Prenatal Tdap Workgroup January 17, 2018



Immunization Branch California Department of Public Health



Agenda

- i. Welcome
- ii. Post-licensure Tdap Safety Data and Tdap formulations:Dr. Robert Schechter
- iii. Kern County's Efforts: Kimberly Hernandez
- iv. SGF Tdap doses Guidelines: Nisha Gandhi
- v. Announcements

Prenatal immunization with Tdap is Safe



Summary

- Multiple studies in women and infants indicate that prenatal immunization with Tdap is safe and effective
- Tdap product labels reflect limited animal studies conducted prior to licensure a decade ago and do not reflect many subsequent studies in humans
- Tdap product labels will be revised under the 2014 FDA rule change multiyear transition in progress
- Prenatal Tdap immunization continues to be recommended by ACIP, ACOG and other national authorities



Multiple recent safety studies...

Safety

- DeSilva M, Vazquez-Benitez G, Nordin JD, et al. <u>Maternal Tdap vaccination and risk of infant morbidity</u> J. Vaccine. 2017;35(29):3655–60.
- McMillan M, Clarke M, Parrella A, Fell DB, Amirthalingam G, Marshall HS. <u>Safety of tetanus. diphtheria. and pertussis vaccination during pregnancy: A systematic review</u> et al. Obstet Gynecol. 2017;129(3):560–73.
- DeSilva M, Vazquez-Benitez G, Nordin JD, et al. <u>Tdap vaccination during pregnancy and microcephaly and other structural birth defects in offspring</u>. JAMA. 2016;316(17):1823-5.
- Sukumaran L, McCarthy NL, Kharbanda EO, et al. Safety of tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis and influenza vaccinations in pregnancy @. Obstet Gynecol. 2015;126(5):1069-74.
- Sukumaran L, McCarthy NL, Kharbanda EO, et al. <u>Association of Tdap vaccination with acute events and adverse birth outcomes among pregnant</u> women with prior tetanus-containing immunizations a. JAMA. 2015;314(15):1581–7.
- Morgan JL, Baggari SR, McIntire DD, Sheffield JS. Pregnancy outcomes after antepartum tetanus. diphtheria, and acellular pertussis vaccination &. Obstet Gynecol. 2015;125(6):1433–8.
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- Liang J. Overview of Tdap use during pregnancy: unpublished and recent data. Advisory Committee on Immunization Practices (ACIP), Atlanta, GA; February 23, 2011.
- Moro P. Safety of Tdap vaccine during pregnancy: enhanced surveillance in VAERS presented to the Advisory Committee on Immunization Practices (ACIP), Atlanta, GA; February 26, 2014.
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- Silveria CM, Caceres VM, Dutra MG, Lopes-Camelo J, Castilla EE. Safety of tetanus toxoid in pregnant women: a hospital-based case-control study of congenital anomalies e. Bull World Health Organ. 1995;73:605–8.
- Shakib JH, Korgenski K, Sheng X, Varner MW, Pavia AT, Byington CL. Tetanus, diphtheria, acellular pertussis vaccine during pregnancy: pregnancy and infant health outcomes. J Pediat. 2013; 163(5):1422–26.
- Zheteyeva YA, Moro PL, Tepper NK, et al. Adverse event reports after tetanus toxoid, reduced diphtheria toxoid, and acellular pertussis vaccines in pregnant women et . Am J Obstet Gynecol. 2012;207(1):59:e1-7.

https://www.cdc.gov/pertussis/pregnant/research.html



Multiple human studies consistent with the safety of prenatal Tdap immunization

 21 safety studies reviewed. Estimates of risk in immunized mothers and their infants (<1 consistent with reduced risk)

– Pre-term birth:	0.5–1.5
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- Small for Gestational Age:
- Stillbirth
- Neonatal death
- Low birth weight
- Congenital anomalies
- All lower 95% confidence intervals (CIs) were less than 1.0.

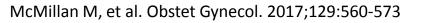
0.7 - 1.0

0.4 - 0.9

0.2 - 1.0

0.8 - 1.2

0.2 - 0.9





Multiple human studies consistent with the safety of prenatal Tdap immunization

- Review: 3 retrospective studies assessing chorioamnionitis after vaccination,
 - One showed a small but statistically significant increase
- Additional recent study of the Vaccine Safety Datalink: risk of chorioamnionitis modestly increased in mothers receiving prenatal Tdap, but no increase in adverse outcomes for infants
 - Chorioamnionitis 1.23 [1.17, 1.28]
 - TTN 1.04 [0.98, 1.11]
 - Neonatal sepsis 1.06 [0.91, 1.23]
 - Neonatal pneumonia 0.94 [0.72, 1.22]
 - RDS 0.91 [0.66, 1.26]
 - Newborn convulsions 1.16 [0.87, 1.53]

McMillan M, et al. Obstet Gynecol. 2017;129:560-573 DeSilva M, et al. Vaccine 2017; 35: 3655-3660.) CDPH

Prior FDA Label framework - basis for 2005 Tdap labels "Only if clearly needed"

Pregnancy Category	Description
А	No risk in controlled human studies: Adequate and well-controlled human studies have failed to demonstrate a risk to the fetus
B <u>Boostrix, 2005</u>	No risk in other studies: Animal reproduction studies have failed to demonstrate a risk to the fetus and there are no adequate and well-controlled studies in pregnant women OR Animal studies have shown an adverse effect, but adequate and well-controlled studies in pregnant women have failed to demonstrate a risk to the fetus
C <u>Adacel, 2005</u>	Risk not ruled out: Animal reproduction studies have shown an adverse effect on the fetus and there are no adequate and well-controlled studies in humans, but potential benefits may warrant use of the drug in pregnant women despite potential risks.
D	Positive evidence of risk: There is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience or studies in humans, but potential benefits may warrant use of the drug in pregnant women despite potential risks.
x	Contraindicated in pregnancy: Studies in animals or humans have demonstrated fetal abnormalities and/or there is positive evidence of human fetal risk based on adverse reaction data from investigational or marketing experience, and the risks involved in use of the drug in pregnant women clearly outweigh potential benefits.



Transition in FDA Labeling for Use in Pregnancy 2014 - present

Labeling Background

Until now, FDA categorized the risks of taking a drug or biological product during pregnancy under a five-letter system (A, B, C, D and X) based on what was known about that product. But comments received by FDA showed that the letter system was often confusing because it was overly simplistic, and did not reflect the available information. This system could lead to false assumptions about medications based on their category.

"The revised labeling will change that," Kweder says. "Now doctors will have up-to-date and well-organized information on pregnancy and lactation. They will be in a better position to help their patients make critical decisions."

• www.fda.gov/ForConsumers/ConsumerUpdates/ucm423773.htm



Transition in FDA Labeling for Use in Pregnancy 2014 - present

Look of the Revised Labeling

The revised labeling will replace the old five-letter system with more helpful information about a medication's risks to the expectant mother, the developing fetus and the breastfed infant.

Companies will have to remove the pregnancy letter categories from the labeling for all prescription drugs and biological products and, for many of them, revise the labeling with updated information. This is a large undertaking that will take several years.

• www.fda.gov/ForConsumers/ConsumerUpdates/ucm423773.htm



Summary

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Vaccine Injury Compensation Program

- Federal program that compensates people found to have been injured by routine vaccines.
- No-fault alternative to the traditional legal system for resolving vaccine injury petitions.
- Prenatal immunizations (e.g., Tdap, Influenza) included under VICP since December 2016
- Liability coverage through VICP might reassure prenatal providers hesitant to immunize



Prenatal Tdap Survey of Kern County Providers

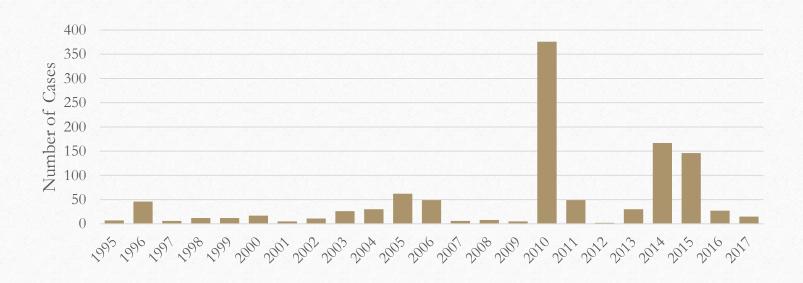
Kimberly Hernandez, MPH Kern County Public Health Services Department Prenatal Tdap Working Group Meeting January 17, 2018



Pertussis in Kern County

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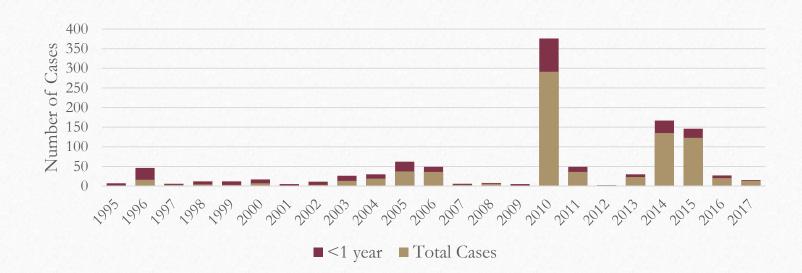


Pertussis in Kern County

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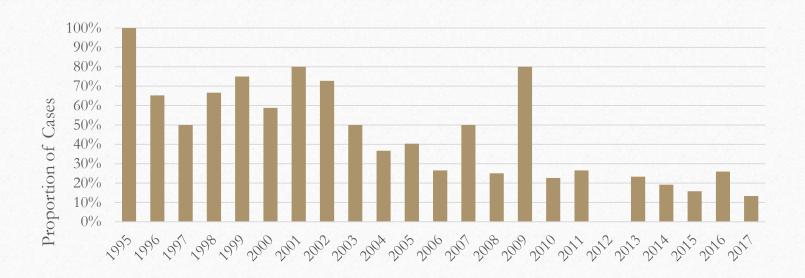
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Proportion of Pertussis Cases <1 year

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DTap and Tdap Vaccination Rates

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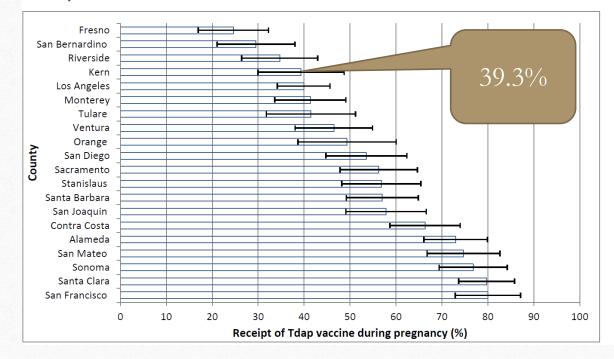
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	Kern	California				
Kindergarten (DTap)	96.2%	96.9%				
7 th Grade (Tdap)	97.6%	98.3%				

Statewide Maternal Tdap Survey 2015

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KERN KERN Publ **Figure 4**. Receipt of Tdap vaccine during pregnancy among women with a live birth in 2015, by the 20 counties with the highest number of births. MIHA 2015



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Push for Further Evaluation

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- Kern high rate of infant pertussis
- Repeat offender prenatal care providers
- Low rate of maternal Tdap
- Death of infant in 2016

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Methods

- Surveyed providers at OB/Gyn offices (including NP)
- Each individual provider was surveyed, when possible
 - Some clinics had standard protocols/standing orders
- Preliminary data only includes Bakersfield providers (outlying areas are in process of being surveyed)
- In-person interview or paper survey
- Provider/patient resource packet distributed



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Main Questions

- Do you recommend Tdap at every pregnancy?
- Do you stock Tdap vaccine in office?

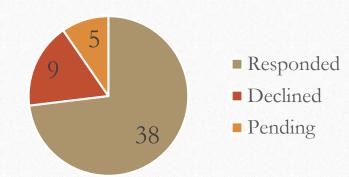
- When do you recommend Tdap administration (gestational week)?
- What support from the health department would help you vaccinate pregnant patients?

Preliminary Response

- 52 surveys distributed
- 38 responses received
- 9 surveys declined
- 5 pending

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Do you recommend Tdap vaccination to every pregnant patient during each pregnancy?



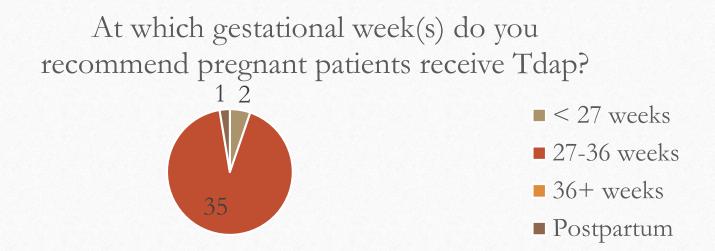


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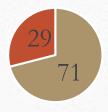
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Do you stock Tdap vaccine and offer vaccination to pregnant patients in your office/facility?





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Provider self-identified needs:

- Patient information/training materials
- Free vaccinations

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• Ability to refer pregnant patients to Public Health Department for vaccine administration

Other Survey Questions

• Where/how do you refer patient?

- How do you confirm/document receipt of vaccine?
- How do you document declinations?
- Do you re-recommend after declination?
- What systems are in place to discuss vaccination with patients?

More Coming Soon!

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• Additional providers

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• More in-depth analysis

Thank You!

- Lauri McAllister
- MPH Candidate

American Public University



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Questions?

Kimberly Hernandez
Kern County Public Health Services Department
(661) 868-0407
hernankim@kerncounty.com



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SGF Tdap Guidelines



SGF Prenatal Tdap Program

- 25,000 doses of Tdap (Adacel[®], single dose vials) available now
- Purpose: To jumpstart provider offices not offering Tdap to patients
- Eligible patients: pregnant women who are uninsured or Medi-Cal beneficiaries
- Eligible sites must have (a/an):
 - Written protocol for immunizing pregnant women with Tdap vaccine
 - On-site clinical staff experienced in administering vaccine to adults
 - Plan to continue to offer and bill for Tdap
 - Acceptable refrigerator-only units (see eziz.org)
 - Designated staff as clinic liaison to health department
 - Agreement to report at each LHD check-in

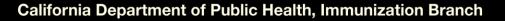
Evaluation

- 1, 3 and 6 month follow up to check on progress of dose administration and to collect successes and barriers
- The intent of the surveys are to generate a better understanding of how providers can sustain a prenatal Tdap program



FAQs

- Can the doses be offered for cocooning?
 - Not at this time
- Are for-profit providers eligible for these doses?
 - Yes, but we are unable to ship directly to any for-profit sites; you will need to coordinate with the provider on pick up/drop off of doses
- Is there a maximum number of doses a provider can receive?
 - No. The suggested limit is 100 doses/order but we leave that up to your discretion. We recommend you start with a smaller amount and then offer additional doses if they can show they ordered vaccine as well. Remember: the intent of the "starter kits" is to start a sustainable prenatal Tdap program in offices



SGF Tdap Guidelines Summary

- 1. LHDs ensure site meets all program requirements
- 2. Provider signs MOU and is enrolled
- **3.** First order: Suggested limit of 100 Tdap doses!
- **4. Second order:** Order Tdap doses *and* "match" with your own private supply

LHDs interview sites 1 month, 3 months, and 6 months after initial order, then send completed questionnaires to Rebeca.Boyte@cdph.ca.gov.

Is your Practice Ready for the Next Pertussis Epidemic?

Ask us about how to receive <u>FREE</u> Tdap Vaccines

Your patients are counting on **you** for protection

Contact [Name, phone #, email] at [Name of LHD] by [X date] to learn more.

Would this be helpful?



Announcements



Intern to the Rescue

- Are you one of the high-incidence pertussis counties? (LA, SD, Orange, Riverside, Fresno, San Bernardino, Santa Clara, Contra Costa, Alameda, Sacramento)
- Do you need help identifying providers who need Tdap?
- Our intern may be able to help!
- Email: <u>Rebeca.Boyte@cdph.ca.gov</u>



Reminder: ACOG Antepartum Records

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- Available as single copies
- Please send email: <u>Rebeca.Boyte@cdph.ca.gov</u> indicating desired quantity.

Immunizations	Yes (Month/Year)	No	If No, Vaccine Indicated?*	Immunizations	Yes (Month/Year)	No	If No, Vaccine Indicated?*
TDAP (Each pregnancy; between 27-36 weeks)				Hepatitis A (When Indicated)			
Influenza [†] (Each pregnancy as soon as vaccine is available)				Hepatitis B (When Indicated)			
Varicella [†]				Meningococcal (When Indicated)			
MMR (Rubella- containing vaccine) [†]				Pneumococcal (When Indicated)			
HPV							



WIC Resource from ECBT



Vaccines 101: Information for WIC Staff

Booklet:

http://www.ecbt.org/images/ar ticles/Final 2017 Vaccines 101 for WIC Staff Guide.pdf

Archived Webinar: http://s95168213.onlinehome. us/Webinars/WIC2017/2017Im munizationWebinarForWICStaff .mp4



Questions?

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