Scientists patent new substances to fight oral bacteria

Titanium-based materials shown to be effective against endodontic, periodontic and cariogenic bacteria

Researchers at the University of Washington’s School of Dentistry have received a patent for a method of using titanium-based materials to control bacterial infections. They believe that the substances could be used in a patient’s mouth after dental procedures to reduce the risk of infection or in mouthwashes and toothpastes to limit bacterial growth prophylactically.

For several years, the researchers have studied titanates and peroxotitanates, inorganic compounds that can inhibit bacterial growth when bound to metal ions. The researchers found these substances to be effective against endodontic, periodontic and cariogenic bacteria, indicating that the substances could be incorporated into gels or solutions that can be applied by dentists after treatments such as root canals or dental fillings.

Dr. Whasun Oh Chung, research associate professor at the school, explained that metals have been known to have antibacterial properties, but when used in concentrations high enough to be effective, they also carry the risk of toxic side effects. By using the new agent, however, therapeutic benefits can be achieved with less risk of toxicity.

The researchers are now conducting human trials. They expect to finish those in spring. If proven effective, the new agent could even be used in narrowly targeted treatments for internal organs, as well as in dental or medical materials and devices, Chung said.

(Source: University of Washington’s School of Dentistry)
Dental spending stays flat

Dental care spending remained flat through 2012 over the prior year, in part because working-age adults are visiting dentists less frequently, with fewer people covered by employer-sponsored dental benefits, according to a new analysis released by the American Dental Association.

The research, conducted by the ADA Health Policy Resources Center, shows that additional factors in the spending patterns include improvements in oral health, the erosion of benefits provided by state Medicaid programs and fee reductions among many private insurers.

National dental care expenditure reached $111 billion in 2012, roughly the same as the previous year when adjusted for inflation. When population growth is taken into account, dental spending has been flat since 2008. The analysis covers three years of post-Great Recession recovery — suggesting that dental spending is not rebounding.

Overall U.S. health spending during the past four years has grown at the slowest rate ever recorded in the 53-year history of the National Health Expenditure Accounts, reflecting the lagged effects of the recent economic recession. Dental spending, however, began to slow in the early 2000s before the onset of the recession.

The elderly continue to be the age group with the highest level of dental spending, driven primarily by gains in private dental benefits and higher demand for care.

Read the full research brief at www.ada.org/sections/professionalresources/pdfs/IPRC_Brief_2014_1pdf.pdf

The ADA has advocated for the public’s health and promoted the art and science of dentistry since 1859. Its research facilities develop and test dental products and materials that have advanced the practice of dentistry and made the patient experience more positive. The Journal of the American Dental Association is the ADA’s flagship publication and one of the most-read scientific journals in dentistry.

For more information about the ADA, visit www.ada.org. For more information on oral health, including prevention, care and treatment of dental disease, visit the ADA’s consumer website www.mouthhealth.org.
Dentistry jobs take two top-10 slots on magazine’s list of 100 best jobs

U.S. News releases annual ranking

By Robert Selleck, Managing Editor

"Dentist" and "hygienist" are again in the top 10 jobs on the U.S. News & World Report annual ranking of the top 100 jobs in the country, with "dentist" at No. 3 (down from its top ranking last year) and "hygienist" at No. 10 (same as last year).

The median salaries the magazine listed for each of the two dental professions both slightly increased compared with last year, rising to $141,240 from $141,230 for dentists and to $70,210 from $69,280 for hygienists.

The top two jobs that knocked "dentist" down two pegs were both technology positions: No. 1, software developer, was No. 7 last year, and No. 2, computer systems analyst, was No. 4 last year. According to the magazine, this is the first time its top pick was a technology job.

The magazine ranks jobs based on criteria it considers to be most important to job seekers: 10-year growth volume, 10-year growth percentage, median salary, employment rate, future job prospects, stress level and work-life balance.

Various sub-lists rank jobs across a number of industry sectors. Among the "best health care jobs," dentist is No. 1 and dental hygienist is No. 7.

The magazine noted that according to the U.S. Bureau of Labor Statistics, the source for most of the criteria measured to create the list, existing health care workers need to be retained, but more are also needed — especially to fill growing numbers of health care support jobs.

"Here’s how the magazine summed up the dentistry profession. ‘The need for professionals to examine our teeth, fill and — gulp — refill our cavities isn’t fading. Patients also have a particular interest in cosmetic treatments from dentists, such as teeth whitening, and this also drives demand. The Bureau of Labor Statistics predicts employment growth of nearly 16 percent between 2012 and 2022, with more than 23,000 new openings. A comfortable salary, low unemployment rate and agreeable work-life balance boost dentists to the No. 3 position on our list of Best Jobs of 2014.’

Despite losing the top two slots to tech jobs, health care jobs still dominated the overall rankings. Seven of the top 10 jobs were from the health care sector. For the second year, market research analyst was the No. 1 business job; school psychologist was the No. 7 social services job and public relations specialist was the No. 1 creative job.

Among the 18 jobs appearing on the list for the first time in 2014 were nurse practitioner, information security analyst, mail technician and structural iron and steelworker.

“In this economy, it’s important to look for a job that offers long-term growth and stability,” said Jada A. Graves, senior career editor for U.S. News. “The Best Jobs of 2014 were developed to help job-seekers identify occupations within an industry that most suit their needs and talents — and also offer a good salary and opportunity for advancement.”

In addition to the rankings and data, the report describes each job and includes commentary from people in the profession.

Other related content looks in more detail at topics such as “High-Paying Jobs on the Rise,” “What it Takes to Land the Hottest Tech Jobs of 2014” and “Top Jobs for Work-Life Balance.” There also is analysis of earnings based on geographic area and in comparison with other jobs in the same industry sector, Unemployment statistics also are listed.

The complete U.S. News report can be seen at www.money.usnews.com/careers/best-jobs/rankings.

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"The LVV Can is a program that was designed to help all patients achieve the highest level of function and healthy teeth in the shortest amount of time. Before using the LVV Can, patients will be asked to perform a self-examination of their teeth and gums. The LVV Can is a specially designed canister that is used to measure the effectiveness of the treatment. The patient will be asked to rinse their mouth with the LVV Can and then follow the instructions on the label. The LVV Can is an excellent tool for patients who are looking for a painless and effective way to improve their oral health.

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