

Background and Methods

Vaccine Recommendations during Pregnancy:

- 2013-2017: Pertussis vaccination if last vaccination was more than 5 years ago.
- Since 2017: Pertussis vaccination in every pregnancy (13.-26. week of gestation)¹.
- Since 2009: Influenza vaccination during Influenza season.

Study about vaccination Proportions in Pregnancy 2017:

- 172 mothers were asked retrospectively about vaccinations in their pregnancies (2013-2017).
- 69.2% of mothers did not receive recommendation².

Methods

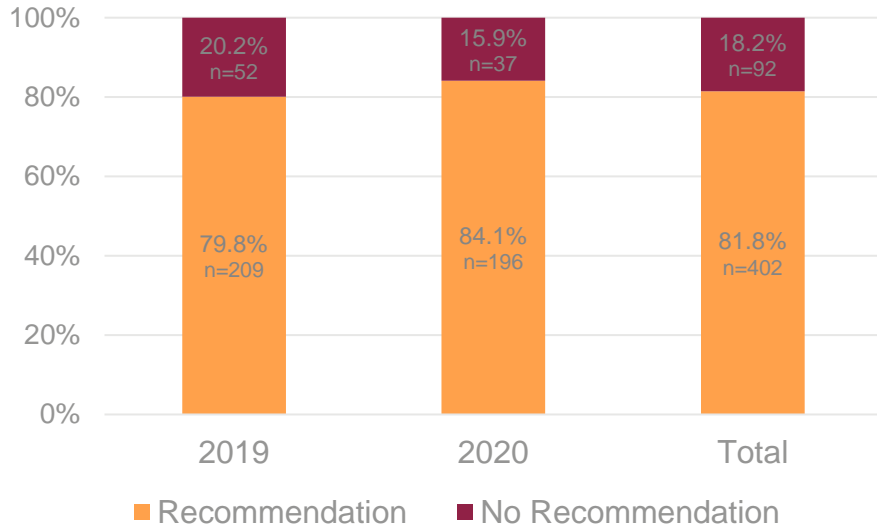
- Inclusion: Postpartum care at the Women's Health Clinic in Basel, >18 years, antenatal care in CH.
- Recruitment for standardised interview 2019 (Phase 1) and 2020 (Phase 2).
 - Demographics, Vaccination Proportions, Attitude toward Vaccinations
- Information events for obstetricians in hospital and private practice setting between recruitment phases.

¹ Empfehlungen zur Prävention von Keuchhusten, Stand 2017, Empfehlungen des Bundesamtes für Gesundheit (BAG) und der Eidgenössischen Kommission für Impffragen (EKIF).

² Erb, M L et al. "Child-parent immunization survey: How well are national immunization recommendations accepted by the target groups?." *Vaccine: X* vol. 1 100013. 1 Mar. 2019, doi:10.1016/j.jvaxx.2019.100013

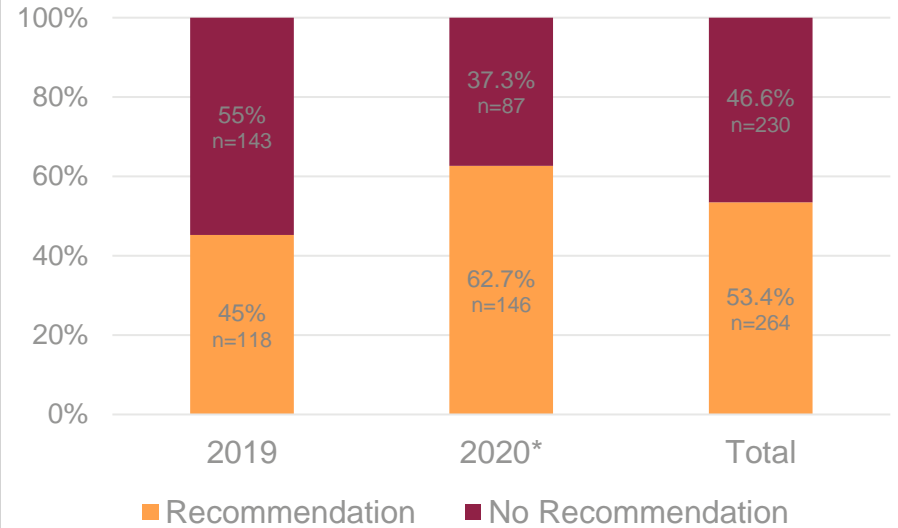
Pertussis Recommendation

(p 0.26, OR 1.34, 95% CI 0.85-2.15)



Influenza Recommendation

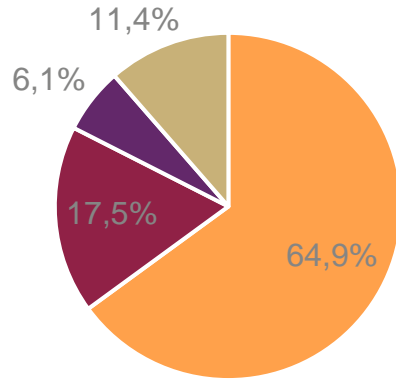
(p < 0.001, OR 2.04, 95% CI 1.43-2.94)



Vaccine Uptake	2019 (n=261)	2020 (n=233)	Total (n=494)	p-Value
Pertussis	76% (n=199)	78.1% (n=182)	77.1% (n=381)	p 0.64, OR 1.13 95% CI 0.74-1.72
Influenza	28.7% (n=75)	42.9% (n=100)	35.4% (n=176)	p 0.002, OR 1.84 95% CI 1.27-2.67

Reasons for Missing Pertussis Vaccination

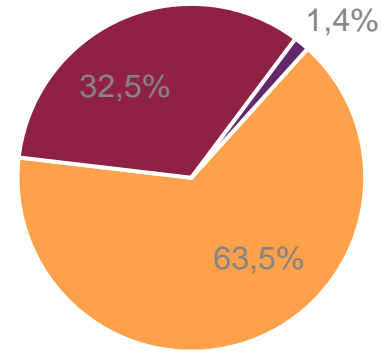
n=114



- No Recommendation
- Concern for Child
- no Sense
- Other

Attitude towards Vaccinations

n=494



- Very positive
- Mostly positive
- mostly or very negative

Conclusion:

- Significant increase in vaccine proportions since 2017.
- No significant increase of pertussis vaccination after interventions.
- Vaccine recommendation most important factor for vaccine uptake.
- Women generally open towards vaccinations.
- Increase of influenza vaccination likely due to COVID-19.

Affiliations

Pertussis and influenza vaccination rate during pregnancy and measures to improve pertussis vaccine acceptance – a single center, prospective implementation approach

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