

 ALUMINUM

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INFLUENZA VACCINES

If a username / password is requested, use “**private / papers**”

Last update: February 11, 2021

-  1. [AYOUB 2008](#)
Influenza Vaccination During Pregnancy: A Critical Assessment of the Recommendations of the Advisory Committee on Immunization Practices (ACIP)
 - Even topical thimerosal can cause abortions.
 - Flu shots with mercury in pregnancy is “ill-advised and unsupported by current scientific literature, and it should be withdrawn.”
 - Most flu inserts SAY this shot should not be given to pregnant women.

-  2. [BELCARO 2010](#)
Prevention of Flu Episodes with Colostrum & Bifivir Compared with Vaccination: An epidemiological Registry Study
 - 4 groups were compared:
 - No prevention
 - Flu vaccine
 - Vaccine + immunomodulators (colostrum + bifivir)
 - Immunomodulators only
 - Immunomodulators were more effective than the flu shots.

-  3. [BISWAS 2007](#)
Immunomodulatory Effects of Bovine Colostrum in Human Peripheral Blood Mononuclear Cells.
 - Colostrum promotes TH1 Immunity.
 - It can be an inexpensive prevention & treatment of flu & other diseases

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 4. [CESARONE 2007](#)

 **Prevention of influenza episodes with colostrum compared with vaccination in healthy and high-risk cardiovascular subjects: Epidemiologic study in San Valentino**

- 4 groups were compared:
 - Flu shots alone
 - Flu shots with colostrum
 - Colostrum alone
 - No treatment
- The colostrum did best – 3 times better than the flu shot alone – even for high risk people.

 5. [COCHRANE 2018](#)

 **Vaccines for preventing influenza in healthy adults (Cochrane Review by Demicheli)**

- There was only a 1% lower risk of getting flu.
- There was no difference in hospitalization rates or time off work.

There was an increased risk of adverse events.

 6. [COHET 2019](#)

 **Safety of AS03-adjuvanted influenza vaccines: A review of the evidence**

- This is a review of reported effects of the flu shot with AS03 adjuvant (polysorbate 80 and squalene)
- Narcolepsy was a side effect caused by T-cell mimicry.
- Otherwise it's safe and should be used in more vaccines. (Yikes)

Most of the authors **work for GSK** (Big Pharma)

 7. [COWLING 2012](#)

Increased risk of noninfluenza respiratory infections associated with receipt of inactivated influenza vaccine

- The flu shot group didn't get less flu, but DID get significantly more non-flu illnesses (including coronaviruses).

The placebo content was not described

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-  8. [DeGROOT 2013](#)
Low immunogenicity predicted for emerging avian-origin H7N9: Implication for influenza vaccine design
- "Stealth virus" ... vaccines not successful, 27% mortality but only 130 infections in 2013.
-  9. [DONZELLI 2017](#)
 **Influenza vaccination in the first trimester of pregnancy & risk of autism spectrum disorder**
- Letter to Editor: Re ZERBO 2017b
 - Says Zerbo used inappropriate stats but still got borderline significance for flu shot & autism.
 - Vaccinating in the first trimester of pregnancy will lead to 4 additional cases of **autism** per 1,000 women.
-  10. [DONZELLI 2018](#)
Influenza vaccinations for all pregnant women? Better evidence is needed.
- While the flu shot should be offered to pregnant women, tell them of the uncertainties.
-  11. [DONZELLI 2019](#)
 **Influenza vaccination in pregnancy: Careful assessment confirms safety concerns for the offspring.**
- Evidence does not support a flu vaccine in pregnancy.
 - Offspring have **excess death & serious infections.**
 - Several authors of the reviewed studies have **financial ties** to vaccine producers.
 - Parents should be given this info to make an informed choice.

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-  12. [DONZELLI 2019a](#)
Influenza vaccination for all pregnant women? So far the less biased evidence does not favour it.
- A Cochrane review shows local adverse effects and serious adverse effects with limited protection against flu.
 - Other studies in Africa & Asia show **more offspring deaths in the vaxxed group.**
 - The shot can be offered in trimester 2 or 3 (only), but with warnings & promotion of other protective behaviors.
-  13. [ESFANDIARI 2018](#)
Immune response of dry Holstein vaccinated by killed avian influenza H5N1 vaccine (Poster)
- Colostrum is a good passive immunity source;
 - Here they immunize the dry cow with the antigen of interest, so she will make the antibody when she has colostrum.
-  14. [GEIER 2003](#)
Influenza vaccination and Guillain Barre syndrome
- The median onset of paralysis = 12 days after the flu shot.
 - Results varied by brand.
-  15. [GEIER 2006a](#)
Influenza vaccine: Review of effectiveness of the US immunization program and policy considerations
- Based on hospital records, the vaccine is not effective. See Table 1 for raw data of the study.
16. [GRANDE 2016](#)
Exercise prior to influenza vaccination for limiting influenza incidence and its related complications in adults (Protocol)
- This is not a study, but a suggested study.
 - Reason: vaccine itself doesn't really work well.
 - "evidence from Cochrane systematic reviews showing no impact on hospitalisation or complication rates" but they think exercise may improve response

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17. [HAWKES 2016](#)

Debate on whether Tamiflu prevents flu deaths reignites after new analysis

- The Cochrane group analyzed 30 studies.
- 83% of patients who died received Tamiflu.
- 82% of patients who lived received Tamiflu.
- The other group disagrees.



18. [HEIKKINEN 2012](#)

Safety of MF59-adjuvanted A/H1N1 influenza vaccine in pregnancy: A comparative cohort study.

- No risk was observed in 2,295 vaccinated vs. 2,213 unvaccinated pregnant women.
- Protection against premature birth was reported
- **NOTE:** miscarriages would have been missed:
 - 1. All the women were already vaccinated before entering the study. Thus any with vaccine-related problems would not be there.
 - 2. Half of them did not enroll until after delivery; Thus, any who miscarried would not have been enrolled in this study.
- The babies were only followed for 3 months, so there was no information on their development or milestones or health.
- **Conflict of interest:** Authors consult and/or work for Novartis.

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19. [HERRING, editor](#)

Anatomy of a Pandemic: The 1918 Influenza in Hamilton

240 page book on the 1918 flu.

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-  20. [HOOKER 2017](#)
 **Influenza vaccination in the first trimester of pregnancy and risk of autism spectrum disorder**
- Letter to Editor: Re **ZERBO 2017b**
 - Hooker says the Bonferroni adjustment was not appropriate.\
 - Changing the first semester flu shot to “chance” should not have been done. Besides, that is the trimester most suspected to be problematic.
-  21. [HUTCHEON 2016](#)
Detectable Risks in Studies of the Fetal Benefits of Maternal Influenza Vaccination
- Flu vaccine. pregnancy. "small magnitude of detectable effect size ... " Canada.
 - The “large fetal benefits” from flu vaccine seen in epidemiology studies are “not likely to be real.”
22. [HUTCHEON 2016a](#) (Response to Phadke)
Hutcheon et al. Respond to “Maternal Influenza Immunization and Birth Outcomes”
- Response to **PHADKE 2016** criticism of **HUTCHEON 2016** above
-  23. [HVIID 2016](#)
 **Association between pandemic influenza A(H1N1) vaccination in pregnancy and early childhood morbidity in offspring**
- Only live-born children were included, so any miscarriages were missed.
 - No difference in hospitalizations until 5 years.
 - Mean age was 4.6 years, so some were not followed to 5.
 - **Funded by WHO & Novo Nordisk Fdn (pharma, vaccines)**
-  24. [JACKSON 2006](#)
Evidence of bias in estimates of influenza vaccine effectiveness in seniors

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No difference in risk of death or hospitalization really related to flu shot.

-  25. [JAIWONG 2015](#)
Effects of inactivated influenza vaccine on respiratory illnesses and asthma-related events in children with mild persistent asthma in Asia

Vaccine group had fewer asthma & respiratory problems during next year.

-  26. [KIM 2016](#)
Recurrence of Panic Attacks after Influenza Vaccination: Two Case Reports


- Panic disorder, symptoms aggravated by influenza vaccine. Korea.
- Dysregulation of T-lymphocytes caused the panic attack after the flu shot.

-  27. [LIN 2018](#)
Aluminum salts as an adjuvant for pre-pandemic influenza vaccines; a meta-analysis

- Review: Using aluminum salts adjuvant decreases the protection but increases the pain and local reactions to the H5N1 shot.
- Reporting bias is a problem in studies. CDC, Taiwan

-  28. [LOEB 2010](#)
Effect of Influenza Vaccination of Children on Infection Rates in Hutterite Communities A Randomized Trial

- Hep A vaccine used as "control." In the colonies getting the "real" flu vax, less unvaxxed got the flu.
- Actually, the unvaxxed got less flu than the vaxxed in both groups.

-  29. [LOUBET 2019](#)
Influenza vaccination of pregnant women in Paris, France: Knowledge, attitudes and practices among midwives.

- Only 10% of midwives prescribe vaccines.

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- **NOTE:** That is, 10% of the 31% of midwives who actually filled out the questionnaire.
- The author recommends “education strategies” for midwives

 30. **MOSTERIN HOPPING 2016**
The confounded effects of age and exposure history in response to influenza vaccination

Question whether lower titers are from age or previous exposures to vaccines. This study shows the diff is due to previous vaccinations.

 31. **NG 2010**
Prevention and treatment of influenza with hyperimmune bovine colostrum antibody

- Colostrum could be available commercially to replace antiviral drugs and prevent/control the flu
- They used colostrum from cows given flu shots, and colostrum from cows not given flu shots as the control. A lot of processing was done – it was defatted, pasteurized, centrifuged, pH adjusted, casein removed.
- They grew the flu virus in dog kidneys.
- **NOTE:** What happened with the no-flu-shot colostrum isn’t mentioned (or I missed it) but they did conclude that their produce could be useful for non-vaccinated people or those who get sick anyhow (as treatment).
- Funded by Immuron and National Health & Med. Research Council, Australia.
- Author works for Immuron which holds the patent

 32. **PHADKE 2016** (comment on Hutcheon 2016)
Maternal Influenza Immunization and Adverse Birth Outcomes: Using Data and Practice to Inform Theory and Research Design.

- Author criticizes HUTCHEON 2016 who said the flu shots are of little help in pregnancy.
- Provides a list of studies showing flu shots protect the baby.

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- See HUTCHEON 2016a.

 33. [PHADKE 2017](#)

Maternal vaccination for the prevention of influenza: Current status and hopes for the future.

- In some countries pregnant women are more at risk for flu death, but in others at less risk than non-pregnant women.
- Better obstetrical care is mentioned.
- **Funded by National Institute of Allergy & Infectious Diseases. No conflicts listed.**

 34. [SAVITZ 2015](#)

Does influenza vaccination improve pregnancy outcome? Methodological issues and research needs

- “The impact would be substantially greater if reported vaccine effects on improved pregnancy outcomes were accurate.”
- The author says that the vaccine prevents flu, but it is not clear that flu in pregnancy is a problem.
- **Funded by Gates Foundation**
- **NOTE:** I wonder if this guy ever got funded by Gates again?

 35. [SHEFFIELD 2018](#)

Effect of influenza vaccination in the first trimester of pregnancy

- Authors compared women receiving the flu shot in each trimester and to unvaccinated women.
- There was no difference in malformations, but there was a decrease in stillbirth, premature delivery and neonatal death.
- **NOTE:** The unvaccinated mothers were younger and mostly first timers.

 36. [SHORTRIDGE 1976](#)

Influenza virus inhibitor secretion in the colostrum of postmature Chinese women (Abstract)

- A flu inhibitor appears in human colostrum just before or during the time a woman gives birth – both in natural and induced births.

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-  37. [SHORTRIDGE 1990](#)
Protective potential of colostrum and early milk against prospective influenza viruses.
- Colostrum is protective against flu and other diseases
 - The virus neutralizing activity is in the cream layer of colostrum and early milk
-  38. [SMITH 2018](#)
The unexpected impact of vaccines on secondary bacterial infections following influenza
- Secondary bacterial infections contribute to flu-related death.
 - Vaccines against bacteria are few and not helpful.
 - Bacterial infections are worse if you already have the flu, even a mild one, or even after a flu vaccine.
 - **Funded by NIH.**
39. [SMITH-NOROWITZ 2012](#)
Long-term persistence of IgE anti-influenza A H1N1 virus antibodies in serum of children and adults following influenza A vaccination with subsequent H1N1 infection: a case study
- Vaccine, H1N1, flu, IgE, allergy.
-  40. [STOCKWELL 2013](#)
Risk of Fever After Pediatric Trivalent Inactivated Influenza Vaccine and 13-Valent Pneumococcal Conjugate Vaccine
- When given together, much higher rate of fever.
-  41. [SURMAN 2016](#)
Vitamin Supplementation at the Time of Immunization with a Cold-Adapted Influenza Virus Vaccine Corrects Poor Mucosal Antibody Responses in Mice Deficient for Vitamins A and D
-  42. [SZAKACS 2015](#)
Psychiatric Comorbidity and Cognitive Profile in Children with

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 **Narcolepsy with or without Association to the H1N1 Influenza Vaccination**


- More of those who were vaccinated had multiple disorders; more had frequent tantrums.
- 31 people got narcolepsy after the H1N1 vaccine.
- 43% had psychiatric problems
- 29% had ADHD
- 20% had depression
- 10% had anxiety
- 7% had ODD
- 3% had PDD (autism)
- 3% had eating disorders
- Those with comorbidity had lower IQ but hard to draw conclusions from such a small sample. Sweden.
- **“Not an industry-supported study”**

 43. **TURNER 2015**
Safety of live attenuated influenza vaccine in atopic children with egg allergy

- appears safe in egg allergy and asthma or wheeze. UK.

 44. **UCHIDA 2012**
Augmentation of cellular immunity and protection against influenza virus infection by bovine late colostrum in mice

- Animal study. Mice were given saline or bovine colostrum for 3 weeks and were then infected with the flu.
- The colostrum mice were much less sick. They had systemic and lung immunity.
- **Authors work for Kobayashi Pharm and Shintu U., Japan.**

 45. **WATAD 2019**
Autoimmune/inflammatory syndrome induced by adjuvants (ASIA) demonstrates distinct autoimmune and autoinflammatory disease associations according to the adjuvant subtype. Insights from an analysis of 500 cases.

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- The authors describe 500 cases of ASIA, the time between the vaccine and symptoms, and type of vaccine, including influenza vaccines, that contain adjuvants.
- “Despite being rare, this link is real.”
- The author says the benefits outweigh the side effects.
- **NOTE:** Once again, there are no placebo studies.
- One author has been in vaccine court
- Funded by Govt of Russian Federation

 46. [WONG 2014](#)

Bovine colostrum enhances natural killer cell activity and immune response in a mouse model of influenza infection and mediates intestinal immunity through toll-like receptors 2 and 4.

- Animal study.
- Colostrum from cows were given to mice who were then given the flu.
- Controls got water or nonfat milk.
- Colostrum-eating mice got less sick, for a shorter time.
- The colostrum-eating mice were only sick a day compared to control mice who get flu for 5-7 days. Colostrum mice had less weight loss, more Natural Killer Cell activity in their spleens, and lower virus titers in their lungs. “In conclusion, bovine colostrum is a potent immunomodulator and promotes a robust immune response to infection.”
- **NOTE:** In this study, it is mentioned that colostrum also prevents gut permeability from NSAIDS. Considering so many seniors are on a daily “baby aspirin,” maybe they should be taking some colostrum, as well?
- Funded by LaBelle (the colostrum company)
-

 47. [XU 2013](#)

The effect of dietary intake of the acidic protein fraction of bovine colostrum on influenza A (H1N1) virus infection

- Animal study.
- This was a double-blind placebo (saline) control study on mice.

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- 33% of the placebo mice survived the flu, but 100% of the mice getting colostrum survived.
- Colostrum reduced symptoms of flu.
- Korea.

 48. [ZERBO 2013](#)

 **Is maternal influenza or fever during pregnancy associated with autism or developmental delays? Results from the CHARGE (Childhood Autism Risks from Genetics & Environment) study**

- Autism and developmental delay were associated with maternal fever, but not if she took anti-fever meds.
- Funded by Nat'l Inst. Env. Health Sciences, EPA, US Davis MIND Inst. No conflicts reported.

 49. [ZERBO 2017a](#)

 **No association between influenza vaccination during pregnancy and adverse birth outcomes**

- The flu vaccine given in pregnancy is not related to birth problems of weight, breathing, NICU, etc.
- **NOTE:** If they used the database they set up (ZERBO 2016), then of course they will rarely see any birth problems.
- Baxter & Klein got grant support from Sanofi Pasteur, Novartis, GSK, Merck, Medimmune (AstraZeneca), Pfizer, and Protein Sciences.

 50. [ZERBO 2017b](#)

 **Association between influenza infection and vaccination during pregnancy and risk of autism spectrum disorder**

- There was no association between flu in pregnancy and autism.
- There WAS an increase in risk when mothers got a flu shot in the first trimester.
- The authors decided it was “chance” after adjusting for multiple comparisons.

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- See Letter to Editor by DONZELLI 2017.
- See Letter to Editor by HOOKER 2017.
- Funded by Kaiser.
- Klein got grant support from GSK, Sanofi Pasteur, Merck, Pfizer, Protein Science, Medimmune, Novartis.

 51. [ZERBO 2017 \(replies\)](#)

 **Reply to Letters to the Editor re the above paper**

- Letter to the Editor. He agreed that the trimesters of pregnancy are not independent, but defended his stats and said there is not enough evidence of risk to change the vaccine guidelines.