

IMPACT OF MANDATORY VACCINATION EXTENSION ON INFANT VACCINE COVERAGES IN FRANCE

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** posthumously*

Conflict of interest disclosures

- Participation to Advisory boards, symposia and post-university training
- Invitation to congress : ESPID
- Funding of studies to a research unit that I'm responsible of
 - With Sanofi-Pasteur, GSK, MSD, Pfizer, Sanofi

Link of interest available on <https://www.transparence.sante.gouv.fr>

The State of Vaccine Confidence 2016: Global Insights Through a 67-Country Survey

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Lenin-(Pasteur), wake up, they've
(French people) gone mad !!!

➤ Large-scale study on worldwide attitudes to immunizations among 65,819 individuals across 67 countries



41% of respondents in France reporting to disagree that vaccines are safe

Vaccinoscopie: A French survey to evaluate opinion of mothers regarding vaccination and vaccine coverage rates (VCR) over 11 years

1. Study realised annually since 2008 by the Institut des Mamans and funded by GSK ¹⁻³



2. Design

- **Online standardized questionnaire targeting a representative sample of 4,500 mothers, including 3,000 mothers of 0 to 35-month-old children in 2018.**
- **Interviewed on their opinion and attitude towards vaccination. They also report all the vaccines recorded in their child's health record.**

→ Focus on the 1,000 mothers of 0 to 11-month-old infants

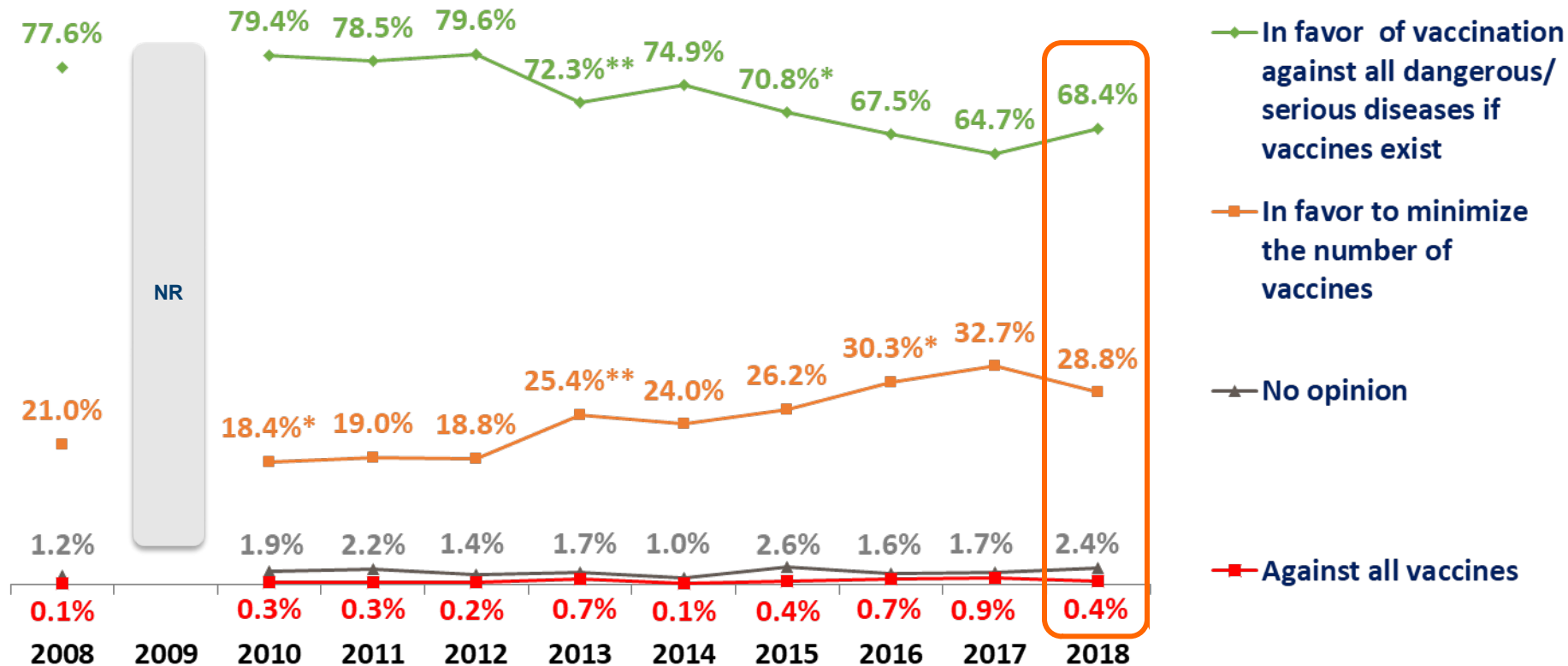
3- Representativeness of sample insured by adjusting on 3 criteria:

- Socio-professional category of the reference person in household
- Number of children (primiparous / multiparous women)
- Geographic areas.

1. Stahl JP et al. Vaccination against meningococcus C. Vaccinal coverage in the French target population. Med Mal Infect 2013;43:75-80; 2. Gaudelus J et al. La simplification du calendrier vaccinal est-elle appliquée ? Bilan 2 ans après sa mise en place. Arch Pediatr 2016;23:1012-17; 3. Cohen R et al. Impact of mandatory vaccination extension on infant vaccine coverages: Promising preliminary results. MMEI 2019.

In 2018 → Regain positive opinion of mothers towards vaccination in general

Opinion of mothers on vaccination



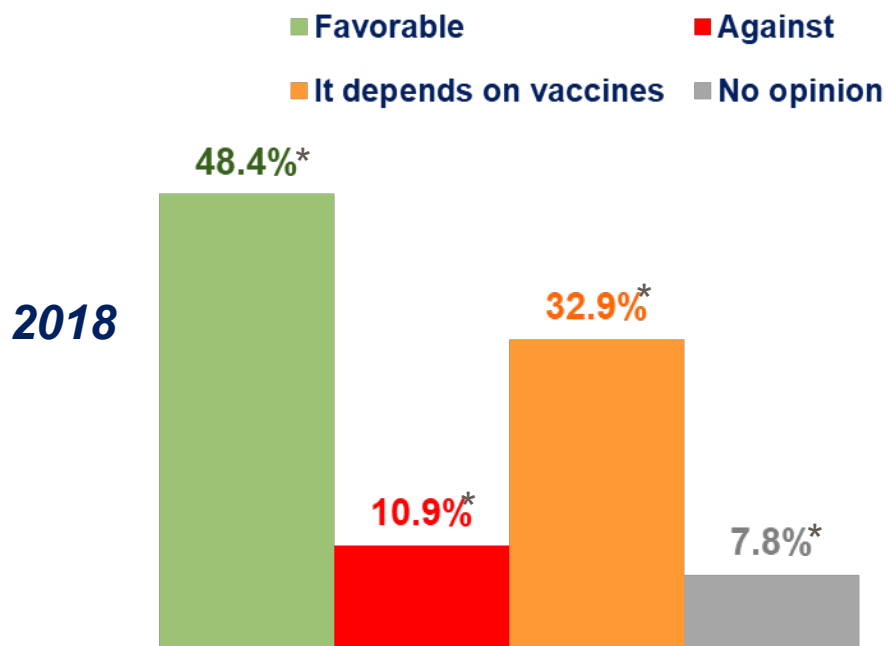
** Significant at 99% with previous year; * Significant at 95% with previous year

Sample 2008 : 1,667 mothers of 0–11-month-old infants; sample 2010/2012 : 2,250 mothers of 0–11-month-old infants; sample 2011/2013 to 2018 : 1,000 mothers of 0–11-month-old infants. NR: not realised.

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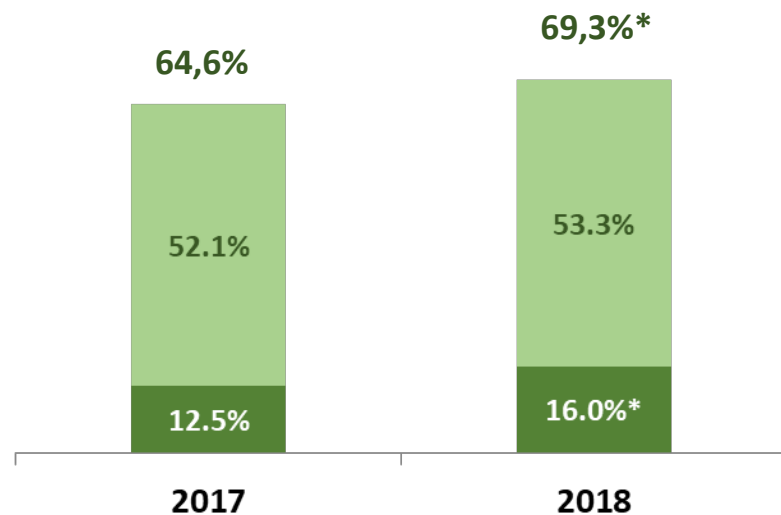
In 2018 vs. 2017 → Mothers more in favor of mandatory vaccination and perception of being better informed on vaccination

Opinion on infant mandatory vaccination



Evolution vs 2017: +12,7pts -7,1pts -8,5pts +2,9pts

Perception of being rather well/ very well informed on vaccination

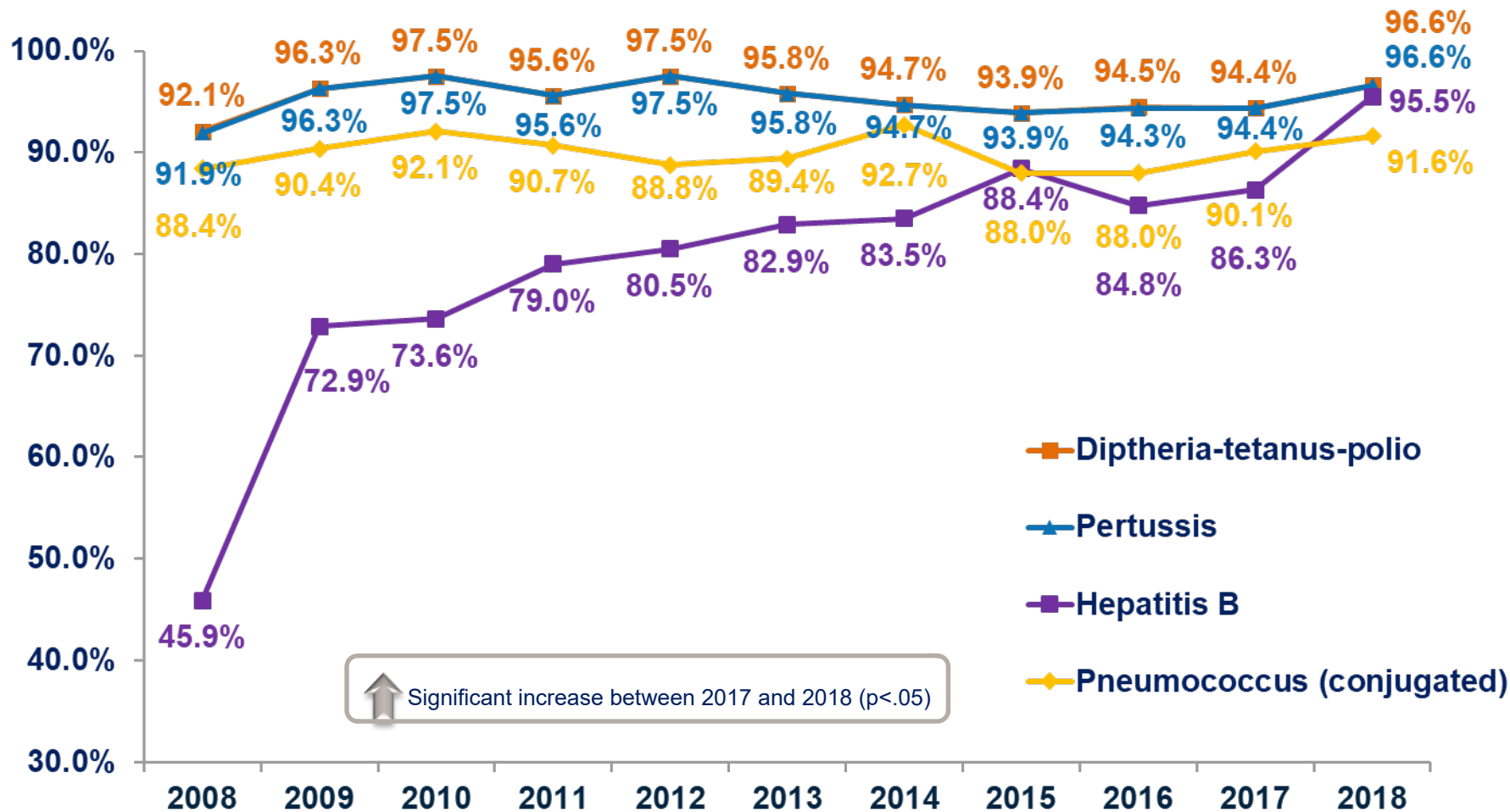


■ Yes, rather well informed
■ Yes, perfectly well informed

* Significant difference at 95% between 2017 and 2018

Evolution of vaccine coverage rates: Two doses at 6 months of age

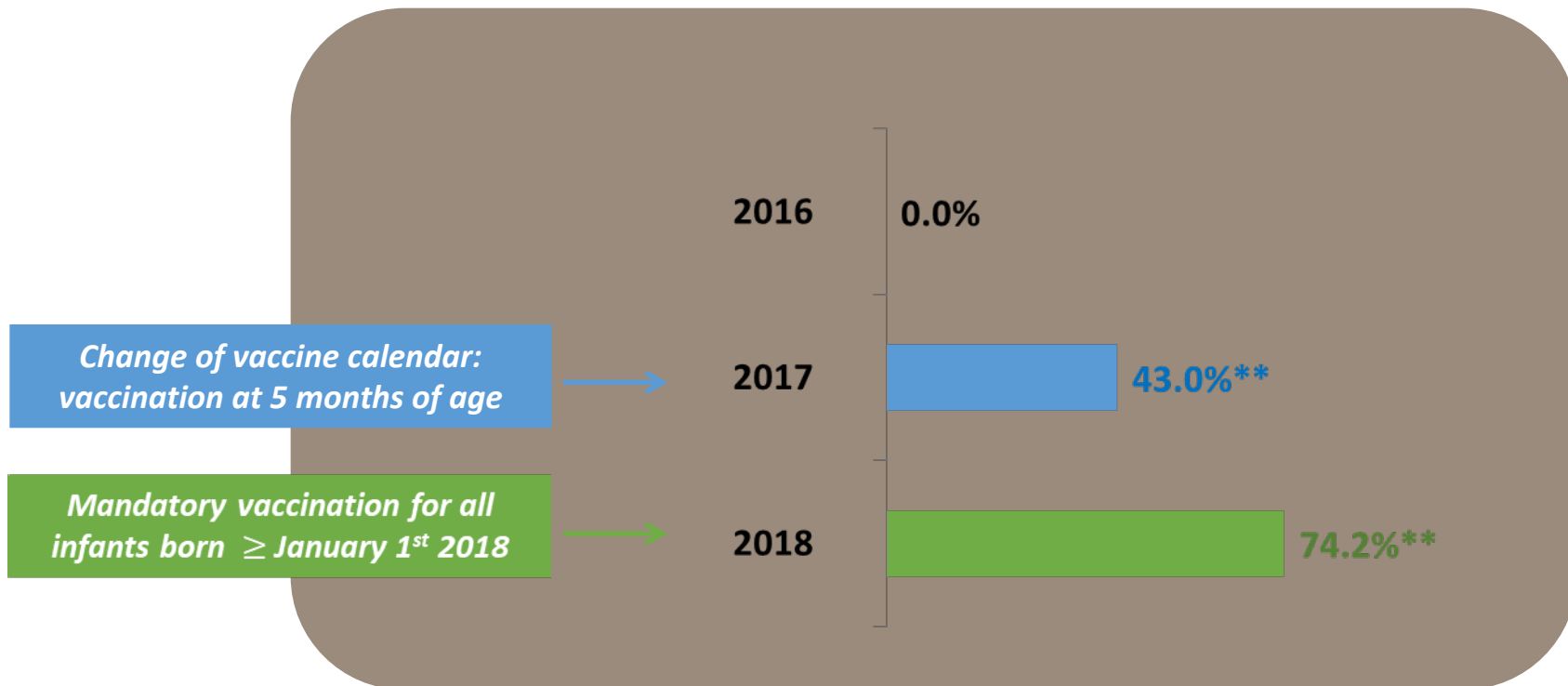
→ Significant increase of HepB VCR in 2018



Sample 2009, 2013 to 2018 : 250 infants of 6-8-month-old; 2012 : 563 infants of 6-8-month-old ; 2011 : 250 infants of 6-8-month-old ; 2010 : 562 infants of 6-8-month-old; 2008 : 496 infants of 6-8-month-old

MenC vaccination: impact of the new vaccine recommendation and mandatory vaccination on VCR

VCRs evolution of one dose of MenC vaccine at 6 months of age



** Significant difference at 99% with previous year

Our data were confirmed by the results presented by the French Health Ministry (April 17, 2019)

Undoubtedly positive effect

➤ **Vaccination coverage** (at 7 months of age, ≥ 1 dose, between 2017 and 2018)

Hexavalent vaccine :	+ 5.5% (93.1 → 98.6%)
PCV13	+ 1.4% (98.0 → 99.4%)
Men C	+ 36.4% (39.3 → 75.7%)

➤ **Confidence favorable to the extension of mandatory vaccination**

Parents	67%
GPs	75%
Pediatricians	96%

Conclusions → Very promising results of the impact of extending mandatory vaccination in infants on opinion and VCRs.

- These first results showed that the extension of mandatory vaccination associated with the communication strategy implemented by the French Authorities had a positive impact on both **mothers' opinion regarding vaccination** and on **infant VCRs**.
- These VCRs results are very similar to those communicated by the French authorities (Santé publique France)¹.
- The 2019 Vaccinoscopie survey should help further evaluate the impact of mandatory vaccination on infant VCRs (MMR...).
- Need to continue education, information and communication on the benefits/ risks of vaccination to healthcare professionals and population.

Thanks for your attention

Disclosure

R.C., J.G., B.L., J.-P.S., F.D., D.S., P.P, H.L., L.L., and A.M. are members of the Vaccinoscopie scientific committee. R.C., J.G., B.L., J.-P.S. and F.D. received honorarium by GSK for this study. P.P. is employed by the GSK group of companies. H.L. is the founder of the French Institut des Mamans, which created and conducted the Vaccinoscopie surveys. L.L. is employed by the French Institut des Mamans

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