CompletedProjects

proposed training capitalizes on strengths of the School of Dental Medicine's restructured curriculum, including evidencebased principles, critical thinking, and innovative early clinical experiences. The program is partnering the school of Medicine to include an established Master's degree program in clinical research that has been hig successful in training health professionals and K12 scholars, and will include collaborations among participating faculty in CWRU's NHM nded Clinical and Translational Science Center (CTSC).

The trainees will engage in five years of training, withear off between third and fourth DMD years for graduate research training. The specific aims of the training are to accomplish: (1) a biological, behavioral, and environme approach to investigating oral health problems in diverse populations; (2) in inter-and multidisciplinary teams that promote the dental scholar as an integral part of the health care team; (3) provision of leadership skills to communicate and disseminate research findings at both the local and national levels. Traineedewigh a structured and rigorous Master's in Clinical Research that consists of core didactic curriculum, research rotation and thesis, and oral health seminar series. Additional training activities include research retreats, seminars, and participationin local and national meetings. This training grant will provide one year of support to 15 dual degree trainees over the five year grant period, admitting three trainees each year for five years. This training is critical developing the next generation dentist scholars who are capable of conducting independent innovative clinical research to solve complex oral health problems that can result in early translation of findings to relevant populations, and to address the national shortage in dentists wing academic research careers.

Xylitol

This randomized controlled clinical trial addresses the prevention of dental caries (tooth decay) **initionse**hool children using xylitecontaining snacks. Dental caries disproportionately affect poor and **inityind** hildren with a significant proportion of treatment costs borne by Medicaid. The current best practices of oral health education, tooth brushing, topical fluorides and dental sealants have a more limited impact in children with the highest tooth decayrates than in children with lower rates; the newest research shows that an antimicrobial agent is required. Thus, addressing disparities, improving child health (MCH strategic research issue #II and #IV), and reducing carates (Healthy People 2010)ækey public health objectives. Xylitol is safe, FDA approved effective preventive agent, but poorly utilized in the U.S.

The goal of this study is to establish the use of an antimicrobial agent, delivered via xylitol gummy bear snacks a school, to redue the caries rates in the permanent teeth of children from kindergarten to second grade. This age

Dental Association's program, Operation T.A.C.T.I.C., which stands for Teens Against Chewing Tobacco in the Community. The curriculum focuses on the negativesequences of ST use, understanding nicotine addiction, reading the advertising messages that make tobacco use look attractive, and practicing how to say no to offers In addition, the curriculum describes how to perform a sedam to look for mouths and provides takeome information on resources for quitting ST use. The chool curriculum is augmented with a paretatgeted brochure about ST use and a follow evaluation survey to be completed by parents.

The health risks associated withet use of smokeless tobacco (ST) products such as dip, oral snuff and chewing tobacco are oral lesions (normancerous mouth sores), oral cancer, dental caries, periodontal disease and nicotine addiction. The use of ST by young people in Ohio is of integeasincern. The initial use of these products is reported to be in the preadolescent years, ages-102, so that education and prevention messages need to be communicated early to assist young people in making healthy decisions about the use of these substances. The purpose of this research study is to develop schood education modules that address issues of knowledge, attitude, and social norms regarding the use of smokeless tobacco. Analyses of theory results are underway.

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