- **VERBATIM** -

'I think it's especially important for pediatricians to remind parents that they are modeling safety to their children. Do they buckle up? Wear a bicycle helmet? Drink and drive? The closer the age of the child is to the potential behavior (riding a bike, driving, dating), the more direct is the connection between parental behavior and the child's likely actions.'

Dr. Michael S. Jellinek, p.28

Kawasaki Cases Lead to RotaTeq Label Changes

BY ELIZABETH MECHCATIE Senior Writer

everal postmarketing reports of Kawasaki disease in recipients of the RotaTeq vaccine have prompted changes in the vaccine's label, but to date there is no known cause-and-effect relationship between the vaccine and these re-

Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed **DAPTACEL® R** only

EXPERIENCE
 EXPLANCE
 EXPLANCE

The decision to administer or delay vaccination because of a current or recent febrile illness depends on the severity of symptoms and on the ebiology of the disease. According to the ACIP, all vaccines can be administered to persons with mild illness such as diarthea, mild upper-respiratory infection within or without (low-grade fever, or other low-grade feter) entitie illness.¹ However, children with moderate or serious illness should not be immunized until recovered.⁴

or seriors illness should not be immunized until recovered.⁴ Elective immunization procedures should be deferred during an outbreak of poliomyelitis because of the risk of provoking paralysis.⁴⁴⁷ WARNINGS: The stopper to the vial of this product contains dry natural latex rubber that may cause allergic reactions. If any of the following events occur within the specified period after administration of a whole-cell pertussis DTP or DTaP vaccine, providers and parents should evaluate the risks and benefits of subsequent doess of whole-cell pertussis DTP or DTaP vaccines.³ • Temperature of B40.5°C (105°F) within 48 hours, not attributable to another identifiable cause.

Jalapse or shock-like state (hypotonic-hypotonicsponsive episode) within 48 hours. Persistent crying lasting B3 hours within 48 hours. Convulsions with or without fever within 3 days.

Convolsions with or without fever within 3 days.
 When a decision is made to withhold pertussis vaccine, immunization with DT vaccine should be continued.⁴
 Because of the risk of hemorrhage, DAPTACEL[®] should not be given to children with any coagulation disorder, including thrombocytoper which would contraindicate intramuscular injection unless the potential benefit clearly outweights the risk of administration.
 Studies suggest that, when given whole-cell pertussios IDT vaccine, infants and children with a history of convulsions in first-degr family members have a 24-fold increased risk for neurologic events.⁴ However, ACIP has concluded that a history of convulsions or otd central nervous system disorders in sparents or siblings is not a contraindication to pertussis vaccination and that children with subtramily histories Studier zoeder DTaP vaccines according to the recommended schedule.¹⁴

family histories should receive DTaP vaccines according to the recommended schedule.¹³⁴ For infants or children at higher risk for seizures than the general population, an appropriate antipyretic may be administered (in the desage recommended in its prescribing information) at the time of vaccination with a vaccine containing an acellular perussis component (including DAPTACEL⁶) and for the following 24 hours, to reduce the possibility of post-vaccination fever.¹³⁴ Whether to administer DAPTACEL⁶ to children with proven or suspected underkying neuropoigic disorders must be decided on an individual basis. An important consideration includes the current local incidence of perussis. The ADIP has issued guidelines for such children.¹³⁴ **DEFCNITURES**: **Conserved:** Cons is the batches but the hoalth core moving for for the orage and effection use of this proving

basis. An important consideration includes the current local incidence of pertusis. The ACIP has issued guidelines for such children.¹⁹ **PRECAUTIONS: General:** Care is to be taken by the health-care provider for the safe and effective use of this vaccine. Epinephrine Hydrochionide Solution (11,000), other appropriate agents and equipment must be available for immediate use in case an anaphydicatic or acute hypersensitivity reaction occurs. Health-care providers must be familiar with current recommendations for the initial management of anaphylaxis in non-hospital settings, including proper airway management.¹¹ Before an injection of any vaccine, all known precautions should be taken to prevent adverse reactions. The expected immune response to DAPTACL¹ may not be obtained in immunosuppressed persons.⁴ Pertussis-containing vaccines are not contraindicated in persons with HIV interCino¹.

WITH HIV INTERCON." IT IS EXTERNELY IMPORTANT WHEN A CHILD RETURNS FOR THE NEXT DOSE IN THE SERIES THAT THE PARENT OR GUARDIAN SHOULD BE QUESTIONED CONCERNING ANY SYMPTONS AND/OR SIGNS OF AN ADVERSE REACTION AFTER THE PREVIOUS DOSE OF VACCINE.

II IS SATURATED MEMORY MATERIAL OFFICIENCE FOR THE NEXT DOSE IN THE SERIES THAT THE PARENT OR GUARDIAN SHOULD BE QUESTIONED CONCERNING ANY SYMPTONS AND/OR SIGNS OF AN ADVERSE REACTION AFTER THE PREVIOUS DOSE OF VACCINE. (See CUNTRANDICATIONS and ADVERSE REACTIONS.) Drug Interactions: As with other intramuscular (I.M.) injections, use with caution in patients on anticoagulant therapy. Immunosuppressive therapise, including irradiation, antimetabolities, adjivating agents, cytobicxi drugs and corticosteroids (used in greater than physiologic doses), may reduce the immune response to vaccines. Although no specific studies with pertussis vaccine are available, if immunosuppressive therapy is in therapy is the ason discontinued. It seems reasonable to defer immunization until the patient has been of therapy for one month, otherwise, the patient should be vaccinated while still on therapy.' If DAPTACEL* is administered to persons with an immunodeficiency disorder, on immunosuppressive therapy or after a recent injection of immune globulin, an adequate immunologic response may not occur. For information regarding simultaneous administration with other vaccines refer to DOSAGE AND ADMINISTRATION. If passive immunization is needed for tetratus or diptichrein prophysias, 'Eatures.' Marganes.' Carcinogenesis, Mutagenesis, Impairment of Fertility: DAPTACEL* has not been evaluated for its carcinogenic or mutagenic potential or impairment of fertility.

cy Category C: Animal reproduction studies have not been conducted with DAPTACEL®. It is not known whether DAPTACEL® e fetal harm when administered to a pregnant woman or can affect reproductive capacity. DAPTACEL® is NOT recommended

To use in a pregnant woman. Geriatric Use: This product is NOT recommended for use in adult populations. Pediatric Use: SAFT/ AND EFFECTIVENESS OF DAPTACE!" IN INFANTS BELOW 6 WEEKS OF AGE HAVE NOT BEEN ESTABLISHED. (See INSAGE AND ADMINISTRATION.)

SREACH DAMINISTRATION. SREACH DAMINISTRATION. ISS WACUME IS NOT RECOMMENDED FOR PERSONS 7 YEARS OF AGE OR OLDER. Tetanus and Diphtheria Toxoids Adsorbed For Adult Use o) is to be used in Individualis 7 years of age or older. VERSE REACTIONS: Over 11,400 doese of DAPTACEL[®] have been administered to infants and todelers in 6 clinical studies. In all, 640 children received a total of 3 doese and 476 children received 4 doese of DAPTACEL[®] maximum the Sweden I Efficacy Trail, DAPTACEL[®] was compared with DT and a whole-cell pertussis DTP vaccine. A standard diary card kept 1 d days after each does and follow-up telephone calls were made and 14 days after each injection. Telephone calls were made onthly to monitor the occurrence of severe events and/or hospitalizations for the 2 months after the last linjection. There were fewere the common local and systemic reactions following DAPTACEL[®] that following the whole-cell pertussis DTP vaccine. As shown in bie 1, the 2.587 infants who enrolled to receive DAPTACEL[®] 12, 4, and 6 months of age had similar rates of reactions within 24 hours recipients of DT and significantly lower rates than infants receiving whole-cell pertussis DTP.[®] **DEPERTURE OF INFORMENTIONE**

	Dos	se 1 (2 MON1	(HS)	Dose 2 (4 MONTHS)			Dose 3 (6 MONTHS)			
EVENT	DAPTACEL® N = 2,587	DT N = 2,574	DTP N = 2,102	DAPTACEL [®] N = 2,563	DT N = 2,555	DTP N = 2,040	DAPTACEL® N = 2,549	DT N = 2,538	DTP N = 2,001	
Local Tenderness										
(Any) Redness	8.0*	8.4	59.5	10.1*	10.3	60.2	10.8*	10.0	50.0	
≥2 cm Swellina	0.3*	0.3	6.0	1.0*	0.8	5.1	3.7*	2.4	6.4	
≥2 cm	0.9*	0.7	10.6	1.6*	2.0	10.0	6.3*5	3.9	10.5	
Systemic Fever¹ ≥38°C										
(100.4°F)	7.8*	7.6	72.3	19.1*	18.4	74.3	23.6*	22.1	65.1	
retfulness™	32.3	33.0	82.1	39.6	39.8	85.4	35.9	37.7	73.0	
Anorexia	11.2*	10.3	39.2	9.1^	8.1	25.6	8.4	1.1	17.5	
Drowsiness Crying ≥1	32.7*	32.0	56.9	25.9*	25.6	50.6	18.91	20.6	37.6	
hour	1.7*	1.6	11.8	2.5*	2.7	9.3	1.2*	1.0	3.3	
/omiting	6.9*	6.3	9.5	5.2**	5.8	7.4	4.3	5.2	5.5	
Crying ≥1 hour Vomiting N = Number o whole-cell per for this variabl	1.7* 6.9* f evaluable si tussis DTP e DT: Swe	1.6 6.3 Jbjects *p § p<0.0001: dish National	11.8 9.5 <0.001: DAPT DAPTACEL® v Biologics Lab	2.5* 5.2** ACEL® versus ersus DT [†] oratories D	2.7 5.8 whole-cell pe Rectal tempe TP: Sanofi P	9.3 7.4 ertussis DTP erature ⁺⁺ S asteur Inc.	1.2* 4.3 **p<0.003: E tatistical comp	1.0 5.2 DAPTACEL® ve arisons were	3.3 5.5 ersus not mad	

or encephalopathy were observed following d because were reported in the DAPTACEL[®] group, s in the DT group and 3 in the of 2.3, 3.5 and 1.4 per 1,000 vaccines, respectively. One case of infantile sname re no instances of invasion because of infantile sname

MKT12680

US Patents: 4500639, 4687738, 4784589, 4997915, 5444159, 5667787, 5877298

sanofi pasteur

Table 2 summarizes the safety results from the Phase II Study in Canada in children who were immunized at 2, 4, 6 and 17-19 months of age with DAPTACE." For adverse events, parents recorded information for 72 hours post-immunization in a diary card. Local reaction in definises and overlang were assessed and measure by the parents using a template with graded size markings. Study staff collected the information from the parents during a structured telephone interview at 2-6, 8-12, 24, 48 and 72 hours and 7 deep posi-immunization and recorded the information in the case report form. Local and systematic adverse events were consistently less common in DAPTACE." explements at 2, 4 and 6 months of age than in those who received whole-cell pertussis DTP vaccine. Following the fourth does, the same reading were fuggered received. no received whole-cell pertussis DTP vaccine. Following the fourth of tess and swelling which did not differ between the 2 vaccine groups, wing the fourth dose compared with the first 3 doses as was mild t TABLE 2 13,16

VACCINATION WITH DAPTAGEL" AND WHOLE-GELL PERTUSSIS DIP VACCINE AT 2, 4, 6 AND 17-18 MONTHS OF AGE								
	Dose 1 (2 MONTHS)		Dose 2 (4 MONTHS)		Dose 3 (6 MONTHS)		Dose 4 (18 MONTHS)	
	DAPTACEL®	DTP"	DAPTACEL®	DTP"	DAPTACEL®	DTP"	DAPTACEL®	DTP"
EVENT	N = 324	N = 108	N = 321	N = 106	N = 320	N = 104	N = 301	N = 97
Local								
Redness								
Any	12.7*	44.4	20.6*	57.5	22.2*	51.9	36.5*	55.7
≥10 mm	1.2*	13.9	7.8*	22.6	10.0*	17.3	27.9	36.1
≥35 mm	0.3*	3.7	0.3*	5.7	1.6	1.9	21.9	20.6
Swelling								
Anv	4.3*	23.1	4.3*	32.1	4.7*	25.0	18.6*	28.9
≥10 mm	1.9*	15.7	2.2*	21.7	3.8*	14.4	15.9*	25.8
>35 mm	0.3*	6.5	0*	5.7	0.9*	4.8	11.3	15.5
Tenderness [†]			-					
Anv	10.2*	37.0	7.5*	51.9	8.8*	48.1	23.9*	86.6
Moderate + Severe	0.9*	13.0	1.2*	20.8	1.3*	17.3	3.0*	53.6
Severe	0*	4.6	0.3*	7.5	0*	4.8	0.3*	12.4
Systemic	-				-			
Equar ¹⁵								
Any >27 5°C (00 5°E)	12.0*	42.7	7.7*	50.0	14.9*	52.2	14.5*	67.0
~28°C (100 4°E)	0.7	1.0	0*	7.9	1.0*	117	1.0*	17.0
>40°C (104°E)	0.7	1.5		1.0	1.2	1.1	1.5	0
240 0 (104 1)	0.5	0	0	1.0		1.1		0
Any	41.0*	6E 7	41.4*	69.0	40.0*	67.2	26.0*	70.4
Ally Moderate - Covere	41.0	10.7	41.4	00.9	40.9	07.3	50.9	79.4
Wouerale + Severe	9.0	10.0	0.9	22.0	5.0	22.1	5.0	24.7
Severe	0	1.9	0.3	U	U	1.0	0	2.1
Anorexia	10.0	00.0	0.0*	10.0	11.01	00.1	17.01	41.0
Any Madamta Causa	10.0	22.2	9.0	10.0	11.6	23.1	17.6	41.2
Moderate + Severe	1.5	3.7	0.9	2.8	1.3	1.9	2.0*	13.4
Severe	0	0	0.3	0	0	0	0	2.1
Drowsiness								
Any	43.2	52.8	21.8*	33.0	14.4*	32.7	13.3*	29.9
Moderate + Severe	7.7	8.3	2.8*	7.5	1.3	0	1.0*	6.2
Severe	0.3	U	0	U	0	0	0	0
Crying ≥3 Hours	0.6	0.9	0.3	0.9	0	1.0	0	1.0

n whole-cell DTP vaccine, p-0.05 ⁺ Moderate = sustained cry with gentle pressure at injection site; Seve momenture measurements were axilary ⁺Number of evaluable subjects for DAPTACEL[#]/DTP = 301/103, 24, 6 and 18 months, respectively ⁻Moderate = more difficulty with settiling, even with cudding. Severe i inability to console ⁻¹4Moderate = missed one or two feeds, Severe = little or no intake for more than two ch more than normal; Severe = sleeping most of the time with difficulty arousing n normal; Severe = selexing most of the time with difficulty arousing § Study was designed, in part, to assess the safet of DAPTACEL ^e in infants at 2, 4 and 6 months of age, with routine concurrently given childhood vaccines (*Heamophilus influenze* type b vaccine, 0PV and hepatitis B). Fever >383 beserved in 93% - 11.9% of subjects. One addribe secure occurred within 24 hours post lose 2 immunization (n = 321)

def = 1 was observed and a start in the Area adjuster. And the backhold backhold

Rarely, anaphytectic reactions (a, hives, sveiling of the mouth, difficulty breathing, hypotension or shock) have been reported after receiving preparations containing diphtheria, tetanus and/or pertussis antigens.⁴

ter this product intrav

Lev nu's auximused rise product intravenously or subcutaneously. Immunization Series: A 0.5 mL dose of DAPTACEL[®] is approved for administration as a 4 dose series at 2, 4 and 6 months intervals of 6-8 weeks and at 17-20 months of age. The customary age for the first dose is 2 months of age, but it may b early as 6 weeks of age and up to the seventh birthday. The interval between the third and fourth dose should be at laces is recommended that DAPTACEL[®] be given for all doses in the series because no data on the intervalnegabelity of DAPTACEL[®] DTaP vaccines exist. At this time, data are insufficient to establish the frequency of adverse events following a fitth dose of 1 in hiddre who have previously received 4 doses of DAPTACEL[®] appATACEL[®] may bused to complete the immunization infants who have received 1 or more doses of whole-cell pertussis DTP. However, the safety and efficacy of DAPTACEL[®] in s

Inflants who have received 1 or more uses or more we personal taken to be influence of the w there circonological age from birth.¹ Interruption of the recommended schedule with a delay between doses should not interfere with the final immunity achieved with DAPTACEL^{*}. There is no need to start the series over again, regardless of the time between doses. STORAGE: DAPTACEL^{*} should be stored at 2° to 8° C (35° to 46°F). DO NOT FREEZE. Product which has been exposed to freezing should not be used. Do not use after expiration date.

STORAGE: DAPTACLE should be stored at 2° to 3°C (35° to 46°F). DO NOT FREEZE. Product which has been exposed to freezing should not be used. Do not use after expiration date. **REFERENCES:** 1. American Academy of Pediatrics. In: Pickering LK, ed. 2000 *Red Book: Report on the Committee of Infectious Diseases. 25th ed.* Ek Grove Village, LL: American Academy of Pediatrics 200017,31-35,51-53,54,666,8440-445,759-765. 2. Recommendations of the Advisory Committee on Immunization Practices (ADP). Pertussis vaccination: Use of acallular pertussis vaccines among infants and young children. MMWR 1997,46(RR-7):1-25. 3. Recommendations of the Advisory Committee on Immunization Practices (ADP). Beneral recommendations on timumization. MMWR 1994,43(RF-1):38. 4. Recommendations of the Advisory Committee on Immunization Practices (ADP). MMWR 1991,40(RF-10):-28. 5. Expanded programme on Immunization, IngCrion and paralytic ploinyellis. WMV Epdiam Rec programme of the Advisory Committee on Immunization Practices (ADP). MMWR 1991,40(RF-10):-28. 5. Expanded programme on Immunization, IngCrion and paralytic ploinyellis. WMV Epdiam Rec programme of Dimensione. 1997,46(RF-10):-28. 5. Expanded programme on Immunization, IngCrion and paralytic ploinyellis. WMV Epdiam Rec programme of Dimensione. 1997,46(RF-10):-28. 5. Expanded programme on Immunization Practices (ADP). Programme of Dimensione. 2000 Dimensione. 1997,2417-285. 5. Livencommendations of Taminumization recommendations of the Advisory Committee on Immunization Practices (ADP). MMWR 2002, 51 (RR-02): -36. 10. Recommendations of the Advisory Committee on Immunization Practices (ADP). MMWR 1996,45(RF-12):-35. 11. Buchter Meridensione. 2007,2000 District Signaphi Districts (ADP). MMWR 2002, 51 (RR-02): -36. 10. Recommendations of the Advisory Committee on Immunization Practices (ADP). MMWR 2002, 51 (RR-02): -36. 10. Recommendations of the Advisory Committee on Immunization Practices (ADP). MMWR 2002, 51 (RR-02): -37. 10. Recommendations of the Advisory Committe

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R4-1205 USA D72-372MQ

ports, according to the Food and Drug Administration.

Last month, the FDA approved the labeling changes, which add information to the adverse reactions and postmarketing sections of the vaccine's label. The information added includes six cases of Kawasaki disease that were observed in the phase III clinical trial of RotaTeq-five cases among 36,150 infants who received RotaTeq and one case among 35,536 infants who received the placebo.

There have been three additional cases of Kawasaki disease reported to the Vaccine Adverse Event Reporting System

The three reports
of Kawasaki
disease to
VAERS do not
exceed the
number of cases
that would
normally be
expected in
children.

(VAERS) since RotaTeq was approved in February 2006 for preventing rotavirus infection-information that has also been added to the postmarketing section of the label. The three cases were identified through routine monitoring of

VAERS and were reported in children receiving routine pediatric vaccines, including RotaTeq, according to an FDA statement on the Center for Biologics Evaluation and Research Web site.

The three reports to VAERS do not exceed the number of cases that would normally be expected in children, and there is "not a known cause-and-effect relationship between receiving RotaTeq, or any other vaccine, and the occurrence of Kawasaki disease," the statement said. No changes to the indication for RotaTeq have been made, and no new warnings or precautions have been issued, and "health-care practitioners and parents should remain confident in using RotaTeq." As of June 8, about 6 million RotaTeq doses had been distributed in the United States, according to the FDA.

The FDA and the Centers for Disease Control and Prevention are continuing to monitor the safety of all vaccines, and encourage health care providers to report to VAERS any cases of Kawasaki disease and other serious adverse events in recipients of RotaTeq and other vaccines.

The CDC's Vaccine Safety Datalink (VSD) project also is monitoring for Kawasaki disease in RotaTeq vaccinees. In early June, the VSD project reported one case of Kawasaki disease that occurred within 30 days of RotaTeq vaccination, which was not confirmed.

This case is among 65,000 RotaTeq doses administered to children under age 1 year who are enrolled in the project, which is monitoring the safety of vaccines among patients enrolled in eight managed care organizations.

Kawasaki disease affects about 4,000 children annually in the United States; 80% are younger than age 5. RotaTeq is manufactured by Merck.