

racticing pediatrics is a lot like baking brownies. I've been to

enough picnics

and to enough

potluck suppers to know that everyone likes brownies. And it is clear that every parent wants

## LETTERS FROM MAINE What's Your Recipe?

quality health care for their children.

The problem is that there are lots of ways to make a brownie. Do you like yours more like cake or more like fudge? From scratch or a mix? Nuts? On top or mixed in? Is store-bought in a cellophane bag good enough?

Likewise, everyone seems to have his or her own definition of quality health care. Of course you want your child's condition accurately diagnosed and treated with the most appropriate remedy. Just as chocolate, flour, and sugar are to a brownie, those are the essential ingredients of quality health care. But the ratios between the ingredients and the special additions to the recipe are what make one provider's approach to health care delivery more or less appealing to the appetite of the patients and their families.

In our group of four pediatricians, each of us has his or her particular style of de-

		Dose 1 (2 N	IONTHS)	Dose 2 (4 MONTHS)		Dose 3 (6 MONTHS)		Dose 4 (18 MONTHS)	
	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
	Local								
	Redness								
	Anv	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
	Tendernesst								
	Any	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								
	Fever <sup>‡§</sup>								
	Any ≥37.5°C (99.5°F)	12.0*	43.7	7.7*	50.0	14.8*	53.2	14.5*	67.9
	≥38°C (100.4°F)	0.7	1.9	0*	7.8	1.2*	11.7	1.9*	17.9
	≥40°C (104°F)	0.3	0	0	1.0	0	1.1	0	0
	Irritability								
	Any	41.0*	65.7	41.4*	68.9	40.9*	67.3	36.9*	79.4
	Moderate + Severe	9.0*	18.5	6.9*	22.6	5.0*	22.1	5.0*	24.7
	Severe	0	1.9	0.3	0	0	1.0	0	2.1
	AnorexiaΩ								
	Any	16.0	22.2	9.0*	16.0	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 <sup>7</sup>								
	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	0	0	0	0	0	0	0
	Crying $\geq 3$ Hours N = Number of evalual	0.6	0.9 # DTP: wh	0.3	0.9	0	1.0	0	1.0

reactopenic than whole-cell DTP vaccine, p-Cu0.5 1 Moderate = sustained cry with gente pressure at injection site. Severe e \_ cries when leg is moved. 1 Temperature measurements were atilial. 9 Number of evaluable subjects for DAPRACEL\*0TP = 301/103, 289/102, 257/94 and 207/78 at 2, 4 6 and 18 months, respectively · Moderate = more difficulty with settling, even with coulding; Severe = persistent crying/screaming and inability to consel · Moderate = mised one or two feeds; Severe = little or no intake for more than two feeds · <sup>T</sup>Moderate = sleeping much more than normal; Severe = sleeping most of the time with difficulty around in the US Bridging Study was designed, in part, to assess the sleef of DAPACEL® in Infrast 2, 4 and f months of age, with routinely recommended, concurrently given childhood vaccines (*Heamophilus influenzee* type to vaccine, 0PV and hepatitis B). The indicance of redenses, swelling, pain or feedmenes at the injection site after each does was 12.5% - 197%, 14.3% - 17.5% and 1,5.5% - 30.5% respectively. Fever 238°C (100.4°F) was observed in 9.9% - 11.9% of subjects. One afterile secture occurred within 24 hours post doese 2 immunization (n = 231): 1 Additional adverse reactions evaluated in conjunction with pertussis, diphtheria and tetanus vaccination are as follows:: As with other subminum-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 4<sup>18</sup>.

formation at the site of injection has been reported.<sup>4,19</sup> • Rarely, anaphylactic reactions (i.e., hives, swelling of the mouth, difficulty breathing, hypotension or shock) have been reported after receiving preparations containing diptheria, tetanus and/or pertussis and/gens.<sup>4</sup> Arthus-type hypersensitivity reactions, characterized by severe local reactions (generally starting 2-8 hours after an injection), may follow receipt of tetanus toxiol. A two cases of perturban leutoparty have been reported following tetanus toxiol administration, although the evidence is inadequate to accept or reject a causal relation have been reported following tetanus toxiol administration, although the evidence is inadequate to accept or reject a causal relation between tetanus toxiol at ministration, although the evidence is inadequate to accept or reject a causal relation between tetanus toxiol at mervize and unitial mervizes and causal relation between tetanus toxiol at mervize and unitial mervizes and the causal relation herveen tetanus toxiol at mervezional mervezional comparises of the real mervezion have her reported as temporally associated with some vaccines containing tetanus toxiol: recurrent nerve, accommodation paresis and EEG disturbances with encephalopathy (with or without) permanent intellectual or motor function impairment;<sup>2,2,3</sup> In the differential diagnosis of opyradiculouropathies following administration of a vaccine containing tetanus toxid, tetanus toxid should be considered as a possible etology.<sup>30</sup>

Summary structures structures and the constrained as a possible etilology.<sup>26</sup> DOSAGEE AND ADMINISTRATION: LIST EFFORE LESS SANKET THE VUM LELL until a uniform, cloudy suspension results. WITHDRAW AND INLECT A 0.5 mL DOSE. Administer the vaccine intramuscularity (I.M.). In children younger than 1 year (i.e., infrants), the anterolateral aspect of the thing provides the largest muscle and is the preferred site of injection. In odder children, the detoid muscle is usually large enough for I.M. injection. The vaccine should not be injected into the gluteal area or areas where there may be a major nerver tunk.<sup>1</sup> nister this product intravenously or subcutaneously.

Do NDT administer this product intravenously or subcutaneously. Immunization Series: A 0.5 mL does of DAPTRACE! @ saproved for administration as a 4 dose series at 2. 4 and 6 months of age, at intervals of 6.3 weeks and at 17.20 months of age. The customary age for the first dose is 2 months of age, but it may be deven as a early as 6 weeks of age and up to the seventh birthday. The interval between the third and nouth does should be at least 6 months. It is recommended that DAPTACE! <sup>th</sup> be given for all doses in the series because no data on the interchangeability of DAPTACE! <sup>th</sup> event birthday. The interval between the third and nouth does should be with other DaP vaccines exist. At this time, data are instificient to estabilis the frequency of adverse events follwing at effit dose of DAPTACE! <sup>th</sup> may be used to complete the immunization series in inflams who have previously received 4 doses of DAPTACE!<sup>th</sup> and be used to complete the immunization series in inflams who have received 1 or more doses of whole-cell pertussis DTP. However, the safety and efficacy of DAPTACE!<sup>th</sup> is such idmaths have not been fully demonstrated.<sup>2</sup> PERSONS 7 YEARS 0F AGE ANO OLDER SHOULD NOT EE MMUNUZED WITH DAPTACE!<sup>th</sup> on ANY OTHER PERTUSSIS-CONTAINING WCCONES? JAPTACE!<sup>th</sup> should not be combined through reconstitution or mixed with any other vaccine. If any recommends dose of vaccinated according to their chronological age from birth.<sup>1</sup> Internation of the recommender Schule with a law between the series. Pre-term inflams schule with the interchangeability of advecting to the schule with a birth the schule with any other vaccine. If any recommends dowed of vaccinated according to their chronological age from birth.<sup>1</sup> Internation of the recommender dave birth.<sup>1</sup> Internation of the recommender dave birth.<sup>1</sup> Internation of the recommender dave and birth.<sup>1</sup> Internation of the recommender dave and birth.<sup>1</sup> Internation of the recommender dave and birth.<sup>1</sup> Internation of the recommender d

Interruption of the recommends after equivalent of the set of the

STORAGE: DAPTACEL® should be stored at 2° to 8°C (B5° to 46°F). D0 NOT FREEZE. Product which has been exposed to freezing should not be used. Do not use after explanton date.
REFERENCES:
1. American Academy of Pediatrics. In: Pickering LK, ed. 2000 Red Book: Report on the Committee of Infectious Diseases. 25th ed. Elk Grove Village, LL: American Academy of Pediatrics 2000:173:35,51-53,54,65,68,440-445,739-765. 2. Recommendations of the Advisory Committee on Immunization Practices (ACP). General recommendations of munization. PMMUE 1994;34(RF):173-83. 4. Recommendations of the Advisory Committee on Immunization Practices (ACP). General recommendations of the Advisory Committee on Immunization Practices (ACP). Distinteria, Tearus, and Pertussis. Recommendations for vaccine use and other preventive measures.
9903-53:4-0. Souther KW, et al. Althoutable risk of DPI (diputheria and pertuss) vaccine lipiection in providing paralytic polionyrelitis during a large outpreak in Oman. J Infect Dis 1992;155:444-449. 7. Christie AB. Infectious diseases: public polionyrelitis during a large outpreak in Oman. J Infect Dis 1992;155:44-528. Livengoot A, et al. Family history of comvilsion on the Advisory Committee on Immunization Practices (ACP). Job 1994;23(RF). July 1994;33(RF). July 2005;35:10. Succine MC, July 1994;33(RF). July 19

d		Product information as of March 2003			
S	Manufactured by: Aventis Pasteur Limited Toronto Ontario Canada	Distributed by: Aventis Pasteur Inc. Swiftwater PA 18370 USA			
i, s o	US Patents: 4500639, 4687738, 4784589, 4997	7915, 5444159, 5667787, 5877298.	R2-0303 USA D72-372MQ 2014743 4757		

livering quality health care. We talk frequently among ourselves and see each other's charts many times during a typical day. We use the same rationale for choosing antibiotics and asthma medications. And, although we try to speak with one voice, we each have our own distinct accent that can put a different spin on the same message.

As the senior member of the group, I tend to rely on my age and an aura of experience to convince the patient's family that I have chosen the diagnosis and treatment wisely. Instead of ordering much lab work or x-rays, I use the unstated "because-I-said-so" rationale. While it's a defense that may not stand up in court, it works more often than not with most families who have chosen me as their primary care provider. I'm sure I don't spend as much time as my partners do explaining anatomy and physiology in great detail ... but I do draw a lot of pictures.

But, there are some families for whom lab work and x-rays are part of their definition of quality health care. Just as there are some parents who prefer their medical care with a liberal dose of worry sprinkled on top. They will tend to choose one of my partners who shares their preference for looking at worst-case scenarios.

Please don't hear this as a judgmental observation. I completely understand why some people are comforted by hearing about all the ugly and unlikely possibilities that have been ruled out. It's just not the way I like to bake my brownies.

My usual health care delivery style is the pop-in-the-microwave-ready-to-serve version. I contend that in a blindfolded taste test the consumer couldn't tell the difference between mine and the baked-fromscratch version. It's got the essential ingredients of the correct diagnosis and treatment. And, surprisingly, many working parents with busy lives and overscheduled children like the quick turnaround time in the office. But, not surprisingly, other parents feel more comfortable when they know a diagnosis and treatment plan has baked in the oven for 15 or 20 minutes.

With four pediatricians in our group, the families who choose us can select a primary care provider whose style best fits their preferences.

But occasionally families will ask to see someone other than their primary care provider because on a particular day or with a particular complaint, they feel that a different style would be a better fit for their schedule or their emotional needs.

The challenge for physicians comes when we are on call and the only package on the shelf. Obviously, if there is time, I would like all families to receive the style of care they are most comfortable with. I can still bake them from scratch, add nuts, or make them sweet and fudgy, and I will. The challenge is figuring out just how each family likes its brownies.

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## **Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed DAPTACEL®**

Ŧ DAPE TACLEC<sup>®</sup>
 BRIEF SUMMARY: Please consult package insert for full prescribing information.
 MIOLATIONS AND USAGE: DAPTACEL<sup>®</sup> is indicated for active immunization against diphtheria, tetanus and perfussis in i
 children of weeks through 6 years of age (prior to seventh birthdy).
 Children who have had well-documented pertussis (culture positive for 8. perfussis or epidemiologic linkage to a culture pos
 should complete the vaccination series with DT; some experts recommend including acellular perfussis vaccine as well. Alth
 documented pertussis (culture positive for 8. perfussis or epidemiologic linkage to a culture pos
 should complete the vaccination series with DT; some experts recommend including acellular perfussis vaccine as well. Alth
 component of the vaccine is a contraindicated in children and adults seven years of age and older. Hypersensiti
 component of the vaccine is a contraindication to further administration of any perfussis-containing w
 - An immediate amaphylacic reaction. Because of uncertaininy as to which component of the vaccine may be contrained. norwing events after receipt or user Ind.ct.<sup>-</sup> are contraintocators to lutrime administration of any pertussis-containing V immediate anaphylactic reaction. Because of uncertainty as to which component of the vaccine may be responsible, cicination with diphtheria, tetanus or pertussis components should be carried out. Alternatively, such individuals may be allergist for evaluation if further immunizations are to be considered. coephalopathy not attributable to another identifiable cause (e.g., an acute, severe central nervous system disorder occus days after vaccination and consisting or finger attemation is consolucenses, urresponsiveness or generalized of focal srist more than a few hours, without recovery within 24 hours). In such cases, DT vaccine should be administered for the ses in the vaccination schedule. In the vaccination schedule. Sion hadminister or delay vaccination because of a current or recent febrile illness depends on the severity of sy ticlogy of the disease. According to the ADP, all vaccines can be administered to persons with mild liness such are respiratory intercion with or without low-grade texer, or other low-grade febrile illness.<sup>1,3</sup> However, children wit is illness should not be immunized until recovered.<sup>4</sup> immunization procedures should be deferred during an outbreak of polomyelitis because of the risk of provoking pa IGS: The stopper to the vial of this product contains dry natural latex rubber that may cause allergic reactions. 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 value-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.<sup>2</sup> • Collapse or shock-like state (hypotonic-hyporesponsive episode) within 48 hours. • Persistent crying lasting 25 hours within 48 hours, or attributable to another identifiable cause. • Convisions with or without fever within 3 days. When a decision is made to withhold pertussis vaccine, immunization with DT vaccine should be continued.<sup>4</sup> Because of the risk of hemorrhape, DAPTACELE should not be given to children with any coagulation disorder, including thrombocytopenia, which would contraindicate intramuscular injection unless the potential benefit clearly outweighs the risk of administration. thrombocytopenia, which would contraindicate intramuscular injection unless the potential benefit clearly outweighs the risk of administration of administration. Suggest that, when given and the perfussion of the perfussion of

In Dev InceCo<sup>®</sup> interpreted to the initial instrumestic sevel persons in Percession and interpreted to the interpreted of the percent of the

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

Tor use in a pregnant woman. Genatric Use: This product is NOT recommended for use in adult populations. Pediatric Use: SAFETY AND EFFECTIVE) DOSAGE AND ADMINISTRATION :

WE IS NOT RECOMMENDED FOR PERSONS 7 YEARS OF AGE OR OLDER. Tetanus and Diphtheria Toxoids Adsorbed For Adult to be used in individuals 7 years of age or older.

Note: - Muniter received a lowar or J busies and v or builter received a Gosse of UAP1ALEL®, VELANALEL®, VELANALEL®, VELANALEL®, VELANALE®, VEL

 TABLE 112,13

 Percentage of infants from sweden I efficacy trial with local or systemic reactions within 24 Hours

		e 1 (2 MONT		MPARED WITH DT AND WHOLE-CELL F 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)	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 Fevert >38°C									
(100.4°F)	7.8*	7.6	72.3	19.1*	18.4	74.3	23.6*	22.1	65.1
Fretfulnesst	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 Crying ≥1	32.7*	32.0	56.9	25.9*	25.6	50.6	18.9*	20.6	37.6
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 sub	iects *p<	0.001: DAPTA	CEL <sup>®</sup> versus w	nole-cell perti	ussis DTP			
	PTACEI ® versi				1: DAPTACEL		† Rectal tem	nerature	

\*p<0.003: DAPTACEL® versus whole-cell pertussis DTP ↑ Statistical comparisons were not made for this variable DT: Swedish National Biologics Laboratories DTP. Aventis Paster

The Statistical comparisons were not made for this variable. DI: Swedish Matonia Biologics Laboratories DIT- & Aventla Pasteur Inc. In patients who received DAPTACEL®, the incidence (rates per 1,000 does) of rectal temperature ≥40°C (104°P) within 48 hours of vaccination was 0.39 following does 1 and 2.0es 3 and the incidence of persistent crying ≥3 hours within 24 hours of vaccination was 1.16 and 0.39 following does 1 and 2, respectively. One case of whole limb swelling and generalized symptoms, with resolution within 24 hours, was observed following does 2 of DAPTACEL®. We episodes of anaphytaxis or encephalopathy were observed. No seizures were reported within 3 days of vaccination with DAPTACEL® over the entire study period. G seizures were reported in the DAPTACEL® mound on and 3 in the whole-cell pertussis DTP group. for overall rates of 2.3, 3.5 and 1.4 per 1,000 vaccinees, respectively. One case of whole the inter study period. G seizures were reported in the DAPTACEL® overall rates of 2.4, 6 and 17-18 months of age with DAPTACEL®. Use class and were events that are less common than those reported in the Sweden LEfficacy Trial are not known at this time. Table 2 summarizes the stately results from the Phase J Study in Canada to inclifere who were immuzized 4.2, 4.6 and 17-18 months of age with DAPTACEL® to cell and systemic adverse events were consistently less common in DAPTACEL® consistently exclass of the rate of second whole were deserved. J whole compared with the first 3 doese as was mild tenderness but there was no increase in severe tendeness.

ADVERSE REACTIONS: Over 11,400 doses of DAPTACEL® have been administered to infants and toddlers in 6 clinical studies. In all, 3,694 children received a total of 3 doses and 476 children received 4 doses of DAPTACEL®.12.13.14.15.16.17.18