CLINICAL CAPSULES

Prolapse Hinders Quality of Life

Advanced pelvic organ prolapse negatively affects body image and quality of life, Dr. Erik Jelovsek reported at the annual meeting of the American Urogynecologic Society.

In a case-control study with 47 case patients and 51 controls, a validated body image scale showed that case patients were less likely to feel physically attractive (adjusted odds ratio 11.3), sexually attractive (adjusted OR 4.8), and feminine (adjusted OR 4.0), than controls, said Dr. Jelovsek, of the Cleveland Clinic Foundation.

Although body image has been shown to be important in quality of life and the effect of advanced organ prolapse on body image might seem obvious, no one has specifically assessed this or the relationship between body image and quality of life in these patients, he noted.

These findings indicate that there is indeed a condition-specific decrease in quality of life among women with advanced pelvic organ prolapse and suggest that women seeking treatment for this condition might also be seeking an improvement in body image and quality of life.

Digital Mammography Best for Some

A large, head-to-head comparison of digital and film mammography found no overall difference in diagnostic accuracy, but digital mammography seems to have better diagnostic accuracy in some subgroups.

Digital mammography was significantly more accurate among women under age 50, women with heterogeneously dense or extremely dense breasts, and premenopausal or perimenopausal women, Dr. Etta D. Pisano of the University of North Carolina at Chapel Hill and col-

The study included data from 42,760

women for whom the investigators had all relevant information (N. Engl. J. Med. 2005;353:[Epub ahead of print] doi10.1056/ nejmoa052911, www.nejm.org).

All women underwent digital and film mammography, independently interpreted by two readers. Readers rated the mammograms on a 7-point malignancy scale and used the classification of the Breast Imaging Reporting and Data System.

Biopsy or aspiration of the suspicious lesion was performed if either reader recommended it. These patients received follow-up mammograms a mean of 455 days following their initial screening. A total of 335 cancers were detected.

Results indicated no advantage in the accuracy of digital mammography for women 50 and older, women with fatty breasts or scattered fibroglandular densities, or postmenopausal women.

But there were other advantages to digital: easier access to images and to computer-assisted diagnosis; improved image transmission, storage, and retrieval; and a lower average dose of radiation without compromised diagnostic accuracy.

Digital mammography costs up to four times more than film imaging.

Deformities Rare in Osteopenia

Moderate to severe vertebral compression deformities are rare in postmenopausal women with osteopenia but no history of fragility fracture, Dr. Angela M. Cheung reported in a poster session at the annual meeting of the International Society for Clinical Densitometry.

In what she said is the first study to describe the prevalence of such deformities in healthy postmenopausal women with osteopenia, Dr. Cheung and her associates conducted a cross-sectional analysis of 439 women in the ongoing 2-year Evaluation of the Clinical Use of Vitamin K Supplementation in Postmenopausal Women with Osteopenia (ECKO) trial.

Of the 48 deformities detected in the study, 45 (94%) were grade 1.

"How does that mild, grade 1 vertebral compression deformity translate to future fracture risk?" Dr. Cheung, osteoporosis program director for University Health Network, Toronto, said. "We'll take a look at that. It's an ongoing study.'

Exclusion criteria included being on an osteoporosis medication, having a clinical fragility fracture, or having a T score of less than -2.0 at the lumbar spine, total hip, or femoral neck. Densitometry was used to measure bone mineral density and to perform a vertebral fracture assessment.

Mean patient age at baseline was 58 years (range 40-82 years), and mean body mass index was 26 kg/m². The majority of women (88%) were white.

Dr. Cheung said she and her colleagues were surprised to see vertebral compression deformities in women from all age groups. "While we do see a higher percentage of [older] people [with] vertebral compression deformities, we see it in young people, too," she said.

Study limitations were a cross-sectional design and a lack of lateral spine x-rays for comparison.

However, vertebral fracture assessment "has been validated by different groups, and the performance of the test is excellent for grades 2-4 deformities.

-From staff reports

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

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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 prophylaxis in wound management. ADACEL vaccine is not indicated for the treatment of 8 pertussis, C diphtheriae or C tetani infections. As with any vaccine, ADACEL vaccine may not protect 100% of vaccinated individuals.

ADACLE 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 to vaccination with ADACEL vaccine. Because of uncertainty as to which component of the vaccine may be responsible, additional vaccinations 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 network containing vaccine; (1).

allergist for evaluation in tinue immunations as a second of any perfussion containing vaccine; (1)

• Encephalopathy not attributable to another identifiable cause within 7 days of administration of a previous dose.

• Progressive neurological disorder, uncontrolled epilepsy, or progressive encephalopathy. Perfussis 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)

AUACLE Vaccine is not contraindicated for use in individuals with HIV intection. (1)

WARNINGS Because intramuscular injection can cause injection site hematoma, ADACEL vaccine should not be given to persons with any bleeding disorder, such as hemophilia or thrombocytopenia, or to persons on anticoagulant therapy unless the potential benefits clearly outweigh the risk of administration. If the decision is made to administer ADACEL vaccine in 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 pertursis component, the decision to give ADACEL vaccine should be based on careful consideration of the potential benefits and possible risks: (2) (3)

*Temperature of B40.5°C (105°F) within 48 hours not due to another identifiable cause;

*Collapse or shock-like state (hypotonic-hyporesponsive enioned) within 48 hours:

• Temperature of B40.5°C (105°F) within 48 hours not due to another identifiable cause;

• Collapse or shock-like state (hypotonic-hyporesporsive episode) within 48 hours;

• Persistent, inconsolable crying lasting, B8 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 hypersensitivity reactions (e.g., severe local reactions 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-containing vaccines more frequently than every 10 years, even if the wound is neither clean nor minor. (4) (5) If Cullian-Barré Syndrome occurred within 6 weeks of receipt of prior vaccine containing tetanus toxoid, the decision to give subsequent doses of ADACEL vaccine or any vaccine containing tetanus toxoid should be based on careful consideration of the potential benefits and possible risks. (1) The decision to administer a perusic portaining vaccine to individuals with stable central nervous system (CNS) disorders must be made by the health-arimister a perusic portaining vaccine to individuals with stable central nervous system (CNS) disorders must be made by the health-are provider on an individual basis, with consideration of all relevant factors and assessment of potential risks and benefits for that individual. The ACIP has issued guidelines for immunizing such individuals. (2) A family history of seizures or other CNS disorders is not a contraindication to pertussive vaccine. (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.

issued guidelines for immunizing such individuals. (2) A family history of seizures or other CNS disorders is not a contraindication to pertussis vaccine. (2) The ACIP has published guidelines for vaccination of persons with recent or acute illness. (1) PRECAUTIONS General Do not administer by intrivascular injection: ensure that the needle does not penetrate a blood vessel. ADACEL vaccine should not be administered into the buttocks nor by the intrademal route, 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 vaccine should be evaluated. Epinephine Hydrochloride Solution (1:1,000) and other appropriate agents and equipment should be available for immediate use in case an anaphylactic or acute hypersensitivity reaction occurs. Prior to administration of any dose of ADACEL 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 serious or severe reaction within 48 hours of a previous injection with a vaccine containing similar components, administration of ADACEL vaccine must be carefully ososidered. The ACIP has published guidelines for the immunization of immunocompromised persons of ADACEL vaccine administered to immunocompromised persons may be suboptimal. (1) The immune responses to inactivated vaccines and the vaccine recipient and/or parent or guardian of the benefits and risks. The health-care provider should inform the vaccine recipient and/or parent or guardian about the potential for adverse reactions to their health-care provider should inform the vaccine recipient and/or parent or guardian about the potential for adverse reactions that have been temporally associated with ADACEL vaccine or other vaccines containing simi

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

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Pregnancy 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 vaccine 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-weaning development was evaluated in two developmental toxify 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, 0.5 ml/rabbit/cocasion (a 17-fold increase compared to the human dose of ADACEL vaccine on a body weight basis), by intransuscular injection. No adverse effects on pregnancy, parturition, lactation, embryo-fetal or pre-weaning development were observed. There were no vaccine related fetal malformations or other evidence of teratogenesis noted in this study. (8)

Pregnancy Registry Health.care providers are enquized to register pregnant women who receive ADACEL vaccine in Aventis

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 immunization of persons 6 weeks through 6 years of age against diphtheria, tetanus and pertussis, a Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed (DTaP) may be used, unless otherwise contraindicated.

Geriatric 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 include quibertie in the consister conduction.

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 (3,939 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

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leagues reported.

participants had not received tetanus or diphtheria containing vaccines within the previous 5 years. Observer blind design, ie, study personnel collecting the safety data differed from personnel administering the vaccines, was used due to different vaccine garkaging (ADE-Le vaccine supplied in single dose vials). Tot vaccine supplied in multi-dose vials). Solicited local and systemic reactions were monitored daily for 14 days post-vaccination using a clary card. Participants were monitored for 28 days for adverse events on which were not specifically queried on the clary card, is, unsolicited adverse events, and for 6 months post-vaccination for visits to an emergency room, unexpected visits to an office physician, hospitalization and serious adverse events that occurred in fromation was obtained either by telephone interview or at an interim clinic visit. Information regarding adverse events that occurred in the 6 month post-vaccination time period was obtained via a scripted telephone interview. Approximately 96% of participants completed the 6-month follow-up evaluation. In the concomitant vaccination suiting a diary card. Local adverse events were only monitored at site/arm of ADACEL vaccine administration. Unsolicited reactions (including immediate reactions, serious adverse events and events that elicited seeking medical attention) were collected at a clinic visit or via telephone interview for the duration of the trial, ie, up to six months post-vaccination in the concomitant vaccination study with ADACEL vaccine and trivalent inactivated influenza vaccines (see Clinical Studies for description of study design and number of participants), local and systemic adverse events were monitored of 14 days post vaccination using a diary card. All unsolicited reactions occurring through day 14 were collected. From day 14 to the end of the trial, ie, up to 84 days, only events that elicited seeking medical attention were collected. Because clinical trials are conducted under widely varying conditions, adverse react

were recordance events that occurries that occurred in the control and one diagnosis of nerve 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.

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 artes or pain were higher in adolescent recipients of ADACEL vaccine compared to Td vaccine recipients fastes of moderate and severe pain in adolescents did not significantly differ for adults. Fever of 38°C and higher was uncommon, although in the adolescent age group, it occurred significantly more frequently in ADACEL vaccine recipients than Td vaccine recipients. (8) The rates of other local and systemic solicited reactions occurred at similar rates in ADACEL vaccine and Td vaccine recipients. (8) The rates of other local and systemic solicited reactions occurred at similar rates in ADACEL vaccine and Td vaccine recipients. In the 3 day post-vaccination period. Most local reactions occurred within the first 3 days after vaccination (with a mean duration of less than 3 days).

Adverse Events in the Concomitant Vaccine Studies

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Local and Systemic Reactions when Given with Hepatitis B Vaccine The rates reported for fever and injection site pain (at the ADACEL vaccine administration site) were similar when ADACEL and Hep B vaccines were given concurrently or separately. However, the rates of injection site environment of the concomitant vaccination and 21.4% for separate administration) and swelling (23.9% for concomitant vaccination and 17.9% for separate administration) and swelling (23.9% for concomitant vaccination and 17.9% for separate administration is the were reported by 22.5% for concomitant vaccination and 17.9% for separate administration to its were reported by 22.5% for concomitant vaccination and 17.9% 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)

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Local and Systemic Reactions when Given with Trivalent Inactivated Influenza Vaccine The rates of fever and injection site eythem and swelling were similar for recipients of concurrent and separate administration of ADACEL vaccine and TIV. However, pain at the ADACEL vaccine injection site occurred 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 administration. Most joint complaints were mild in intensity with a mean duration of 2.0 days. The incidence of other solicited and unsolicited 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 lot consistency as measured by the safety and immunogenicity of 3 lots of ADACEL vaccine when given as a booster dose to adolescents 11-17 years of age inclusive. Local and systemic adverse events were monitored for 14 days post vaccination using a diary card. Unsolicited adverse event and serious adverse events were collected for 28 days post vaccination. Pain was the most frequently reported local adverse event occurring in approximately 80% of all subjects. See and/or swollen joints were reported by approximately 14% of participants. Most joint complaints were mild in intensity with a mean duration of 2.0 days. (8) An additional 962 adolescents and adults received ADACEL vaccine in three supportive Canadian studies used as the basis for icensure in other countries. Within these clinical trials, the rates of local and systemic reactions following ADACEL vaccine were emilian to those reported in the four principal trials in the four principal trials. (8)

Postmarket

er rate (86%) of adults experiencing 'any' local injection site pain. The rate of severe pain (0.8%), however, was comparable to the rates reported in the four principal trials (8)

Postmarketing Reports In addition to the data from clinical trials, the following adverse events have been very rarely reported (<0.01%), however, incidence rates cannot precisely be calculated. The reported rate is based on the number of adverse event exported reported rate is desired in number of vaccinated patients. General disorders and administration site conditions: injection site brusing, sterile abscess, skin and subcutaneous tissue disorders: pruntus, uritaraia.

Reporting of Adverse Events: The National Vaccine 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 recipients permanent medical record along with the date of administration of the vaccine and the name, addites and title of 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 include anaphylaxis or anaphylactic shock within 7 along, brachial neurits within 28 days, an acute complication or sequelae (including death) of an illness, disability, injury, or condition referred to above, or any events that would contraindicate further doses of vaccine, according to this ADACEL vaccine package inset, 70 (10) The US Department of Health and Human Services has established the Vaccine Adverse Event Reporting System (VAERS) to accept all reports of suspected adverse events after the administration of any vaccine. Reporting of all adverse events occurring after vaccine administration is sencouraged from VAERS through a toll-free number 1-800-822-796

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 VAIL 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

after expiration date.

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