## Wanted: Docs to Help Craft Pay for Performance

BY JOYCE FRIEDEN Associate Editor, Practice Trends

CHICAGO — Physicians need to help design the pay-for-performance programs now being initiated by Medicare and other payers or they may not like the results, Dr. Trent Haywood said at the annual meeting of the American Association of Clinical Endocrinologists.

'What it comes down to ... is there's a certain level of fear, a certain uneasiness"

about the program among doctors, said Dr. Haywood, who is deputy chief clinical officer at the Centers for Medicare and Medicaid Services. "The thing is for clinicians to work with us and get on board. We don't want to design a program and not have clinician input.'

Medicare currently has several pilot programs under which physician and hospital pay is based in part on patient outcomes and quality of care. Demonstrations include a project with 10 large multispecial-

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ty practices nationwide, and an oncology project in which physicians are paid to report their use of guidelines as well as outcome measures for their patients.

Dr. John Rowe, executive chairman of Aetna, made a similar comment at the Society of Hospital Medicine meeting in Washington. "My fear is that the pay-forperformance train is leaving the station, and the doctors aren't on it," he said. "When I talk to people who buy Aetna's services [such as large employers], they get

## Tetanus Toxoid, Reduced **Diphtheria Toxoid and Acellular** Pertussis Vaccine Adsorbed ADACEL™

Brief Summary: Please see package insert for full prescribing information INDICATIONS AND USAGE ADACEL vaccine is indicated for active booster immunization for the prevention of tetanus, diphtheria and pertussis as a single dose in persons 11 through 64 years of age. The use of ADACEL vaccine as a primary series, or to complete the primary series, has not been studied. See DOSAGE AND ADMINISTRATION for use in tetanus prophylaxs in wound manage-ment. ADACEL vaccine is not indicated for the treatment of *B pertussis*, *C diphtheriae* or *C tetan* infections. As with any vaccine, ADACEL vaccine may not protect 100% of vaccinated individuals. **CONTRAINDICATIONS** Known systemic hypersensitivity to any component of ADACEL vaccine or a life-threatening reaction after previous administration of the vaccine or a vaccine containing the same substances are contraindications with the diphtheria, tetanus or pertussis components should not be administered. Alternatively, such individuals may be referred to an allergist for evaluation if further immunizations are to be considered. The following events are contraindications to administration of any pertussis containing vaccine: (1)

of any pertussis containing vaccine: (1) • Encephalopathy not attributable to another identifiable cause within 7 days of administration of a previous dose. • Progressive encological disorder, uncontrolled epilepsy, or progressive encephalopathy. Pertussis vaccine should not be administered to individuals with these conditions until a treatment regimen has been established, the condition has stabilized, and the benefit

clearly outweighs the risk. ADACEL vaccine is not contraindicated for use in individuals with HIV infection. (1)

Clearly outweight the risk. ADACEL vaccine is not contraindicated for use in individuals with HIV infection. (1) WARNINGS Because intramuscular injection can cause injection site hematoma, ADACEL vaccine should not be given to persons with any bleeding disorder, such as hemophila or thrombocytopenia, or to persons on anticoagulant therapy unless the potential benefits dearly outweigh the risk of administration. If the decision is made to administer ADACEL vaccine is such persons, it should be given with caution, with steps taken to avoid the risk of hematoma formation following injection. (1) If any of the following events occurred in temporal relation to previous receipt of a vaccine containing a whole-cell pertussis (eg. DTP) or an acellular pertussis component, the decision to give ADACEL vaccine should be based on careful consideration of the potential benefits and possible risks: (2) (3) • Temperature of 240.5°C (105°F) within 48 hours not due to another identifiable cause; • Collapse or shock-like state (hypotonic-hyporesponsive episode) within 48 hours; • Persistent, inconsolable crying lasting 23 hours, occurring within 48 hours; • Seizures with or without fever occurring within 3 days. When a decision is made to withhold pertussis vaccine, Td vaccine should be given. Persons who experienced Arthus-type hypersen-sitivity reactions (eg. severe local enactions associated with systemic symptoms) (4) following a prior dose of tetanus toxoid usually have high serum tetanus antitoxin levels and should not be given emergency doses of tetanus toxoid usually have high serum tetanus antitoxin levels and should not be given emergency doses of ADACEL vaccine or any vaccine containing tetanus toxoid should be based on careful consideration of the potential benefits and possible risk. (1) The decision to and a neither dean nor minor. (4) (5) If Guillain-Barré Syndrome occurred within 6 weeks of receipt or hardine containing tetanus toxoid, the decison to give subsequent doses of ADACEL vaccine or an issued guidelines for immunizing such individuals. (2) A family history of seizures or other CNS disorders is not a contraindication to per-tussis vaccine. (2) The ACIP has published guidelines for vaccination of persons with recent or acute illness. (1)

Fields glocking (2) The ACIP has published guidelines for vaccination of persons with recent or acute lines; (1) **PRECAUTIONS General** Do not administer by intravascular injection: ensure that the needle does not penetrate a blood vessel.
ADACEL vaccine should not be administered into the buttocks nor by the intrademal notuce lines; (1) **PRECAUTIONS General** Do not administer divide the buttocks nor by the intrademal notuce lines; (1) **PRECAUTIONS General** Do not administer by intravascular injection: ensure that the needle does not penetrate a blood vessel.
ADACEL vaccine should not be administered into the buttocks nor by the intrademal notuce, since these methods of administration have not been studied, a weaker immune response has been observed when these routes of administration have been used with other vaccines; (1) The possibility of allergic reactions in persons sensitive to components of the vacarie should be evaluated.
Epinephine Hydrochoidof Solution (11:000) and other appropriate agents and equipment should be evaluated to use an anaphylactic or acute hypersensitivity reaction occurs. Prior to administration of any dose of ADACEL vaccine, the vaccine recipient and/or the parent or guardian must be asked about personal health history, including immunization history, current health status and any adverse event after previous immunizations. In persons who have a history of senico server reaction within 48 hours of a previous injection with a vaccine contraining similar components, administration of ADACEL vaccine must be carefully considered.
The ACIP has published guidelines for the immunization of immunocompromised individuals. (6) Immune responses to inactivated vaccines and tuscids when given to immunocompromised persons may be suboptimal. (1) The immune responses to ADACEL vaccine administered to immune of parent or guardian fue been feels and risks. The health-care provider should find the vaccine recipient and/or parent or guardian of the been

any seriods adverse reactions to their nearin-rate provider, retrieds of tomolecaning potential should be informed inta Avenus rasket inc. maintains a pregnaroy registry to monitor fetal outcomes of pergnant women exposed to ADACEL vaccine. If they are pregnant or become aware they were pregnant at the time of ADACEL vaccine immunization, they should contact their health-care profes-sional or Aventis Pasteur Inc. at 1-800-822-2463 (1-800-VACCINE). The health-care provider should provide the Vaccine Information Statements (VISS) that are required by the National Childhood Vaccine Injury Act of 1986 to be given with each immunization. The US Department of Health and Human Services has established a Vaccine Adverse Event Reporting System (VAERS) to accept all reports of suspected adverse events after the administration of any vaccine, including but not limited to the reporting of events required by the National Childhood Vaccine Injury Act of 1986. (7) The tol-Ifee number for VAERS forms and information is 1-800-822-2967 or visit the VAERS website at http://www.tda.gov/cber/vaers/vaers.htm.

Drug Interactions Immunosuppressive therapies, including irradiation, antimetabolites, alkylating agents, cytotoxic drugs and cor-ticosteroids (used in greater than physiologic doses), may reduce the immune response to vaccines. (See PRECAUTIONS, General.) For information regarding simultaneous administration with other vaccines refer to the ADVERSE REACTIONS and DOSAGE AND ADMINISTRATION sections.

Carcinogenesis, Mutagenesis, Impairment of Fertility No studies have been performed with ADACEL vaccine to evaluate carcino-genicity, mutagenic potential, or impairment of fertility.

genicity, mutagenic potential, or impairment of fertility. Pregnany Category C Animal reproduction studies have not been conducted with ADACEL vaccine. It is also not known whether ADACEL vaccine can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. ADACEL vac-cine should be given to a pregnant woman only if clearly needed. Animal fertility studies have not been conducted with ADACEL vaccine. The effect of ADACEL vaccine on embryo-fetal and pre-wearing development was evaluated in two developmental tory studies using pregnant rabbits. Animals were administered ADACEL vaccine twice prior to gestation, during the period of organogenesis (gestation day 6) and later during pregnancy on gestation day 29, 05 mL/rabbit/occasion (a1 7-fod increase com-pared to the human dose of ADACEL vaccine on a body weight basis), by intramuscular injection. No adverse effects on pregnan-tions, latation, embryo-fetal or pre-wearing development were observed. There were no vaccine related fetal malforma-tions or other evidence of teratogenesis noted in this study. (8) Pregnanzy Redity Health-cape provides are enorugated to register pregnant women who receive ADACEL vaccine in Aventis

tors or order evidence or treatogenesis noted in this study. (8) Pregnancy Registry Health-care providers are encouraged to register pregnant women who receive ADACEL vaccine in Aventis Pasteur Inc: s vaccination pregnancy registry by calling 1-800-822-2463 (1-800-VACCINE). Nursing Mothers It is not known whether ADACEL vaccine is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when ADACEL vaccine is given to a nursing woman. Pediatric Use ADACEL vaccine is not indicated for individuals less than 11 years of age. (See INDICATIONS AND USAGE) For immu-nization of persons 6 weeks through 6 years of age against dipthteria, tetanus and pertussis, a Dipthteria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed (DTaP) may be used, unless otherwise contraindicated.

Genatric Use ADACEL vaccine is not indicated for individuals 65 years of age and older. No data are available regarding the safe ty and effectiveness of ADACEL vaccine in individuals 65 years of age and older as clinical studies of ADACEL vaccine did not includ subjects in the genatric population.

Subjects in the genatic population. ADVERSE REACTIONS The safety of ADACEL vaccine was evaluated in 4 clinical studies. A total of 5,841 individuals 11-64 years of age inclusive (3,393 adolescents 11-17 years of age and 2,448 adults 18-64 years) received a single booster dose of ADACEL vaccine. The principal safety study was a randomized, observer blind, active controlled trial that enrolled participants 11-17 years of age (ADACEL vaccine N = 1,184; Td vaccine N = 792) and 18-64 years of age (ADACEL vaccine N = 1,752; Td vaccine N = 573). Study

Product information as of June 2005 MKT10383

Manufactured by: Aventis Pasteur Limited Toronto Ontario Canada participants had not received tetanus or diphtheria containing vaccines within the previous 5 years. Observer blind design, ie, study per-sonnel collecting the safety data differed from personnel administering the vaccines, was used due to different vaccine packaging (ADA-CEL vaccine supplied in single dose vials; Td vaccine supplied in multi-dose vials). Solicited local and systemic reactions were monitored daily for 14 days post-vaccination using a diary card. Participants were monitored for 28 days for adverse events which were not specif-ically queried on the diary card, is unsolicited adverse events. In dor 6 monts post-vaccination for visits to an emergency room, unex-pected visits to an office physician, hospitalization and serious adverse events. Unsolicited adverse event information was obtained via a coripted telphone interview vo at an interim chine visit. Information regarding adverse events that occurred in the 6 month post-vaccination time period was obtained via a coripted telphone interview. Approximately 96% of participants completed the 6-month follow-up evaluation. In the concomitant vaccination study with ADACEL and Hepatitis B vaccines, local and systemic adverse events were mon-itored daily for 14 days post vaccination using a diary card. Local adverse events were only monitored at stel/arm of ADACEL vaccine administration. Unsolicted reactions (including immediate reactions, serious adverse events and events that elicited seeking medical attention) were collected at a diric visit or via telephone interview. Mpatent inactivated Influerza vaccines (see Clinical Studies for descrip-tion of study design and number of participants), local and systemic adverse events were monitored for 14 days post vaccination using a diary card. All unsolicted reactions socuring through day 14 were collected. From day 14 to the end of the trial, is, up to 84 days, adverse reaction rates observed in the clinical trias of a vaccine cannot be directly compared to rates in the dirical triak of another vac-c

basis for identifying the adverse events that appear to be related to vaccine use and for approximating rates of those events. Serious Adverse Events in All Safety Studies Throughout the 6-month follow-up period in the principal safety study, serious adverse events were reported in 1.5% of ADACEL vaccine recipients and 1.4% in Td vaccine recipients. Two serious adverse events in adults were neuropathic events that occurred within 28 days of ADACEL vaccine administration; one severe migraine with unilateral facial paralysis and one diagnosis of new compression in neck and left arm. Similar or lower rates of serious adverse events were reported in the other trials and there were no additional neuropathic events reported.

In the other trials and there were no additional neuropathic events reported. Solicited Adverse Events in the Principal Safety Study The frequency of selected solicited adverse events (erythema, swelling, pain and fever) occurring during Days 0-14 following one dose of ADACEL vaccine or Td vaccine were reported at a similar frequency in both groups. Few participants (<1%) sought medical attention for these reactions. Pain at the injection site was the most common adverse reaction occurring in 62-78% of all vaccines. In addition, overall rates of pain were higher in adolescent barter trobjents of ADA-CEL vaccine compared to Td vaccine reorigents. Rates of moderate and severe pain in adolescent bail not significantly differ for adults. Fever of 38°C and higher was uncommon, although in the ado-lescent age group, it occurred significantly differ for adults. Fever of 38°C and higher was uncommon, although in the ado-lescent age group, it occurred significantly more frequently in ADACEL vaccine eropients than Td vaccine reorigents. (8) The rates of other local and systemic solicited reactions occurred a similar rates in ADACEL vaccine accine and Td vaccine reorigents. (8) The rates of other local and systemic solicited reactions occurred a similar rates in ADACEL vaccine and in uscine reorigents. (8) The rates of vaccination period. Most local reactions occurred within the first 3 days after vaccination (with a mean duration of less than 3 days). Headache was the most frequent systemic reaction and was usually of mild to moderate intensity. Adverse Events in the Concomitant Vaccine Studies Adverse Events in the Concomitant Vaccine Studies

Adverse Events in the Concomitant Vaccine Studies Local and Systemic Reactions when Given with Hepatitis B Vaccine. The rates reported for fever and injection site pain (at the ADA-CEL vaccine administration site) were similar when ADACEL and Hep B vaccines were given concurrently or separately. However, the rates of injection site erythema (23.4% for concomitant vaccination and 21.4% for separate administration) and welling (23.9% for concomitant vaccination and 17.9% for separate administration) and the ADACEL vaccine administration site were increased when co-administered. Swollen and/or sore joints were reported by 22.5% for concomitant vaccination and 17.9% for separate administra-tion. The rates of generalized body aches in the individuals who reported swollen and/or sore joints were 86.7% for concomitant vac-cination and 72.2% for separate administration. Most joint complaints were mild in intensity with a mean duration of 1.8 days. The incidence of other solicited and unsolicited adverse events were not different between the 2 study groups. (8)

Chalon and 7.2.2 is the solicited and unsolicited diverse events were not different between the 2 study groups. (8) Local and Systemic Reactions when Given with Trivalent Inactivated Influenza Vaccine The rates of fever and injection site erythe-ma and swelling were similar for recipients of concurrent and separate administration of ADACEL vaccine and TV. However, pain at the ADACEL vaccine injections is be courred at statistically higher rates following concurrent administration (66.6%). Versus separate administration (60.8%). The rates of sore and/or swollen joints were 13% for concurrent administration and 9% for separate admin-istration. Most joint complaints were mild in intensity with a mean duration of 2.0 days. The incidence of other solicited and unso-licited adverse events were similar between the 2 study groups. (8) Additional Studies An additional 1,806 adolescents received ADACEL vaccine as part of the lot consistency study used to support ADACEL vaccine licensure. This study was a randomized, double-blind, multi-center trial designed to assess to consistency as meas-ured by the safety and immunogenicity of 3 lots of ADACEL vaccine when given as a booster dove to adolescents 11.7 years of age inclusive. Local and systemic adverse events were monitored for 14 days post vaccination using a diary card. Unsolicited adverse events and serious adverse events were collected for 28 days post vaccination. Pain was the most frequently reported systemic event occurring in approximately 90% of all subjects. Headache was the most frequently reported systemic event occurring in approximately 90% of las ubjects. Sore and/or swollen joints were reported by approximately 90% of all subjects. Sore and/or swollen joints were reported by approximately 90% of all subjects. Sore and/or swollen intervents were controls. Within these clinical triak, the rates of local and systemic reactions following ADACEL vaccine were similar to those reported in the four principal triak in the taxes of the alaw of an in

rates reported in the rour principal mas. (a) **Postmarketing Reports** In addition to the data from clinical trials, the following adverse events have spontaneously been reported dur-ing the commercial use of ADACEL vaccine in other countries. These adverse events have been very rarely reported (<0.01%), how-ever, incidence rates cannot precisely be calculated. The reported rate is based on the number of adverse event reports per estimat-ed number of vaccinated patients. Ceneral disorders and administration site conditions: injection site bruising, sterile abscess; skin and the thereare the use development we utilities the second s

even indexice traces index precess of calculated. In the political trace books of the interface of the polity of the adverse events for the National Vacine Injury Compensation Program, established by the National Childhood Vaccine Injury Act of 1986, requires physicians and other health-care providers who administer vaccines to maintain permanent vaccination records of the manufacturer and lot number of the vaccine administered in the vaccine recipient's permanent medical record along with the date of administration of the vaccine and the name, address and title of the person administering the vaccine. The Act further requires the health-care providers who administer vaccines to maintain permanent vaccination records of the manufacturer and lot number of the vaccine administered in the person administering the vaccine. The Act further requires the health-care professional to report to the US Department of Health and Human Services the occurrence following immunization of any event set forth in the Vaccine Injury Table. These includes and title of 10 and 10

DoSAGE AND ADMINISTRATION ADACEL vaccine should be administered as a single injection of one dose (0.5 mL by the intra-muscular route. SHAKE THE VIAL WELL to distribute the suspension uniformly before withdrawing the 0.5 mL dose for administra-tion. Five years should have elapsed since the recipient's last dose of tetanus toxoid, diphtheria toxoid and/or pertussis containing vac-cine. For individuals planning to travel to developing countries, a one-time booster dose of ADACEL vaccine may be considered if more than 5 years has lapsed since receipt of the previous dose of diphtheria toxoids, tetanus toxoids or pertussis-containing vaccine. Do NOT administer this product intravenously or subcutaneously.

STORAGE Store between 2° - 8°C (35° - 46°F). DO NOT FREEZE. Discard product if exposed to freezing. Do not use

after expiration date. **REFERENCES 1**. CDC. General recommendations on immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP) and the American Academy of Family Physicians (AAFP). MMWR 2002;51(RR-2):1-35. **2**. CDC. Pertussis vaccina-tion: Use of acellular pertussis vaccines among infants and young children. Recommendations of the ACIP. MMWR 1997;46(RR-7):1-25. **3**. CDC Update. Vaccine side effects, adverse reactions, contraindications and precautions - recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1996;45(RR-12):1-35. **4**. CDC. Update on adult immunization re-ommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1991;40(RR-12):1-52. **5**. CDC. Diphtheria, tetarus and pertussis: recommendations for vaccine use and other preventive measures. Recommendations of the Immunization Practices Advisory Committee (ACIP). MMWR 1991;40(RR-10):-28. **6**. CDC. Use of vaccines and immune globulins persons with altered immunocompetence. Recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1993;42(RR-4):-18. **7**. CDC. Current trends - Vaccine Adverse Event Reporting System (VAERS) United States. MMWR 1993;42(RR-4):-18. **7**. CDC. Current trends - CDC. Current trends - national vaccine injury act: requirements for permanent vaccination records and for reporting of selected events after vaccination. MMWR 1988;37(13):197-200. **10**. FDA. New reporting requirements for vaccine adverse events. FDA Drug Bull 1988;18(2):16-8.

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it. Corporate America is adopting the concept of pay for performance before the details are worked out, and the details have to be worked out by physicians."

But physicians have reservations about the pay-for-performance concept. Dr. John Nelson, an American Medical Association trustee and panelist at the AACE meeting, said Medicare's pay-for-performance program would be a great opportunity for physicians to serve patients, but only "if it improves quality, if it's voluntary, and if the data are accurate, clinically meaningful. and relevant.'

However, another panelist had other ideas. Twila J. Brase, president of the Citizens' Council on Health Care, a St. Paul, Minn., group that advocates competition in health care, said that pay for performance was based on what she called the "faulty premise" of evidence-based medicine. While the original idea behind evidencebased medicine was good, "it is being perverted to allow rationing of care," she said. Because of its insistence on having all physicians practice in the same way, "evidencebased medicine will make every doctor a managed care doctor. It will lead to budgetbased care, not customized care.

Rather than participating in pay-for-performance programs, Ms. Brase urged doctors to stop participating in Medicare and private insurance programs and instead have patients pay cash for each visit. She called Medicare and private insurance "the real culprits" in the health care cost spiral.

"Evidence-based medicine isn't about evidence. It's not even about science. It's about control. It's meant to centralize power and control outside the exam room, and if you let pay for performance and evidence-based medicine become the standard way that you do business, the only way you'll make a decent dollar working at your profession is to follow the directives of people who don't know what they're talking about," she said to loud applause.

Dr. Haywood seemed taken aback by Ms. Brase's comments. "This is the first time I've ever been on a panel where someone advocated the abolishment of Medicare and Medicaid," he said. "It's a shock to me.'

But he agreed with Ms. Brase that consumers need more information to make better health care choices. "I think we're moving more toward consumers having more decision-making capacity. ... I do believe we're going to be providing information to consumers so that they can make some of those decisions, and hopefully that leads to better quality."

One audience member wanted to know how CMS would deal with patients who, for one reason or another, don't meet the outcome goals. "How will CMS deal with ... that 10% of the population who, come hell or high water, will never have a [hemoglobin]  $A_{1c}$  of 6.5%, for a variety of reasons?" she said.

Dr. Haywood said that physician input would be helpful in trying to answer that question. Meanwhile, CMS is considering the idea that "some patients automatically are going to get excluded-excluded for noncompliance or excluded because from the standpoint of that clinician."