CLINICAL CAPSULES

More Miss Day Care With Rotavirus

Rotavirus is a common cause of gastroenteritis that, in a review of 284 cases, was significantly more likely to keep children younger than 3 years of age away from day care, compared with nonrotavirus gastroenteritis.

A total of 115 cases (40%) were confirmed rotavirus infections. Overall, 70% of children with rotavirus gastroenteritis missed at least 1 day of day care, compared with 55% of children with nonrotavirus gastroenteritis, reported Dr. Susan E. Coffin of the University of Pennsylva-

nia, Philadelphia, and her colleagues (Pediatr. Infect. Dis. J. 2006;25:584-9).

Children aged 7-12 months were the hardest hit: 54% of both the 7- to 9-montholds and the 10- to 12-month-olds had rotavirus infections. By contrast, nonrotavirus infections peaked in children aged 4-6 months (72%).

The researchers collected stool samples from children with acute gastroenteritis at five urban and suburban pediatric practices during the winter-to-spring seasons of 2002-2003 and 2003-2004. The study was supported by Merck and Co.

Children with rotavirus infections were significantly more likely than those with nonrotavirus infections to exhibit vomiting (83% vs. 66%), a combination of diarrhea and vomiting (75% vs. 50%), or fever (60% vs. 43%).

Rotavirus had a significant impact on parents, too. Parents or guardians of the children with rotavirus were significantly more likely to miss at least 1 day of work than parents of children with nonrotavirus infections (62% vs. 40%).

The proportion of children who needed additional medical care, including hospitalization, was similar among both rotavirus and nonrotavirus cases.

Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed	TABL 2 ²¹³⁶ PERCENTAGE OF CHILDREN FROM PHASE II STUDY IN CANADA WITH LOCAL OR SYSTEMIC REACTIONS V VACCINATION WITH DAPTACEL® AND WHOLE-CELL PERTUSSIS DTP VACCINE AT 2, 4, 6 AND 77-181 Dose 12 (MONTHS) Dose 2 (MONTHS) Dose 3 (MONTHS)						18 MONTHS O	MONTHS OF AGE	
		Dose 1 (2 MONTHS)		Dose 2 (4 MONTHS)				Dose 4 (18	
DAPTACEL [®] B _k only	EVENT	DAPTACEL® N = 324	DTP# N = 108	DAPTACEL® N = 321	DTP# N = 106	DAPTACEL® N = 320	DTP# N = 104	DAPTACEL® N = 301	DTP# N = 97
BRIEF SUMMARY: Please consult package insert for full prescribing information.	Local								
INDICATIONS AND USAGE: DAPTACEL® is indicated for active immunization against diphtheria, tetanus and pertussis in infants and	Redness								
children 6 weeks through 6 years of age (prior to seventh birthday).	Any	12.7*	44.4	20.6*	57.5	22.2*	51.9	36.5*	55.7
Children who have had well-documented pertussis (culture positive for <i>B. pertussis</i> or epidemiologic linkage to a culture positive case)	≥10 mm ≥35 mm	1.2*	13.9 3.7	7.8* 0.3*	22.6 5.7	10.0* 1.6	17.3 1.9	27.9 21.9	36.1 20.6
hould complete the vaccination series with DT; some experts recommend including acellular pertussis vaccine as well. Although well- locumented pertussis disease is likely to confer immunity, the duration of protection is unknown. ¹	Swelling	4.3*	23.1	4.3*	32.1	4.7*	25.0	18.6*	28.9
CONTRAINDICATIONS: This vaccine is contraindicated in children and adults seven years of age and older. Hypersensitivity to any	≥10 mm	1.9*	15.7	2.2*	21.7	3.8*	14.4	15.9*	25.8
component of the vaccine is a contraindication to further administration. ²	≥35 mm	0.3*	6.5	0*	5.7	0.9*	4.8	11.3	15.5
he following events after receipt of DAPTACEL® are contraindications to further administration of any pertussis-containing vaccine:2	Tendernesst								
An immediate anaphylactic reaction. Because of uncertainty as to which component of the vaccine may be responsible, no further	Any Moderate + Severe	10.2* 0.9*	37.0 13.0	7.5* 1.2*	51.9 20.8	8.8* 1.3*	48.1 17.3	23.9* 3.0*	86.6 53.6
vaccination with diphtheria, tetanus or pertussis components should be carried out. Alternatively, such individuals may be referred to	Severe	0.9	4.6	0.3*	20.0	0*	4.8	0.3*	12.4
an allergist for evaluation if further immunizations are to be considered.	Systemic	-	4.0	0.0	1.5	-	4.0	0.5	12.4
Encephalopathy not attributable to another identifiable cause (e.g., an acute, severe central nervous system disorder occurring within	Fever ^{‡§}								
7 days after vaccination and consisting of major alterations in consciousness, unresponsiveness or generalized or focal seizures that	Any ≥37.5°C (99.5°F)	12.0*	43.7	7.7*	50.0	14.8*	53.2	14.5*	67.9
persist more than a few hours, without recovery within 24 hours). In such cases, DT vaccine should be administered for the remaining doses in the vaccination schedule.	≥38°C (100.4°F)	0.7	1.9	0*	7.8	1.2*	11.7	1.9*	17.9
he decision to administer or delay vaccination because of a current or recent febrile illness depends on the severity of symptoms and	≥40°C (104°F)	0.3	0	0	1.0	0	1.1	0	0
n the etiology of the disease. According to the ACIP, all vaccines can be administered to persons with mild illness such as diarrhea,	Irritability v								-
ild upper-respiratory infection with or without low-grade fever, or other low-grade febrile illness. ^{1,3} However, children with moderate	Any Moderate + Severe	41.0* 9.0*	65.7 18.5	41.4* 6.9*	68.9 22.6	40.9* 5.0*	67.3 22.1	36.9* 5.0*	79.4 24.7
r serious illness should not be immunized until recovered.4	Severe	0	10.5	0.3	22.0	0	1.0	0	24.7
ective immunization procedures should be deferred during an outbreak of poliomyelitis because of the risk of provoking paralysis.5.6.7	Anorexia ^Ω	ľ	1.5	0.5	0	ľ	1.0		2.1
ARNINGS: The stopper to the vial of this product contains dry natural latex rubber that may cause allergic reactions.	Any	16.0	22.2	9.0*	16.0	11.6*	23.1	17.6*	41.2
any of the following events occur within the specified period after administration of a whole-cell pertussis DTP or DTaP vaccine,	Moderate + Severe	1.5	3.7	0.9	2.8	1.3	1.9	2.0*	13.4
roviders and parents should evaluate the risks and benefits of subsequent doses of whole-cell pertussis DTP or DTaP vaccines:2	Severe	0	0	0.3	0	0	0	0	2.1
Temperature of ≥40.5°C (105°F) within 48 hours, not attributable to another identifiable cause.	Drowsiness⊽		= 0 0					10.00	
Collapse or shock-like state (hypotonic-hyporesponsive episode) within 48 hours.	Any Moderate + Severe	43.2 7.7	52.8 8.3	21.8* 2.8*	33.0 7.5	14.4* 1.3	32.7 0	13.3* 1.0*	29.9 6.2
Persistent crying lasting ≥3 hours within 48 hours.	Severe	0.3	0.5	0	0	0	ő	0	0.2
Convulsions with or without fever within 3 days.	Crying ≥3 Hours	0.6	0.9	0.3	0.9	ō	1.0	ō	1.0
/hen a decision is made to withhold pertussis vaccine, immunization with DT vaccine should be continued.4	N = Number of evaluation	ble subjects	# DTP: w	hole-cell pertu	ssis DTP va	ccine (Aventis	Pasteur Lin	nited) * Sian	ificantly I
ecause of the risk of hemorrhage, DAPTACEL® should not be given to children with any coagulation disorder, including rrombocytopenia, which would contraindicate intramuscular injection unless the potential benefit clearly outweighs the risk	reactogenic than whole when leg is moved 298/102, 257/94 and 2	Temperature r	neasurement	ts were axillary	§ Number	of evaluable s	subjects for D	APTACEL®/DTI	P = 301/1
f administration.									
tudies suggest that, when given whole-cell pertussis DTP vaccine, infants and children with a history of convulsions in first-degree amily members have a 2.4-fold increased risk for neurologic events. ⁸ However, ACIP has concluded that a history of convulsions or	s or more than two feeds * Moderate = sleeping much more than normal; severe = sleeping most of the time with difficulty and								
ther central nervous system disorders in parents or siblings is not a contraindication to pertussis vaccination and that children with									
uch family histories should receive DTaP vaccines according to the recommended schedule.1.3.4	recommended, concurr	ently given chil	dhood vaccir	nes (Haemophil	us influenza	e type b vaccin	e, OPV and h	epatitis B). The	incidence
For infants or children at higher risk for seizures than the general population, an appropriate antipyretic may be administered (in the	redness, swelling, pain								
losage recommended in its prescribing information) at the time of vaccination with a vaccine containing an acellular pertussis omponent (including DAPTACEL®) and for the following 24 hours, to reduce the possibility of post-vaccination fever. ²⁹	respectively. Fever ≥38°C (100.4°F) was observed in 9.9% - 11.9% of subjects. Une afebrile seizure occurred within 24 hours pos dose 2 immunization (n = 321). ¹³								
/hether to administer DAPTACEL® to children with proven or suspected underlying neurologic disorders must be decided on an individ- al basis. An important consideration includes the current local incidence of pertussis. The ACIP has issued guidelines for such children. ¹⁰	Additional adverse reactions evaluated in conjunction with pertussis, diphtheria and tetarus vaccination are as follows: • As with other aluminum-containing vaccines, a nodule may be palpable at the injection sites for several weeks. Sterile abscess formation at the site of injection has been reported. ¹¹⁹								
RECAUTIONS: General: Care is to be taken by the health-care provider for the safe and effective use of this vaccine.					difficulty be	oothing hurst-	noion or ch-	alı) hava harr	reported -
pinephrine Hydrochloride Solution (1:1,000), other appropriate agents and equipment must be available for immediate use in case an aphylactic or acute hypersensitivity reaction occurs. Health-care providers must be familiar with current recommendations for the	 Rarely, anaphylactic reactions (i.e., hives, swelling of the mouth, difficulty breathing, hypotension or shock) have been reporter receiving preparations containing diphtheria, tetanus and/or pertussis antigens.⁴ 								
titilal management of anaphylaxis in non-hospital settings, including proper airway management. ^{1,11} efore an injection of any vaccine, all known precautions should be taken to prevent adverse reactions. The expected immune response DAPTACEL [®] may not be obtained in immunscuppressed persons. ⁴ Pertussis-containing vaccines are not contraindicated in persons	Arthus-type hypersensitivity reactions, characterized by severe local reactions (generally starting 2-8 hours after an inject follow receipt of tetanus toxoid. A few cases of peripheral neuropathy have been reported following tetanus toxoid admir although the evidence is inadequate to accept or reject a causal relation. ²⁰						dministrati		
Ith HV infection. ¹ IS EXTEMELY IMPORTANT WHEN A CHILD RETURNS FOR THE NEXT DOSE IN THE SERIES THAT THE PARENT OR GUARDIAN SHOULD E QUESTIONED CONCERNING ANY SYMPTOMS AND/OR SIGNS OF AN ADVERSE REACTION AFTER THE PREVIOUS DOSE OF VACCINE. See CONTRAINDICATIONS and ADVERSE REACTIONS.)	A review by the Institut syndrome. ²¹ The follow neurological complication recurrent nerve, accom function imposiment) 25	ring illnesses l Ins ^{22,23} includir modation pares	have been re ig cochlear le sis and EEG	eported as tem esion, brachial j disturbances w	porally asso blexus neuro ith encephal	pathies,24 paral opathy (with or	ome vaccines lysis of the ra r without per	s containing te dial nerve, ²⁰ pa manent intellec	tanus tox aralysis of tual or m
rug Interactions: As with other intramuscular (I.M.) injections, use with caution in patients on anticoagulant therapy.	function impairment).25 tetanus toxoid, tetanus 1					atnies tollowing	g administrat	ion or a vacci	ne contai
mmunosuppressive therapies, including irradiation, antimetabolites, alkylating agents, cytotoxic drugs and corticosteroids (used in reater than physiologic doses), may reduce the immune response to vaccines. Although no specific studies with perfussis vaccine are	DOSAGE AND ADMINIS					, until a uniforn	n, cloudy sus	pension result	s. WITHDF

AND INJECT A 0.5 mL DOSE. Administer the vac anterolateral aspect of the thigh provides the largest muscle and is the preferred site of usually large enough for I.M. injection. The vaccine should not be injected into the glu nerve trunk.¹ ster this product intravenously or subcutaneously. Series: A 0.5 mL dose of DAPTACEL® is approved

nunization Series: A 0.5 mL dose of DAPTACEL[®] is approved for administration as a 4 dose series at 2, 4 and 6 months of age, at visals of 6-8 weeks of age and up to the seventh birthday. The interval between the third and fourth dose should be at least 6 months. It is was to weeks of age and up to the seventh birthday. The interval between the third and fourth dose should be at least 6 months. It is memedde that DAPTACEL[®] be given for all doses in the series because on data on the interval manageability of DAPTACEL[®] with DAPTACEL[®] with DAPTACEL[®] and DAPTACEL[®] at the series because on data on the interval between the third and fourth dose should be at least 6 months. It is prevealed with DAPTACEL[®] be given and a dose of DAPTACEL[®] DAPTACEL[®] may be used to complete the limituration series in a not been fully demonstrated?

nave not been uling demonstrated.² PERSONS 7 VEARS OF AGE ANID OLDER SHOULD NOT BE IMMUNZED WITH DAPTACEL® OR ANY OTHER PERTUSSA-CONTAINING VACONES.3 DAPTACEL® should not be combined through reconstitution or mixed with any other vaccine. If any recommended dose of pertussas vaccine cannot be given, DT for Pediatric Use) should be given as needed to complete the series. Pre-term infants should be vaccinated according to their chronological age from birth.¹ Interruption of the recommender davide with a house the series. Pre-term infants should be interruption of the recommender davide with a house the series. Pre-term infants should be interruption of the recommender davide with a house the series. Pre-term infants should be water to be apprecision of the recommender davide the series. Pre-term infants should be performed according to the recommender davide house the series. Pre-term infants should be performed according to the recommender davide house the series. Pre-term infants should be performed according to the performance of the term of the term of the term of the term of the term.

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), D0 NOT FREEZE. Product which has been exposed to freezing should not be used. Do not use after expiration date. **REFERENCES:**

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i			Product information as of March 2003
3	Manufactured by: Aventis Pasteur Limited Toronto Ontario Canada	Distributed by: Aventis Pasteur Inc. Swiftwater PA 18370 USA	
, ; ; ;	US Patents: 4500639, 4687738, 4784589, 499	7915, 5444159, 5667787, 5877298.	R2-0303 USA D72-372MQ 2014743

MKT5997-2R

Extreme Fevers May Merit Antibiotics Children with very high fevers are at increased risk for both bacterial and viral illness, and clinical features don't reliably distinguish between the two conditions.

Dr. Barbara W. Trautner of Bavlor College of Medicine, Houston, and her colleagues identified 103 cases of hyperpyrexia-defined as a rectal temperature of 106 ° F or higher—in a review of 130,828 patient visits (1 case per 1,270 visits).

The researchers found that 20 of these children (19%) had serious bacterial infections and 22 (21.4%) had laboratoryconfirmed viral illness (Pediatrics 2006;118;34-40).

About a third of the children (35%) had fevers that lasted longer than 48 hours, and the cause of the fever was unknown in 60 children (58%).

The incidence of serious bacterial infection in children with underlying illnesses was more than double that in children without underlying illness (37% vs. 16%). But no other factors, including age and maximum temperature, were significantly predictive of serious bacterial infection compared with viral infection. Notably, the differences in white blood cell counts were not significant enough to be helpful in distinguishing bacterial vs. viral illness, although the median WBC was insignificantly higher in cases of viral illness.

The increased use of rapid testing continues to raise awareness of bacterial and viral coinfection, but only one child of 103 had a coinfection, which suggests that a positive rapid viral test alone may not be sufficient to rule out treatment with antibiotics.

Bocavirus and Respiratory Illness

Human bocavirus DNA was identified in 82 (5.6%) of 1,474 nasal specimens from children with upper and lower respiratory tract infections collected over a 20month period in a San Diego children's hospital.

The prevalence of the human bocavirus (HBoV) infections peaked at 14% between March and May in both 2004 and 2005, although the reason for the spring peak was unclear, reported Dr. John C. Arnold of Children's Hospital, San Diego, and his colleagues. The study included children up to age 18 years, but most (63%) were less than 1 year old (Clin. Infect. Dis. 2006;43:283-8).

The researchers reviewed the records of 68 (83%) of the 82 patients with HBoV to discover the clinical characteristics associated with the infection in children. They found underlying illnesses in 21 (31%) children including 11 patients with asthma and 7 patients with neuromuscular disorders.

Cough was the most common symptom, based on data from 54 patients with no obvious coinfections or detectable viral antigens. Cough occurred in 46 (85%) of these children, and 10 (19%) had coughs described as "paroxysmal." A total of 33 patients (62%) showed clinical signs of lower respiratory tract infections, and bronchiolitis was the most common diagnosis (26%). Difficulty breathing, nasal congestion, fever, and diarrhea were also common in patients with HBoV, and five patients had a rash.

uppunge coses, may requee the immune response to vaccines. Although no specific studies with pertussis vaccine are immonsupersesting therapy is to be son discontinued, it seems reasonable to defer immunization until the patient has by for one month; otherwise, the patient should be vaccinated while still on therapy.⁴ IACEL® is administered to persons with an immunodeficiency disorder, on immunosuppressive therapy or after a recent injection une globulin, an adequate immunologic response may not occur.

a minutery govorati, an advegater immunutery response may not occur. For information regarding simultaneous administration with other vaccines refer to DOSAGE AND ADMINISTRATION. If passive minutazion is needed for tetanus or diphtheria prophylasis, Tetanus Immune Globulin (Human) (TIG), or Diphtheria Antitoxin, if used, should be given in a separate site, with a separate needed and syringa². Carcinogenesis, Mutagenesis, Impairment of Fertility: DAPTACEL® has not been evaluated for its carcinogenic or mutagenic intential or imminered 10 fertility.

esis, Mutagenesis, Impairment of Fertility: DAPTACEL® has not been evaluated for its carcinogenic or mutagenic impairment of fertility. Gategory C: Animal reproduction studies have not been conducted with DAPTACEL®. It is not known whether DAPTACEL® Ital harm when administered to a pregnant woman or can affect reproductive capacity. DAPTACEL® is NOT recommended reprant woman.

yman. Wort is NOT recommended for use in adult populations. AND EFFECTIVENESS OF DAPTACEL® IN INFANTS BELOW 6 WEEKS OF AGE HAVE NOT BEEN ESTABLISHED. (See Pediatric Use: SAFETY AND EFFEC

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TABLE 12-33 TABLE 12-33 POST-DOSE 1, 2 AND 3 OF DAPTACEL® COMPARED WITH DICAL OR SYSTEMIC REACTIONS WITHIN 24 HOURS POST-DOSE 1, 2 AND 3 OF DAPTACEL® COMPARED WITH DI CALL OR SYSTEMIC REACTIONS WITHIN 24 HOURS DOSE 1 (2 MONTHS) DOSE 1 (2 MONTHS) DOSE 2 (4 MONTHS) DOSE 2 (4 MONTHS) DOSE 3 (6 MONTHS) DOST 2 MONTHS) DOST 2 (4 M

EVENT	N = 2,587	N = 2,574	N = 2,102	N = 2,563	N = 2,555	N = 2,040	N = 2,549	N = 2,538	N = 2,001
Local									
Tenderness									
(Any)	8.0*	8.4	59.5	10.1*	10.3	60.2	10.8*	10.0	50.0
Redness									
≥2 cm	0.3*	0.3	6.0	1.0*	0.8	5.1	3.7*	2.4	6.4
Swelling									
≥2 cm	0.9*	0.7	10.6	1.6*	2.0	10.0	6.3*§	3.9	10.5
Systemic									
Fever [†] ≥38°C									
(100.4°F)	7.8*	7.6	72.3	19.1*	18.4	74.3	23.6*	22.1	65.1
Fretfulness ^{††}	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*	7.7	17.5
Drowsiness	32.7*	32.0	56.9	25.9*	25.6	50.6	18.9*	20.6	37.6
Crying ≥1									
hour	1.7*	1.6	11.8	2.5*	2.7	9.3	1.2*	1.0	3.3
Vomiting	6.9*	6.3	9.5	5.2**	5.8	7.4	4.3	5.2	5.5
N = Number of	f evaluable su	bjects *p <l< td=""><td>0.001: DAPTA</td><td>CEL® versus w</td><td>hole-cell perti</td><td>ussis DTP</td><td></td><td></td><td></td></l<>	0.001: DAPTA	CEL® versus w	hole-cell perti	ussis DTP			
**p<0.003: DAPTACEL® versus whole-cell pertussis DTP § p<0.0001: DAPTACEL® versus DT † Rectal temperature									
11 Statistical co	omparisons w	ere not made 1	or this variab	le DT: Swee	dish National E	liologics Lab	oratories D'	TP: Aventis P	asteur Inc.
In patients who received DAPTACEL®, the incidence (rates per 1,000 doses) of rectal temperature ≥40°C (104°F) within 48 hours of									

In patients who received DAPTAGEL®, the incidence (rates per 1,000 doess) of rectal temperature 240°C (104°F) within 44 hours of vaccination was 0.39 following does 1 and does 3 and the incidence of persistent crying ≥3 hours within 24 hours of vaccination was 0.039 following does 1 and does 3 and the incidence of persistent crying ≥3 hours within 24 hours of vaccination was 1.16 and 0.39 following does 1 and generalized symptoms, with resolution within 24 hours, was observed following does 2 of DAPTAGEL® No episodes of anaphysias or encephalogathy were observed. No secures were reported within 3 days of vaccination with DAPTAGEL® yourge of an analysias or encephalogathy were observed. No secures were reported within 3 days of vaccination with DAPTAGEL® yourge for use and s with environments. The DAPTAGEL® yourge and 3 in the whole-cell pertussis DTP group, for overall rates of 2.3, 3.5 and 1.4 per 1,000 vaccines, respectively. One case of whom and 3 in the whole-cell pertussis DTP group, for overall rates of 2.3, 3.5 and 1.4 per 1,000 vaccines, respectively. One case of infantile spasms was reported in the DAPTAGEL® yourge there were instances of invasive bacterial infection or denth.^{12,13} Rates of serious adverse events that are less common than those reported in the Sweden I Efficacy Trial are not known at this time. Table 2 summarizes the safety results from the Phase I Study in Canada in children who were immunized at 2, 4, 6 and 17-218 months of a ge with DAPTAGEL®. Local and swelling which id not differ betwen the 2 vaccins of corresas and swelling which id not differ betwen the 2 vaccins of calc reactions of denthrese and swellen which id not differ betwen the 2 vaccins of calc reactions of redness and swelling which id not differ betwen the 2 vaccins of calc reactions of redness and swelling which id not differ between the 2 vaccins of the calc saccins of redness and swelling which id differ between the 2 vaccins of the redness and swelling which id differ between the 2 vaccins of the redness and sw