# Prostate Cancer Prognosis Favorable in PSA Era

#### BY SHERRY BOSCHERT San Francisco Bureau

SAN FRANCISCO — Men diagnosed with prostate cancer in the era of prostatespecific antigen screening and treated with radical prostatectomy are unlikely to die of the disease, even if they have adverse risk factors, a review of 6,398 patients found.

The patients were treated between 1987 and 2005, and had a 15-year risk of dying of prostate cancer of 12%. Their 15-year all-cause mortality rate was 38%, Dr. Andrew J. Stephenson reported at a symposium on genitourinary cancers.

The retrospective study was described as the first to assess disease-specific mortality risk in the era of prostate-specific antigen (PSA) screening.

The favorable prognosis may be a result of the effectiveness of prostatectomy or could reflect a lower degree of lethality in most screen-detected prostate cancers, said Dr. Stephenson of the Cleveland Clinic

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Foundation, and his associates. Before the PSA era, 15%-20% of patients treated with radical prostatectomy died of prostate cancer within the 10-15 years after treatment, population-based studies showed.

"This is important information for patients and physicians to consider when deciding upon treatment options for localized prostate cancer," he said. "Even patients [with] an extremely low probability of cure based on a PSA criterion [PSA recurrence] still have an excellent chance of being alive

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cearly outweights the risk. ADACEL vaccine is not contrainedicated 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 early outweight herisk of administration. If the decision is made to administer 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 early outweight herisk of administration. If the decision is made to administer ADACEL vaccine is such persons. Its should be given the decision to give ADACEL vaccine should be based on careful consideration of the potential benefits and possible risks (2)(3) • Temperature of x40.5°C (105°F) within 48 hours; • Seatures with oxich less state (hypotic-typopersoprise) episode) within 48 hours; • Seatures with or without fever coursent savoide by series should be given. Persons who experienced Arthus-type hypersen-stisty reactions (seate or without dipertuss) vaccine. [14 vaccine should be given. Persons who experienced Arthus-type hypersen-stisty metations (seate or without here coursent) within 54 ags. When a decision is made to withhold pertussis vaccine. [14 vaccine should be given. Persons who experienced Arthus-type hypersen-stisty reactions (searce containing tetama toxid), the decision to give ADACEL vaccine or any vaccine containing tetama toxid, the decision to give ADACEL vaccine or any vaccine containing tetama toxido, should be based on careful consideration of the potential benefits and possible risks. (11 He devision to administer a pervlusion containing tetama toxid), the decision to give ADACEL vaccine or any vaccine containing tetama toxid, the decision to give ADACEL vaccine or any vaccine containing tetama toxido. The devision to give ADACEL vaccine or any

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Needles should not be recapped but should be disposed of according to biotharaard waste guidelines. Information for Vaccine Recipients and/or Parent or Guardian Before administration of ADACEL vaccine, health-care providers should inform the vaccine recipient and/or parent or guardian to the benefits and risks. The health-care providers should inform the vaccine recipient mation parent or guardian to the benefits and risks. The health-care providers should inform the vaccine containing similar components. The vaccine recipient and/or parent or guardian should be instructed to report any serious adverse reactions to their health-care provider. Fernales of thildbearing potential should be informed that 2 snot Pasteur Inc. maintains a pregnancy registry to monitor fetal outcomes of pregnant 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 providers should and their health-care provider. Fernales of thildbearing potential should be informed that 2 snot Pasteur Inc. maintains a pregnancy registry to monitor fetal outcomes of pregnant 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 provider should provide the Vaccine information statements (ViSs) that are required by the National Childhood Vaccine Java 4 of 1986 to be reporting of events required by the National Childhood Vaccine Java vaccine, indiverse Event Reporting System (VAERS) to accept all reports of suspected advective Java 4 of 1986. to part expires forms and information is 1-800-822-7967 or visit the VAERS weste at http://www.fda.gov/cber/vaers/vaces.htm Dug Interactions Immunosuppressive therapies, including irradiation, antimetabolites, allyvlatine agents. cytotoxic drues and

I was user your was user varies weaking an upp/ NWW.008.gov/CREV/V485V485SNITM Dong Interactions Immunosuppressive therapies, including irradiation, antimetabolites, alkylating agents, cytotoxic drugs and controsteroids (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.

Centeral: J For imformation regarding simultaneous administration with oner vaccines refer to the AUVENCE KEALTIONS and DOSACE AND DONNINSTRATION sections. Carcinogeneis, Mutagenesis, Impairment of Fertility. No studies have been performed with ADACEL vaccine to evaluate carcinogeneis, Mutagenesis, Impairment of Fertility. No studies have been performed with ADACEL vaccine to evaluate carcinogeneis, Mutagenesis, Impairment of Fertility. No studies have been performed with ADACEL vaccine to evaluate carcinogeneis, Mutagenesis, Impairment of Fertility. To evaluate the studies have not been conducted with ADACEL vaccine. It is also not known whether ADACEL vaccine. The effect of ADACEL vaccine on embryo-fetal and pre-weaning development was evaluated in two developmental toxicity studies using preparant tables. Annias were administered ADACEL vaccine brief to the Adverse fetters on of organogenesis (gestation day 6) and late during pregnancy on gestation day 29, 05 mL/rabbit/occasion (a17-iodi Increase compared to the human dose of ADACEL vaccine to a body weight basis), by intramuscui mijection. No adverse effects on pregnancy, partuition, lactation, embryo-fetal or pre-weaning development were observed. There were no vaccine related fetal mailformations or other evidence of trategenesis noted in this study (8) Pregnancy Registry Health-care provides are encouraged to register pregnant women who receive ADACEL vaccine in Sanofi Pasteur Inc's vaccination pregnancy registry by calling 1=600-822-2463 (1+600-VACCINE). Nursing Mothers is to relown whether ADACEL vaccine is secreted in human milk. Because many drugs are excreted in human inc's vaccination pregnancy registry by calling 1=600-822-2463 (1+600-VACCINE).

Inc. 3 vacunation pregnativity registry or calling 1=800-822-2466 (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 refer to manufacturers' padage inserts for DIAP vaccines.

Insers for UTar vacuues. Genatic Use ADACEL vacute is not indicated for individuals 65 years of age and older. No data are available regarding the safety and effectiveness of ADACEL vacute in individuals 65 years of age and older as clinical studies of ADACEL vaccute did not indude

and effectiveness of ADACEL vaccine in individuals 65 years of age and older as clinical studies of ADACEL vaccine did not include subjects in the geniatic 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 addiscents 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 = 1,792; Td vaccine N = 573). Study participants had not received tetanus or dipithteria containing vaccines within the previous 5 years. Observer blind design, ie, study

## Product information as of January 2006

Manufactured by: Sanofi Pasteur Limited Toronto Ontario Canada MKT14427

personnel collecting the safety data differed from personnel administering the vaccines, was used due to different vaccine packaging (ADACEL vaccine supplied in single dose viak; Td vaccine supplied in multi-dose viak). Solicited local and systemic reactions and unsolited events were monitored daily for 14 days post-vaccination using a diary card. From days 14-28 post-vaccination, information on averse events necessiting a netical contract, such as a telephone call, vist to a nemegreny conor, physician's office or hospitalizations, was obtained via telephone interview or at an interim dirit vikit. From days 28 to 6 months post-vaccination, participants' were monitored for unexpected visits to a physician's office or to an energeny conor, proven, orsex of zerous lines and hospitalizations. Information negaring adverse events that occurred in the 6 month post-vaccination ture period was obtained via a scriptet telephone interview. Approximately 95% of participants' completed telephone relavised in the concomitant vaccination using a dary card. Local adverse events were only monitored at site/arm of ADACEL vaccine administration. Unsolidet reactors including immediate reactors, serious adverse events bate entity the clicked seeking medical attention were collected at a dirit viat or via telephone interview. Approxemental vaccination and systemic adverse events were monitored for revisus adverse events bate collected in the takings, subjects were monitored for serious adverse events that elected seeking medical attention were collected. In the concomitant vaccination using a dary card. Al unsolited reactors occuring through day 14 were collected. In the values, subjects were monitored for serious adverse events that algore the clicked subjects were monitored for serious adverse events in adjust were monitored for a subject of the duration of the study. Because dinical triats and constituted witable days, ord events that clicked seeking true events. Second in the durat takit of a vaccine enclotes in the throid stab

(8) Headache waš thë möst frequent systèmic neacion and vais susjaly of mild to moderate intensity. Local and systemic solicited 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 of given administration site were increased when co-administration. The rates of given adjust administration. Net rates of other solicited and unsolicited adverse events were not different between the 2 study groups. (8)
Local and Systemic Reactions when Given with Thinelut Inactivated Influenza Vaccine The rates of fiver and injection site eynthma and sweling were similar for eropients of concurrent and separate administration of 64654), versus sparate administration. Mol Join dise cound at a statistically higher rates following connormet administration and 9% for sparate administration. Mol Join dise addisecents received ADACEL vaccine and the ADACEL vaccine index of the solicited and unsolicited adverse events were similar between the 2 study groups. (8)
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Provide start at 2 too C (25 to 4 or ), BO NOT NECED bislaw product in explose to including both not dealed REFERENCES 1. Centers for Disease Control and Prevention (CDC). General recommendations on immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP) and the American Academy of Family Physicians (AAPP). MMUWR 2002;51(RR-2):1-35. 2. CDC. Pertussis vaccination: use of areallular pertussis vaccines among infants and young children. Recommendations of the ACIP. MMWWR 1997;4(RR-1):1-25. 3. CDC Update. Vaccine idea fetcs, adverse reactions, contraind-cations and precautions - recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR 1996;458, (RR-12):1-35. CDC. Update on adult immunization: recommendations of the ACIP. MMWR 1994;40(RR-12)-1-25. 5. CDC. Diphtheria, tetanus and pertussis: recommendations for vaccine use and other preventive measures. Recommendations of the ACIP. MMWR 1991;40(RR-10):1-28. G. CDC. Luse of vaccines and immune globulins in persons with altered immuncompetence. Recommendations of the ACIP. MMWR 1993;42(RR-1):1-8. 7. CDC. Current tends - Vaccine Adverse Event Reporting System (VAERS) United States. MMWR 1993;34(RR-1):7-83. 3. Data on file at Sanoli Pasteur Limited. 9. CDC. Current tends - national vaccine injury at requirements for permanent vaccination records and for perpending selected events after vaccination. MMWR 1998;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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15 years after radical prostatectomy."

Only 13% of patients had a greater than 5% risk of dying of prostate cancer within 15 years. Among patients treated since 1998, only 3% had a greater than 5% risk of prostate-specific mortality, he reported.

Risk of dying of prostate cancer ranged from 5% to 37% for patients in the lowest and highest quartiles of risk for a PSA-defined recurrence as predicted by a nomogram that was developed by the investigators and was based on five clinical characteristics, with predictions adjusted for the year of surgery.

The 6,398 patients were in a prediction modeling cohort; all had been treated by radical prostatectomy at Memorial Sloan-Kettering Cancer Center, New York, or at Baylor College of Medicine, Houston, during 1987-2005. The investigators also performed external validation of the modeling



Even patients with a low probability of cure have an excellent chance of being alive 15 years after radical prostatectomy.

**DR. STEPHENSON** 

by applying it to retrospective data on 4,103 patients treated by radical prostatectomy at the Cleveland Clinic during 1989-2005.

In the modeling cohort, 2% of patients died of prostate cancer and 5% died of competing causes. In the validation cohort, 2% died of prostate cancer and 6% died of competing causes. The median follow-up in both cohorts was 48 months.

The predicted risk closely matched observed outcomes. Factors that were significantly associated with prostate-specific mortality included the biopsy Gleason grade, preoperative PSA level, clinical stage, use of neoadjuvant androgen deprivation therapy, and year of surgery.

Surgery in more recent years was associated with improvements in survival until 1998, after which the favorable impact leveled off. PSA velocity and body mass index were not associated with the risk of dying of prostate cancer.

The investigators looked further at survival by risk stratification in 9,481 patients with data using the D'Amico criteria. These criteria for assessing the risk of PSA recurrence after treatment of prostate cancer were described by Dr. Anthony V. D'Amico of Harvard Medical School, Boston (JAMA 1998;280:969-74).

Dr. Stephenson reported the 19% of patients classified as high risk comprised 79% of cancer deaths (and all cancer deaths since 1998). The 15-year risk of dying of prostate cancer in this high-risk subgroup was 19%, compared with a 31% risk of dying from competing causes. The 15-year prostate-specific mortality rate was 10% in patients classified as having intermediate risk of recurrence by D'Amico criteria, and 2% in patients with a good risk profile. The American Society of Clinical Oncology, American Society for Therapeutic Radiology and Oncology, and Society of Urologic Oncology sponsored the symposium.