetal trisomies in the UK NHS: cell-free DNA test contingent on results from first-trimester combined test. <i>Ultrasound in Obstetrics & Gynecology</i> . 2016. 47:45-52 | Not appropriate population |
| Gil, M. M., Revello, R., Poon, L. C., Akolekar, R., Nicolaides, K. H.. Clinical Implementation of Routine Screening for Fetal Trisomies in the UK NHS: Cell-Free DNA Test Contingent on Results from First-Trimester Combined Test. <i>Obstetrical and Gynecological Survey</i> . 2016. 71:275-276 | Not relevant publication type |
| Gomes, H. H., Lourenco, I., Ribeiro, J., Martins, D., Ribeiro, R., Francisco, C.. Cell-free DNA and contingent screening: Our first year. <i>Journal of Gynecology Obstetrics and Human Reproduction</i> . 2019. 02:02 | Not appropriate population |
| Gomez-Manjon, I., Moreno-Izquierdo, A., Mayo, S., Moreno-Garcia, M., Delmiro, A., Escribano, D., Fernandez-Martinez, F. J.. Noninvasive Prenatal Testing: Comparison of Two Mappers and Influence in the Diagnostic Yield. <i>BioMed Research International</i> . 2018. 2018:9498140 | Not appropriate comparator (watch for... |
| Gorduza, E. V., Popescu, R., Caba, L., Ivanov, I., Martiniuc, V., Nedelea, F., Militaru, M., Socolov, D. G.. Prenatal diagnosis of 21 trisomy by quantification of methylated fetal DNA in maternal blood: Study on 10 pregnancies. <i>Revista Romana de Medicina de Laborator</i> . 2013. 21:275-284 | Not appropriate population |
| Grati, F. R., Bajaj, K., Malvestiti, F., Agrati, C., Grimi, B., Malvestiti, B., Pompili, E., Maggi, F., Gross, S., Simoni, G., Ferreira, J. C.. The type of fetoplacental aneuploidy detected by cfDNA testing may influence the choice of confirmatory diagnostic procedure. <i>Prenatal Diagnosis</i> . 2015. 35:994-8 | Not appropriate population |
| Grati, F. R., Bajaj, K., Zanatta, V., Malvestiti, F., Malvestiti, B., Marcato, L., Grimi, B., Maggi, F., Simoni, G., Gross, S. J., Ferreira, J.. Implications of fetoplacental mosaicism on cell-free DNA testing for sex chromosome aneuploidies. <i>Prenatal Diagnosis</i> . 2017. 37:1017-1027 | Not appropriate study design |
| Grati, F. R., Barlocco, A., Grimi, B., Milani, S., Frascoli, G., Di Meco, A. M., Liuti, R., Trotta, A., Chinetti, S., Dulcetti, F., Ruggeri, A. M., De Toffol, S., Clementi, M., Maggi, F., Simoni, G.. Chromosome abnormalities investigated by non-invasive prenatal testing account for approximately 50% of fetal unbalances associated with relevant clinical phenotypes. <i>American Journal of Medical Genetics. Part A</i> . 2010. 152A:1434-42 | Not intervention or test of interest |
| Grati, F. R., Malvestiti, F., Ferreira, J. C., Bajaj, K., Gaetani, E., Agrati, C., Grimi, B., Dulcetti, F., Ruggeri, A. M., De Toffol, S., Maggi, F., Wapner, R., Gross, S., Simoni, G.. Fetoplacental mosaicism: potential implications for false-positive and false-negative noninvasive prenatal screening results. <i>Genetics in Medicine</i> . 2014. 16:620-4 | Not appropriate population |
| Gromminger, S., Yagmur, E., Erkan, S., Nagy, S., Schock, U., Bonnet, J., Smerdka, P., Ehrich, M., Wegner, R. D., Hofmann, W., Stumm, M.. Fetal Aneuploidy Detection by Cell-Free DNA Sequencing for Multiple Pregnancies and Quality Issues with Vanishing Twins. <i>Journal of Clinical Medicine</i> . 2014. 3:679-92 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|------------------------------------|
| Grossman, T. B., Bodenlos, K. L., Chasen, S. T. . Abnormal nuchal translucency: residual risk with normal cell-free DNA screening. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2019. #volume#:1-6 | Not appropriate population |
| Guex, N., Iseli, C., Syngelaki, A., Deluen, C., Pescia, G., Nicolaides, K. H., Xenarios, I., Conrad, B. . A robust second-generation genome-wide test for fetal aneuploidy based on shotgun sequencing cell-free DNA in maternal blood. <i>Prenatal Diagnosis</i> . 2013. 33:707-10 | Not relevant publication type |
| Guo, Q., Zhou, Y., Wang, X., Li, Q. . Simultaneous detection of trisomies 13, 18, and 21 with multiplex ligation-dependent probe amplification-based real-time PCR. <i>Clinical Chemistry</i> . 2010. 56:1451-9 | Not appropriate setting or country |
| Guy, C., Haji-Sheikhi, F., Rowland, C. M., Anderson, B., Owen, R., Lacbawan, F. L., Alagia, D. P. . Prenatal cell-free DNA screening for fetal aneuploidy in pregnant women at average or high risk: Results from a large US clinical laboratory. <i>Molecular Genetics & Genomic Medicine</i> . 2019. 7:e545 | Not appropriate population |
| Gyselaers, W., Hulstaert, F., Neyt, M. . Contingent non-invasive prenatal testing: an opportunity to improve non-genetic aspects of fetal aneuploidy screening. <i>Prenatal Diagnosis</i> . 2015. 35:1347-52 | Not appropriate population |
| Hagen, A., Entezami, M., Gasiorek-Wiens, A., Albig, M., Becker, R., Knoll, U., Stumm, M., Wegner, R. D. . The impact of first trimester screening and early fetal anomaly scan on invasive testing rates in women with advanced maternal age. <i>Ultraschall in der Medizin</i> . 2011. 32:302-6 | Not appropriate population |
| Hall, M. P., Hill, M., Zimmermann, B., Sigurjonsson, S., Westemeyer, M., Saucier, J., Demko, Z., Rabinowitz, M. . Non-invasive prenatal detection of trisomy 13 using a single nucleotide polymorphism- and informatics-based approach. <i>PLoS ONE [Electronic Resource]</i> . 2014. 9:e96677 | Not appropriate population |
| Harraway, J. . Non-invasive prenatal testing. <i>Australian Family Physician</i> . 2017. 46:735-739 | Not relevant publication type |
| Hartwig, T. S., Ambye, L., Sorensen, S., Jorgensen, F. S. . Discordant non-invasive prenatal testing (NIPT) - a systematic review. <i>Prenatal Diagnosis</i> . 2017. 37:527-539 | Not outcomes of interest |
| Hartwig, T. S., Ambye, L., Werge, L., Weiergang, M. K., Norgaard, P., Sorensen, S., Jorgensen, F. S. . Non-Invasive Prenatal Testing (NIPT) in pregnancies with trisomy 21, 18 and 13 performed in a public setting - factors of importance for correct interpretation of results. <i>European Journal of Obstetrics, Gynecology, & Reproductive Biology</i> . 2018. 226:35-39 | Not appropriate population |
| Hasegawa, J., Nakamura, M., Sekizawa, A. . How do the trends in the prenatal diagnosis of aneuploidy change after a non-invasive prenatal test becomes available? A Japanese single center study. <i>Journal of Medical Ultrasonics</i> . 2015. 42:195-8 | Not appropriate population |
| Herraiz, I., Villalba, A., Ajuria, E., Barasoain, A., Mendoza, A., Pizarro, N., Escribano, D., Galindo, A. . Impact of cell-free fetal DNA on invasive prenatal diagnostic tests in a real-world public setting. <i>Journal of Perinatal Medicine</i> . 2019. 47:547-552 | Not appropriate population |
| Hill, M., Barrett, A., Choolani, M., Lewis, C., Fisher, J., Chitty, L. S. . Has Noninvasive Prenatal Testing Impacted Termination of Pregnancy and Live Birth Rates of Infants with Down Syndrome?. <i>Obstetrical and Gynecological Survey</i> . 2018. 73:269-270 | Not relevant publication type |
| Hill, M., Taffinder, S., Chitty, L. S., Morris, S. . Incremental cost of non-invasive prenatal diagnosis versus invasive prenatal diagnosis of fetal sex in England. <i>Prenatal Diagnosis</i> . 2011. 31:267-273 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|------------------------------------|
| Hill, M., Wright, D., Daley, R., Lewis, C., McKay, F., Mason, S., Lench, N., Howarth, A., Boustred, C., Lo, K., Plagnol, V., Spencer, K., Fisher, J., Kroese, M., Morris, S., Chitty, L. S.. Evaluation of non-invasive prenatal testing (NIPT) for aneuploidy in an NHS setting: a reliable accurate prenatal non-invasive diagnosis (RAPID) protocol. <i>BMC Pregnancy & Childbirth</i> . 2014. 14:229 | Not relevant publication type |
| Hooks, J., Wolfberg, A. J., Wang, E. T., Struble, C. A., Zahn, J., Juneau, K., Mohseni, M., Huang, S., Bogard, P., Song, K., Oliphant, A., Musci, T. J.. Non-invasive risk assessment of fetal sex chromosome aneuploidy through directed analysis and incorporation of fetal fraction. <i>Prenatal Diagnosis</i> . 2014. 34:496-9 | Not appropriate population |
| Howard-Bath, A., Poulton, A., Halliday, J., Hui, L.. Population-based trends in the prenatal diagnosis of sex chromosome aneuploidy before and after non-invasive prenatal testing. <i>Prenatal Diagnosis</i> . 2018. 38:1062-1068 | Not appropriate population |
| Hu, H., Jiang, Y., Zhang, M., Liu, S., Hao, N., Zhou, J., Liu, J., Zhang, X., Ma, L.. A prospective clinical trial to compare the performance of dried blood spots prenatal screening for Down's syndrome with conventional non-invasive testing technology. <i>Experimental Biology & Medicine</i> . 2017. 242:547-553 | Not appropriate setting or country |
| Hu, H., Liu, H., Peng, C., Deng, T., Fu, X., Chung, C., Zhang, E., Lu, C., Zhang, K., Liang, Z., Yang, Y.. Clinical Experience of Non-Invasive Prenatal Chromosomal Aneuploidy Testing in 190, 277 Patient Samples. <i>Current Molecular Medicine</i> . 2016. 16:759-766 | Not appropriate setting or country |
| Hu, H., Wang, L., Wu, J., Zhou, P., Fu, J., Sun, J., Cai, W., Liu, H., Yang, Y.. Noninvasive prenatal testing for chromosome aneuploidies and subchromosomal microdeletions/microduplications in a cohort of 8141 single pregnancies. <i>Human Genomics</i> . 2019. 13:14 | Not appropriate setting or country |
| Hu, P., Liang, D., Chen, Y., Lin, Y., Qiao, F., Li, H., Wang, T., Peng, C., Luo, D., Liu, H., Xu, Z.. An enrichment method to increase cell-free fetal DNA fraction and significantly reduce false negatives and test failures for non-invasive prenatal screening: a feasibility study. <i>Journal of Translational Medicine</i> . 2019. 17:124 | Not appropriate setting or country |
| Huang, D., Lundgard, K., Kolber, M. R.. Not-so-free testing for cell-free DNA. <i>Canadian Family Physician</i> . 2016. 62:820 | Not relevant publication type |
| Huang, L. Y., Pan, M., Han, J., Zhen, L., Yang, X., Li, D. Z.. What would be missed in the first trimester if nuchal translucency measurement is replaced by cell free DNA foetal aneuploidy screening?. <i>Journal of Obstetrics & Gynaecology</i> . 2018. 38:498-501 | Not appropriate setting or country |
| Huang, L. Y., Zhen, L., Pan, M., Han, J., Yang, X., Li, D. Z.. Application of noninvasive prenatal testing in pregnancies with fetal double bubble sign: Is it feasible?. <i>Prenatal Diagnosis</i> . 2018. 38:402-405 | Not appropriate setting or country |
| Huang, T., Dougan, S., Walker, M., Armour, C. M., Okun, N.. Trends in the use of prenatal testing services for fetal aneuploidy in Ontario: a descriptive study. <i>CMAJ open</i> . 2018. 6:E436-E444 | Not appropriate population |
| Huang, T., Meschino, W. S., Teitelbaum, M., Dougan, S., Okun, N.. Enhanced First Trimester Screening for Trisomy 21 with Contingent Cell-Free Fetal DNA: A Comparative Performance and Cost Analysis. <i>Journal of Obstetrics & Gynaecology Canada: JOGC</i> . 2017. 39:742-749 | Not appropriate setting or country |
| Huang, X., Zheng, J., Chen, M., Zhao, Y., Zhang, C., Liu, L., Xie, W., Shi, S., Wei, Y., Lei, D., Xu, C., Wu, Q., Guo, X., Shi, X., Zhou, Y., Liu, Q., Gao, Y., Jiang, F., Zhang, H., Su, F., Ge, H., Li, X., Pan, X., Chen, S., Chen, F., Fang, Q., Jiang, H., Lau, T. K., Wang, W.. Noninvasive prenatal testing of trisomies 21 and 18 by massively parallel sequencing of maternal plasma DNA in twin pregnancies. <i>Prenatal Diagnosis</i> . 2014. 34:335-40 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Hui, L., Barclay, J., Poulton, A., Hutchinson, B., Halliday, J. L.. Prenatal diagnosis and socioeconomic status in the non-invasive prenatal testing era: A population-based study. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2018. 58:404-410 | Not outcomes of interest |
| Hui, L., Hutchinson, B., Poulton, A., Halliday, J.. Population-based impact of noninvasive prenatal screening on screening and diagnostic testing for fetal aneuploidy. <i>Genetics in Medicine</i> . 2017. 19:1338-1345 | Not appropriate population |
| Hui, L., Hutchinson, B., Poulton, A., Halliday, J.. Population-based impact of noninvasive prenatal testing (NIPT) on screening and diagnostic testing for fetal aneuploidy. <i>Prenatal diagnosis. Conference: 21st international conference on prenatal diagnosis and therapy, ISPD 2017. United states</i> . 2017. 37:45-46 | Not relevant publication type |
| Hui, L.. Noninvasive prenatal testing for aneuploidy using cell-free DNA – New implications for maternal health. <i>Obstetric Medicine</i> . 2016. 9:148-152 | Not relevant publication type |
| Huijdsens-van Amsterdam, K., Page-Christiaens, L., Flowers, N., Bonifacio, M. D., Ellis, K. M. B., Vogel, I., Vestergaard, E. M., Miguelez, J., de Carvalho, M. H. B., Siermans, E. A., Pertile, M. D.. Isochromosome 21q is overrepresented among false-negative cell-free DNA prenatal screening results involving Down syndrome. <i>European Journal of Human Genetics</i> . 2018. 26:1490-1496 | Not appropriate population |
| Hume, H., Chasen, S. T.. Trends in timing of prenatal diagnosis and abortion for fetal chromosomal abnormalities. <i>American Journal of Obstetrics & Gynecology</i> . 2015. 213:545.e1-4 | Not intervention or test of interest |
| Institute of Health, Economics. First and second trimester prenatal screening update. <i>Institute of Health Economics</i> . 2014. 05:08 | Not appropriate setting or country |
| Isrctn, . Comparison of false positive rates in prenatal combined screening and cell free DNA screening for trisomy 21. http://www.who.int/trialssearch/trial2.aspx?Triallid=isrctn11174071 . 2016. #volume#:#pages# | Not relevant publication type |
| Jackson, J., Hamar, B., Lazar, E., Lim, K., Rodriguez, D., Stock, K., Wolfberg, A. J., Dunk, R.. Nuchal translucency measurement plus non-invasive prenatal testing to screen for aneuploidy in a community-based average-risk population. <i>Ultrasound in Obstetrics & Gynecology</i> . 2014. 44:491 | Not relevant publication type |
| Jensen, T. J., Zwiefelhofer, T., Tim, R. C., Dzakula, Z., Kim, S. K., Mazloom, A. R., Zhu, Z., Tynan, J., Lu, T., McLennan, G., Palomaki, G. E., Canick, J. A., Oeth, P., Deciu, C., van den Boom, D., Ehrich, M.. High-throughput massively parallel sequencing for fetal aneuploidy detection from maternal plasma. <i>PLoS ONE [Electronic Resource]</i> . 2013. 8:e57381 | Not intervention or test of interest |
| Jeon, Y. J., Zhou, Y., Li, Y., Guo, Q., Chen, J., Quan, S., Zhang, A., Zheng, H., Zhu, X., Lin, J., Xu, H., Wu, A., Park, S. G., Kim, B. C., Joo, H. J., Chen, H., Bhak, J.. The feasibility study of non-invasive fetal trisomy 18 and 21 detection with semiconductor sequencing platform. <i>PLoS ONE [Electronic Resource]</i> . 2014. 9:e110240 | Not appropriate setting or country |
| Jiang, F., Ren, J., Chen, F., Zhou, Y., Xie, J., Dan, S., Su, Y., Xie, J., Yin, B., Su, W., Zhang, H., Wang, W., Chai, X., Lin, L., Guo, H., Li, Q., Li, P., Yuan, Y., Pan, X., Li, Y., Liu, L., Chen, H., Xuan, Z., Chen, S., Zhang, C., Zhang, H., Tian, Z., Zhang, Z., Jiang, H., Zhao, L., Zheng, W., Li, S., Li, Y., Wang, J., Wang, J., Zhang, X.. Noninvasive Fetal Trisomy (NIFTY) test: an advanced noninvasive prenatal diagnosis methodology for fetal autosomal and sex chromosomal aneuploidies. <i>BMC Medical Genomics [Electronic Resource]</i> . 2012. 5:57 | Not intervention or test of interest |
| Johansen, P., Richter, S. R., Balslev-Harder, M., Miltoft, C. B., Tabor, A., Duno, M., Kjaergaard, S.. Open source non-invasive prenatal testing platform and its performance in a public health laboratory. <i>Prenatal Diagnosis</i> . 2016. 36:530-6 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Johnson, J., Pastuck, M., Metcalfe, A., Connors, G., Krause, R., Wilson, D., Cuckle, H.. First-trimester Down syndrome screening using additional serum markers with and without nuchal translucency and cell-free DNA. <i>Prenatal Diagnosis</i> . 2013. 33:1044-9 | Not appropriate study design |
| Jones, K., Rowland, K.. Maternal blood test for fetal aneuploidy. <i>Evidence-Based Practice</i> . 2015. 18:4 | Not relevant publication type |
| Jorgez, C. J., Dang, D. D., Wapner, R., Farina, A., Simpson, J. L., Bischoff, F. Z.. Elevated levels of total (maternal and fetal) beta-globin DNA in maternal blood from first trimester pregnancies with trisomy 21. <i>Human Reproduction</i> . 2007. 22:2267-72 | Not intervention or test of interest |
| Juneau, K., Bogard, P. E., Huang, S., Mohseni, M., Wang, E. T., Ryvkin, P., Kingsley, C., Struble, C. A., Oliphant, A., Zahn, J. M.. Microarray-based cell-free DNA analysis improves noninvasive prenatal testing. <i>Fetal Diagnosis & Therapy</i> . 2014. 36:282-6 | Not intervention or test of interest |
| Juvet, L. K., Ormstad, S. S., Stoinska-Schneider, A., Solberg, B., Arentz-Hansen, H., Kvamme, M. K., Fure, B.. Non-invasive prenatal test (NIPT) for identification of trisomy 21, 18 and 13. <i>Knowledge Centre for the Health Services at The Norwegian Institute of Public Health (NIPH)</i> . 2016. NIPH Systematic Reviews:Executive Summaries | Not in English |
| Kagan, K. O., Hoopmann, M., Hammer, R., Stressig, R., Kozlowski, P.. Screening for chromosomal abnormalities by first trimester combined screening and noninvasive prenatal testing. <i>Ultraschall in der Medizin</i> . 2015. 36:40-6 | Not appropriate study design |
| Kagan, K. O., Schmid, M., Hoopmann, M., Wagner, P., Abele, H.. Screening Performance and Costs of Different Strategies in Prenatal Screening for Trisomy 21. <i>Geburtshilfe und Frauenheilkunde</i> . 2015. 75:244-250 | Not appropriate setting or country |
| Kagan, K. O., Sonek, J., Wagner, P., Hoopmann, M.. Principles of first trimester screening in the age of non-invasive prenatal diagnosis: screening for chromosomal abnormalities. <i>Archives of Gynecology & Obstetrics</i> . 2017. 296:645-651 | Not relevant publication type |
| Kagan, K. O., Wagner, P., Hoopmann, M., Abele, H.. First trimester screening based on ultrasound and cfDNA vs. first-trimester combined screening with additional ultrasound markers. <i>European journal of obstetrics gynecology and reproductive biology</i> . 2019. 234:e17- | Not relevant publication type |
| Kagan, K. O., Wagner, P., Hoopmann, M.. First trimester screening based on ultrasound and cfDNA vs. first-trimester combined screening – A randomized controlled study. <i>European journal of obstetrics gynecology and reproductive biology</i> . 2019. 234:e135-e136 | Not relevant publication type |
| Kagan, K. O., Wright, D., Nicolaides, K. H.. First-trimester contingent screening for trisomies 21, 18 and 13 by fetal nuchal translucency and ductus venosus flow and maternal blood cell-free DNA testing. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:42-7 | Not appropriate study design |
| Kane, S. C., Reidy, K. L., Norris, F., Nisbet, D. L., Kornman, L. H., Palma-Dias, R.. Chorionic villus sampling in the cell-free DNA aneuploidy screening era: careful selection criteria can maximise the clinical utility of screening and invasive testing. <i>Prenatal Diagnosis</i> . 2017. 37:399-408 | Not appropriate population |
| Karami, F., Noori-Dalooi, M. R., Omidfar, K., Tabrizi, M., Hantooshzadeh, S., Aleyasin, A., Daneshpour, M., Modarressi, M. H.. Modified methylated DNA immunoprecipitation protocol for noninvasive prenatal diagnosis of Down syndrome. <i>Journal of Obstetrics & Gynaecology Research</i> . 2018. 44:608-613 | Not appropriate setting or country |
| Kaul, A., Singh, C., Gupta, R., Arora, N., Gupta, A.. Observational study comparing the performance of first-trimester screening protocols for detecting trisomy 21 in a North Indian population. <i>International Journal of Gynaecology & Obstetrics</i> . 2017. 137:14-19 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Kazemi, M., Salehi, M., Kheirollahi, M.. MeDIP Real-Time qPCR has the Potential for Noninvasive Prenatal Screening of Fetal Trisomy 21. <i>International Journal of Molecular & Cellular Medicine</i> . 2017. 6:13-21 | Not appropriate setting or country |
| Ke, W. L., Zhao, W. H., Wang, X. Y.. Detection of fetal cell-free DNA in maternal plasma for Down syndrome, Edward syndrome and Patau syndrome of high risk fetus. <i>International journal of clinical and experimental medicine</i> . 2015. 8:9525-30 | Not appropriate setting or country |
| Kenkhuis, M. J. A., Bakker, M., Bardi, F., Fontanella, F., Bakker, M. K., Fleurke-Rozema, J. H., Bilardo, C. M.. Effectiveness of 12-13-week scan for early diagnosis of fetal congenital anomalies in the cell-free DNA era. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 51:463-469 | Not intervention or test of interest |
| Keravnou, A., Ioannides, M., Loizides, C., Tsangaras, K., Achilleos, A., Mina, P., Kypri, E., Hadjidaniel, M. D., Neofytou, M., Kyriacou, S., Sismani, C., Koumbaris, G., Patsalis, P. C.. MeDIP combined with in-solution targeted enrichment followed by NGS: Inter-individual methylation variability of fetal-specific biomarkers and their implementation in a proof of concept study for NIPT. <i>PLoS ONE [Electronic Resource]</i> . 2018. 13:e0199010 | Not intervention or test of interest |
| Khalil, A., Mahmoodian, N., Kulkarni, A., Homfray, T., Papageorghiou, A., Bhide, A., Thilaganathan, B.. Estimation of Detection Rates of Aneuploidy in High-Risk Pregnancy Using an Approach Based on Nuchal Translucency and Non-Invasive Prenatal Testing: A Cohort Study. <i>Fetal Diagnosis & Therapy</i> . 2015. 38:254-61 | Not appropriate population |
| Kim, S. M., Kim, H. H., Han, Y. J., Choi, J. S., Ryu, H. M., Yang, S., Kim, M. H.. Change in rates of prenatal tests for chromosomal abnormality over a 12-year period in women of advanced maternal age. <i>Obstetrics & Gynecology Science</i> . 2018. 61:453-460 | Not appropriate population |
| Kim, S. Y., Lee, S. M., Jun, J. K., Han, Y. J., Kim, M. H., Shim, J. Y., Lee, M. Y., Oh, S. Y., Lee, J., Kim, S. H., Cha, D. H., Cho, G. J., Kwon, H. S., Kim, B. J., Park, M. H., Cho, H. Y., Ko, H. S., Ahn, J., Ryu, H. M.. Prospective observations study protocol to investigate cost-effectiveness of various prenatal test strategies after the introduction of noninvasive prenatal testing. <i>BMC Pregnancy & Childbirth</i> . 2018. 18:307 | Not appropriate study design |
| Kim, S., Jung, H., Han, S. H., Lee, S., Kwon, J., Kim, M. G., Chu, H., Han, K., Kwak, H., Park, S., Joo, H. J., An, M., Ha, J., Lee, K., Kim, B. C., Zheng, H., Zhu, X., Chen, H., Bhak, J.. An adaptive detection method for fetal chromosomal aneuploidy using cell-free DNA from 447 Korean women. <i>BMC Medical Genomics [Electronic Resource]</i> . 2016. 9:61 | Not appropriate population |
| Kim, S., Jung, H., Han, S. H., Lee, S., Kwon, J., Kim, M. G., Chu, H., Chen, H., Han, K., Kwak, H., Park, S., Joo, H. J., Kim, B. C., Bhak, J.. Comparison of two high-throughput semiconductor chip sequencing platforms in noninvasive prenatal testing for Down syndrome in early pregnancy. <i>BMC Medical Genomics [Electronic Resource]</i> . 2016. 9:22 | Not appropriate population |
| Kinnings, S. L., Geis, J. A., Almasri, E., Wang, H., Guan, X., McCullough, R. M., Bombard, A. T., Saldivar, J. S., Oeth, P., Deciu, C.. Factors affecting levels of circulating cell-free fetal DNA in maternal plasma and their implications for noninvasive prenatal testing. <i>Prenatal Diagnosis</i> . 2015. 35:816-22 | Not intervention or test of interest |
| Koc, A., Ozer Kaya, O., Ozyilmaz, B., Kutbay, Y. B., Kirbiyik, O., Ozdemir, T. R., Erdogan, K. M., Saka Guvenc, M., Oztekin, D. C., Ozeren, M., Pala, H. G., Ekin, A., Gezer, C., Sahingoz Yildirim, A. G., Konuralp Atakul, B., Kurtulmus, S., Turhan, U., Taner, C. E.. Targeted fetal cell-free DNA screening for aneuploidies in 4, 594 pregnancies: Single center study. <i>Molecular Genetics & Genomic Medicine</i> . 2019. #volume#:e00678 | Not appropriate setting or country |
| Konialis, C., Pangalos, C.. Dilemmas in Prenatal Chromosomal Diagnosis Revealed Through a Single Center's 30 Years' Experience and 90, 000 Cases. <i>Fetal Diagnosis & Therapy</i> . 2015. 38:218-32 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Kornman, L., Palma-Dias, R., Nisbet, D., Scott, F., Menezes, M., da Silva Costa, F., McLennan, A.. Non-Invasive Prenatal Testing for Sex Chromosome Aneuploidy in Routine Clinical Practice. <i>Fetal Diagnosis & Therapy</i> . 2018. 44:85-90 | Not appropriate population |
| Korostelev, S., Totchiev, G., Kanivets, I., Gnetetskaya, V.. Association of non-invasive prenatal testing and chromosomal microarray analysis for prenatal diagnostics. <i>Gynecological Endocrinology</i> . 2014. 30 Suppl 1:13-6 | Not appropriate population |
| Kose, S., Cimrin, D., Yildirim, N., Aksel, O., Keskinoglu, P., Bora, E., Cankaya, T., Altunyurt, S.. Analysis of first-trimester combined test results in preparation for a cell-free fetal DNA era. <i>International Journal of Gynaecology & Obstetrics</i> . 2016. 135:187-191 | Not appropriate setting or country |
| Kostenko, E., Chantraine, F., Vandeweyer, K., Schmid, M., Lefevre, A., Hertz, D., Zelle, L., Bartha, J. L., Di Renzo, G. C.. Clinical and Economic Impact of Adopting Noninvasive Prenatal Testing as a Primary Screening Method for Fetal Aneuploidies in the General Pregnancy Population. <i>Fetal Diagnosis & Therapy</i> . 2019. 45:413-423 | Not appropriate setting or country |
| Kou, K. O., Poon, C. F., Kwok, S. L., Chan, K. Y., Tang, M. H., Kan, A. S., Leung, K. Y.. Effect of non-invasive prenatal testing as a contingent approach on the indications for invasive prenatal diagnosis and prenatal detection rate of Down's syndrome. <i>Hong Kong Medical Journal</i> . 2016. 22:223-30 | Not intervention or test of interest |
| Koumbaris, G., Kypri, E., Tsangaras, K., Achilleos, A., Mina, P., Neofytou, M., Velissariou, V., Christopoulou, G., Kallikas, I., Gonzalez-Linan, A., Benusiene, E., Latos-Bielenska, A., Marek, P., Santana, A., Nagy, N., Szell, M., Laudanski, P., Papageorgiou, E. A., Ioannides, M., Patsalis, P. C.. Cell-Free DNA Analysis of Targeted Genomic Regions in Maternal Plasma for Non-Invasive Prenatal Testing of Trisomy 21, Trisomy 18, Trisomy 13, and Fetal Sex. <i>Clinical Chemistry</i> . 2016. 62:848-55 | Not appropriate population |
| Kowalczyk, D., Guzikowski, W., Więcek, J., Ziętek, D.. Prenatal testing program in Opolszczyzna in 2005-2008. <i>Ginekologia i Poloznictwo</i> . 2009. 11:58-66 | Not appropriate population |
| Krantz, D. A., Cuckle, H. S.. Extrapolation of maternal weight in sequential aneuploidy screening. <i>Prenatal Diagnosis</i> . 2014. 34:753-8 | Not intervention or test of interest |
| Kyriakou, S., Kypri, E., Spyrou, C., Tsaliki, E., Velissariou, V., Papageorgiou, E. A., Patsalis, P. C.. Variability of cfDNA in maternal plasma does not prevent correct classification of trisomy 21 using MedIP-qPCR methodology. <i>Prenatal Diagnosis</i> . 2013. 33:650-5 | Not intervention or test of interest |
| Lambert-Messerlian, G., Kloza, E. M., Williams, J., 3rd, Loucky, J., O'Brien, B., Wilkins-Haug, L., Mahoney, M. J., De Biasio, P., Borrell, A., Ehrich, M., van den Boom, D., Bombard, A. T., Deciu, C., Palomaki, G. E.. Maternal plasma DNA testing for aneuploidy in pregnancies achieved by assisted reproductive technologies. <i>Genetics in Medicine</i> . 2014. 16:419-22 | Not appropriate population |
| Lambert-Messerlian, G., Palomaki, G. E.. Fewer women aged 35 and older choose serum screening for Down's syndrome: Impact and implications. <i>Journal of Medical Screening</i> . 2019. 26:59-66 | Not outcomes of interest |
| Langlois, S., Audibert, F., Gekas, J., Johnson, J. A., Walker, M., Giroux, S., Caron, A., Clement, V., MacLeod, T., Moore, R., et al., . Independent comparative diagnostic accuracy of NIPT methods in a prospective Canadian cohort of high-risk and low-risk pregnant women: the PEGASUS study. <i>Prenatal diagnosis</i> . 2017. 37:20- | Not relevant publication type |
| Larion, S., Warsof, S. L., Romary, L., Mlynarczyk, M., Peleg, D., Abuhamad, A. Z.. Use of the Combined First-Trimester Screen in High- and Low-Risk Patient Populations After Introduction of Noninvasive Prenatal Testing. <i>Journal of Ultrasound in Medicine</i> . 2015. 34:1423-8 | Not outcomes of interest |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Larion, S., Warsof, S. L., Romary, L., Mlynarczyk, M., Peleg, D., Abuhamad, A. Z.. Uptake of noninvasive prenatal testing at a large academic referral center. <i>American Journal of Obstetrics & Gynecology</i> . 2014. 211:651.e1-7 | Not appropriate population |
| Larion, S., Warsof, S. L., Romary, L., Mlynarczyk, M., Peleg, D., Abuhamad, A. Z.. Association of combined first-trimester screen and noninvasive prenatal testing on diagnostic procedures. <i>Obstetrics & Gynecology</i> . 2014. 123:1303-10 | Not appropriate population |
| Lassey, S. C., Reiff, E. S., Dobson, L., Bromley, B., Wilkins-Haug, L., Bartz, D., Little, S. E.. The influence of noninvasive prenatal testing on gestational age at time of abortion for aneuploidy. <i>Prenatal Diagnosis</i> . 2017. 37:635-639 | Not appropriate population |
| Lau, T. K., Chan, M. K., Lo, P. S., Chan, H. Y., Chan, W. S., Koo, T. Y., Ng, H. Y., Pooh, R. K.. Clinical utility of noninvasive fetal trisomy (NIFTY) test--early experience. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2012. 25:1856-9 | Not intervention or test of interest |
| Lau, T. K., Chen, F., Pan, X., Pooh, R. K., Jiang, F., Li, Y., Jiang, H., Li, X., Chen, S., Zhang, X.. Noninvasive prenatal diagnosis of common fetal chromosomal aneuploidies by maternal plasma DNA sequencing. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2012. 25:1370-4 | Not appropriate population |
| Lau, T. K., Cheung, S. W., Lo, P. S., Pursley, A. N., Chan, M. K., Jiang, F., Zhang, H., Wang, W., Jong, L. F., Yuen, O. K., Chan, H. Y., Chan, W. S., Choy, K. W.. Non-invasive prenatal testing for fetal chromosomal abnormalities by low-coverage whole-genome sequencing of maternal plasma DNA: review of 1982 consecutive cases in a single center. <i>Ultrasound in Obstetrics & Gynecology</i> . 2014. 43:254-64 | Not appropriate population |
| Lau, T. K., Jiang, F., Chan, M. K., Zhang, H., Lo, P. S., Wang, W.. Non-invasive prenatal screening of fetal Down syndrome by maternal plasma DNA sequencing in twin pregnancies. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2013. 26:434-7 | Not intervention or test of interest |
| Le Bras, A., Salomon, L. J., Bussieres, L., Malan, V., Elie, C., Mahallati, H., Ville, Y., Vekemans, M., Durand-Zaleski, I.. Cost-effectiveness of five screening strategies for trisomies and other unbalanced chromosomal abnormalities: a model-based analysis. <i>Ultrasound in Obstetrics & Gynecology</i> . 2019. 22:22 | Not appropriate setting or country |
| Le Conte, G., Letourneau, A., Jani, J., Kleinfinger, P., Lohmann, L., Costa, J. M., Benachi, A.. Cell-free fetal DNA analysis in maternal plasma as screening test for trisomies 21, 18 and 13 in twin pregnancy. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 52:318-324 | Not appropriate population |
| Le Conte, G., Letourneau, A., Jani, J., Kleinfinger, P., Lohmann, L., Costa, J. M., Benachi, A.. Cell-free Fetal DNA Analysis in Maternal Plasma as Screening Test for Trisomies 21, 18, and 13 in Twin Pregnancy. <i>Obstetrical and Gynecological Survey</i> . 2019. 74:61-63 | Not relevant publication type |
| Lebo, R. V., Novak, R. W., Wolfe, K., Michelson, M., Robinson, H., Mancuso, M. S.. Discordant circulating fetal DNA and subsequent cytogenetics reveal false negative, placental mosaic, and fetal mosaic cfDNA genotypes. <i>Journal of Translational Medicine</i> . 2015. 13:260 | Not appropriate population |
| Lee, D. E., Kim, H., Park, J., Yun, T., Park, D. Y., Kim, M., Ryu, H. M.. Clinical Validation of Non-Invasive Prenatal Testing for Fetal Common Aneuploidies in 1, 055 Korean Pregnant Women: a Single Center Experience. <i>Journal of Korean Medical Science</i> . 2019. 34:e172 | Not appropriate population |
| Lee, D. E., Kim, S. Y., Lim, J. H., Park, S. Y., Ryu, H. M.. Non-invasive prenatal testing of trisomy 18 by an epigenetic marker in first trimester maternal plasma. <i>PLoS ONE [Electronic Resource]</i> . 2013. 8:e78136 | Not intervention or test of interest |
| Lee, M. Y., Cho, D. Y., Won, H. S., Hwang, A. R., Jeong, B., Kim, J., Oh, M.. Performance of Momguard, a new non-invasive prenatal testing protocol developed in Korea. <i>Obstetrics & Gynecology Science</i> . 2015. 58:340-5 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Lee, S. Y., Kim, S. J., Han, S. H., Park, J. S., Choi, H. J., Ahn, J. J., Oh, M. J., Shim, S. H., Cha, D. H., Hwang, S. Y.. A new approach of digital PCR system for non-invasive prenatal screening of trisomy 21. <i>Clinica Chimica Acta</i> . 2018. 476:75-80 | Not intervention or test of interest |
| Lee, S. Y., Shim, S. H., Youn, J. P., Kim, S. J., Kim, J. H., Jung, S. A., Choi, H. J., Oh, M. J., Lee, K. R., Cha, D. H., Hwang, S. Y.. New application methods for chromosomal abnormalities screening test using digital PCR. <i>Biochip Journal</i> . 2015. 9:339-352 | Not intervention or test of interest |
| Lee, T. J., Rolnik, D. L., Menezes, M. A., McLennan, A. C., da Silva Costa, F.. Cell-free fetal DNA testing in singleton IVF conceptions. <i>Human Reproduction</i> . 2018. 33:572-578 | Not appropriate population |
| Lefkowitz, R. B., Tynan, J. A., Liu, T., Wu, Y., Mazloom, A. R., Almasri, E., Hogg, G., Angkachatchai, V., Zhao, C., Grosu, D. S., McLennan, G., Ehrich, M.. Clinical validation of a noninvasive prenatal test for genomewide detection of fetal copy number variants. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 215:227.e1-227.e16 | Not appropriate population |
| Leung, T. Y., Qu, J. Z., Liao, G. J., Jiang, P., Cheng, Y. K., Chan, K. C., Chiu, R. W., Lo, Y. M.. Noninvasive twin zygosity assessment and aneuploidy detection by maternal plasma DNA sequencing. <i>Prenatal Diagnosis</i> . 2013. 33:675-81 | Not appropriate population |
| Lewis, C., Hill, M., Silcock, C., Daley, R., Chitty, L. S.. Non-invasive prenatal testing for trisomy 21: a cross-sectional survey of service users' views and likely uptake. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> . 2014. 121:582-94 | Not appropriate study design |
| Lewis, C., Silcock, C., Chitty, L. S.. Non-invasive prenatal testing for Down's syndrome: pregnant women's views and likely uptake. <i>Public Health Genomics</i> . 2013. 16:223-32 | Not appropriate study design |
| Li, B., Sahota, D. S., Lao, T. T., Xu, J., Hu, S. Q., Zhang, L., Liu, Q. Y., Sun, Q., Tang, D., Ma, R. M.. Applicability of first-trimester combined screening for fetal trisomy 21 in a resource-limited setting in mainland China. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> . 2016. 123 Suppl 3:23-9 | Not appropriate setting or country |
| Li, D. Z., Zhen, L., Pan, M., Han, J., Yang, X., Ou, Y. M.. Non-invasive prenatal testing: impact on invasive prenatal diagnosis at a mainland Chinese tertiary medical center. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2016. 29:3539-41 | Not appropriate setting or country |
| Li, H., Lei, Y., Zhu, H., Luo, Y., Qian, Y., Chen, M., Sun, Y., Yan, K., Yang, Y., Liu, B., Wang, L., Huang, Y., Hu, J., Xu, J., Dong, M.. The application of NIPT using combinatorial probe-anchor synthesis to identify sex chromosomal aneuploidies (SCAs) in a cohort of 570 pregnancies. <i>Molecular Cytogenetics</i> . 2018. 11:59 | Not appropriate setting or country |
| Li, M., Riming, L., Zhe, W., Hong, W., Xiaofei, H., Lina, C., Zhengfang, Z., Xuebo, W., Ning, W., Chengming, S., Qing-Qing, H., Hailiang, L., Hui, W.. Non-invasive prenatal screening for chromosome 21, 18, and 13 aneuploidies in a mixed risk factors pregnancy population. <i>Clinical and Experimental Obstetrics and Gynecology</i> . 2018. 45:523-528 | Not appropriate setting or country |
| Li, S. W., Barrett, A. N., Gole, L., Tan, W. C., Biswas, A., Tan, H. K., Choolani, M.. The assessment of combined first trimester screening in women of advanced maternal age in an Asian cohort. <i>Singapore Medical Journal</i> . 2015. 56:47-52 | Not intervention or test of interest |
| Li, W. H., Wang, P. H., Chuang, C. M., Chang, Y. W., Yang, M. J., Chen, C. Y., Chao, K. C., Yen, M. S.. Noninvasive prenatal testing for fetal trisomy in a mixed risk factors pregnancy population. <i>Taiwanese Journal of Obstetrics & Gynecology</i> . 2015. 54:122-5 | Not appropriate population |
| Liang, B., Li, H., He, Q., Li, H., Kong, L., Xuan, L., Xia, Y., Shen, J., Mao, Y., Li, Y., Wang, T., Zhao, Y. L.. Enrichment of the fetal fraction in non-invasive prenatal screening reduces maternal background interference. <i>Scientific Reports</i> . 2018. 8:17675 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Liang, D., Cram, D. S., Tan, H., Linpeng, S., Liu, Y., Sun, H., Zhang, Y., Tian, F., Zhu, H., Xu, M., Wang, H., Yu, F., Wu, L.. Clinical utility of noninvasive prenatal screening for expanded chromosome disease syndromes. <i>Genetics in Medicine</i> . 2019. 04:04 | Not appropriate setting or country |
| Liang, D., Lin, Y., Qiao, F., Li, H., Wang, Y., Zhang, J., Liu, A., Ji, X., Ma, D., Jiang, T., Hu, P., Xu, Z.. Perinatal outcomes following cell-free DNA screening in >32 000 women: Clinical follow-up data from a single tertiary center. <i>Prenatal Diagnosis</i> . 2018. 38:755-764 | Not appropriate setting or country |
| Liang, D., Lv, W., Wang, H., Xu, L., Liu, J., Li, H., Hu, L., Peng, Y., Wu, L.. Non-invasive prenatal testing of fetal whole chromosome aneuploidy by massively parallel sequencing. <i>Prenatal Diagnosis</i> . 2013. 33:409-15 | Not appropriate setting or country |
| Liao, C., Yin, A. H., Peng, C. F., Fu, F., Yang, J. X., Li, R., Chen, Y. Y., Luo, D. H., Zhang, Y. L., Ou, Y. M., Li, J., Wu, J., Mai, M. Q., Hou, R., Wu, F., Luo, H., Li, D. Z., Liu, H. L., Zhang, X. Z., Zhang, K.. Noninvasive prenatal diagnosis of common aneuploidies by semiconductor sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2014. 111:7415-20 | Not intervention or test of interest |
| Liao, G. J., Chan, K. C., Jiang, P., Sun, H., Leung, T. Y., Chiu, R. W., Lo, Y. M.. Noninvasive prenatal diagnosis of fetal trisomy 21 by allelic ratio analysis using targeted massively parallel sequencing of maternal plasma DNA. <i>PLoS ONE [Electronic Resource]</i> . 2012. 7:e38154 | Not intervention or test of interest |
| Lichtenbelt, K. D., Diemel, B. D., Koster, M. P., Manten, G. T., Siljee, J., Schuring-Blom, G. H., Page-Christiaens, G. C.. Detection of fetal chromosomal anomalies: does nuchal translucency measurement have added value in the era of non-invasive prenatal testing?. <i>Prenatal Diagnosis</i> . 2015. 35:663-8 | Not appropriate population |
| Lim, J. H., Kim, M. H., Han, Y. J., Lee, D. E., Park, S. Y., Han, J. Y., Kim, M. Y., Ryu, H. M.. Cell-free fetal DNA and cell-free total DNA levels in spontaneous abortion with fetal chromosomal aneuploidy. <i>PLoS ONE [Electronic Resource]</i> . 2013. 8:e56787 | Not appropriate population |
| Lim, J. H., Kim, S. Y., Park, S. Y., Lee, S. Y., Kim, M. J., Han, Y. J., Lee, S. W., Chung, J. H., Kim, M. Y., Yang, J. H., Ryu, H. M.. Non-invasive epigenetic detection of fetal trisomy 21 in first trimester maternal plasma. <i>PLoS ONE [Electronic Resource]</i> . 2011. 6:e27709 | Not intervention or test of interest |
| Lim, J. H., Lee, B. Y., Kim, J. W., Han, Y. J., Kim, M. H., Chung, J. H., Han, J. Y., Kim, M. Y., Ryu, H. M.. Effective Fetal Epigenetic Biomarkers for Noninvasive Fetal Trisomy 21 Detections. <i>Fetal Diagnosis & Therapy</i> . 2018. #volume#:1-6 | Not intervention or test of interest |
| Lim, J. H., Lee, D. E., Kim, K. S., Kim, H. J., Lee, B. Y., Park, S. Y., Ahn, H. K., Lee, S. W., Kim, M. Y., Ryu, H. M.. Non-invasive detection of fetal trisomy 21 using fetal epigenetic biomarkers with a high CpG density. <i>Clinical Chemistry & Laboratory Medicine</i> . 2014. 52:641-7 | Not intervention or test of interest |
| Lindquist, A., Poulton, A., Halliday, J., Hui, L.. Prenatal diagnostic testing and atypical chromosome abnormalities following combined first-trimester screening: implications for contingent models of non-invasive prenatal testing. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 51:487-492 | Not intervention or test of interest |
| Livergood, M. C., LeChien, K. A., Trudell, A. S.. Obesity and cell-free DNA "no calls": is there an optimal gestational age at time of sampling?. <i>American Journal of Obstetrics & Gynecology</i> . 2017. 216:413.e1-413.e9 | Not appropriate population |
| Lo, T. K., Chan, K. Y., Kan, A. S., So, P. L., Kong, C. W., Mak, S. L., Lee, C. N.. Decision outcomes in women offered noninvasive prenatal test (NIPT) for positive Down screening results. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2019. 32:348-350 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Lo, Y. M., Lun, F. M., Chan, K. C., Tsui, N. B., Chong, K. C., Lau, T. K., Leung, T. Y., Zee, B. C., Cantor, C. R., Chiu, R. W.. Digital PCR for the molecular detection of fetal chromosomal aneuploidy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2007. 104:13116-21 | Not intervention or test of interest |
| Lo, Y. M., Tsui, N. B., Chiu, R. W., Lau, T. K., Leung, T. N., Heung, M. M., Gerovassili, A., Jin, Y., Nicolaides, K. H., Cantor, C. R., Ding, C.. Plasma placental RNA allelic ratio permits noninvasive prenatal chromosomal aneuploidy detection. <i>Nature Medicine</i> . 2007. 13:218-23 | Not intervention or test of interest |
| Lostchuck, E., Poulton, A., Halliday, J., Hui, L.. Population-based trends in invasive prenatal diagnosis for ultrasound-based indications: two decades of change from 1994 to 2016. <i>Ultrasound in Obstetrics & Gynecology</i> . 2019. 53:503-511 | Not appropriate population |
| Loucky, J., Belaskova, S., Prusa, R., Kotaska, K.. The Effect of Inhibin A on Prenatal Screening Results for Down Syndrome in the High Risk Czech Pregnant Women. <i>Clinical Laboratory</i> . 2019. 65:01 | Not intervention or test of interest |
| Lu, J., Saller, D. N., Fraer, L. M., Chen, B. A.. Investigating Pregnancy Outcomes After Abnormal Cell-Free DNA Test Results. <i>Journal of Genetic Counseling</i> . 2018. 27:902-908 | Not appropriate population |
| Lu, R., Xu, H., Chen, X., Wang, Y.. Role of cell-free fetal DNA in the maternal plasma in the prenatal diagnosis of chromosomal abnormalities. <i>International Journal of Clinical and Experimental Medicine</i> . 2016. 9:11740-11747 | Not appropriate setting or country |
| Luo, Y., Jia, B., Yan, K., Liu, S., Song, X., Chen, M., Jin, F., Du, Y., Wang, J., Hong, Y., Cao, S., Li, D., Dong, M.. Pilot study of a novel multi-functional noninvasive prenatal test on fetus aneuploidy, copy number variation, and single-gene disorder screening. <i>Molecular Genetics & Genomic Medicine</i> . 2019. 7:e00597 | Not appropriate setting or country |
| Ma, J., Wang, Y., Wang, W., Dong, Y., Xu, C., Zhou, A., Xu, Z., Wu, Z., Tang, X., Chen, F., Yin, Y., Wang, W., Yan, M., Zhang, W., Mu, F., Yang, H.. Validation of combinatorial probe-anchor ligation-based sequencing as non-invasive prenatal test for trisomy at a central laboratory. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 50:49-57 | Not appropriate setting or country |
| Maiz, N., Alzola, I., Murua, E. J., Rodriguez Santos, J.. Cell-free DNA testing after combined test: factors affecting the uptake. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2016. 29:3558-62 | Not appropriate population |
| Mak, A., Lee, H., Poon, C. F., Kwok, S. L., Ma, T., Chan, K. Y. K., Kan, A., Tang, M., Leung, K. Y.. Factors associated with common and atypical chromosome abnormalities after positive combined first-trimester screening in Chinese women: a retrospective cohort study. <i>BMC Pregnancy & Childbirth</i> . 2019. 19:55 | Not appropriate population |
| Malan, V., Bussieres, L., Winer, N., Jais, J. P., Baptiste, A., Le Lorc'h, M., Elie, C., O'Gorman, N., Fries, N., Houfflin-Debarge, V., Sentilhes, L., Vekemans, M., Ville, Y., Salomon, L.. Effect of Cell-Free DNA Screening vs Direct Invasive Diagnosis on Miscarriage Rates in Women with Pregnancies at High Risk of Trisomy 21: a Randomized Clinical Trial. <i>Obstetrical & gynecological survey</i> . 2019. 74:16-17 | Not appropriate population |
| Malan, V., Bussieres, L., Winer, N., Jais, J. P., Baptiste, A., Le Lorc'h, M., Elie, C., O'Gorman, N., Fries, N., Houfflin-Debarge, V., Sentilhes, L., Vekemans, M., Ville, Y., Salomon, L. J., Safe Study Group. Effect of Cell-Free DNA Screening vs Direct Invasive Diagnosis on Miscarriage Rates in Women With Pregnancies at High Risk of Trisomy 21: A Randomized Clinical Trial. <i>JAMA</i> . 2018. 320:557-565 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Malcher, C., Yamamoto, G. L., Burnham, P., Ezquina, S. A. M., Lourenco, N. C. V., Balkassmi, S., Antonio, D. S. M., Hsia, G. S. P., Gollop, T., Pavanello, R. C., Lopes, M. A., Bakker, E., Zatz, M., Bertola, D., Vlamincx, I., Passos-Bueno, M. R.. Development of a comprehensive noninvasive prenatal test. <i>Genetics & Molecular Biology</i> . 2018. 41:545-554 | Not intervention or test of interest |
| Manegold-Brauer, G., Berg, C., Flock, A., Ruland, A., Gembruch, U., Geipel, A.. Uptake of non-invasive prenatal testing (NIPT) and impact on invasive procedures in a tertiary referral center. <i>Archives of Gynecology & Obstetrics</i> . 2015. 292:543-8 | Not appropriate population |
| Manegold-Brauer, G., Kang Bellin, A., Hahn, S., De Geyter, C., Buechel, J., Hoesli, I., Lapaire, O.. A new era in prenatal care: non-invasive prenatal testing in Switzerland. <i>Swiss Medical Weekly</i> . 2014. 144:w13915 | Not appropriate population |
| Manokhina, I., Singh, T. K., Robinson, W. P.. Cell-Free Placental DNA in Maternal Plasma in Relation to Placental Health and Function. <i>Fetal Diagnosis & Therapy</i> . 2017. 41:258-264 | Not outcomes of interest |
| Manotaya, S., Xu, H., Uerpaiojkit, B., Chen, F., Charoenvidhya, D., Liu, H., Petcharaburanin, N., Liu, Y., Tang, S., Wang, X., Dansakul, S., Thomsopa, T., Gao, Y., Zhang, H., Xu, H., Jiang, H.. Clinical experience from Thailand: noninvasive prenatal testing as screening tests for trisomies 21, 18 and 13 in 4736 pregnancies. <i>Prenatal Diagnosis</i> . 2016. 36:224-31 | Not appropriate setting or country |
| Martinez-Payo, C., Bada-Bosch, I., Martinez-Moya, M., Perez-Medina, T.. Clinical results after the implementation of cell-free fetal DNA detection in maternal plasma. <i>Journal of Obstetrics & Gynaecology Research</i> . 2018. 44:1369-1376 | Not appropriate population |
| Mavrou, A., Kouvidi, E., Antsaklis, A., Souka, A., Kitsiou Tzeli, S., Kolialexi, A.. Identification of nucleated red blood cells in maternal circulation: a second step in screening for fetal aneuploidies and pregnancy complications. <i>Prenatal Diagnosis</i> . 2007. 27:150-3 | Not intervention or test of interest |
| Maxwell, S., Bower, C., O'Leary, P.. Impact of prenatal screening and diagnostic testing on trends in Down syndrome births and terminations in Western Australia 1980 to 2013. <i>Prenatal Diagnosis</i> . 2015. 35:1324-1330 | Not intervention or test of interest |
| Maxwell, S., Dickinson, J. E., Murch, A., O'Leary, P.. The potential impact of NIPT as a second-tier screen on the outcomes of high-risk pregnancies with rare chromosomal abnormalities. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2015. 55:420-6 | Not appropriate population |
| Maxwell, S., James, I., Dickinson, J. E., O'Leary, P.. First trimester screening cut-offs for noninvasive prenatal testing as a contingent screen: Balancing detection and screen-positive rates for trisomy 21. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2016. 56:29-35 | Not appropriate study design |
| Maxwell, S., O'Leary, P., Dickinson, J. E., Suthers, G. K.. Diagnostic performance and costs of contingent screening models for trisomy 21 incorporating non-invasive prenatal testing. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2017. 57:432-439 | Not appropriate setting or country |
| Maya, I., Yacobson, S., Kahana, S., Yeshaya, J., Tenne, T., Agmon-Fishman, I., Cohen-Vig, L., Shohat, M., Basel-Vanagaite, L., Sharony, R.. Cut-off value of nuchal translucency as indication for chromosomal microarray analysis. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 50:332-335 | Not intervention or test of interest |
| Mazloom, A. R., Dzakula, Z., Oeth, P., Wang, H., Jensen, T., Tynan, J., McCullough, R., Saldivar, J. S., Ehrich, M., van den Boom, D., Bombard, A. T., Maeder, M., McLennan, G., Meschino, W., Palomaki, G. E., Canick, J. A., Deciu, C.. Noninvasive prenatal detection of sex chromosomal aneuploidies by sequencing circulating cell-free DNA from maternal plasma. <i>Prenatal Diagnosis</i> . 2013. 33:591-7 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| McCullough, R. M., Almasri, E. A., Guan, X., Geis, J. A., Hicks, S. C., Mazloom, A. R., Deciu, C., Oeth, P., Bombard, A. T., Paxton, B., Dharajiya, N., Saldivar, J. S. Non-invasive prenatal chromosomal aneuploidy testing--clinical experience: 100, 000 clinical samples. <i>PLoS ONE [Electronic Resource]</i> . 2014. 9:e109173 | Not appropriate population |
| McKanna, T., Ryan, A., Krinshpun, S., Kareht, S., Marchand, K., Grabarits, C., Ali, M., McElheny, A., Gardiner, K., LeChien, K., Hsu, M., Saltzman, D., Stosic, M., Martin, K., Benn, P. Fetal fraction-based risk algorithm for non-invasive prenatal testing: screening for trisomies 13 and 18 and triploidy in women with low cell-free fetal DNA. <i>Ultrasound in Obstetrics & Gynecology</i> . 2019. 53:73-79 | Not intervention or test of interest |
| McLennan, A., Palma-Dias, R., da Silva Costa, F., Meagher, S., Nisbet, D. L., Scott, F. Noninvasive prenatal testing in routine clinical practice--an audit of NIPT and combined first-trimester screening in an unselected Australian population. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2016. 56:22-8 | Outcome data cannot be abstracted |
| Meck, J. M., Kramer Dugan, E., Matyakhina, L., Aviram, A., Trunca, C., Pineda-Alvarez, D., Aradhya, S., Klein, R. T., Cherry, A. M. Noninvasive prenatal screening for aneuploidy: positive predictive values based on cytogenetic findings. <i>American Journal of Obstetrics & Gynecology</i> . 2015. 213:214.e1-5 | Not appropriate population |
| Mennuti, M. T., Cherry, A. M., Morrissette, J. J. D., Dugoff, L. Is it time to sound an alarm about false-positive cell-free DNA testing for fetal aneuploidy?. <i>Obstetrical and Gynecological Survey</i> . 2014. 69:135-136 | Not relevant publication type |
| Mennuti, M. T., Cherry, A. M., Morrissette, J. J., Dugoff, L. Is it time to sound an alarm about false-positive cell-free DNA testing for fetal aneuploidy?. <i>American Journal of Obstetrics & Gynecology</i> . 2013. 209:415-9 | Not relevant publication type |
| Mersy, E., de Die-Smulders, C. E., Coumans, A. B., Smits, L. J., de Wert, G. M., Frints, S. G., Veltman, J. A. Advantages and Disadvantages of Different Implementation Strategies of Non-Invasive Prenatal Testing in Down Syndrome Screening Programmes. <i>Public Health Genomics</i> . 2015. 18:260-71 | Not appropriate study design |
| Milićević, R., Branković, L., Radulović, D., Jugović, D., Stamenković, H., Stanković, T., Milićević, A., Madić, V., Ristić, M. Fetal chromosomal anomalies in southeast Serbia- single center cohort retrospective study. <i>Genetika</i> . 2019. 51:158-166 | Not appropriate setting or country |
| Miltoft, C. B., Rode, L., Ekelund, C. K., Sundberg, K., Kjaergaard, S., Zingenberg, H., Tabor, A. Contingent first-trimester screening for aneuploidies with cell-free DNA in a Danish clinical setting. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 51:470-479 | Not appropriate population |
| Minarik, G., Repiska, G., Hyblova, M., Nagyova, E., Soltys, K., Budis, J., Duris, F., Sysak, R., Gerykova Bujalkova, M., Vlkova-Izrael, B., Biro, O., Nagy, B., Szemes, T. Utilization of Benchtop Next Generation Sequencing Platforms Ion Torrent PGM and MiSeq in Noninvasive Prenatal Testing for Chromosome 21 Trisomy and Testing of Impact of In Silico and Physical Size Selection on Its Analytical Performance. <i>PLoS ONE [Electronic Resource]</i> . 2015. 10:e0144811 | Not intervention or test of interest |
| Mnyani, C. N., Nicolaou, E., Bister, S. The value and role of non-invasive prenatal testing in a select South African population. <i>South African Medical Journal. Suid-Afrikaanse Tydskrif Vir Geneeskunde</i> . 2016. 106:1047-1050 | Not appropriate setting or country |
| Moore, L. M., Whiteley, M. In pregnant women with a positive BUN screen or quad screen, does secondary screening with cell-free DNA reduce the incidence of invasive testing for fetal aneuploidy?. <i>Evidence-Based Practice</i> . 2018. 21:E11-E12 | Not relevant publication type |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Morris, S., Karlsen, S., Chung, N., Hill, M., Chitty, L. S., Hayes, , Inc. . Model-based analysis of costs and outcomes of non-invasive prenatal testing for Down's syndrome using cell free fetal DNA in the UK National Health Service GeneStrat (Biodesix Inc.). <i>Plos One</i> . 2014. 9:e93559 | Not appropriate setting or country |
| Morris, S., Karlsen, S., Chung, N., Hill, M., Chitty, L. S. . Model-based analysis of costs and outcomes of non-invasive prenatal testing for Down's syndrome using cell free fetal DNA in the UK National Health Service. <i>PLoS ONE [Electronic Resource]</i> . 2014. 9:e93559 | Not appropriate setting or country |
| Motavaf, M., Sadeghizadeh, M. . Noninvasive prenatal test by cell-free fetal DNA in maternal plasma: Current progress and prospective clinical applications. <i>Journal of Comprehensive Pediatrics</i> . 2014. 5:#pages# | Not relevant publication type |
| Mundy, L., Hiller, J. E. . Non-invasive prenatal diagnostic test for trisomy-21 (Down's Syndrome). #journal#. 2009. #volume#:#pages# | Not relevant publication type |
| Mundy, L., Hiller, J. E. . Non-invasive prenatal diagnostic test for Down's Syndrome. #journal#. 2008. #volume#:#pages# | Not relevant publication type |
| Nct . Non Invasive Prenatal Testing of Down Syndrome. https://clinicaltrials.gov/show/nct02127515 . 2014. #volume#:#pages# | Not relevant publication type |
| Neocleous, A. C., Nicolaidis, K. H., Schizas, C. N. . Intelligent Noninvasive Diagnosis of Aneuploidy: Raw Values and Highly Imbalanced Dataset. <i>IEEE Journal of Biomedical & Health Informatics</i> . 2017. 21:1271-1279 | Not intervention or test of interest |
| Neocleous, A. C., Syngelaki, A., Nicolaidis, K. H., Schizas, C. N. . Two-stage approach for risk estimation of fetal trisomy 21 and other aneuploidies using computational intelligence systems. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 51:503-508 | Not intervention or test of interest |
| Neufeld-Kaiser, W. A., Cheng, E. Y., Liu, Y. J. . Positive predictive value of non-invasive prenatal screening for fetal chromosome disorders using cell-free DNA in maternal serum: independent clinical experience of a tertiary referral center. <i>BMC Medicine</i> . 2015. 13:129 | Not appropriate population |
| Neyt, M., Hulstaert, F., Gyselaers, W. . Introducing the non-invasive prenatal test for trisomy 21 in Belgium: a cost-consequences analysis. <i>BMJ Open</i> . 2014. 4:e005922 | Not appropriate setting or country |
| Nicolaidis, K. H., Musci, T. J., Struble, C. A., Syngelaki, A., Gil, M. M. . Assessment of fetal sex chromosome aneuploidy using directed cell-free DNA analysis. <i>Fetal Diagnosis & Therapy</i> . 2014. 35:1-6 | Not appropriate population |
| Nicolaidis, K. H., Syngelaki, A., Ashoor, G., Birdir, C., Touzet, G. . Noninvasive prenatal testing for fetal trisomies in a routinely screened first-trimester population. <i>Obstetrical and Gynecological Survey</i> . 2013. 68:173-175 | Not relevant publication type |
| Nicolaidis, K. H., Syngelaki, A., del Mar Gil, M., Quezada, M. S., Zinevich, Y. . Prenatal detection of fetal triploidy from cell-free DNA testing in maternal blood. <i>Fetal Diagnosis & Therapy</i> . 2014. 35:212-7 | Not appropriate population |
| Nicolaidis, K. H., Syngelaki, A., Gil, M., Atanasova, V., Markova, D. . Validation of targeted sequencing of single-nucleotide polymorphisms for non-invasive prenatal detection of aneuploidy of chromosomes 13, 18, 21, X, and Y. <i>Prenatal Diagnosis</i> . 2013. 33:575-9 | Not appropriate population |
| Nicolaidis, K. H., Syngelaki, A., Poon, L. C., Gil, M. M., Wright, D. . First-trimester contingent screening for trisomies 21, 18 and 13 by biomarkers and maternal blood cell-free DNA testing. <i>Fetal Diagnosis & Therapy</i> . 2014. 35:185-92 | Not appropriate study design |
| Nicolaidis, K. H., Wright, D., Poon, L. C., Syngelaki, A., Gil, M. M. . First-trimester contingent screening for trisomy 21 by biomarkers and maternal blood cell-free DNA testing. <i>Ultrasound in Obstetrics & Gynecology</i> . 2013. 42:41-50 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Nishiyama, M., Sekizawa, A., Ogawa, K., Sawai, H., Nakamura, H., Samura, O., Suzumori, N., Nakayama, S., Yamada, T., Ogawa, M., Katagiri, Y., Murotsuki, J., Okamoto, Y., Namba, A., Hamanoue, H., Ogawa, M., Miura, K., Izumi, S., Kamei, Y., Sago, H.. Factors affecting parental decisions to terminate pregnancy in the presence of chromosome abnormalities: a Japanese multicenter study. <i>Prenatal Diagnosis</i> . 2016. 36:1121-1126 | Not appropriate population |
| Noh, J. J., Ryu, H. M., Oh, S. Y., Choi, S. J., Roh, C. R., Kim, J. H.. A two-year experience of non-invasive prenatal testing (NIPT) at an urban tertiary medical center in South Korea. <i>Taiwanese Journal of Obstetrics and Gynecology</i> . 2019. #volume#:#pages# | Not intervention or test of interest |
| Norton, M. E., Baer, R. J., Wapner, R. J., Kuppermann, M., Jelliffe-Pawlowski, L. L., Currier, R. J.. Cell-free DNA vs sequential screening for the detection of fetal chromosomal abnormalities. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 214:727.e1-6 | Not appropriate study design |
| Norton, M. E., Baer, R. J., Wapner, R. J., Kuppermann, M., Jelliffe-Pawlowski, L. L., Currier, R. J.. Cell-Free DNA vs Sequential Screening for the Detection of Fetal Chromosomal Abnormalities. <i>Obstetrical and Gynecological Survey</i> . 2016. 71:576-578 | Not relevant publication type |
| Norton, M. E., Brar, H., Weiss, J., Karimi, A., Laurent, L. C., Caughey, A. B., Rodriguez, M. H., Williams, J., 3rd, Mitchell, M. E., Adair, C. D., Lee, H., Jacobsson, B., Tomlinson, M. W., Oepkes, D., Hollemon, D., Sparks, A. B., Oliphant, A., Song, K.. Non-Invasive Chromosomal Evaluation (NICE) Study: results of a multicenter prospective cohort study for detection of fetal trisomy 21 and trisomy 18. <i>American Journal of Obstetrics & Gynecology</i> . 2012. 207:137.e1-8 | Not appropriate population |
| Norton, M. E., Jacobsson, B., Swamy, G. K., Laurent, L. C., Ranzini, A. C., Brar, H., Tomlinson, M. W., Pereira, L., Spitz, J. L., Hollemon, D., Cuckle, H., Musci, T. J., Wapner, R. J.. Cell-Free DNA Analysis for Noninvasive Examination of Trisomy. <i>Obstetrical and Gynecological Survey</i> . 2015. 70:483-484 | Not relevant publication type |
| Norton, M. E., Jelliffe-Pawlowski, L. L., Currier, R. J.. Chromosome abnormalities detected by current prenatal screening and noninvasive prenatal testing. <i>Obstetrics & Gynecology</i> . 2014. 124:979-86 | Not intervention or test of interest |
| Norwitz, E. R., McNeill, G., Kalyan, A., Rivers, E., Ahmed, E., Meng, L., Vu, P., Egbert, M., Shapira, M., Kobara, K., Parmar, S., Goel, S., Prins, S. A., Aruh, I., Persico, N., Robins, J. C., Kirshon, B., Demko, Z. P., Ryan, A., Billings, P. R., Rabinowitz, M., Benn, P., Martin, K. A., Hedriana, H. L.. Validation of a Single-Nucleotide Polymorphism-Based Non-Invasive Prenatal Test in Twin Gestations: Determination of Zygosity, Individual Fetal Sex, and Fetal Aneuploidy. <i>Journal of Clinical Medicine</i> . 2019. 8:28 | Not appropriate population |
| Nshimyumukiza, L., Beaumont, J. A., Duplantie, J., Langlois, S., Little, J., Audibert, F., McCabe, C., Gekas, J., Giguere, Y., Gagne, C., Reinharz, D., Rousseau, F.. Cell-Free DNA-Based Non-invasive Prenatal Screening for Common Aneuploidies in a Canadian Province: A Cost-Effectiveness Analysis. <i>Journal of Obstetrics & Gynaecology Canada: JOGC</i> . 2018. 40:48-60 | Not appropriate setting or country |
| O'Brien, B. M., Halliday, J., Lambert-Messerlian, G., Eklund, E. E., Kloza, E., Palomaki, G. E.. Nuchal translucency measurement in the era of prenatal screening for aneuploidy using cell free (cf)DNA. <i>Prenatal Diagnosis</i> . 2017. 37:303-305 | Not appropriate population |
| O'Brien, B. M., Kloza, E. M., Halliday, J. V., Lambert-Messerlian, G. M., Palomaki, G. E.. Maternal plasma DNA testing: experience of women counseled at a prenatal diagnosis center. <i>Genetic Testing & Molecular Biomarkers</i> . 2014. 18:665-9 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--|
| Oepkes, D., Page-Christiaens, G. C., Bax, C. J., Bekker, M. N., Bilardo, C. M., Boon, E. M., Schuring-Blom, G. H., Coumans, A. B., Faas, B. H., Galjaard, R. H., Go, A. T., Henneman, L., Macville, M. V., Pajkrt, E., Suijkerbuijk, R. F., Huijsdens-van Amsterdam, K., Van Opstal, D., Verweij, E. J., Weiss, M. M., Sistermans, E. A., and for the Dutch, Nipt Consortium. Trial by Dutch laboratories for evaluation of non-invasive prenatal testing. Part I-clinical impact. <i>Prenatal Diagnosis</i> . 2016. 36:1083-1090 | Not appropriate population |
| Ohno, M., Caughey, A.. The role of noninvasive prenatal testing as a diagnostic versus a screening tool--a cost-effectiveness analysis. <i>Prenatal Diagnosis</i> . 2013. 33:630-5 | Economic study in the U.S. but outside of date range |
| Okem, Z. G., Orgul, G., Kasnakoglu, B. T., Cakar, M., Beksac, M. S.. Economic analysis of prenatal screening strategies for Down syndrome in singleton pregnancies in Turkey. <i>European Journal of Obstetrics, Gynecology, & Reproductive Biology</i> . 2017. 219:40-44 | Not appropriate setting or country |
| Okun, N., Teitelbaum, M., Huang, T., Dewa, C. S., Hoch, J. S.. The price of performance: a cost and performance analysis of the implementation of cell-free fetal DNA testing for Down syndrome in Ontario, Canada. <i>Prenatal Diagnosis</i> . 2014. 34:350-6 | Not appropriate setting or country |
| Okun, N., Teitelbaum, M., Huang, T., Dewa, C. S., Hoch, J. S.. The price of performance: A cost and performance analysis of the implementation of cell-free fetal DNA testing for down syndrome in Ontario, Canada. <i>Obstetrical and Gynecological Survey</i> . 2014. 69:377-379 | Not appropriate setting or country |
| O'Leary, P., Maxwell, S., Murch, A., Hendrie, D.. Prenatal screening for Down syndrome in Australia: costs and benefits of current and novel screening strategies. <i>Australian & New Zealand Journal of Obstetrics & Gynaecology</i> . 2013. 53:425-33 | Not appropriate setting or country |
| Omrani, M. D., Azizi, F., Rajabibazl, M., Safavi Naini, N., Omrani, S., Abbasi, A. M., Saleh Gargari, S.. Can we rely on the multiplex ligation-dependent probe amplification method (MLPA) for prenatal diagnosis?. <i>Iranian Journal of Reproductive Medicine</i> . 2014. 12:263-8 | Not appropriate setting or country |
| Oneda, B., Steindl, K., Masood, R., Reshetnikova, I., Krejci, P., Baldinger, R., Reissmann, R., Taralczak, M., Guetg, A., Wissner, J., Fauchere, J. C., Rauch, A.. Noninvasive prenatal testing: more caution in counseling is needed in high risk pregnancies with ultrasound abnormalities. <i>European Journal of Obstetrics, Gynecology, & Reproductive Biology</i> . 2016. 200:72-5 | Not appropriate population |
| Palka, C., Guanciali-Franchi, P., Morizio, E., Alfonsi, M., Papponetti, M., Sabbatinelli, G., Palka, G., Calabrese, G., Benn, P.. Non-invasive prenatal screening: A 20-year experience in Italy. <i>European Journal of Obstetrics and Gynecology and Reproductive Biology</i> : X. 2019. 3:#pages# | Not relevant publication type |
| Palomaki, G. E., Deciu, C., Kloza, E. M., Lambert-Messerlian, G. M., Haddow, J. E., Neveux, L. M., Ehrich, M., van den Boom, D., Bombard, A. T., Grody, W. W., Nelson, S. F., Canick, J. A.. DNA sequencing of maternal plasma reliably identifies trisomy 18 and trisomy 13 as well as Down syndrome: an international collaborative study. <i>Genetics in Medicine</i> . 2012. 14:296-305 | Not appropriate population |
| Palomaki, G. E., Eklund, E. E., Neveux, L. M., Lambert Messerlian, G. M.. Evaluating first trimester maternal serum screening combinations for Down syndrome suitable for use with reflexive secondary screening via sequencing of cell free DNA: high detection with low rates of invasive procedures. <i>Prenatal Diagnosis</i> . 2015. 35:789-96 | Not intervention or test of interest |
| Palomaki, G. E., Kloza, E. M., Lambert-Messerlian, G. M., Haddow, J. E., Neveux, L. M., Ehrich, M., van den Boom, D., Bombard, A. T., Deciu, C., Grody, W. W., Nelson, S. F., Canick, J. A.. DNA sequencing of maternal plasma to detect Down syndrome: an international clinical validation study. <i>Genetics in Medicine</i> . 2011. 13:913-20 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Palomaki, G. E., Kloza, E. M., Lambert-Messerlian, G. M., van den Boom, D., Ehrich, M., Deciu, C., Bombard, A. T., Haddow, J. E.. Circulating cell free DNA testing: are some test failures informative?. <i>Prenatal Diagnosis</i> . 2015. 35:289-93 | Not appropriate population |
| Pan, M., Huang, L. Y., Zhen, L., Li, D. Z.. A cost-effectiveness analysis comparing two different strategies in advanced maternal age: Combined first-trimester screening and maternal blood cell-free DNA testing. <i>Taiwanese Journal of Obstetrics & Gynecology</i> . 2018. 57:536-540 | Not appropriate setting or country |
| Papageorgiou, A. T., Khalil, A., Forman, M., Hulme, R., Mazey, R., Mousa, H. A., Johnstone, E. D., McKelvey, A., Cohen, K. E., Risley, M., Denman, W., Kelly, B.. Clinical evaluation of the IONA test: a non-invasive prenatal screening test for trisomies 21, 18 and 13. <i>Ultrasound in Obstetrics & Gynecology</i> . 2016. 47:188-93 | Not intervention or test of interest |
| Papageorgiou, E. A., Karagrorgiou, A., Tsaliki, E., Velissariou, V., Carter, N. P., Patsalis, P. C.. Fetal-specific DNA methylation ratio permits noninvasive prenatal diagnosis of trisomy 21. <i>Nature Medicine</i> . 2011. 17:510-3 | Not intervention or test of interest |
| Papageorgiou, E. A., Karagrorgiou, A., Tsaliki, E., Velissariou, V., Carter, N. P., Patsalis, P. C.. Fetal-specific DNA methylation ratio permits noninvasive prenatal diagnosis of trisomy 21. <i>Obstetrical and Gynecological Survey</i> . 2011. 66:419-420 | Not relevant publication type |
| Pasquini, L., Ponziani, I., Periti, E., Marchi, L., Luchi, C., Accurti, V., D'Ambrosi, F., Persico, N.. Screening for Common Fetal Trisomies in Twin Pregnancies: First-Trimester Combined, Cell-Free DNA, or Both?. <i>Fetal Diagnosis & Therapy</i> . 2018. #volume#:1-6 | Not appropriate study design |
| Periti, E., Cordisco, A., Lozza, V., Conticini, S., Spitaleri, M., Farruggia, A.. The impact of the combined test on the first trimester as a method of screening for trisomies 21, 18, 13 and other chromosomal abnormalities. Experience of a single Italian fetal medicine unit on 12618 consecutive pregnancies. <i>Italian Journal of Gynaecology and Obstetrics</i> . 2017. 29:23-29 | Not appropriate population |
| Persico, N., Boito, S., Ischia, B., Cordisco, A., De Robertis, V., Fabietti, I., Periti, E., Volpe, P., Fedele, L., Rembouskos, G.. Cell-free DNA testing in the maternal blood in high-risk pregnancies after first-trimester combined screening. <i>Prenatal Diagnosis</i> . 2016. 36:232-6 | Not appropriate population |
| Pescia, G., Guex, N., Iseli, C., Brennan, L., Osteras, M., Xenarios, I., Farinelli, L., Conrad, B.. Cell-free DNA testing of an extended range of chromosomal anomalies: clinical experience with 6, 388 consecutive cases. <i>Genetics in Medicine</i> . 2017. 19:169-175 | Not appropriate population |
| Petersen, A. K., Cheung, S. W., Smith, J. L., Bi, W., Ward, P. A., Peacock, S., Braxton, A., Van Den Veyver, I. B., Breman, A. M.. Positive predictive value estimates for cell-free noninvasive prenatal screening from data of a large referral genetic diagnostic laboratory. <i>American Journal of Obstetrics & Gynecology</i> . 2017. 217:691.e1-691.e6 | Not appropriate population |
| Petersen, O. B., Vogel, I., Ekelund, C., Hyett, J., Tabor, A., Danish Fetal Medicine Study, Group, Danish Clinical Genetics Study, Group. Potential diagnostic consequences of applying non-invasive prenatal testing: population-based study from a country with existing first-trimester screening. <i>Ultrasound in Obstetrics & Gynecology</i> . 2014. 43:265-71 | Not appropriate study design |
| Petersen, O. B., Vogel, I., Ekelund, C., Hyett, J., Tabor, A.. Potential diagnostic consequences of applying noninvasive prenatal testing: Population-based study from a country with existing first-trimester screening. <i>Obstetrical and Gynecological Survey</i> . 2014. 69:321-323 | Not relevant publication type |
| Petrova, D., Garcia-Retamero, R.. Can we improve risk communication about non-invasive prenatal testing?. <i>BJOG: An International Journal of Obstetrics & Gynaecology</i> . 2018. 125:272-276 | Not relevant publication type |
| Pettit, K. E., Hull, A. D., Korty, L., Jones, M. C., Pretorius, D. H.. The utilization of circulating cell-free fetal DNA testing and decrease in invasive diagnostic procedures: an institutional experience. <i>Journal of Perinatology</i> . 2014. 34:750-3 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Peuhkurinen, S., Laitinen, P., Honkasalo, T., Ryyanen, M., Marttala, J.. Comparison of combined, biochemical and nuchal translucency screening for Down syndrome in first trimester in Northern Finland. <i>Acta Obstetrica et Gynecologica Scandinavica</i> . 2013. 92:769-74 | Not intervention or test of interest |
| Phan, M. D., Nguyen, T. V., Trinh, H. N. T., Vo, B. T., Nguyen, T. M., Nguyen, N. H., Nguyen, T. T. Q., Do, T. T. T., Hoang, T. T. D., Truong, K. D., Giang, H., Nguyen, H. N.. Establishing and validating noninvasive prenatal testing procedure for fetal aneuploidies in Vietnam. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. #volume#:1-7 | Not appropriate setting or country |
| Picchiassi, E., Coata, G., Centra, M., Pennacchi, L., Bini, V., Di Renzo, G. C.. Identification of universal mRNA markers for noninvasive prenatal screening of trisomies. <i>Prenatal Diagnosis</i> . 2010. 30:764-70 | Not intervention or test of interest |
| Platt, L. D., Janicki, M. B., Prosen, T., Goldberg, J. D., Adashek, J., Figueroa, R., Rodis, J., Liao, W., Sehnert, A. J., Snyder, H. L., Warsof, S. L.. Impact of noninvasive prenatal testing in regionally dispersed medical centers in the United States. <i>American Journal of Obstetrics & Gynecology</i> . 2014. 211:368.e1-7 | Not appropriate population |
| Poon, C. F., Tse, W. C., Kou, K. O., Leung, K. Y.. Uptake of Noninvasive Prenatal Testing in Chinese Women following Positive Down Syndrome Screening. <i>Fetal Diagnosis & Therapy</i> . 2015. 37:141-7 | Not appropriate population |
| Poon, L. C., Dumidrascu-Diris, D., Francisco, C., Fantasia, I., Nicolaidis, K. H.. IONA test for first-trimester detection of trisomies 21, 18 and 13. <i>Ultrasound in Obstetrics & Gynecology</i> . 2016. 47:184-7 | Not intervention or test of interest |
| Porreco, R. P., Garite, T. J., Maurel, K., Marusiak, B., Obstetrix Collaborative Research, Network, Ehrich, M., van den Boom, D., Deciu, C., Bombard, A.. Noninvasive prenatal screening for fetal trisomies 21, 18, 13 and the common sex chromosome aneuploidies from maternal blood using massively parallel genomic sequencing of DNA. <i>American Journal of Obstetrics & Gynecology</i> . 2014. 211:365.e1-12 | Not appropriate population |
| Prats, P., Rodriguez, I., Comas, C., Puerto, B.. Analysis of three different strategies in prenatal screening for Down's syndrome in twin pregnancies. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2013. 26:1404-9 | Not appropriate study design |
| Prefumo, F., Paolini, D., Speranza, G., Palmisano, M., Dionisi, M., Camurri, L.. The contingent use of cell-free fetal DNA for prenatal screening of trisomies 21, 18, 13 in pregnant women within a national health service: A budget impact analysis. <i>PLoS ONE [Electronic Resource]</i> . 2019. 14:e0218166 | Not appropriate setting or country |
| Prodan, N., Hoopmann, M., Abele, H., Wagner, P., Wallwiener, D., Brucker, S., Kagan, K. O.. Changes in the Detection and Management of Foetal Trisomies over Time. <i>Geburtshilfe und Frauenheilkunde</i> . 2018. 78:853-858 | Not appropriate population |
| Qi, G., Yi, J., Han, B., Liu, H., Guo, W., Shi, C., Yin, L.. Noninvasive prenatal testing in routine clinical practice for a high-risk population: Experience from a center. <i>Medicine</i> . 2016. 95:e5126 | Not appropriate setting or country |
| Qian, Y. Q., Wang, X. Q., Chen, M., Luo, Y. Q., Yan, K., Yang, Y. M., Liu, B., Wang, L. Y., Huang, Y. Z., Li, H. G., Pan, H. Y., Jin, F., Dong, M. Y.. Detection of fetal subchromosomal aberration with cell-free DNA screening led to diagnosis of parental translocation: Review of 11344 consecutive cases in a university hospital. <i>European Journal of Medical Genetics</i> . 2019. 62:115-123 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Qiang, R., Cai, N., Wang, X., Wang, L., Cui, K., Wang, W., Wang, X., Li, X.. Detection of trisomies 13, 18 and 21 using non-invasive prenatal testing. <i>Experimental & Therapeutic Medicine</i> . 2017. 13:2304-2310 | Not appropriate setting or country |
| Qiao, L., Yu, B., Liang, Y., Zhang, C., Wu, X., Xue, Y., Shen, C., He, Q., Lu, J., Xiang, J., Li, H., Zheng, Q., Wang, T.. Sequencing shorter cfDNA fragments improves the fetal DNA fraction in noninvasive prenatal testing. <i>American Journal of Obstetrics & Gynecology</i> . 2019. 21:21 | Not appropriate setting or country |
| Radoi, V. E., Bohiltea, C. L., Bohiltea, R. E., Albu, D. N.. Cell free fetal DNA testing in maternal blood of Romanian pregnant women. <i>Iranian Journal of Reproductive Medicine</i> . 2015. 13:623-6 | Not appropriate population |
| Radoi, V. E., Bohiltea, C. L., Bohiltea, R. E., Albu, D. N.. Cell free fetal DNA testing in maternal blood of Romanian pregnant women. <i>Iranian Journal of Reproductive Medicine</i> . 2015. 13:621-624 | Not appropriate population |
| Ramdaney, A., Hoskovec, J., Harkenrider, J., Soto, E., Murphy, L.. Clinical experience with sex chromosome aneuploidies detected by noninvasive prenatal testing (NIPT): Accuracy and patient decision-making. <i>Prenatal Diagnosis</i> . 2018. 38:841-848 | Not appropriate population |
| Rava, R. P., Srinivasan, A., Sehnert, A. J., Bianchi, D. W.. Circulating fetal cell-free DNA fractions differ in autosomal aneuploidies and monosomy X. <i>Clinical Chemistry</i> . 2014. 60:243-50 | Not intervention or test of interest |
| Reiff, E. S., Little, S. E., Dobson, L., Wilkins-Haug, L., Bromley, B.. What is the role of the 11- to 14-week ultrasound in women with negative cell-free DNA screening for aneuploidy?. <i>Prenatal Diagnosis</i> . 2016. 36:260-5 | Not appropriate population |
| Reimers, R. M., Mason-Suares, H., Little, S. E., Bromley, B., Reiff, E. S., Dobson, L. J., Wilkins-Haug, L.. When ultrasound anomalies are present: An estimation of the frequency of chromosome abnormalities not detected by cell-free DNA aneuploidy screens. <i>Prenatal Diagnosis</i> . 2018. 38:250-257 | Not appropriate population |
| Reiss, R. E., Discenza, M., Foster, J., Dobson, L., Wilkins-Haug, L.. Sex chromosome aneuploidy detection by noninvasive prenatal testing: helpful or hazardous?. <i>Prenatal Diagnosis</i> . 2017. 37:515-520 | Not appropriate population |
| Revello, R., Sarno, L., Ispas, A., Akolekar, R., Nicolaidis, K. H.. Screening for trisomies by cell-free DNA testing of maternal blood: consequences of a failed result. <i>Ultrasound in Obstetrics & Gynecology</i> . 2016. 47:698-704 | Not appropriate population |
| Richardson, E. J., Scott, F. P., McLennan, A. C.. Sex discordance identification following non-invasive prenatal testing. <i>Prenatal Diagnosis</i> . 2017. 37:1298-1304 | Not appropriate study design |
| Robson, S. C., Chitty, L. S., Morris, S., Verhoef, T., Ambler, G., Wellesley, D. G., Graham, R., Leader, C., Fisher, J., Crolla, J. A.. Evaluation of array comparative genomic hybridisation in prenatal diagnosis of fetal anomalies: a multicentre cohort study with cost analysis and assessment of patient, health professional and commissioner preferences for array comparative genomic hybridisation. <i>NIHR Journals Library. Efficacy and Mechanism Evaluation</i> . 2017. 02:02 | Not appropriate population |
| Rojas, P. E. B., González, B. I., Tapia, L. A., Lalana, G. M., Guardia, D. L., Arribas, M. T., Aragón, S. M. A., Carazo, H. B.. Incorporation of the study of fetal DNA in maternal blood screening for chromosomal anomalies. <i>Revista Chilena de Obstetricia y Ginecología</i> . 2015. 80:236-241 | Not in English |
| Rolnik, D. L., Yong, Y., Lee, T. J., Tse, C., McLennan, A. C., da Silva Costa, F.. Influence of Body Mass Index on Fetal Fraction Increase With Gestation and Cell-Free DNA Test Failure. <i>Obstetrics & Gynecology</i> . 2018. 132:436-443 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Rosignoli, L., Tonni, G.. Should cell-free fetal DNA be included in first trimester screening (FTS) for common trisomy? A possible scenario on 6697 women screened over 10 years. <i>Journal of Evaluation in Clinical Practice</i> . 2016. 22:899-906 | Not intervention or test of interest |
| Rousseau, F., Langlois, S., Johnson, J. A., Gekas, J., Bujold, E., Audibert, F., Walker, M., Giroux, S., Caron, A., Clement, V., Blais, J., MacLeod, T., Moore, R., Gauthier, J., Jouan, L., Laporte, A., Diallo, O., Parker, J., Swanson, L., Zhao, Y., Labelle, Y., Giguere, Y., Forest, J. C., Little, J., Karsan, A., Rouleau, G.. Prospective head-to-head comparison of accuracy of two sequencing platforms for screening for fetal aneuploidy by cell-free DNA: the PEGASUS study. <i>European Journal of Human Genetics</i> . 2019. 23:23 | Not intervention or test of interest |
| Ryan, A., Hunkapiller, N., Banjevic, M., Vankayalapati, N., Fong, N., Jinnett, K. N., Demko, Z., Zimmermann, B., Sigurjonsson, S., Gross, S. J., Hill, M.. Validation of an Enhanced Version of a Single-Nucleotide Polymorphism-Based Noninvasive Prenatal Test for Detection of Fetal Aneuploidies. <i>Fetal Diagnosis & Therapy</i> . 2016. 40:219-223 | Not intervention or test of interest |
| Sacco, A., Hewitt, H., Pandya, P.. Women's choices in non-invasive prenatal testing for aneuploidy screening: results from a single centre prior to introduction in England. <i>Archives of Disease in Childhood</i> . 2019. 26:26 | Not appropriate population |
| Sagi-Dain, L., Cohen Vig, L., Kahana, S., Yacobson, S., Tenne, T., Agmon-Fishman, I., Klein, C., Matar, R., Basel-Salmon, L., Maya, I.. Chromosomal microarray vs. NIPS: analysis of 5541 low-risk pregnancies. <i>Genetics in Medicine</i> . 2019. 24:24 | Not appropriate study design |
| Sago, H., Sekizawa, A., Japan, Nipt consortium. Nationwide demonstration project of next-generation sequencing of cell-free DNA in maternal plasma in Japan: 1-year experience. <i>Prenatal Diagnosis</i> . 2015. 35:331-6 | Not appropriate population |
| Sahota, D. S., Leung, W. C., Chan, W. P., To, W. W., Lau, E. T., Leung, T. Y.. Prospective assessment of the Hong Kong Hospital Authority universal Down syndrome screening programme. <i>Hong Kong Medical Journal</i> . 2013. 19:101-8 | Not intervention or test of interest |
| Samango-Sprouse, C., Banjevic, M., Ryan, A., Sigurjonsson, S., Zimmermann, B., Hill, M., Hall, M. P., Westemeyer, M., Saucier, J., Demko, Z., Rabinowitz, M.. SNP-based non-invasive prenatal testing detects sex chromosome aneuploidies with high accuracy. <i>Prenatal Diagnosis</i> . 2013. 33:643-9 | Not intervention or test of interest |
| Samango-Sprouse, C., Keen, C., Sadeghin, T., Gropman, A.. The benefits and limitations of cell-free DNA screening for 47, XXY (Klinefelter syndrome). <i>Prenatal Diagnosis</i> . 2017. 37:497-501 | Not relevant publication type |
| Samura, O., Sekizawa, A., Hirose, T., Suzumori, N., Yamada, T., Miura, K., Sawai, H., Hirahara, F., Sago, H.. Current status of noninvasive prenatal testing in Japan: three-year experience. <i>Prenatal diagnosis. Conference: 21st international conference on prenatal diagnosis and therapy, ISPD 2017. United states</i> . 2017. 37:54 | Not relevant publication type |
| Samura, O., Sekizawa, A., Suzumori, N., Sasaki, A., Wada, S., Hamanoue, H., Hirahara, F., Sawai, H., Nakamura, H., Yamada, T., Miura, K., Masuzaki, H., Nakayama, S., Okai, T., Kamei, Y., Namba, A., Murotsuki, J., Tanemoto, T., Fukushima, A., Haino, K., Tairaku, S., Matsubara, K., Maeda, K., Kaji, T., Ogawa, M., Osada, H., Nishizawa, H., Okamoto, Y., Kanagawa, T., Kakigano, A., Kitagawa, M., Ogawa, M., Izumi, S., Katagiri, Y., Takeshita, N., Kasai, Y., Naruse, K., Neki, R., Masuyama, H., Hyodo, M., Kawano, Y., Ohba, T., Ichizuka, K., Kido, Y., Fukao, T., Miharu, N., Nagamatsu, T., Watanabe, A., Hamajima, N., Hirose, M., Sanui, A., Shirato, N., Yotsumoto, J., Nishiyama, M., Hirose, T., Sago, H.. Current status of non-invasive prenatal testing in Japan. <i>Journal of Obstetrics & Gynaecology Research</i> . 2017. 43:1245-1255 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Sarno, L., Revello, R., Hanson, E., Akolekar, R., Nicolaides, K. H.. Prospective first-trimester screening for trisomies by cell-free DNA testing of maternal blood in twin pregnancy. <i>Ultrasound in Obstetrics & Gynecology</i> . 2016. 47:705-11 | Not appropriate population |
| Sauk, M., Zilina, O., Kurg, A., Ustav, E. L., Peters, M., Paluoja, P., Roost, A. M., Teder, H., Palta, P., Brison, N., Vermeesch, J. R., Krjutskov, K., Salumets, A., Kaplinski, L. NIPTmer: rapid k-mer-based software package for detection of fetal aneuploidies. <i>Scientific Reports</i> . 2018. 8:5616 | Not intervention or test of interest |
| Scholl, J., Chasen, S.. The Use of Ultrasound as a Potential Adjunct to Cell-Free Fetal DNA Screening for Aneuploidy at Weill Cornell Medical College, New York, USA. <i>The Surgery Journal</i> . 2018. 4:e1-e6 | Not appropriate population |
| Scibetta, E. W., Gaw, S. L., Rao, R. R., Silverman, N. S., Han, C. S., Platt, L. D.. Clinical accuracy of abnormal cell-free fetal DNA results for the sex chromosomes. <i>Prenatal Diagnosis</i> . 2017. 37:1291-1297 | Not appropriate population |
| Scott, F. P., Menezes, M., Palma-Dias, R., Nisbet, D., Schluter, P., da Silva Costa, F., McLennan, A. C.. Factors affecting cell-free DNA fetal fraction and the consequences for test accuracy. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. 31:1865-1872 | Not appropriate population |
| Sehnert, A. J., Rhees, B., Comstock, D., de Feo, E., Heilek, G., Burke, J., Rava, R. P.. Optimal detection of fetal chromosomal abnormalities by massively parallel DNA sequencing of cell-free fetal DNA from maternal blood. <i>Clinical Chemistry</i> . 2011. 57:1042-9 | Not appropriate population |
| Shah, F. T., French, K. S., Osann, K. E., Bocian, M., Jones, M. C., Korty, L.. Impact of Cell-Free Fetal DNA Screening on Patients' Choice of Invasive Procedures after a Positive California Prenatal Screen Result. <i>Journal of Clinical Medicine</i> . 2014. 3:849-64 | Not appropriate population |
| Shahbazian, N., Barati, M., Shojaei, K., Hoseininejad, S. S., Dehghani, A. M.. Cell-free fetal deoxyribonucleic acid results in low-risk pregnancy screenings for aneuploidies. <i>Journal of SAFOG</i> . 2018. 10:249-252 | Not appropriate setting or country |
| Shani, H., Goldwasser, T., Keating, J., Klugman, S.. Chromosomal abnormalities not currently detected by cell-free fetal DNA: a retrospective analysis at a single center. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 214:729.e1-729.e11 | Not appropriate population |
| Shaw, S. W., Hsiao, C. H., Chen, C. Y., Ren, Y., Tian, F., Tsai, C., Chen, M., Cheng, P. J.. Noninvasive prenatal testing for whole fetal chromosomal aneuploidies: a multicenter prospective cohort trial in Taiwan. <i>Fetal Diagnosis & Therapy</i> . 2014. 35:13-7 | Not appropriate population |
| Shen, J., Wen, Z., Qin, X., Shi, Y.. Noninvasive fetal trisomy detection by multiplexed semiconductor sequencing: a barcoding analysis strategy. <i>Journal of Human Genetics</i> . 2016. 61:247-52 | Not appropriate setting or country |
| Shi, W. L., Zhang, H., Wu, D., Chu, Y., Liao, S. X.. Non-invasive prenatal testing (NIPT) detected chromosome aneuploidies and beyond in a clinical setting. <i>International Journal of Clinical and Experimental Medicine</i> . 2016. 9:18250-18254 | Not appropriate setting or country |
| Shi, X., Zhang, Z., Cram, D. S., Liu, C.. Feasibility of noninvasive prenatal testing for common fetal aneuploidies in an early gestational window. <i>Clinica Chimica Acta</i> . 2015. 439:24-8 | Not appropriate setting or country |
| Shubina, J., Trofimov, D. Y., Barkov, I. Y., Stupko, O. K., Goltsov, A. Y., Mukosey, I. S., Tetrushvili, N. K., Kim, L. V., Bakharev, V. A., Karetnikova, N. A., Kochetkova, T. O., Krashennikova, R. V., Bystritskiy, A. A., Sukhikh, G. T.. In silico size selection is effective in reducing false positive NIPS cases of monosomy X that are due to maternal mosaic monosomy X. <i>Prenatal Diagnosis</i> . 2017. 37:1305-1310 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--|
| Sikkema-Raddatz, B., Johansson, L. F., de Boer, E. N., Boon, E. M., Suijkerbuijk, R. F., Bouman, K., Bilardo, C. M., Swertz, M. A., Dijkstra, M., van Langen, I. M., Sinke, R. J., Te Meerman, G. J. NIPTRIC: an online tool for clinical interpretation of non-invasive prenatal testing (NIPT) results. <i>Scientific Reports</i> . 2016. 6:38359 | Not intervention or test of interest |
| Sinkey, R. G., Odibo, A. O.. Cost-Effectiveness of Old and New Technologies for Aneuploidy Screening. <i>Clinics in Laboratory Medicine</i> . 2016. 36:237-48 | Not relevant publication type |
| Snyder, H. L., Curnow, K. J., Bhatt, S., Bianchi, D. W.. Follow-up of multiple aneuploidies and single monosomies detected by noninvasive prenatal testing: implications for management and counseling. <i>Prenatal Diagnosis</i> . 2016. 36:203-9 | Not appropriate population |
| Song, K., Musci, T. J., Caughey, A. B.. Clinical utility and cost of non-invasive prenatal testing with cfDNA analysis in high-risk women based on a US population. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2013. 26:1180-5 | Economic study in the U.S. but outside of date range |
| Song, Y., Huang, S., Zhou, X., Jiang, Y., Qi, Q., Bian, X., Zhang, J., Yan, Y., Cram, D. S., Liu, J.. Non-invasive prenatal testing for fetal aneuploidies in the first trimester of pregnancy. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:55-60 | Not appropriate setting or country |
| Song, Y., Liu, C., Qi, H., Zhang, Y., Bian, X., Liu, J.. Noninvasive prenatal testing of fetal aneuploidies by massively parallel sequencing in a prospective Chinese population. <i>Prenatal Diagnosis</i> . 2013. 33:700-6 | Not appropriate setting or country |
| Sotiriadis, A., Papoulidis, I., Siomou, E., Papageorgiou, E., Eleftheriades, M., Papadopoulos, V., Alexiou, M., Manolakos, E., Athanasiadis, A.. Non-invasive prenatal screening versus prenatal diagnosis by array comparative genomic hybridization: a comparative retrospective study. <i>Prenatal Diagnosis</i> . 2017. 37:583-592 | Not appropriate population |
| Sparks, A. B., Struble, C. A., Wang, E. T., Song, K., Oliphant, A.. Noninvasive prenatal detection and selective analysis of cell-free DNA obtained from maternal blood: evaluation for trisomy 21 and trisomy 18. <i>American Journal of Obstetrics & Gynecology</i> . 2012. 206:319.e1-9 | Not intervention or test of interest |
| Sparks, A. B., Wang, E. T., Struble, C. A., Barrett, W., Stokowski, R., McBride, C., Zahn, J., Lee, K., Shen, N., Doshi, J., Sun, M., Garrison, J., Sandler, J., Hollemon, D., Pattee, P., Tomita-Mitchell, A., Mitchell, M., Stuelpnagel, J., Song, K., Oliphant, A.. Selective analysis of cell-free DNA in maternal blood for evaluation of fetal trisomy. <i>Prenatal Diagnosis</i> . 2012. 32:3-9 | Not outcomes of interest |
| Srebniak, M. I., De Wit, M. C., Diderich, K. E. M., Govaerts, L. C. P., Joosten, M., Knapen, M. F. C. M., Bos, M. J., Looye-Bruinsma, G. A. G., Koningen, M., Go, A. T. J. I., Galjaard, R. J. H., Van Opstal, D.. Enlarged NT (≥ 3.5 mm) in the first trimester - Not all chromosome aberrations can be detected by NIPT. <i>Molecular Cytogenetics</i> . 2016. 9:#pages# | Not appropriate population |
| Srebniak, M. I., de Wit, M. C., Diderich, K. E., Govaerts, L. C., Joosten, M., Knapen, M. F., Bos, M. J., Looye-Bruinsma, G. A., Koningen, M., Go, A. T., Galjaard, R. J., Van Opstal, D.. Enlarged NT (≥ 3.5 mm) in the first trimester - not all chromosome aberrations can be detected by NIPT. <i>Molecular Cytogenetics</i> . 2016. 9:69 | Not appropriate population |
| Srebniak, M. I., Knapen, M. F. C. M., Polak, M., Joosten, M., Diderich, K. E. M., Govaerts, L. C. P., Boter, M., Kromosoeto, J. N. R., van Hassel, Dacm, Huijbregts, G., van, IJcken W. F. J., Heydanus, R., Dijkman, A., Toolenaar, T., de Vries, F. A. T., Knijnenburg, J., Go, Atji, Galjaard, R. H., Van Opstal, D.. The influence of SNP-based chromosomal microarray and NIPT on the diagnostic yield in 10, 000 fetuses with and without fetal ultrasound anomalies. <i>Human Mutation</i> . 2017. 38:880-888 | Not appropriate population |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Stevens, B. K., Noblin, S. J., Chen, H. Y., Czerwinski, J., Friel, L. A., Wagner, C.. Introduction of cell-free DNA screening is associated with changes in prenatal genetic counseling indications. <i>Journal of Genetic Counseling</i> . 2019. 28:692-699 | Not appropriate population |
| Stokowski, R., Wang, E., White, K., Batey, A., Jacobsson, B., Brar, H., Balanarasimha, M., Hollemon, D., Sparks, A., Nicolaides, K., Musci, T. J.. Clinical performance of non-invasive prenatal testing (NIPT) using targeted cell-free DNA analysis in maternal plasma with microarrays or next generation sequencing (NGS) is consistent across multiple controlled clinical studies. <i>Prenatal Diagnosis</i> . 2015. 35:1243-6 | Not appropriate population |
| Strah, D., Ovniček, P., Bernik, J.. Non-invasive prenatal cell-free fetal DNA testing for down syndrome and other chromosomal abnormalities. <i>Zdravniški Vestnik</i> . 2015. 84:727-733 | Not appropriate population |
| Straver, R., Sistermans, E. A., Holstege, H., Visser, A., Oudejans, C. B., Reinders, M. J.. WISECONDOR: detection of fetal aberrations from shallow sequencing maternal plasma based on a within-sample comparison scheme. <i>Nucleic Acids Research</i> . 2014. 42:e31 | Not intervention or test of interest |
| Strom, C. M., Anderson, B., Tsao, D., Zhang, K., Liu, Y., Livingston, K., Elzinga, C., Evans, M., Nguyen, Q., Wolfson, D., Rowland, C., Kolacki, P., Maxwell, M., Wang, J. C., Rabin, D., Catanese, J., Owen, R., Braastad, C., Sun, W.. Improving the Positive Predictive Value of Non-Invasive Prenatal Screening (NIPS). <i>PLoS ONE [Electronic Resource]</i> . 2017. 12:e0167130 | Not intervention or test of interest |
| Stumm, M., Entezami, M., Haug, K., Blank, C., Wustemann, M., Schulze, B., Raabe-Meyer, G., Hempel, M., Schelling, M., Ostermayer, E., Langer-Freitag, S., Burkhardt, T., Zimmermann, R., Schleicher, T., Weil, B., Schock, U., Smerdka, P., Gromminger, S., Kumar, Y., Hofmann, W.. Diagnostic accuracy of random massively parallel sequencing for non-invasive prenatal detection of common autosomal aneuploidies: a collaborative study in Europe. <i>Prenatal Diagnosis</i> . 2014. 34:185-91 | Not appropriate population |
| Stumm, M., Entezami, M., Trunk, N., Beck, M., Locherbach, J., Wegner, R. D., Hagen, A., Becker, R., Hofmann, W.. Noninvasive prenatal detection of chromosomal aneuploidies using different next generation sequencing strategies and algorithms. <i>Prenatal Diagnosis</i> . 2012. 32:569-77 | Not intervention or test of interest |
| Summers, A. M., Langlois, S., Wyatt, P., Douglas Wilson, R., Members Of The Sogc Genetics, Committee, Members Of The Ccmg Committee On Prenatal, Diagnosis, Members Of The Sogc Diagnostic Imaging, Committee. Prenatal screening for fetal aneuploidy. <i>Journal of Obstetrics & Gynaecology Canada: JOGC</i> . 2007. 29:146-161 | Other - out of date range |
| Sun, K., Chan, K. C., Hudecova, I., Chiu, R. W., Lo, Y. M., Jiang, P.. COFFEE: control-free noninvasive fetal chromosomal examination using maternal plasma DNA. <i>Prenatal Diagnosis</i> . 2017. 37:336-340 | Not intervention or test of interest |
| Sun, X., Lu, J., Ma, X.. An efficient method for noninvasive prenatal diagnosis of fetal trisomy 13, trisomy 18, and trisomy 21. <i>PLoS ONE [Electronic Resource]</i> . 2019. 14:e0215368 | Not appropriate setting or country |
| Sung-Hee, H., Yang, Young-Ho, Ryu, Jae-Song, Kang, Myung-Soo, Kim, Young-Jin, Lee, Kyoung-Ryul. Noninvasive prenatal test for fetal chromosomal aneuploidies by massively parallel sequencing of cell-free fetal DNA in maternal plasma: The first clinical experience in Korea. <i>Journal of Genetic Medicine</i> . 2015. 12:85-91 | Not appropriate population |
| Suo, F., Wang, C., Liu, T., Fang, Y., Wu, Q., Gu, M., Gou, L.. Non-invasive prenatal testing in detecting sex chromosome aneuploidy: A large-scale study in Xuzhou area of China. <i>Clinica Chimica Acta</i> . 2018. 481:139-141 | Not appropriate setting or country |
| Susman, M. R., Amor, D. J., Muggli, E., Jaques, A. M., Halliday, J.. Using population-based data to predict the impact of introducing noninvasive prenatal diagnosis for Down syndrome. <i>Genetics in Medicine</i> . 2010. 12:298-303 | Not appropriate study design |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Suzumori, N., Ebara, T., Yamada, T., Samura, O., Yotsumoto, J., Nishiyama, M., Miura, K., Sawai, H., Murotsuki, J., Kitagawa, M., Kamei, Y., Masuzaki, H., Hirahara, F., Saldivar, J. S., Dharajiya, N., Sago, H., Sekizawa, A., Japan, Nipt Consortium. Fetal cell-free DNA fraction in maternal plasma is affected by fetal trisomy. <i>Journal of Human Genetics</i> . 2016. 61:647-52 | Not appropriate population |
| Swanson, A., Meier, K., Vavrek, D., Deciu, C., Duenwald, S., Halks-Miller, M.. Clinical accuracy of a novel NIPT assay using whole-genome paired-end sequencing and a proprietary algorithm to maximize reporting of common fetal aneuploidies. <i>Prenatal diagnosis. Conference: 21st international conference on prenatal diagnosis and therapy, ISPD 2017. United states</i> . 2017. 37:55-56 | Not relevant publication type |
| Syngelaki, A., Pergament, E., Homfray, T., Akolekar, R., Nicolaides, K. H.. Replacing the combined test by cell-free DNA testing in screening for trisomies 21, 18 and 13: impact on the diagnosis of other chromosomal abnormalities. <i>Fetal Diagnosis & Therapy</i> . 2014. 35:174-84 | Not appropriate study design |
| Tabor, A., Alfirevic, Z.. Update on procedure-related risks for prenatal diagnosis techniques. <i>Fetal diagnosis and therapy</i> . 2010. 27:1-7 | Not intervention or test of interest |
| Tan, C., Chen, X., Wang, F., Wang, D., Cao, Z., Zhu, X., Lu, C., Yang, W., Gao, N., Gao, H., Guo, Y., Zhu, L.. A multiplex droplet digital PCR assay for non-invasive prenatal testing of fetal aneuploidies. <i>Analyst</i> . 2019. 144:2239-2247 | Not appropriate setting or country |
| Tan, Y., Gao, Y., Lin, G., Fu, M., Li, X., Yin, X., Du, J., Li, J., Li, W., Peng, H., Yuan, Y., Chen, F., Jiang, F., Zhang, H., Lu, G., Gong, F., Wang, W.. Noninvasive prenatal testing (NIPT) in twin pregnancies with treatment of assisted reproductive techniques (ART) in a single center. <i>Prenatal Diagnosis</i> . 2016. 36:672-9 | Not appropriate setting or country |
| Taneja, P. A., Prosen, T. L., de Feo, E., Kruglyak, K. M., Halks-Miller, M., Curnow, K. J., Bhatt, S.. Fetal aneuploidy screening with cell-free DNA in late gestation. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2017. 30:338-342 | Not appropriate population |
| Taneja, P. A., Snyder, H. L., de Feo, E., Kruglyak, K. M., Halks-Miller, M., Curnow, K. J., Bhatt, S.. Noninvasive prenatal testing in the general obstetric population: clinical performance and counseling considerations in over 85 000 cases. <i>Prenatal Diagnosis</i> . 2016. 36:237-43 | Not appropriate population |
| Taylor, J. B., Chock, V. Y., Hudgins, L.. NIPT in a clinical setting: an analysis of uptake in the first months of clinical availability. <i>Journal of Genetic Counseling</i> . 2014. 23:72-8 | Not appropriate population |
| Tian, Y., Zhang, L., Tian, W., Gao, J., Jia, L., Cui, S.. Analysis of the accuracy of Z-scores of non-invasive prenatal testing for fetal Trisomies 13, 18, and 21 that employs the ion proton semiconductor sequencing platform. <i>Molecular Cytogenetics</i> . 2018. 11:49 | Not appropriate setting or country |
| Tiller, G. E., Kershberg, H. B., Goff, J., Coffeen, C., Liao, W., Sehnert, A. J.. Women's views and the impact of noninvasive prenatal testing on procedures in a managed care setting. <i>Prenatal Diagnosis</i> . 2015. 35:428-33 | Not appropriate population |
| Togneri, F., Court, S., Parks, M., Clokie, S., Hamilton, S., Bibb, N., Williams, D., Kilby, M., McMullan, D., Allen, S.. Noninvasive prenatal testing (NIPT) for fetal aneuploidy: the experience of an NHS Regional Genetics Laboratory. <i>BJOG: an international journal of obstetrics and gynaecology. Conference: RCOG world congress 2016 united kingdom. Conference start: 20160620 conference end: 20160622</i> . 2016. 123:5 | Not relevant publication type |
| Tong, Y. K., Jin, S., Chiu, R. W., Ding, C., Chan, K. C., Leung, T. Y., Yu, L., Lau, T. K., Lo, Y. M.. Noninvasive prenatal detection of trisomy 21 by an epigenetic-genetic chromosome-dosage approach. <i>Clinical Chemistry</i> . 2010. 56:90-8 | Not intervention or test of interest |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Tsui, D. W., Lam, Y. M., Lee, W. S., Leung, T. Y., Lau, T. K., Lau, E. T., Tang, M. H., Akolekar, R., Nicolaides, K. H., Chiu, R. W., Lo, Y. M., Chim, S. S.. Systematic identification of placental epigenetic signatures for the noninvasive prenatal detection of Edwards syndrome. <i>PLoS ONE [Electronic Resource]</i> . 2010. 5:e15069 | Not intervention or test of interest |
| Tsui, N. B., Akolekar, R., Chiu, R. W., Chow, K. C., Leung, T. Y., Lau, T. K., Nicolaides, K. H., Lo, Y. M.. Synergy of total PLAC4 RNA concentration and measurement of the RNA single-nucleotide polymorphism allelic ratio for the noninvasive prenatal detection of trisomy 21. <i>Clinical Chemistry</i> . 2010. 56:73-81 | Not intervention or test of interest |
| Tsui, N. B., Wong, B. C., Leung, T. Y., Lau, T. K., Chiu, R. W., Lo, Y. M.. Non-invasive prenatal detection of fetal trisomy 18 by RNA-SNP allelic ratio analysis using maternal plasma SERPINB2 mRNA: a feasibility study. <i>Prenatal Diagnosis</i> . 2009. 29:1031-7 | Not intervention or test of interest |
| Tynan, J. A., Kim, S. K., Mazloom, A. R., Zhao, C., McLennan, G., Tim, R., Liu, L., Hannum, G., Hull, A., Bombard, A. T., Oeth, P., Burcham, T., van den Boom, D., Ehrich, M.. Application of risk score analysis to low-coverage whole genome sequencing data for the noninvasive detection of trisomy 21, trisomy 18, and trisomy 13. <i>Prenatal Diagnosis</i> . 2016. 36:56-62 | Not appropriate population |
| Vahanian, S. A., Baraa Allaf, M., Yeh, C., Chavez, M. R., Kinzler, W. L., Vintzileos, A. M.. Patient acceptance of non-invasive testing for fetal aneuploidy via cell-free fetal DNA. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2014. 27:106-9 | Not appropriate population |
| Valderramos, S. G., Rao, R. R., Scibetta, E. W., Silverman, N. S., Han, C. S., Platt, L. D.. Cell-free DNA screening in clinical practice: abnormal autosomal aneuploidy and microdeletion results. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 215:626.e1-626.e10 | Not appropriate population |
| van den Oever, J. M., Balkassmi, S., Verweij, E. J., van Iterson, M., Adama van Scheltema, P. N., Oepkes, D., van Lith, J. M., Hoffer, M. J., den Dunnen, J. T., Bakker, E., Boon, E. M.. Single molecule sequencing of free DNA from maternal plasma for noninvasive trisomy 21 detection. <i>Clinical Chemistry</i> . 2012. 58:699-706 | Not intervention or test of interest |
| van der Steen, S. L., Houtman, D., Bakkeren, I. M., Galjaard, R. H., Polak, M. G., Busschbach, J. J., Tibben, A., Riedijk, S. R.. Offering a choice between NIPT and invasive PND in prenatal genetic counseling: the impact of clinician characteristics on patients' test uptake. <i>European Journal of Human Genetics</i> . 2019. 27:235-243 | Not appropriate population |
| Van Opstal, D., Srebniak, M. I., Polak, J., de Vries, F., Govaerts, L. C., Joosten, M., Go, A. T., Knapen, M. F., van den Berg, C., Diderich, K. E., Galjaard, R. J.. False Negative NIPT Results: Risk Figures for Chromosomes 13, 18 and 21 Based on Chorionic Villi Results in 5967 Cases and Literature Review. <i>PLoS ONE [Electronic Resource]</i> . 2016. 11:e0146794 | Not appropriate population |
| van Schendel, R. V., Page-Christiaens, Gcml, Beulen, L., Bilardo, C. M., de Boer, M. A., Coumans, A. B. C., Faas, B. H. W., van Langen, I. M., Lichtenbelt, K. D., van Maarle, M. C., Macville, M. V. E., Oepkes, D., Pajkr, E., Henneman, L., Dutch, Nipt Consortium. Women's Experience with Non-Invasive Prenatal Testing and Emotional Well-being and Satisfaction after Test-Results. <i>Journal of Genetic Counseling</i> . 2017. 26:1348-1356 | Not appropriate population |
| Veduta, A., Vayna, A. M., Duta, S., Panaitescu, A., Popescu, F., Bari, M., Peltecu, G., Nedelea, F.. The first trimester combined test for aneuploidies - a single center experience. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. 31:2091-2096 | Not intervention or test of interest |
| Verhoef, T. I., Daley, R., Vallejo-Torres, L., Chitty, L. S., Morris, S.. Time and travel costs incurred by women attending antenatal tests: A costing study. <i>Midwifery</i> . 2016. 40:148-52 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Verma, I. C., Puri, R., Venkataswamy, E., Tayal, T., Nampoorthiri, S., Andrew, C., Kabra, M., Bagga, R., Gowda, M., Batra, M., Hegde, S., Kaul, A., Gupta, N., Mishra, P., Subramanian, J. G., Lingaiah, S., Akhtar, R., Kidangan, F., Chandran, R., Kiran, C., Ravi Kumar, G. R., Ramprasad, V. L., Kadam, P.. Single Nucleotide Polymorphism-Based Noninvasive Prenatal Testing: Experience in India. <i>Journal of Obstetrics & Gynaecology of India</i> . 2018. 68:462-470 | Not appropriate setting or country |
| Verweij, E. J., Jacobsson, B., van Scheltema, P. A., de Boer, M. A., Hoffer, M. J., Hollemon, D., Westgren, M., Song, K., Oepkes, D.. European non-invasive trisomy evaluation (EU-NITE) study: a multicenter prospective cohort study for non-invasive fetal trisomy 21 testing. <i>Prenatal Diagnosis</i> . 2013. 33:996-1001 | Not appropriate population |
| Vivic, A., Hafner, T., Bekavac Vlatkovic, I., Korac, P., Habek, D., Stipoljev, F.. Prenatal diagnosis of Down syndrome: A 13-year retrospective study. <i>Taiwanese Journal of Obstetrics & Gynecology</i> . 2017. 56:731-735 | Not intervention or test of interest |
| Vinante, V., Keller, B., Huhn, E. A., Huang, D., Lapaire, O., Manegold-Brauer, G.. Impact of nationwide health insurance coverage for non-invasive prenatal testing. <i>International Journal of Gynaecology & Obstetrics</i> . 2018. 141:189-193 | Not appropriate population |
| Vogel, I., Petersen, O. B., Christensen, R., Hyett, J., Lou, S., Vestergaard, E. M.. Chromosomal microarray as primary diagnostic genomic tool for pregnancies at increased risk within a population-based combined first-trimester screening program. <i>Ultrasound in Obstetrics & Gynecology</i> . 2018. 51:480-486 | Not appropriate population |
| Vora, N. L., Robinson, S., Hardisty, E. E., Stamilio, D. M.. Utility of ultrasound examination at 10-14 weeks prior to cell-free DNA screening for fetal aneuploidy. <i>Ultrasound in Obstetrics & Gynecology</i> . 2017. 49:465-469 | Not appropriate population |
| Vossaert, L., Wang, Q., Salman, R., Zhuo, X., Qu, C., Henke, D., Seubert, R., Chow, J., U'Ren, L., Enright, B., Stilwell, J., Kaldjian, E., Yang, Y., Shaw, C., Levy, B., Wapner, R., Breman, A., Van den Veyver, I., Beaudet, A.. Reliable detection of subchromosomal deletions and duplications using cell-based noninvasive prenatal testing. <i>Prenatal Diagnosis</i> . 2018. 38:1069-1078 | Not intervention or test of interest |
| Wald, N. J., Bestwick, J. P.. Incorporating DNA sequencing into current prenatal screening practice for Down's syndrome. <i>PLoS ONE [Electronic Resource]</i> . 2013. 8:e58732 | Not appropriate study design |
| Wald, N. J., Bestwick, J. P.. Performance of antenatal reflex DNA screening for Down's syndrome. <i>Journal of Medical Screening</i> . 2015. 22:168-74 | Not appropriate study design |
| Wald, N. J., Bestwick, J. P.. Prenatal reflex DNA screening for Down syndrome: enhancing the screening performance of the initial first trimester test. <i>Prenatal Diagnosis</i> . 2016. 36:328-31 | Not intervention or test of interest |
| Wald, N. J., Huttly, W. J., Bestwick, J. P., Old, R., Morris, J. K., Cheng, R., Aquilina, J., Peregrine, E., Roberts, D., Alfirevic, Z.. Prenatal reflex DNA screening for trisomies 21, 18, and 13. <i>Genetics in Medicine</i> . 2018. 20:825-830 | Not appropriate population |
| Wallerstein, R., Jelks, A., Garabedian, M. J.. A new model for providing cell-free DNA and risk assessment for chromosome abnormalities in a public hospital setting. <i>Journal of Pregnancy</i> . 2014. 2014:962720 | Not appropriate population |
| Wan, J., Li, R., Zhang, Y., Jing, X., Yu, Q., Li, F., Li, Y., Zhang, L., Yi, C., Li, J., Li, D., Liao, C.. Pregnancy outcome of autosomal aneuploidies other than common trisomies detected by noninvasive prenatal testing in routine clinical practice. <i>Obstetrical and Gynecological Survey</i> . 2019. 74:141-143 | Not relevant publication type |
| Wang, J. C., Sahoo, T., Schonberg, S., Kopita, K. A., Ross, L., Patek, K., Strom, C. M.. Discordant noninvasive prenatal testing and cytogenetic results: a study of 109 consecutive cases. <i>Genetics in Medicine</i> . 2015. 17:234-6 | Not appropriate population |

| Reference | Reason for Exclusion |
|---|------------------------------------|
| Wang, L., Meng, Q., Tang, X., Yin, T., Zhang, J., Yang, S., Wang, X., Wu, H., Shi, Q., Jenkins, E. C., Zhong, N., Gu, Y.. Maternal mosaicism of sex chromosome causes discordant sex chromosomal aneuploidies associated with noninvasive prenatal testing. <i>Taiwanese Journal of Obstetrics & Gynecology</i> . 2015. 54:527-31 | Not appropriate population |
| Wang, S., Huang, S., Ma, L., Liang, L., Zhang, J., Zhang, J., Cram, D. S.. Maternal X chromosome copy number variations are associated with discordant fetal sex chromosome aneuploidies detected by noninvasive prenatal testing. <i>Clinica Chimica Acta</i> . 2015. 444:113-6 | Not appropriate setting or country |
| Wang, T., He, Q., Li, H., Ding, J., Wen, P., Zhang, Q., Xiang, J., Li, Q., Xuan, L., Kong, L., Mao, Y., Zhu, Y., Shen, J., Liang, B., Li, H.. An Optimized Method for Accurate Fetal Sex Prediction and Sex Chromosome Aneuploidy Detection in Non-Invasive Prenatal Testing. <i>PLoS ONE [Electronic Resource]</i> . 2016. 11:e0159648 | Not appropriate setting or country |
| Wang, Y., Wen, Z., Shen, J., Cheng, W., Li, J., Qin, X., Ma, D., Shi, Y.. Comparison of the performance of Ion Torrent chips in noninvasive prenatal trisomy detection. <i>Journal of Human Genetics</i> . 2014. 59:393-6 | Not appropriate setting or country |
| Wax, J. R., Cartin, A., Chard, R., Lucas, F. L., Pinette, M. G.. Noninvasive prenatal testing: impact on genetic counseling, invasive prenatal diagnosis, and trisomy 21 detection. <i>Journal of Clinical Ultrasound</i> . 2015. 43:1-6 | Not appropriate population |
| Wax, J. R., Chard, R., Cartin, A., Litton, C., Pinette, M. G., Lucas, F. L.. Noninvasive prenatal testing: the importance of pretest trisomy risk and posttest predictive values. <i>American Journal of Obstetrics & Gynecology</i> . 2015. 212:548-9 | Not relevant publication type |
| White, K., Wang, Y., Kunz, L. H., Schmid, M.. Factors associated with obtaining results on repeat cell-free DNA testing in samples redrawn due to insufficient fetal fraction. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2019. #volume#:1-6 | Not appropriate population |
| Willems, P. J., Dierickx, H., Vandenakker, E., Bekedam, D., Segers, N., Debouille, K., Vereecken, A.. The first 3, 000 Non-Invasive Prenatal Tests (NIPT) with the Harmony test in Belgium and the Netherlands. <i>Facts Views & Vision in Obgyn</i> . 2014. 6:7-12 | Not appropriate population |
| Williams, J., 3rd, Rad, S., Beauchamp, S., Ratousi, D., Subramaniam, V., Farivar, S., Pisarska, M. D.. Utilization of noninvasive prenatal testing: impact on referrals for diagnostic testing. <i>American Journal of Obstetrics & Gynecology</i> . 2015. 213:102.e1-102.e6 | Not appropriate population |
| Wilson, K. L., Czerwinski, J. L., Hoskovec, J. M., Noblin, S. J., Sullivan, C. M., Harbison, A., Champion, M. W., Devary, K., Devers, P., Singletary, C. N.. NSGC practice guideline: prenatal screening and diagnostic testing options for chromosome aneuploidy. <i>Journal of Genetic Counseling</i> . 2013. 22:4-15 | Other - outside of date range |
| Wiwanitkit, V.. Cost-effectiveness analysis for triple markers serum screening for Down's syndrome in Thai setting. <i>Indian Journal of Human Genetics</i> . 2014. 20:153-4 | Not appropriate setting or country |
| Wright, C. F., Burton, H.. The use of cell-free fetal nucleic acids in maternal blood for non-invasive prenatal diagnosis. <i>Human Reproduction Update</i> . 2009. 15:139-51 | Not relevant publication type |
| Wright, C. F., Chitty, L. S.. Cell-free fetal DNA and RNA in maternal blood: implications for safer antenatal testing. <i>BMJ</i> . 2009. 339:b2451 | Not relevant publication type |
| Wright, D., Carey, L., Battersby, S., Nguyen, T., Clarke, M., Nash, B., Gulesserian, E., Cross, J., Darmanian, A.. Validation of a Chromosomal Microarray for Prenatal Diagnosis Using a Prospective Cohort of Pregnancies with Increased Risk for Chromosome Abnormalities. <i>Genetic testing and molecular biomarkers</i> . 2016. 20:791-798 | Not appropriate population |
| Wright, D., Wright, A., Nicolaides, K. H.. A unified approach to risk assessment for fetal aneuploidies. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:48-54 | Not appropriate study design |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Wu, D., Chi, H., Shao, M., Wu, Y., Jin, H., Wu, B., Qiao, J.. Prenatal diagnosis of Down syndrome using cell-free fetal DNA in amniotic fluid by quantitative fluorescent polymerase chain reaction. <i>Chinese Medical Journal</i> . 2014. 127:1897-901 | Not appropriate setting or country |
| Xi, Y., Arbabi, A., McNaughton, A. J. M., Hamilton, A., Hull, D., Perras, H., Chiu, T., Morrison, S., Goldsmith, C., Creede, E., Anger, G. J., Honeywell, C., Cloutier, M., Macchio, N., Kiss, C., Liu, X., Crocker, S., Davies, G. A., Brudno, M., Armour, C. M.. Noninvasive Prenatal Detection of Trisomy 21 by Targeted Semiconductor Sequencing: A Technical Feasibility Study. <i>Fetal Diagnosis & Therapy</i> . 2017. 42:302-310 | Not appropriate population |
| Xu, C., Wang, T., Liu, C., Li, H., Chen, X., Zhu, H., Chen, S., Xin, Q., Tao, J., Huang, L., Jiang, Z.. Noninvasive Prenatal Screening of Fetal Aneuploidy without Massively Parallel Sequencing. <i>Clinical Chemistry</i> . 2017. 63:861-869 | Not appropriate setting or country |
| Xu, X. P., Gan, H. Y., Li, F. X., Tian, Q., Zhang, J., Liang, R. L., Li, M., Yang, X. X., Wu, Y. S.. A Method to Quantify Cell-Free Fetal DNA Fraction in Maternal Plasma Using Next Generation Sequencing: Its Application in Non-Invasive Prenatal Chromosomal Aneuploidy Detection. <i>PLoS ONE [Electronic Resource]</i> . 2016. 11:e0146997 | Not appropriate setting or country |
| Xu, Y., Chen, L., Liu, Y., Hao, Y., Xu, Z., Deng, L., Xie, J.. Screening, prenatal diagnosis, and prenatal decision for sex chromosome aneuploidy. <i>Expert Review of Molecular Diagnostics</i> . 2019. 19:537-542 | Not appropriate setting or country |
| Xu, Y., Wei, Y., Ming, J., Li, N., Xu, N., Pong, R. W., Chen, Y.. Cost-Effectiveness Analysis of Non-invasive Prenatal Testing for Down Syndrome in China. <i>International Journal of Technology Assessment in Health Care</i> . 2019. 35:237-242 | Not appropriate setting or country |
| Xue, Y., Li, H., Zhang, Q., Zhao, G., Ding, J., Shen, C., Qiao, L., Wang, T.. Noninvasive Prenatal Screening for Fetal Sex Chromosome Aneuploidies at Two Next-Generation Sequencing Platforms. <i>Annals of Clinical & Laboratory Science</i> . 2018. 48:501-505 | Not appropriate setting or country |
| Xue, Y., Zhao, G., Li, H., Zhang, Q., Lu, J., Yu, B., Wang, T.. Non-invasive prenatal testing to detect chromosome aneuploidies in 57, 204 pregnancies. <i>Molecular Cytogenetics</i> . 2019. 12:29 | Not appropriate setting or country |
| Yamada, T., Sekizawa, A., Fujii, Y., Hirose, T., Samura, O., Suzumori, N., Miura, K., Sawai, H., Hirahara, F., Murotsuki, J., Kamei, Y., Sago, H., Japan, Nipt consortium. Maternal age-specific risk for trisomy 21 based on the clinical performance of NIPT and empirically derived NIPT age-specific positive and negative predictive values in Japan. <i>Journal of Human Genetics</i> . 2018. 63:1035-1040 | Not appropriate population |
| Yan, J., Ayer, T., Keskinocak, P., Caughey, A. B.. Preference-sensitive risk-cutoff values for prenatal-integrated screening test for Down syndrome. <i>Prenatal Diagnosis</i> . 2015. 35:645-51 | Not intervention or test of interest |
| Yang, J., Qi, Y., Hou, Y., Guo, F., Peng, H., Wang, D., Haoxin, O. Y., Wang, Y., Huang, H., Yin, A.. Performance of non-invasive prenatal testing for trisomies 21 and 18 in twin pregnancies. <i>Molecular Cytogenetics</i> . 2018. 11:47 | Not appropriate setting or country |
| Yao, H., Gao, Y., Zhao, J., Zhang, R., Xu, H., Hu, H., Luo, Y., Yuan, Y., Fu, M., Zhang, H., Jiang, H., Wang, W., Yang, H., Wang, J., Liang, Z., Chen, F.. Genome-wide detection of additional fetal chromosomal abnormalities by cell-free DNA testing of 15, 626 consecutive pregnant women. <i>Science China. Life sciences</i> . 2019. 62:215-224 | Not appropriate setting or country |
| Yao, H., Jiang, F., Hu, H., Gao, Y., Zhu, Z., Zhang, H., Wang, Y., Guo, Y., Liu, L., Yuan, Y., Zhou, L., Wang, J., Du, B., Qu, N., Zhang, R., Dong, Y., Xu, H., Chen, F., Jiang, H., Liu, Y., Zhang, L., Tian, Z., Liu, Q., Zhang, C., Pan, X., Yang, S., Zhao, L., Wang, W., Liang, Z.. Detection of fetal sex chromosome aneuploidy by massively parallel sequencing of maternal plasma DNA: initial experience in a Chinese hospital. <i>Ultrasound in Obstetrics & Gynecology</i> . 2014. 44:17-24 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|--|--------------------------------------|
| Yared, E., Dinsmoor, M. J., Endres, L. K., Vanden Berg, M. J., Maier Hoell, C. J., Lapin, B., Plunkett, B. A.. Obesity increases the risk of failure of noninvasive prenatal screening regardless of gestational age. <i>American Journal of Obstetrics & Gynecology</i> . 2016. 215:370.e1-6 | Not appropriate population |
| Yaron, Y., Hyett, J., Langlois, S.. Current controversies in prenatal diagnosis 2: For those women screened by NIPT using cell-free DNA, maternal serum markers are obsolete. <i>Obstetrical and Gynecological Survey</i> . 2017. 72:216-217 | Not relevant publication type |
| Yeang, C. H., Ma, G. C., Hsu, H. W., Lin, Y. S., Chang, S. M., Cheng, P. J., Chen, C. A., Ni, Y. H., Chen, M.. Genome-wide normalized score: a novel algorithm to detect fetal trisomy 21 during non-invasive prenatal testing. <i>Ultrasound in Obstetrics & Gynecology</i> . 2014. 44:25-30 | Not intervention or test of interest |
| Yu, B., Jiang, T., Long, W., Ding, J., Zhang, X. Q., Zhang, X. J., Wang, T.. Are the selected criteria of NIPT reasonable? New point of view from the analysis of the down syndrome characteristics. <i>International Journal of Clinical and Experimental Medicine</i> . 2017. 10:16651-16656 | Not appropriate setting or country |
| Yu, B., Li, H., Chen, Y. P., Zhang, B., Xue, Y., He, Q., Zhou, Q., Cai, Z., Wang, T.. Clinical evaluation of NIPS for women at advanced maternal age: a multicenter retrospective study. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. #volume#:1-6 | Not appropriate setting or country |
| Yu, B., Lu, B. Y., Zhang, B., Zhang, X. Q., Chen, Y. P., Zhou, Q., Jiang, J., Wang, H. Y.. Overall evaluation of the clinical value of prenatal screening for fetal-free DNA in maternal blood. <i>Medicine</i> . 2017. 96:e7114 | Not appropriate setting or country |
| Yu, D., Zhang, K., Han, M., Pan, W., Chen, Y., Wang, Y., Jiao, H., Duan, L., Zhu, Q., Song, X., Hong, Y., Chen, C., Wang, J., Hui, F., Huang, L., Chen, C., Du, Y.. Noninvasive prenatal testing for fetal subchromosomal copy number variations and chromosomal aneuploidy by low-pass whole-genome sequencing. <i>Molecular Genetics & Genomic Medicine</i> . 2019. 7:e674 | Not appropriate setting or country |
| Yu, S. C., Chan, K. C., Zheng, Y. W., Jiang, P., Liao, G. J., Sun, H., Akolekar, R., Leung, T. Y., Go, A. T., van Vugt, J. M., Minekawa, R., Oudejans, C. B., Nicolaidis, K. H., Chiu, R. W., Lo, Y. M.. Size-based molecular diagnostics using plasma DNA for noninvasive prenatal testing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> . 2014. 111:8583-8 | Not intervention or test of interest |
| Yu, W., Lv, Y., Yin, S., Liu, H., Li, X., Liang, B., Kong, L., Liu, C.. Screening of fetal chromosomal aneuploidy diseases using noninvasive prenatal testing in twin pregnancies. <i>Expert Review of Molecular Diagnostics</i> . 2019. 19:189-196 | Not appropriate setting or country |
| Yuan, Y., Jiang, F., Hua, S., Du, B., Hao, Y., Ye, L., Liu, J., Feng, K., Huang, X., Yi, X., Wang, W., Yang, L., Mu, F., Liu, C., Liang, Y.. Feasibility study of semiconductor sequencing for noninvasive prenatal detection of fetal aneuploidy. <i>Clinical Chemistry</i> . 2013. 59:846-9 | Not appropriate setting or country |
| Zelig, C. M., Knutzen, D. M., Ennen, C. S., Dolinsky, B. M., Napolitano, P. G.. Chorionic Villus Sampling, Early Amniocentesis, and Termination of Pregnancy Without Diagnostic Testing: Comparison of Fetal Risk Following Positive Non-invasive Prenatal Testing. <i>Obstetrical and Gynecological Survey</i> . 2016. 71:584-585 | Not relevant publication type |
| Zelig, C. M., Knutzen, D. M., Ennen, C. S., Dolinsky, B. M., Napolitano, P. G.. Chorionic Villus Sampling, Early Amniocentesis, and Termination of Pregnancy Without Diagnostic Testing: Comparison of Fetal Risk Following Positive Non-invasive Prenatal Testing. <i>J Obstet Gynaecol Can</i> . 2016. 38:441-445.e2 | Not appropriate study design |
| Zhang, B., Lu, B. Y., Yu, B., Zheng, F. X., Zhou, Q., Chen, Y. P., Zhang, X. Q.. Noninvasive prenatal screening for fetal common sex chromosome aneuploidies from maternal blood. <i>Journal of International Medical Research</i> . 2017. 45:621-630 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|---|------------------------------------|
| Zhang, H., Gao, Y., Jiang, F., Fu, M., Yuan, Y., Guo, Y., Zhu, Z., Lin, M., Liu, Q., Tian, Z., Zhang, H., Chen, F., Lau, T. K., Zhao, L., Yi, X., Yin, Y., Wang, W.. Non-invasive prenatal testing for trisomies 21, 18 and 13: clinical experience from 146, 958 pregnancies. <i>Ultrasound in Obstetrics & Gynecology</i> . 2015. 45:530-8 | Not appropriate setting or country |
| Zhang, H., Gao, Y., Jiang, F., Fu, M., Yuan, Y., Guo, Y., Zhu, Z., Lin, M., Liu, Q., Tian, Z., Zhang, H., Chen, F., Lau, T. K., Zhao, L., Yi, X., Yin, Y., Wang, W.. Erratum: Non-invasive prenatal testing for trisomies 21, 18 and 13: Clinical experience from 146 958 pregnancies (Ultrasound Obstet Gynecol) (2015) 45 (530-538)). <i>Ultrasound in Obstetrics and Gynecology</i> . 2015. 46:130 | Not appropriate setting or country |
| Zhang, H., Zhao, Y. Y., Song, J., Zhu, Q. Y., Yang, H., Zheng, M. L., Xuan, Z. L., Wei, Y., Chen, Y., Yuan, P. B., Yu, Y., Li, D. W., Liang, J. B., Fan, L., Chen, C. J., Qiao, J.. Statistical Approach to Decreasing the Error Rate of Noninvasive Prenatal Aneuploid Detection caused by Maternal Copy Number Variation. <i>Scientific Reports</i> . 2015. 5:16106 | Not appropriate setting or country |
| Zhang, J., Zhang, B.. Second-generation non-invasive high-throughput DNA sequencing technology in the screening of Down's syndrome in advanced maternal age women. <i>Biomedical Reports</i> . 2016. 4:715-718 | Not appropriate setting or country |
| Zhang, L., Zhu, Q., Wang, H., Liu, S.. Count-based size-correction analysis of maternal plasma DNA for improved noninvasive prenatal detection of fetal trisomies 13, 18, and 21. <i>American Journal Of Translational Research</i> . 2017. 9:3469-3473 | Not appropriate setting or country |
| Zhang, M., Li, T., Chen, J., Li, L., Zhou, C., Wang, Y., Liu, W., Zhang, Y.. Non-invasive prenatal diagnosis of trisomy 21 by dosage ratio of fetal chromosome-specific epigenetic markers in maternal plasma. <i>Journal of Huazhong University of Science and Technology. Medical Sciences</i> . 2011. 31:687 | Not appropriate setting or country |
| Zhang, R., Yin, Y., Zhang, S., Chen, L., Pu, L., Deng, Q., Zhang, H., Xiao, L.. Application of Differentially Methylated Loci in Clinical Diagnosis of Trisomy 21 Syndrome. <i>Genetic Testing & Molecular Biomarkers</i> . 2019. 23:246-250 | Not appropriate setting or country |
| Zhang, Y., Liu, H., Chen, X., Xie, X., Liu, S., Wang, H.. Noninvasive prenatal diagnosis of Down syndrome in samples from Southwest Chinese gravidas using pregnant plasma placental RNA allelic ratio. <i>Genetic Testing & Molecular Biomarkers</i> . 2012. 16:1051-7 | Not appropriate setting or country |
| Zhao, W., Chen, F., Wu, M., Jiang, S., Wu, B., Luo, H., Wen, J., Hu, C., Yu, S.. Postnatal Identification of Trisomy 21: An Overview of 7, 133 Postnatal Trisomy 21 Cases Identified in a Diagnostic Reference Laboratory in China. <i>PLoS ONE [Electronic Resource]</i> . 2015. 10:e0133151 | Not appropriate setting or country |
| Zhen, L., Tian, Q., Pan, M., Han, J., Yang, X., Li, D. Z.. The indications for early prenatal diagnosis of trisomy 18: a 7-year experience at mainland China. <i>Journal of Maternal-Fetal & Neonatal Medicine</i> . 2018. #volume#:1-5 | Not appropriate setting or country |
| Zheng, Y., Wan, S., Dang, Y., Song, T., Chen, B., Zhang, J.. Non-invasive prenatal testing for detection of trisomy 13, 18, 21 and sex chromosome aneuploidies in 8594 cases. <i>Ginekologia Polska</i> . 2019. 90:270-273 | Not appropriate setting or country |
| Zhou, F., Liu, S., Wang, H.. Noninvasively diagnosing for fetal trisomy 21 by examining heterozygous single nucleotide polymorphisms in the placental specific genes on chromosome 21. <i>European Journal of Obstetrics, Gynecology, & Reproductive Biology</i> . 2019. 233:19-25 | Not appropriate setting or country |
| Zhou, Q., Pan, L., Chen, S., Chen, F., Hwang, R., Yang, X., Wang, W., Jiang, J., Xu, J., Huang, H., Xu, C.. Clinical application of noninvasive prenatal testing for the detection of trisomies 21, 18, and 13: a hospital experience. <i>Prenatal Diagnosis</i> . 2014. 34:1061-5 | Not appropriate setting or country |

| Reference | Reason for Exclusion |
|---|--------------------------------------|
| Zhou, X., Sui, L., Xu, Y., Song, Y., Qi, Q., Zhang, J., Zhu, H., Sun, H., Tian, F., Xu, M., Cram, D. S., Liu, J.. Contribution of maternal copy number variations to false-positive fetal trisomies detected by noninvasive prenatal testing. <i>Prenatal Diagnosis</i> . 2017. 37:318-322 | Not appropriate setting or country |
| Zhou, Y., Zhu, Z., Gao, Y., Yuan, Y., Guo, Y., Zhou, L., Liao, K., Wang, J., Du, B., Hou, Y., Chen, Z., Chen, F., Zhang, H., Yu, C., Zhao, L., Lau, T. K., Jiang, F., Wang, W.. Effects of Maternal and Fetal Characteristics on Cell-Free Fetal DNA Fraction in Maternal Plasma. <i>Reproductive Sciences</i> . 2015. 22:1429-35 | Not appropriate setting or country |
| Zhu, Y., Shan, Q., Zheng, J., Cai, Q., Yang, H., Zhang, J., Du, X., Jin, F.. Comparison of Efficiencies of Non-invasive Prenatal Testing, Karyotyping, and Chromosomal Micro-Array for Diagnosing Fetal Chromosomal Anomalies in the Second and Third Trimesters. <i>Frontiers in Genetics</i> . 2019. 10:69 | Not appropriate setting or country |
| Zimmermann, B., Hill, M., Gemelos, G., Demko, Z., Banjevic, M., Baner, J., Ryan, A., Sigurjonsson, S., Chopra, N., Dodd, M., Levy, B., Rabinowitz, M.. Noninvasive prenatal aneuploidy testing of chromosomes 13, 18, 21, X, and Y, using targeted sequencing of polymorphic loci. <i>Prenatal Diagnosis</i> . 2012. 32:1233-41 | Not intervention or test of interest |