Summary of research project ideas provided by the first 1,056 Dental PBRN dentists on question 27 of the enrollment questionnaire

40% of respondents provided at least one idea for a research project or research area

general restorative dentistry issues (n = 190)

long-term effectiveness of dental adhesive and bonding usage in private practice effectiveness of CAD-CAM and CEREC restorations in different clinical situations relative effectiveness of different dental laser treatments

failure rate and other aspects of long-term effectiveness of root canal treatment

differences in long-term failure rates of endodontic treatment based on pre-treatment dental clinical status of patient

differences in long-term failure rates of endodontic treatment based on pre-treatment systemic health status of patient

long-term failure rate of full crown restorations

failure rates of dental implants placed outside of teaching institutions

comparative effectiveness of different implant systems

effectiveness of oral sedation versus use of nitrous oxide

differences in effectiveness of porcelain vs. acrylic denture teeth

optimum post design to prevent roots from fracturing

effectiveness of traditional vs. rotary endodontic techniques

effectiveness of methods to prevent and treat tooth sensitivity

preventive dentistry issues (n = 137)

caries incidence rates across all age groups among patients seen in private practice most effective methods to prevent root caries in older adults among patients seen in private practice

effectiveness of fluoride varnishes on preventing caries

% of dental patients regularly receiving oral soft tissue examinations and its implications on cancer detection rates

why some patients choose dental extraction over preventive dentistry

how to best motivate patients to improve oral care at home

prevention of early childhood caries

effect of vitamins and supplements on oral health

benefits of re-mineralization strategies to treat incipient carious lesions vs. early restorative intervention

effectiveness of sealants among different patient types

effectiveness of different sealant materials on preventing dental caries

optimum methods to encourage tobacco cessation in patients

optimum and most cost-effective methods to improve patient preventive awareness and 'dental IQ' effect of increased soft drink consumption on caries and dental erosion among dental patients

effectiveness of dental care on overall on patients' quality of life

optimum case presentation and communication techniques with patients

demand for dental care and access to care issues (n = 128)

dentists/population and dental manpower projections

% children seeking dental care

access to care for low-income population

comfort level of general dentists performing specialty procedures

% of dentists doing free or 'charity' care

how the insurance industry affects the standard of care and quality of care

optimum means to deliver care in nursing homes

how to make organized dentistry more effective in promoting and protecting dental practice trends in expansion of the role of dental practice into other health care arenas

business aspects of dental practice and efficiency of practice issues (n = 70)

prevalence of insured vs. uninsured patients among patients in private practice

effects of managed care vs. fee-for-service on services delivered

effect of practice income on whether dentist accepts 3rd party payments

yearly maximum per patient allowed by insurance companies has changed very little in the past decades; methods to influence this

how large is the shortage of dental auxiliaries?

prevalence of referral patterns to specialists by general dentists

educational and compensation issues for dental hygienists

periodontal conditions (n = 54)

effectiveness of bone grafting and periodontal re-attachment techniques

effects of crowns and veneers on periodontal condition

effectiveness of aloe vera and other medicaments in treating or preventing postoperative osteitis methods to improve wound healing

effect of restorative dentistry methods on periodontal condition

amalgams and composites (n = 53)

prevalence of amalgam and composite usage in private practice

differences in longevity and tooth fracture rates associated with amalgam vs. composite restorations

safety of mercury in amalgam

which amalgam and composite materials have the best effectiveness and longevity prevalence of usage of composites in primary teeth by dentists in private practice

safety of dental office (n = 19)

incidence of problems due to water line sepsis

prevalence of infection control procedures in private practice and infection rates due to dental procedures

prevalence of substance abuse among dentists

prevalence of quackery in dentistry and unethical treatment

safety of various sedation techniques in private practice

safety of dental laser treatments

diagnostic methods (n = 17)

effectiveness and feasibility of digital radiography

effectiveness of various caries diagnostic methods in private practice

usefulness of electronic dental record and automated recording on long-term patient oral health in private practices

is an electronic office really more efficient and less costly in the long-run than a paper office?

whitening (n = 15)

long-term effects of different methods of tooth whitening on teeth and pulp trends in demand for cosmetic procedures among patients in private practice optimum patient education techniques about cosmetic procedures

malocclusion (n = 12)

effect of un-treated malocclusion on tooth wear and periodontal health

effectiveness of early orthodontic intervention

long-term effects of extracting 1st molars in 12-30 year old age group

differences in long-term effects of treating or not treating certain malocclusions

long-term benefits of extracting 3rd molars