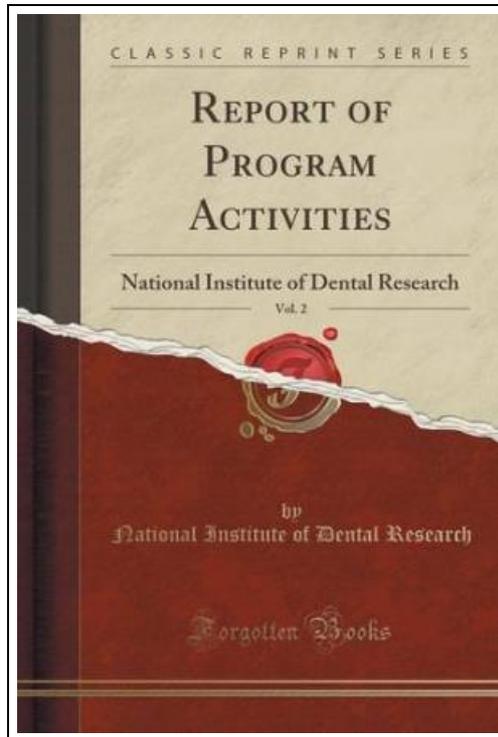


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Report of Program Activities, Vol. 2: National Institute of Dental Research Noteworthy advances were made during the year in all four Strategy Areas of the National Caries Program: I: Combat the Microbial Agent II: Increase Tooth Resistance III: Alter Harmful Properties of the Diet IV: Improve Delivery and Acceptance of Caries Prevention Methods. A grantee had reported that human volunteers vaccinated with killed cells of *Streptococcus mutans* via the gastric route had increased salivary antibody titers against this organism. NCP scientists repeated this experiment and confirmed that antibody levels increased in both serum and saliva following three vaccinations, per os. Thus the principle of oral immunization against dental caries, previously established in laboratory animals, appears feasible in humans also. Analysis of final pre-clinical data from tests of a slow release device for intra-oral administration of fluoride showed that fluoride release rates in dogs were remarkably stable, at about 1 mg F per day. over an eight month period. Acute and chronic toxicity evaluation of the device has shown no contraindications for human use, and Phase I clinical trials have begun. It is anticipated that successful development of this slow release system could substantially decrease the cost of delivery of fluoride and other cariostatic agents. A major program effort was directed toward the development of a valid, reproducible regimen to screen common food items for their cariogenic potential. For practical and ethical reasons, such assessments cannot be made by long-term human trials. The NCP system involves preliminary assessment of the tendency of a food to produce acids from fermentation by oral microorganisms. This is determined by monitoring plaque pH levels in vivo using intra-oral telemetry. A...



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