



# Raskaanaolevien tautitaakka

**Onko raskaanaolevien rokottaminen riskiryhmänä tarpeen**

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**Terveyden ja hyvinvoinnin laitos**

# COVID-19 komplikaatioiden riski raskaana olevilla

- Raskaana olevilla, villityyppin verrattuna alfa ja deltavarianttien tuomat riskit sairaalahoitoon ja hengitystukeen ovat 1.2-2.5 -kertaisia  
<https://www.medrxiv.org/content/10.1101/2021.07.22.21261000v1>
- Raskauden lopputulokseen eräissä pienissä tutkimuksissa ei COVID-19 infektiolla ollut suurta vaikutusta

# Lähdemateriaalia

- Webinaari raskaana olevien rokottamisesta  
[https://media.tghn.org/media-library/2021/12/November\\_18th\\_MIWG\\_Webinar\\_KcoJVhR.pdf](https://media.tghn.org/media-library/2021/12/November_18th_MIWG_Webinar_KcoJVhR.pdf)
- Raskauksien tulokset  
<https://www.mdpi.com/2077-0383/10/10/2152>
- <https://www.mdpi.com/2077-0383/10/19/4383/htm>

# Kirjallisuutta

1. A reasoned approach towards administering COVID-19 vaccines to pregnant women. Pramanick A, Kanneganti A, Wong JLJ, Li SW, Dimri PS, Mahyuddin AP, Kumar S, Illanes SE, Chan JKY, Su LL, Biswas A, Tambyah PA, Huang RY, Mattar CNZ, Choolani M. *Prenat Diagn*. 2021 Jul;41(8):1018-1035. doi: 10.1002/pd.5985. Epub 2021 Jun 30. PMID: 34191294 Free PMC article. Review.
2. COVID-19 vaccination in pregnant and lactating diabetic women. Sculli MA, Formoso G, Sciacca L. *Nutr Metab Cardiovasc Dis*. 2021 Jun 30;31(7):2151-2155. doi: 10.1016/j.numecd.2021.04.012. Epub 2021 Apr 24. PMID: 34039507 Free PMC article.
3. Vaccination of Pregnant Women Against COVID-19. Abu-Raya B. *Neoreviews*. 2021 Sep;22(9):e570-e573. doi: 10.1542/neo.22-9-e570. PMID: 34470758
4. Equity in coronavirus disease 2019 vaccine development and deployment. Modi N, Ayres-de-Campos D, Bancalari E, Benders M, Briana D, Di Renzo GC, Fonseca EB, Hod M, Poon L, Cortes MS, Simeoni U, Tscherning C, Vento M, Visser GHA, Voto L. *Am J Obstet Gynecol*. 2021 May;224(5):423-427. doi: 10.1016/j.ajog.2021.01.006. Epub 2021 Jan 15. PMID: 33460584 Free PMC article.
5. Counseling in maternal-fetal medicine: SARS-CoV-2 infection in pregnancy. Di Mascio D, Buca D, Berghella V, Khalil A, Rizzo G, Odibo A, Saccone G, Galindo A, Liberati M, D'Antonio F. *Ultrasound Obstet Gynecol*. 2021 May;57(5):687-697. doi: 10.1002/uog.23628. PMID: 33724545 Free PMC article.
6. The coronavirus disease 2019 vaccine in pregnancy: risks, benefits, and recommendations. Stafford IA, Parchem JG, Sibai BM. *Am J Obstet Gynecol*. 2021 May;224(5):484-495. doi: 10.1016/j.ajog.2021.01.022. Epub 2021 Jan 30. PMID: 33529575 Free PMC article. Review.
7. Professionally responsible coronavirus disease 2019 vaccination counseling of obstetrical and gynecologic patients. Chervenak FA, McCullough LB, Bornstein E, Johnson L, Katz A, McLeod-Sordjan R, Nimaroff M, Rochelson BL, Tekbali A, Warman A, Williams K, Grünebaum A. *Am J Obstet Gynecol*. 2021 May;224(5):470-478. doi: 10.1016/j.ajog.2021.01.027. Epub 2021 Feb 1. PMID: 33539825 Free PMC article.
8. Exploring the Immunopathogenesis of Pregnancy With COVID-19 at the Vaccination Era. Lv D, Peng J, Long R, Lin X, Wang R, Wu D, He M, Liao S, Zhao Y, Deng D. *Front Immunol*. 2021 Jul 8;12:683440. doi: 10.3389/fimmu.2021.683440. eCollection 2021. PMID: 34305916 Free PMC article. Review.
9. Coronavirus Disease 2019 (COVID-19) Vaccines and Pregnancy: What Obstetricians Need to Know. Rasmussen SA, Kelley CF, Horton JP, Jamieson DJ. *Obstet Gynecol*. 2021 Mar 1;137(3):408-414. doi: 10.1097/AOG.0000000000004290. PMID: 33370015 Free PMC article.
10. Balancing risks: making decisions for maternal treatment without data on fetal safety. Minkoff H, Ecker J. *Am J Obstet Gynecol*. 2021 May;224(5):479-483. doi: 10.1016/j.ajog.2021.01.025. Epub 2021 Feb 1. PMID: 33539824 Free PMC article.
11. A randomized, double-blind, placebo-controlled phase III clinical trial to evaluate the efficacy and safety of SARS-CoV-2 vaccine (inactivated, Vero cell): a structured summary of a study protocol for a randomised controlled trial. Akova M, Unal S. *Trials*. 2021 Apr 13;22(1):276. doi: 10.1186/s13063-021-05180-1. PMID: 33849629 Free PMC article.
12. Maternal COVID-19, vaccination safety in pregnancy, and evidence of protective immunity. Pham A, Aronoff DM, Thompson JL. *J Allergy Clin Immunol*. 2021 Sep;148(3):728-731. doi: 10.1016/j.jaci.2021.07.013. Epub 2021 Jul 24. PMID: 34314761 Free PMC article. No abstract available.

# Kirjallisuutta, jatkuu

13. Immunogenicity of COVID-19 mRNA Vaccines in Pregnant and Lactating Women. Collier AY, McMahan K, Yu J, Tostanoski LH, Aguayo R, Ansel J, Chandrashekar A, Patel S, Apraku Bondzie E, Sellers D, Barrett J, Sanborn O, Wan H, Chang A, Anioke T, Nkolola J, Bradshaw C, Jacob-Dolan C, Feldman J, Gebre M, Borducchi EN, Liu J, Schmidt AG, Suscovich T, Linde C, Alter G, Hacker MR, Barouch DH. JAMA. 2021 Jun 15;325(23):2370-2380. doi: 10.1001/jama.2021.7563. PMID: 33983379 Free PMC article.
14. Perspectives on COVID-19 vaccination for pregnant women in South Africa. Hunter M, Moodley J, Moran N. Afr J Prim Health Care Fam Med. 2021 Jul 27;13(1):e1-e3. doi: 10.4102/phcfm.v13i1.2998. PMID: 34342475 Free PMC article.
15. An imperative to offer pregnant and lactating women access to the COVID-19 vaccination roll-out programme. Moodley J, Ngene NC, Khaliq OP, Hunter M. S Afr Med J. 2021 Apr 12;111(6):567-569. PMID: 34382568
16. Considerations for COVID-19 vaccination in pregnancy. Zamparini J, Murray L, Saggars RT, Wise AJ, Lombaard H. S Afr Med J. 2021 Apr 6;111(6):544-549. PMID: 34382563
17. Pregnancy and birth outcomes after SARS-CoV-2 vaccination in pregnancy. Theiler RN, Wick M, Mehta R, Weaver AL, Virk A, Swift M. Am J Obstet Gynecol MFM. 2021 Aug 20;3(6):100467. doi: 10.1016/j.ajogmf.2021.100467. Online ahead of print. PMID: 34425297 Free PMC article.
18. COVID-19 vaccination during pregnancy: coverage and safety. Blakeway H, Prasad S, Kalafat E, Heath PT, Ladhani SN, Le Doare K, Magee LA, O'Brien P, Rezvani A, von Dadelszen P, Khalil A. Am J Obstet Gynecol. 2021 Aug 10:S0002-9378(21)00873-5. doi: 10.1016/j.ajog.2021.08.007. Online ahead of print. PMID: 34389291 Free PMC article.
19. COVID-19 vaccination in pregnancy: early experience from a single institution. Trostle ME, Limaye MA, Avtushka V, Lighter JL, Penfield CA, Roman AS. Am J Obstet Gynecol MFM. 2021 Aug 16;3(6):100464. doi: 10.1016/j.ajogmf.2021.100464. Online ahead of print. PMID: 34411758 Free PMC article.
20. Short-term outcome of pregnant women vaccinated with BNT162b2 mRNA COVID-19 vaccine. Bookstein Peretz S, Regev N, Novick L, Nachshol M, Goffer E, Ben-David A, Asraf K, Doolman R, Levin EG, Regev Yochay G, Yinon Y. Ultrasound Obstet Gynecol. 2021 Sep;58(3):450-456. doi: 10.1002/uog.23729. Epub 2021 Aug 9. PMID: 34198360 Free PMC article.
21. Pregnancy and neonatal outcomes of COVID-19: coreporting of common outcomes from PAN-COVID and AAP-SONPM registries. Mullins E, Hudak ML, Banerjee J, Getzlaff T, Townson J, Barnette K, Playle R, Perry A, Bourne T, Lees CC; PAN-COVID investigators and the National Perinatal COVID-19 Registry Study Group. Ultrasound Obstet Gynecol. 2021 Apr;57(4):573-581. doi: 10.1002/uog.23619. PMID: 33620113 Free PMC article.
22. Prenatal maternal COVID-19 vaccination and pregnancy outcomes. Wainstock T, Yoles I, Sergienko R, Sheiner E. Vaccine. 2021 Oct 1;39(41):6037-6040. doi: 10.1016/j.vaccine.2021.09.012. Epub 2021 Sep 7. PMID: 34531079 Free PMC article.