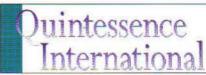


INDIAN PROSTHODONTIC SOCIETY CONFERENCE

23rd - 25th

NOVEMBER-2001 RAMOJI FILM CITY, HYDERABAD



- Official Publication

Highlights of the conference

Trade fair: A masive trade fair of 80 stalls will be in place during the conference, where it is expected that several new products will be on display and demonstration. Table clinics: On conference days, Table clinics will be held by professionals. Computer displays, Technical Manuals, Posters, Models etc will be displayed to give the first hand experience. Theme Dinners: Exciting theme dinners have been organised, on 23rd night at Sun City, where the ambience will instantly transport you to a totally different world. About the venue: The 400 year old charismatic Hyderabad has a lot to offer. The Golkonda Fort, The Charminar. The Salarjung Museum, The Monolith Buddha Statue in the tranquil lake of Hussain Sagar and the new IT landmark Hi-Tech city are just a few of the many favourite tourist spots. One can shop in the Lad bazar for bangles or look for quality Pearls or take a trip to the near-by Pochampally village to buy Pochampally sarees. The chosen venue for the in-house conference is the picturesque Ramoji film City — the most lavish & exclusive destination, and probably one of the finest in the world.

Keynote and Guest lectures

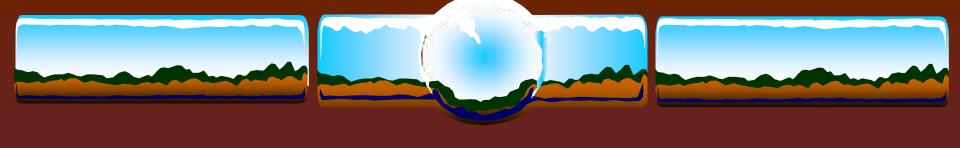
- Dr. Raj K Raja Rayan, Dean of Royal college of Surgeons, London Subject: Fixed Partial Dentures a Modality of Treatment
- Dr. Zafrulla Khan, Head of James Graham Brown Cancer Center; Louisville Subject: Role of Maxillofacial Prosthodontist in New Millennium
- Dr. Asbjorn Jokstad, Faculty, University of Oslo Subject: Cost, Benefit Analysis in Prosthodontics.
- Dr. EGR Solomon, Founder member of IPS Senior Teacher; Madras Subject: Complete Denture Harmony
- Dr. Chandrasekharn Nair, Head of the Department, Ambedkar Dental College Bangalore
 - Subject: Maxillofacial Prosthetics, Stress Management
 - Dr. Firdaus S. Jafrei, Carol Stream IL.
 Subject: Full Mouth Rehabilitation Using Multiple Implant Modalities.
- Dr. Martin Steinbauer, Private Practice in Sonthofen Subject: Telescopic Crowns and Implant Possibilities
- Dr. Ajit G. Shetty, Bombay Subject : Laminates
- Dr. Dilip Deshpande, Former Prof & Head, Nair Dental College Bombay Subject: Implant Occlusion & Attachments in Removable Prosthesis
- Dr. Sadasiva Shetty, Dean, Bapuji Dental College; Davangere Subject: Prostho Ortho Relation
- 11. Dr. Maj, Gen. T. Ravindranath, New Delhi Subject : Implant Indian Perspective

- Dr. Swarajya Bharathi Sudhapalli, Faculty in KLE Dental College, Belgaum
 - Subject: Mandibular Flexure (Clinical Aspects)
- Dr. K. Balasubramanyam, Director NFTDC Hyderabad Subject: Indignization of Dental Materials
- 14. Dr. Sabita Ram, Faculty in Govt. Dental College Bombay Subject: Impression Techniques in Removable Prosthetics
- Dr. Suhasini J Nagda, Head of Prosthodontics, Nair Dental College Bombay Subject: Soft Lined Dentures
- 16. Dr. Suresh Meshram, Head of the Dept. Govt Dental College Bombay Subject: Partial Denture Design
- 17 Dr. Mahesh Verma, Head of Dental wing MAMC New Delhi Subject: Denture Bases and Advances
- 18 Dr. Milind Karmarkar, Bombay Subject: Hybrid Prosthesis
- Dr. Shavir S. Nooryezdan, Implantologist, Bombay Subject: Creating the ultimate aesthetics in the single tooth implant restoration
- Dr. Kiran Kelkar Bombay, Subject: Harmony between Lab & Clinical Practice
- 21. Dr. Faber Cologne
 Subject: Galvano Formed Copings

8 pre conference courses on 21st and 22nd November 2001 will be held at National Institute of Health and Family Welfare Vengal Rao Nagar and Hotel Green Park, Hyderabad.

- . Hinge axis registration and transfer and Gothic arch tracing and role of articlulators in Prosthodontics; Course conducted by Dr. Raj K. Raja Rayan and Dr. E.G.R. Solomon.
- 2. Maxillofacial Prosthesis Silastic materials in Maxillofacial prosthetics: conducted by Dr. Zafrulla Khan
- 3. Clinical and laboratory procedures for ceramic laminate veneers. Conducted by Dr. T.V. Padmanabhan and Mr. Sameer
- 4. Prosthetic protocol of implant transitional implants: Course conducted by Dr. Martin Stienbauer and Ajit Shetty
- 5. Galvano formed copings: conducted by Dr. Faber and Andreas Hubben
 - Hands on course on Metal free ceramics : conducted by Andreas Hubben
- 7. Hands on course on Geo waxing technique : conducted by Mr. Michael Hemmer
- 8. Implant loading and management of integrated implants: Course conducted by Dr. Firdaus S. Jafri and Mrs. Tracy Suart.

Conference Secretariat: Dr. K. Mahendranadh Reddy, The Dental Clinic, 36, Ground Floor, "Topaz", on amrutha Hills, 6-3-883, Punjagutta, Hyderabad - 500 082, Phone: Clinic 3411841, 3404140, Resi: 3402552, E-mail: mrkareti@eth.net



Scientific Evidence of Research in Oral Prosthetics

Asbjørn Jokstad Institute of Clinical Dentistry Faculty of Dentistry, University of Oslo Norway

Prosthetic Dentistry* The discipline of dentistry concerned with

the <u>consequences</u> of <u>congenital absence</u> or <u>acquired loss</u> of oral tissues

*Jokstad A, Ørstavik J, Ramstad T. A Definition of Prosthetic Dentistry. International J Prosthodontics 1998; 11:295-301.

Prosthetic Dentistry

The discipline of dentistry concerned with the consequences of congenital absence or acquired loss of oral tissues

on <u>appearance</u>, stomatognathic <u>function</u>, <u>comfort</u>, and <u>local and</u> <u>general health</u> of the patient

*Jokstad A, Ørstavik J, Ramstad T. A Definition of Prosthetic Dentistry. International J Prosthodontics 1998; 11:295-301.

Prosthetic Dentistry

The discipline of dentistry concerned with the consequences of congenital absence or acquired loss of oral tissues on appearance, stomatognathic function, comfort, and local and general health of the patient,

and with the <u>methods</u> for, and assessment if <u>more good than</u> harm is done by, inserting <u>artificial</u> devices made from <u>alloplastic</u> materials to change these conditions.





















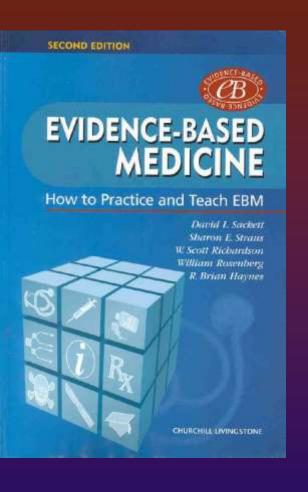












Evidence of doing more good than harm depends on adequate study design*

*Sackett DL, Strauss SE, Richardson WS, Rosenberg W, Haynes RB. Evidence-based Medicine. 2nd. edit. Churchill Livingstone, 2000.

1. Clinical findings:

How to properly gather the most relevant findings from the history and physical examination, and interpret these correctly?



2. Etiology:

How to identify causes for disease (including its iatrogenic forms)?



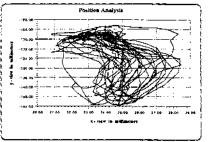
3. Differential diagnosis:

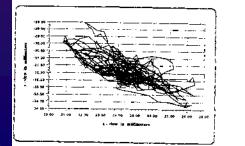
When considering the possible causes of a patient's clinical problem, how to rank them by likelihood, seriousness and treatability?

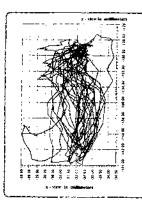
4. Diagnostic tests

How to select and interpret diagnostic tests, in order to confirm or exclude a diagnosis, based on considering precision, acceptability,









5. Prognosis:

How to estimate the patient's likely clinical course over time and anticipate likely complications?

6. Therapy:

How to select treatments to offer patients that do more good than harm and that are worth the efforts and costs of using them?





7. Prevention:

How to reduce the chance of disease by identifying and modifying risk factors and how do we diagnoses disease early by screening?

8. Self-improvement:

How to keep up to date, improve our clinical skills and run a better, more efficient clinical practice?





Critical Appraisal Criteria

Exists for studies focused on:

- therapy
- diagnosis
- screening
- harm
- prognosis
- causation of disease (etiology)
- quality of care
- economic analyses



Three general questions

- 1. Is the study valid?
- 2. What are the results?

3. Are the results relevant to my

question or problem?

1. Is the Study Valid?

- Is there a clear question?
- Is the most appropriate study design to answer the question used?
- Was the study conducted reliably?
- Can you follow what the authors did?

2. What are the results?

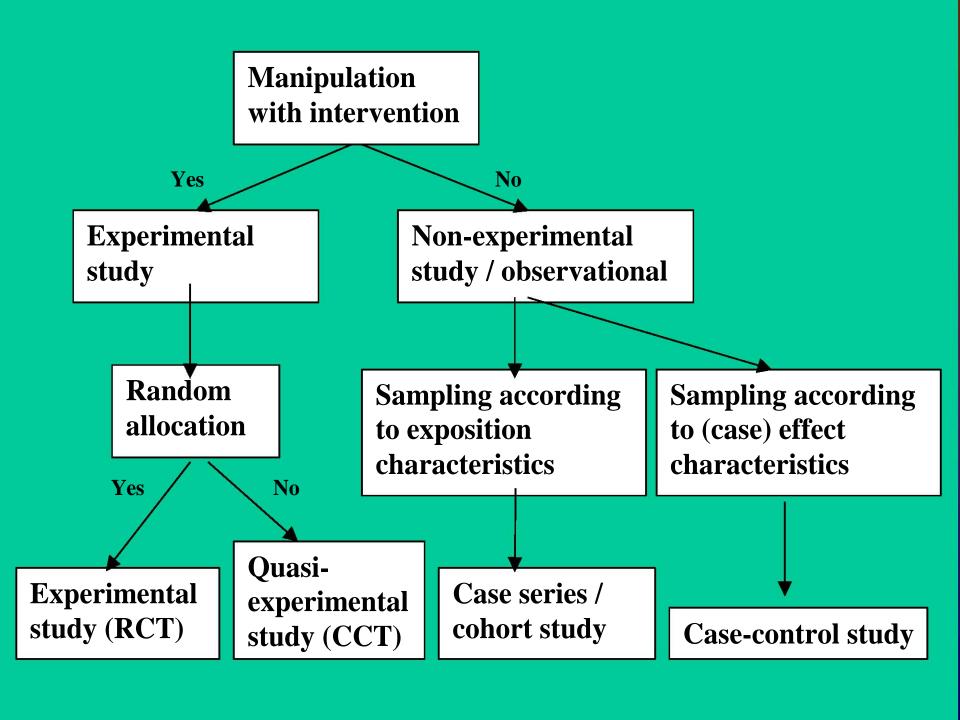
- Are the results presented in a clear and simple manner?
- ❖ Is there a clear bottom line?
- Are they clinically important?

3. Are the results relevant to my question or problem?

- Are the participants similar to my patients?
- Is it realistic for me to apply the study methodology and results to my patients?

Clinical trial terminology - tower of Bable?

analytical study ecological study prospective cohort study etiological study prospective follow-up study, case control study (89) experimental study observational or experimental case serie case study, case report explorative study prospective study (67) feasibility study (79) quasi-experimental study cause-effect study randomized clinical trial, RTC clinical trial (79) follow-up study (67) randomized controlled trial, RCT (89) cohort study (89) historical cohort study cohort study with historical incidence study retrospective cohort study controls retrospective follow-up study intervention study longitudinal study (79) controlled clinical trial (95) retrospective study (67) cross-sectional study (89) N=1 trial surveillance study descriptive study non-randomized trial with survey, descriptive survey diagnostic meta-analysis contemporaneous controls therapeutic meta-analysis non-randomized trial with trohoc study diagnostic study double blind randomized historical controls therapeutical trial with crossobservational study over design



Clinical study designs (MESH terms)

- · (Case study/series)
- · Case-Control Study
- Cohort Study
- Cross-Sectional Survey
- Randomised Controlled Trial (RCT)

How can the papers that have been published in refereed prosthodontic journals be characterised?





Critical appraisal of papers

- All papers published in <u>International Journal of Prosthodontics</u> (n=826) <u>Journal of Prosthodontics</u> (n=305)
- The studies categorised according to e.g. study design, description of clinical problem, prosthodontic subtopic
- Clinical studies additionally characterised by sample size and observation period
- All variables cross-tabulated for possible relationships

Study aims

I. Educational

Self improvement; teaching; skill improvement

II. Clinical problems

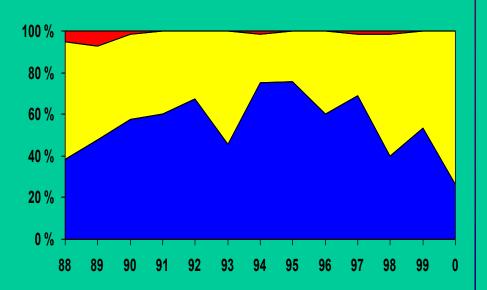
Therapy: process & outcomes; Prognosis

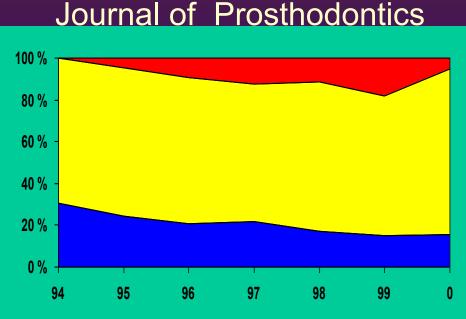
III. Basic sciences

Chemistry; physics; physical-chemical properties

Biomechanics; fit accuracy; wear; stress

International J Prosthodontics

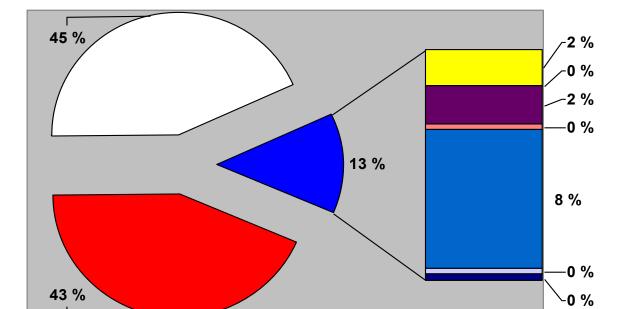




Study designs 20 % 8 % 5 % 24 % 4 % -2 % -2 % -1 % 56 % -2 %

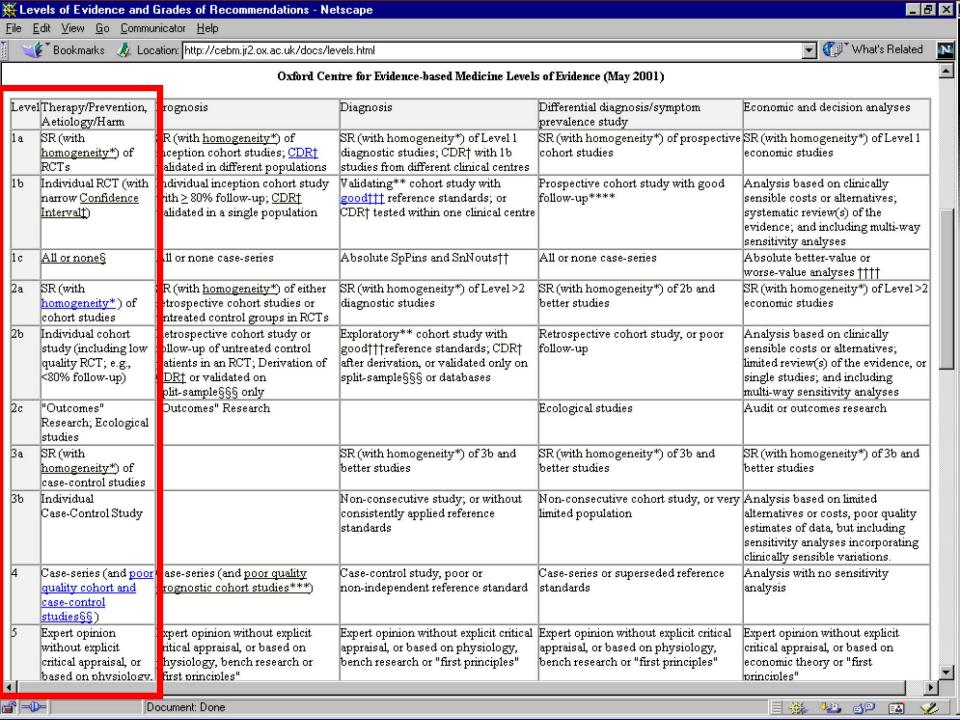


- **■** Laboratory
- □ Descriptive
- □ Cohort
- Experiment
- X-sectional
- **■** Case-series
- **■** Case report
- Case-control
- **RCT**

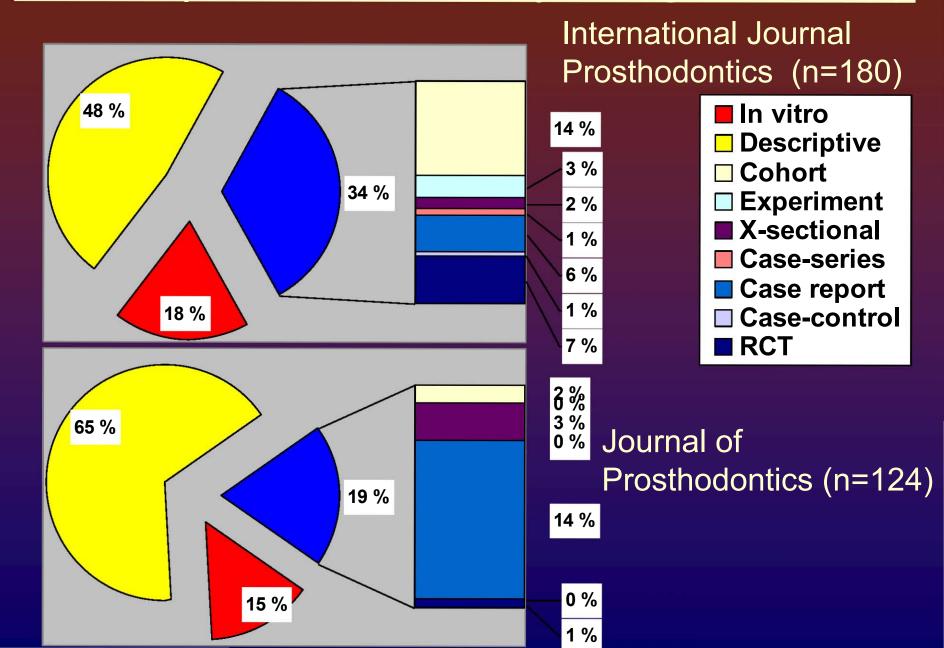


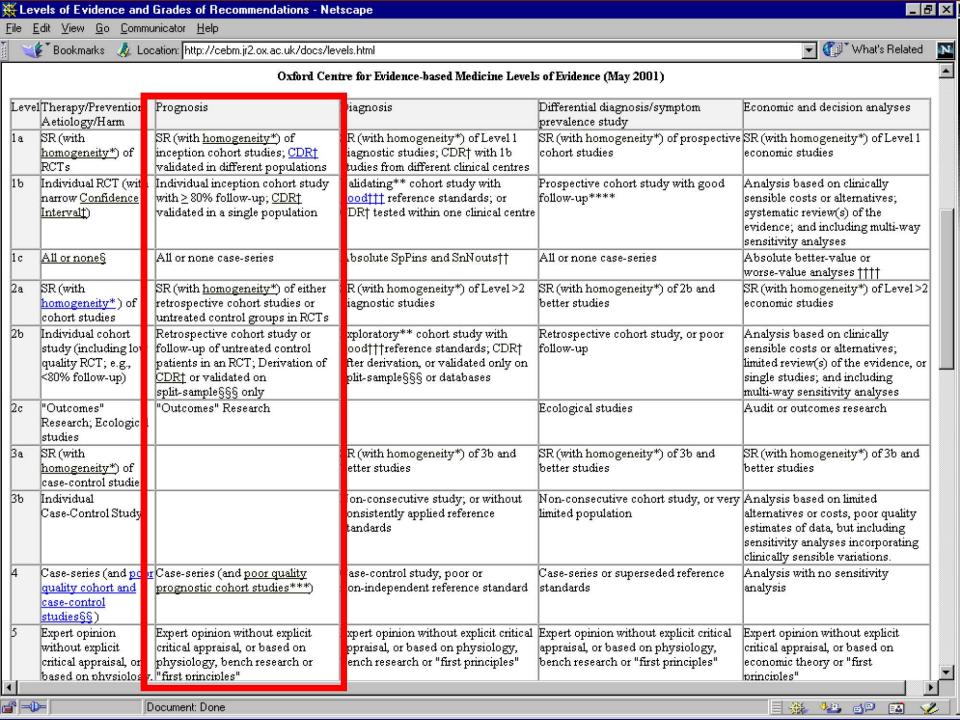
J Prosthodont

- 22 Case reports
- 6 Cohort studies
- 6 X-sectional studies
- 1 Case-control study
- 1 RCT

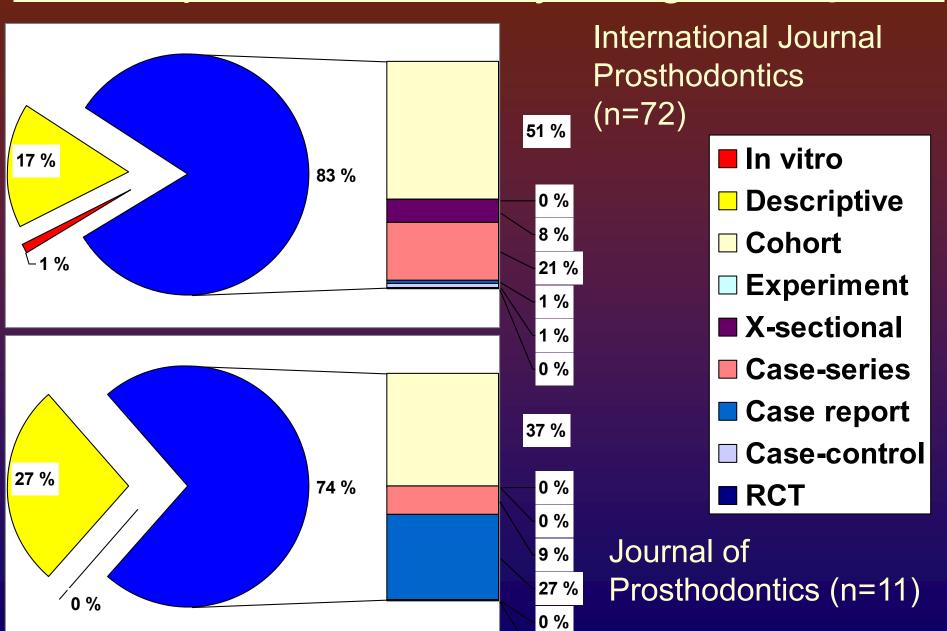


Clinical problem vs. study design - therapy





Clinical problem vs. study design - Prognosis



Clinical studies - design characteristics

	Number of cohorts			Observation period		Size	
	1	2	>2	span	average	span	average
Prospective	39	2	3	48 days -	4.7	4 -300	56
(n=52) (n=4)	3		1	25 years	years		
Retrospective	13	1	3	2 - 25	7.2	24 - 524	120
(n=23) (n=2)	1		1	years	years		
Case series	15	-	-	3 mths -	4.4	8- 344	88
(n=15) (n=1)				13 years	years		
RCT	-	7	3	14 days -	< 1 year	14-85	43
(n=10) (n=1)				4 years			

	Size	
	span	average
Cross-sectional	13- 1608	202
(n=32)(n=6)	24-1286	612
Experimental	1 -79	22
(n=41)(n=0)		
Case-control	8- 250	95
(n=10)(n=1)		

Conclusions



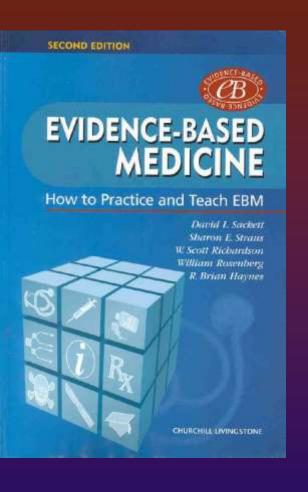


Many papers focus on:

- *basic research problems with little direct clinical relevance
- *clinical studies with poor evidence of therapeutic benefits of prosthodontic treatment

Few papers focus on:

- *comparative clinical studies
- *longitudinal clinical studies that validate treatment outcomes



Evidence of doing more good than harm depends on adequate study design*.

Therapy

*Sackett DL, Strauss SE, Richardson WS, Rosenberg W, Haynes RB. Evidence-based Medicine. 2nd. edit. Churchill Livingstone, 2000.

Strength of evidence of treatment effects

- CEBM, 2001. (http://cebm.jr2.ox.ac.uk/docs/levels.html)
- 1a. Systematic review of RCTs (with homogeneity of RCTs)
- 1b. Individual RCT (with narrow confidence interval)
- 2a. Systematic review (with homogeneity) of cohort studies
- 2b. Individual cohort study (and low quality RCT; e.g.,<80% follow-up)
- 3a. Systematic review (with homogeneity) of case-control studies
- 3b. Individual case-control study
- 4. Case-series (and poor quality cohort and case-control studies)
- 5. Expert opinion without explicit critical appraisal, or based on physiology, bench research or "first principles"

Differences in outcomes-single tooth loss?

- 1) Conventional fixed partial dentures versus etch-bridges?
- 2) Conventional fixed partial dentures versus crown supported by a single root formed implant?
- 3) Etch-bridge versus crown supported by a single root formed implant?
- 4) Identical crowns supported by root formed implants with different composition and/or surface design?

Differences in outcomes-multiple tooth loss?

- 1) Fixed partial dentures versus removable dentures?
- 2) Conventional fixed partial dentures versus etch-bridges?
- 3) Fixed partial dentures versus fixed partial dentures supported by implants?
- 4) Fixed partial dentures supported by implants and teeth and fixed partial dentures supported only by implants?
- 5) Identical prostheses supported by implants with different composition and/or surface design?

Differences in outcomes-edentulousness?

- 1) Identical prostheses supported by soft tissue versus soft tissue and remaining roots.
- 2) Identical prostheses supported by soft tissue versus implants.
- 3) Identical prostheses supported by two versus more than two implants.
- 4) Identical prostheses supported by soft tissue versus implants with non-root forms.
- 5) Identical prostheses supported by implants with different composition and/or surface design.
- 6) Removable versus fixed prostheses supported by implants.
- 7) Removable prostheses connected with implants using different prosthesis/internal fixation devices.
- 8) Fixed prostheses supported by implants depending on the number of root formed implants

Safety and effectiveness - implant prosthetics?

Implant surface

Self-tapping vs standard Rough vs smooth surface Titanium vs Hydroxyapatite

Implant surgery techniques

Guided bone regeneration

Maintenance regimes

Prosthesis type

Stress-breaker vs non-stress breaker

Splinted vs unsplinted connection

Implant-prosthesis connection

Fixed vs overdentures

Hybrid versus ball-attachment

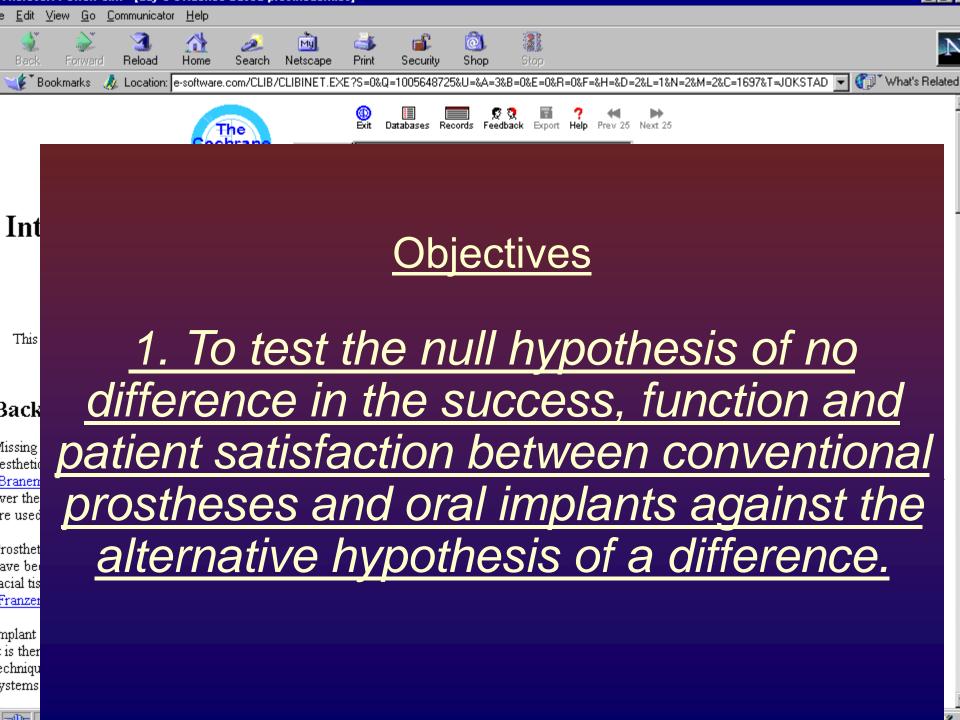
Different overdenture attachments

Laser-welded vs cast Ti-framework



Cochrane Collaboration

International organisation that aims to help people make well-informed decisions about healthcare by preparing, maintaining and promoting the accessibility of systematic reviews of the effects of health care interventions.



Endosseous Implants

Dentists have to choose from more than 1,300 implants*.

These vary in form, material, dimension, surface properties and interface geometry.



*Binon PP. Implants and components: entering the new millennium. Int J Oral Maxillofac Implants 2000;15:76-94

the alternative hypothesis of a difference.

Method of a Cochrane review - 1. Search for papers

- 1.Search of the Cochrane Oral Health Group specialist register (n > 12.000 papers), using key words (e.g. prosthesis, bridge, implant*). Additional handsearch of journals
- 2. Search for RCT trials in Medline
- 3. Search of the bibliographies of identified RCTs, reviews and personal references
- 4.Letters to first named authors of identified RCTs for further information about trials and attempts to identify unpublished studies

Method of a Cochrane review - 2. Initial data synthesis

- 1. Two reviewers work independently, and in duplicate.
- 2. The relevance of each potentially interesting article is appraised in a non-blinded fashion with regard to the types of intervention.
- 3. Recordings of article ownership, affiliation, year of publication and journal.
- 4. Identification of funding source (commercial, independent or unclear) clinical setting (university, non-university, unclear) study design (parallel, split-mouth or cross-over) and sample size.

Method of a Cochrane review - 3 Quality assessment

- 5. Quality assessment of RCTs trials with sample sizes:
 - > 10 for parallel trials
 - > 5 for split-mouth and cross-over studies
- A sensitivity analysis conducted if appropriate.



CONSORT STATEMENT

Improving the Quality of Reporting of Randomized Controlled Trials

Colin Begg, PhD; Mildred Cho, PhD; Susan Eastwood, ELS(D); Richard Horton, MB; David Moher, MSc; Ingram Olkin, PhD; Roy Pitkin, MD; Drummond Rennie, MD; Kenneth F. Schulz, PhD; David Simel, MD; Donna F. Stroup, PhD

PART 1: LANGUAGES AND PDF FORMATS

PART 2: INTRODUCTION

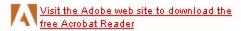
PART 3: CONSORT CHECKLIST PART 4: CONSORT FLOWCHART

PART 5: COMMENT PART 6: REFERENCES

TRANSLATIONS AND PDF FORMATS



- The Statement Text Section (13K)
- . The Statement Checklist (8 K)
- The Statement Flowchart (6 K)
- . The Statement Comments Section(10 K)
- . The Statement References List (14 K)

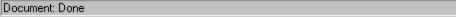


Foreign Language Translations of CONSORT:

- FRENCH
- GERMAN
- SPANISH
- JAPANESE (This site requires a browser configured for Japanese text)
- For hard copy versions of the CONSORT Statement in Dutch please contact us.

INTRODUCTION











- A) A sample size calculation undertaken?
- B) Adequate randomization and allocation concealment method?
- C) Inclusion/exclusion criteria clearly defined?
- D) Reasons for withdrawal specified by study group?
- E) Control and treatment groups comparable at entry for important prognostic factors?
- F) Any attempt at blinding (e.g. independent assessor)?
- G) Appropriate statistical analysis?

Quality Assessment of Randomized Controlled Trials of Oral Implants

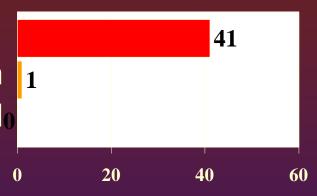
Marco Esposito, DDS, PhD/Paul Coulthard, BDS, MFGDP, MDS, FDSRCS, PhD/Helen V. Worthington, BSc, MSC, PhD, FIS/Asbjørn Jokstad, DDS, PhD

The aim of this study was to assess the quality of randomized controlled trials (RCTs) concerned with the effectiveness of oral implants and to create a trial register. A multi-layered search strategy was used to identify all RCTs published to the end of 1999 in any language. The Cochrane Oral Health Group specialist register, RubMed and personal libraries were searched. Seventy-four RCTs were identified. Forty: tre articles, not presenting the same patient material, were independently assessed by 3 researchers using a specifically designed form. A statistician assessed all trials for appropriateness of statistics. The quality of each study was assessed on 7 items including 3 key domains. Randomization and concealment allocation procedures were not described in 30 articles (70%). Reasons for withdrawals were not given in 10 (23%) reports. No attempt of blinding was reported in 31 studies (72%). The quality of RCTs of oral implants is poor and needs to be improved. INT 3 ORAL MAXILLOFAC IMPLANTS 2001;16:)

Key words: dental implants, randomized controlled trial, registries, research design, review literature

A) Was a sample size calculation undertaken?

0 No/not mentioned 1 Yes, but not confirmed by calculation 2 Yes, confirmed₀



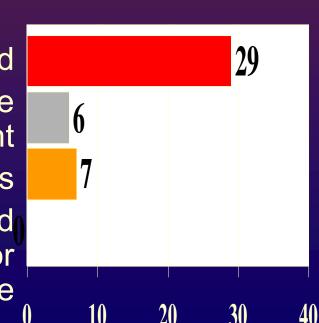
B) Randomization and allocation concealment method

0 Not described

1 Clearly inadequate - transparent before assignment

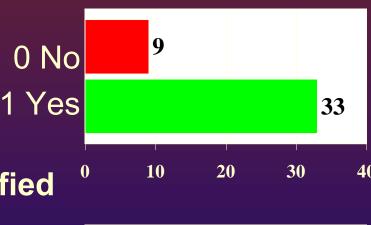
2 Possibly adequate-sealed envelopes

3 Clearly adequate- centralized randomization and third party contact for group code



- A) Was a sample size calculation undertaken?
- B) Randomization and allocation concealment method

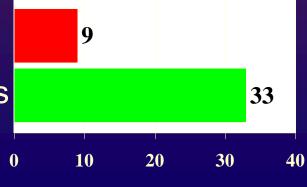
C) Were inclusion/exclusion criteria clearly defined?



D) Was reason for withdrawal specified by study group?

0 No/not mentioned

1 Yes, or not applicable as no withdrawals

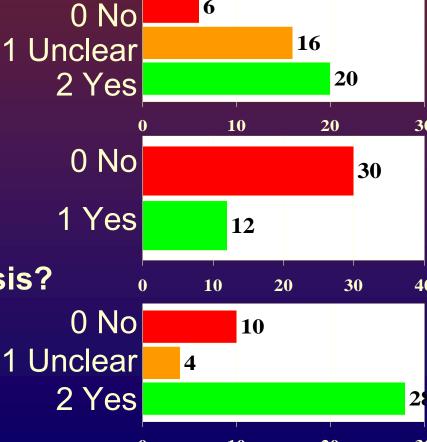


- A) Was a sample size calculation undertaken?
- B) Randomization and allocation concealment method
- C) Were inclusion/exclusion criteria clearly defined?
- D) Was reason for withdrawal specified by study group?

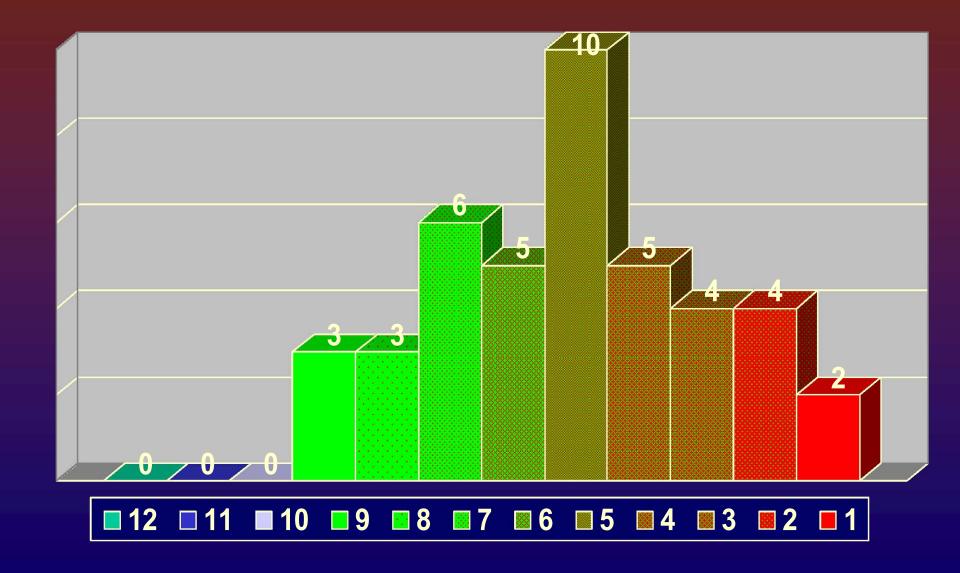
E) Comparable study groups at entry for important prognostic factors?

F) Any attempt at blinding

G) Appropriate statistical analysis?



Methodologic scoring of RCTs (n=42)



Method of a review- 4. Data synthesis

- 1. Two reviewers work independently, and in duplicate.
- 2. Appraise:
- patient age
- withdrawals by group
- reasons for withdrawals
- primary outcomes for all time points mentioned in the study report.



Primary outcomes: Patient or Dentist centered criteria?

Which outcome criteria?

- Implant mobility and implant removal of stable implants dictated by progressive marginal bone loss
- 2) Implant fracture and other mechanical complications that do not allow the use of the implants
- 3) Radiographic marginal bone level changes on standardised intra-oral radiographs

Which outcome criteria?

- ❖ Plaque
- Marginal bleeding
- Probing pocket depth
- Probing "attachment" level
- Radiographic marginal bone level changes on standardised intraoral radiographs

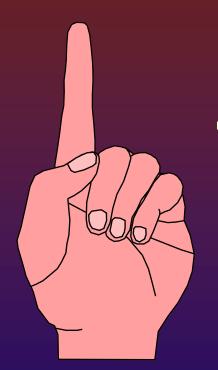
Measures relative to treatment outcomes

Perceived/self reported:

- Adaptation to prosthesis (satisfaction)
- Appearance
- Function (chewing, speech)
- Dietary significance (intake, selection)
- Health
- Quality of life (psyche, wellbeing, self esteem)
- Social activity

Observed:

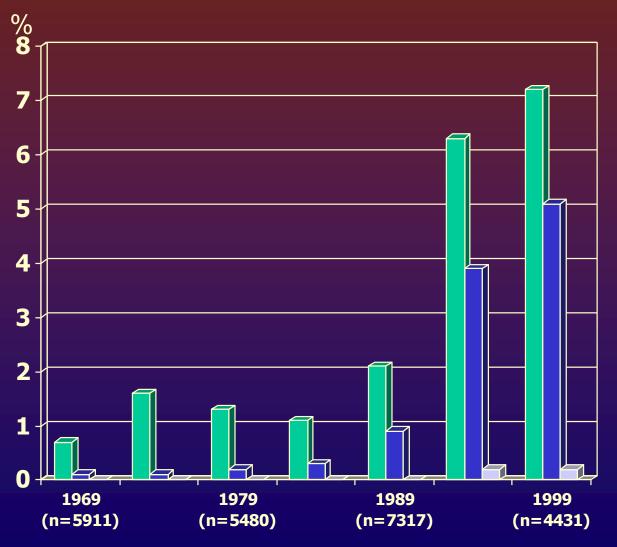
- Appearance
- Function (bite force, tracking)
- Diet survey
- ❖ Health indices *
- HRQL indices*
- Social activity



Most publications in the dental literature are not RCTs

Dental Research-Medline 1969-1999

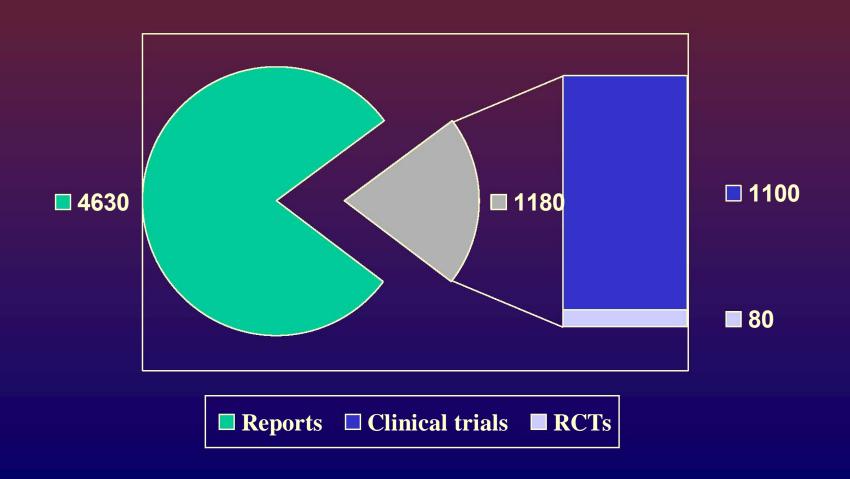
In 1999: 7% clinical research, 5% RCT



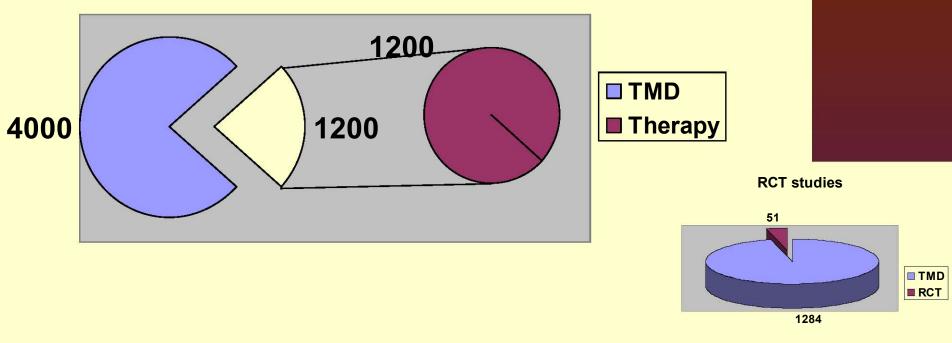
Clinical trialsRCTsMeta-a

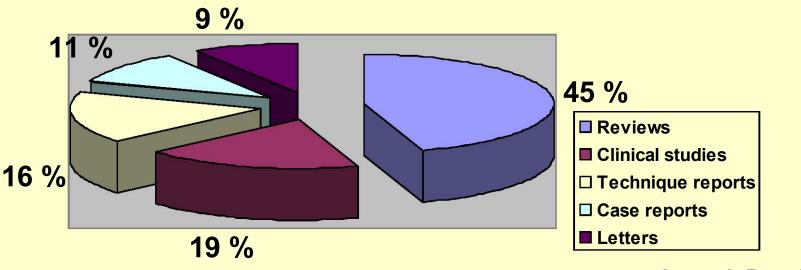
Sjögren & Halling, Acta Odontol Scand 2000

Randomised Controlled Trials in Oral Implant research

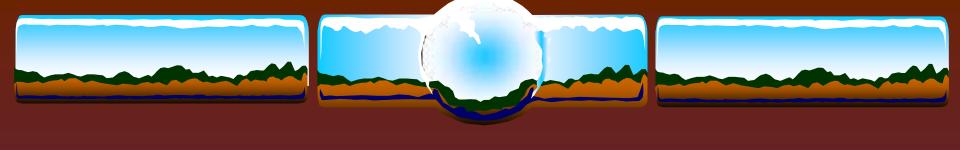


TMD studies 1980-92



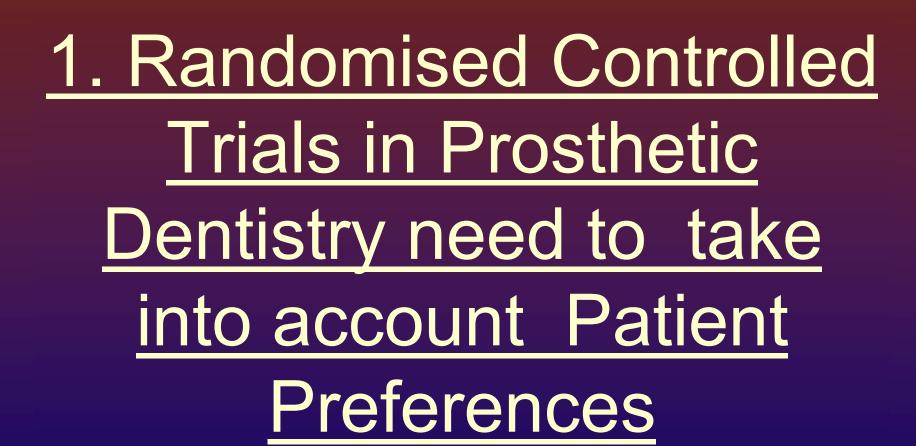


Antzcak-Bouckoms, 1995



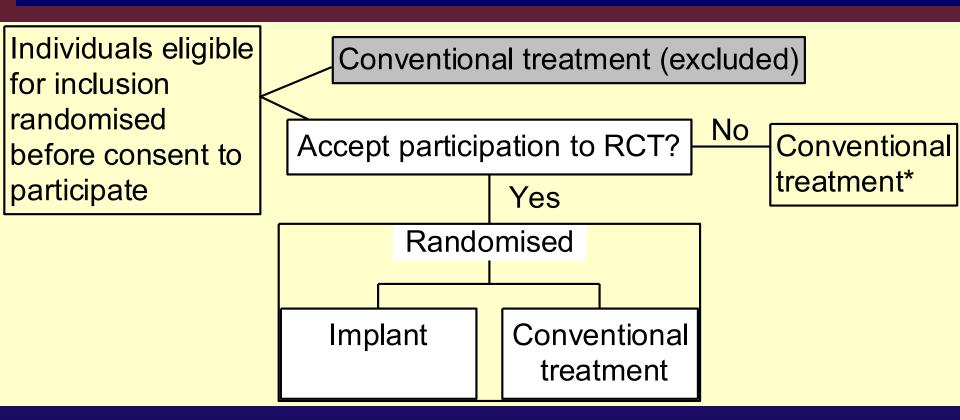
Why so few Randomised Controlled Trials in Prosthetic Dentistry?

- 1. Ethical issues RCT vs uncertainty
 - Dentist preference
 - Patient preference
 - Similar arms in RCT studies?
 - patient satisfaction
- 2. Complex and never identical treatment considerations



Zelen design

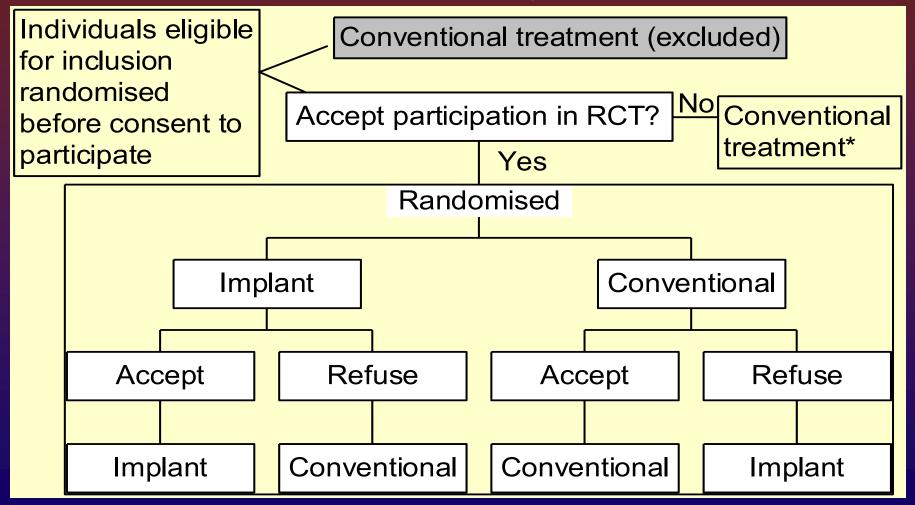
Zelen M. A new design for randomized controlled trials. N Engl J Med 1979; 300: 1242-45.



^{*} Given conventional treatment, but analysed as if they have received exp. treatm.

Zelen double randomised consent design

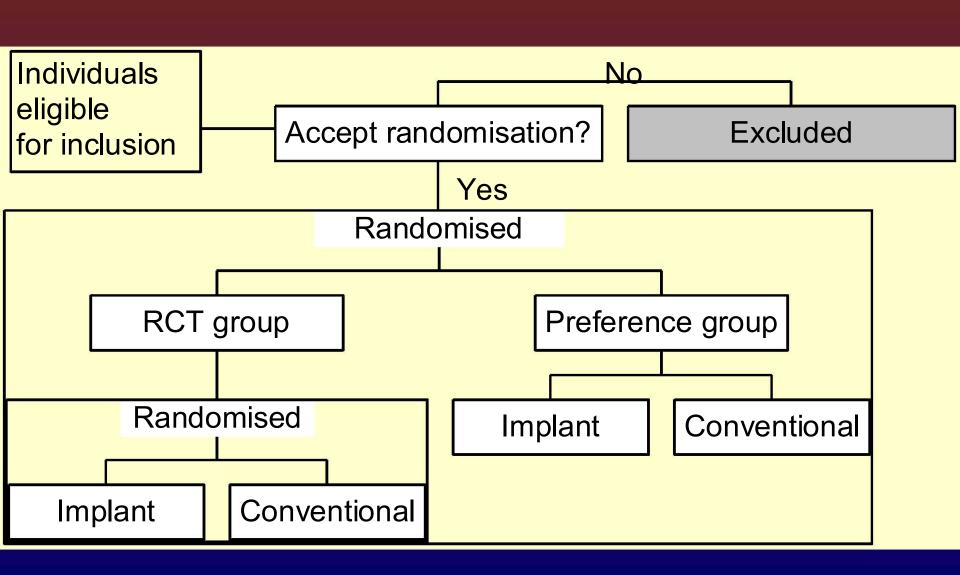
Ethical concerns overcome by offering the opportunity to switch to other group



^{*} Given conventional treatm., but analysed as if they have received exp. treatm.

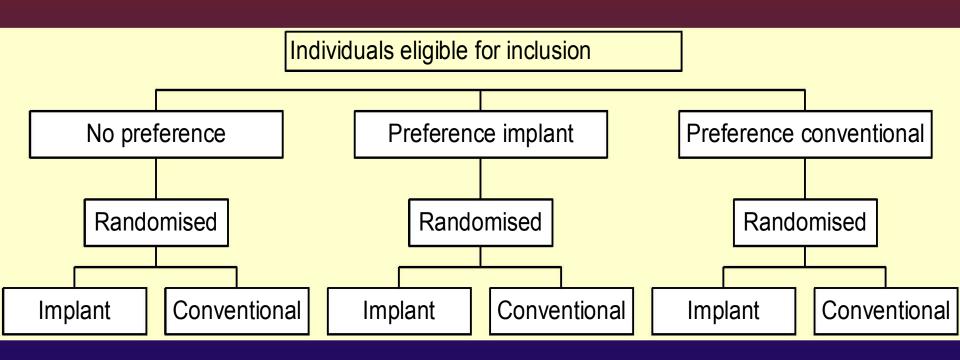
Wennberg design

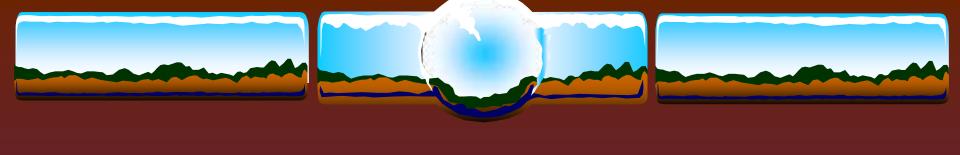
Include individuals who agree to be randomised



Feine & Awad design

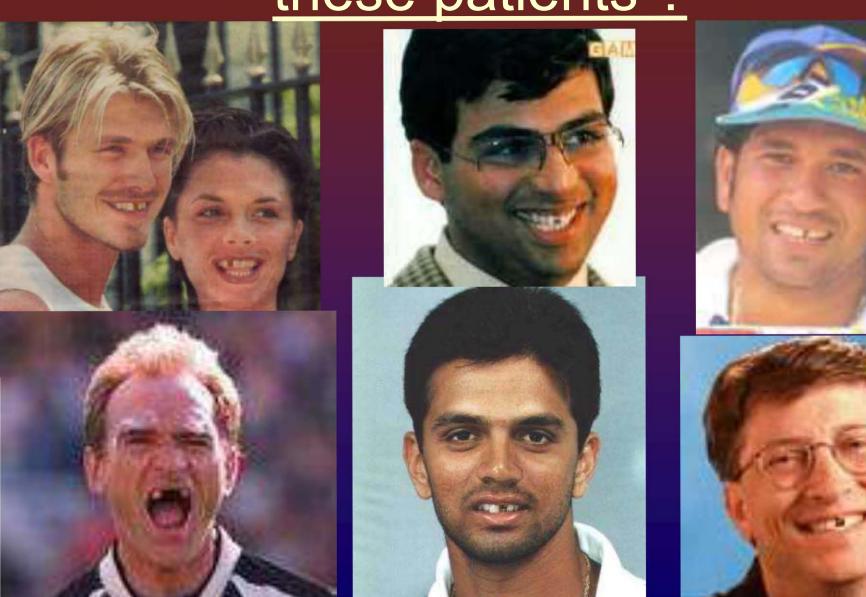
Feine J, Awad MA. Community Dent Oral Epidemiol 1998.





2. Uncertainty about best treatment in complex situations

Will identical treatment be given to these patients?



Choice of therapy – patient preferences

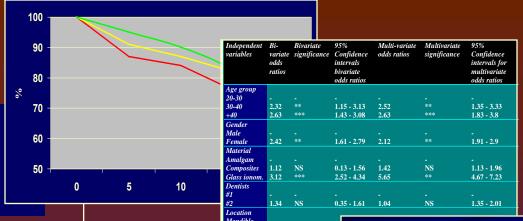
- Total rehabilitation or minimal solution?
- ❖ Demand for longevity, 1 y. 30 yrs.?
- Risk attitude to iatrogenic damage, i.e. future prognosis of tooth?
- Demand for fixed (or removable) prosthetic solution?
- Expectance of treatment?
- Patient economy.



Correct treatment...

...for the right patient....

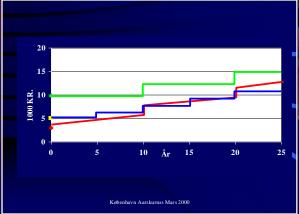


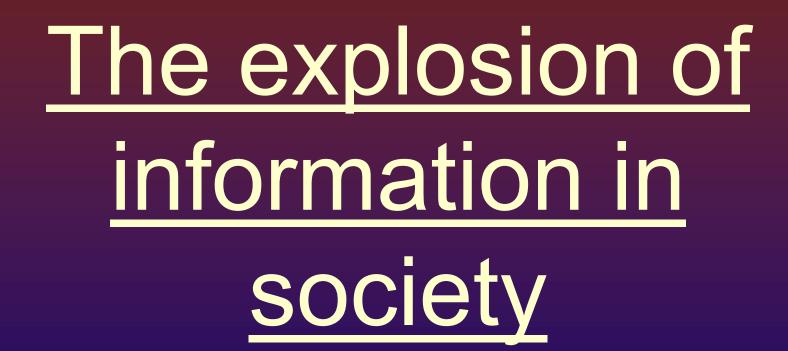








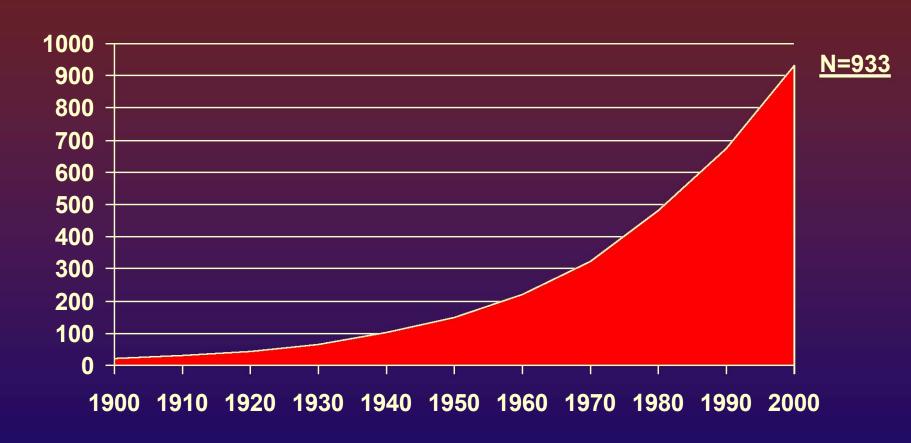




A rapidly changing society

- The production of new knowledge is at maximum in historical context
- Rapid changes of new ideas and concepts
- Information technology has improved the potential for information transfer to everybody
- Affects us all
 - Students and teachers
 - Patients
 - Researchers

Dental journals in circulation



Source: Ulrich's International Periodicals Directory

Where and by who is new knowledge in oral sciences created?

The clinical practitioners



- Single handed GPs/ specialists in teams; secondary/tertiary care
- Great diversity of experience, interest and capacity
- Draw on a panoply of experience
- Pragmatism: what works what creates problems



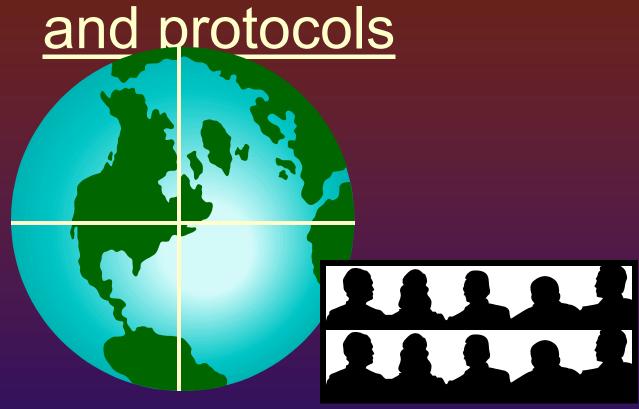
- Creates "scientific evidence"
- •Formulation of ideas, hypotheses, study design, data collection
- Peer review, internal/external validity, debates within paradigms
- Report findings in probabilities, not absolutes

The appraisers of evidence for clinical practice



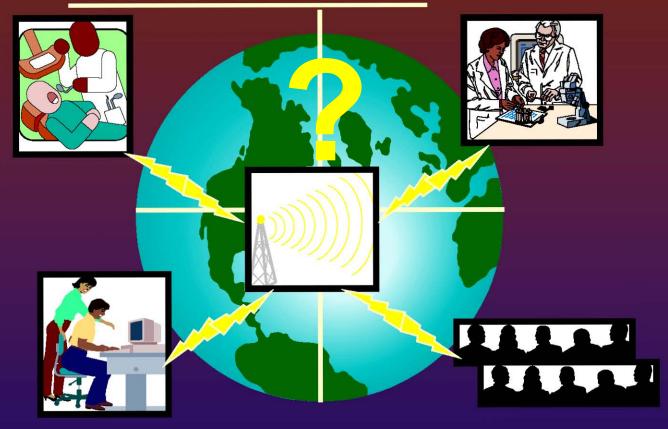
- •Epidemiologists, health economists, statisticians, social scientists, and clinicians
- Collect, abstract and appraise practice related knowledge
- Debates about value and balance between consensus and evidence, rigour of data and application of statistics

Developers of local guidelines



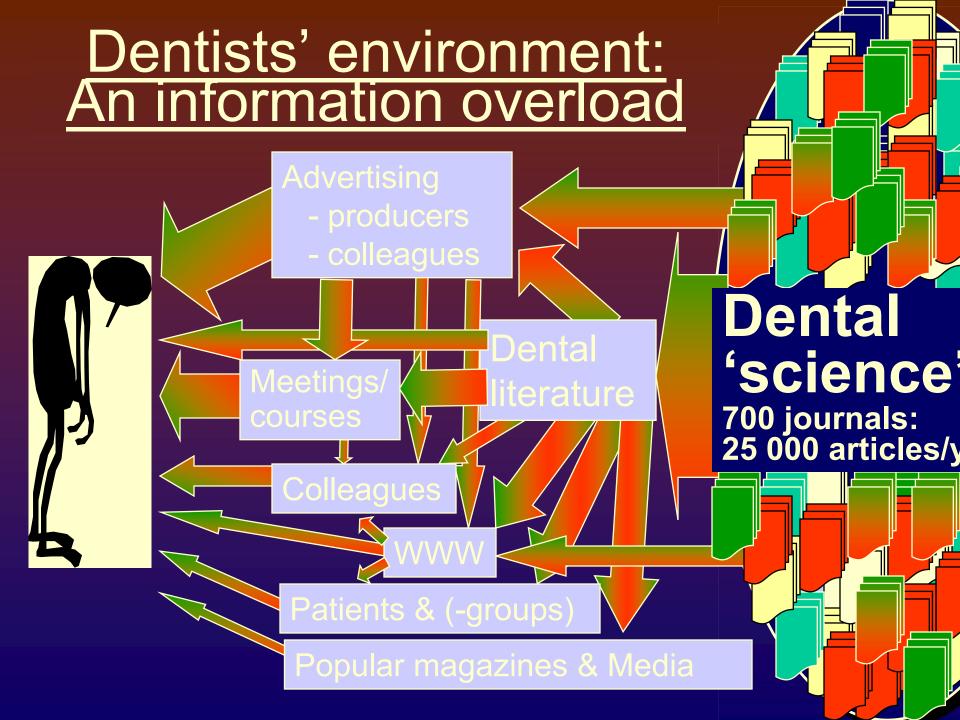
- Local consensus, sometimes on national guidelines
- Clinical specialists seeking ways to influence peers

Advancement depends on good communication



BARRIERS: Ignorance-Defensiveness-Arrogance
Different educational backgrounds, evaluation of best practice
Pressures, priorities, language, preoccupations

How will tomorrow's clinical practitioners be affected?



More knowledgeable patients:



- ✓ Patient communication!
- ✓ Wish to remain sound, look healthy.... young
- Competitive health providers

We need to consider not only the amount of information, but also the quality of this information

Solution: Integrate evidencebased clinical practice

- A practical aspect
 - A strategy for solving clinical problems on a daily basis.
- An ethical aspect
 - A strategy for being reasonably certain that my advises and treatment are the best available to my patients.

Evidence based prosthodontics



Fixed Prosthodontics

årsmøtet vil fokusere på

EBHC- Evidence Based Health Care-

-applisert på fagområdet protetikk.

. Andy Oxmann som er co-director ved The Nordic Cochrane Centre, samt Professor William Shaw, editor i The Cochrane Oral forelese om bakgrunnen for hvorfor EBHC blir et stadig viktigere tema innen all helseomsorg, og om hvordan ny kunnskap og ne <u>Cochrane Collaboration</u>. William Shaw vil applisere EBHC-konseptet til aktuell odontologisk forskning og problemstillinger. es på aktuelle problemstillinger innen protetikk og bittfunksjon. I to symposier vil det bli fokusert på det vitenskapelige fundament v materialer i vår pasientbehandling. Vi har valgt ut en del problemstillinger som vi håper og tror vil vekke interesse. Med mentasjon vil et selektert utvalg nordiske forelesere presentere det vitenskapelige fundament om emnene.

Velkommen!

Gudbrand Øilo

are in Prosthetic Dentistry



- B X

▼ What's Related

Scandinavia

Where can the best evidence based resources be found?





fdi V National and International Guidelines & Statements, Proceedings, Systematic reviews, National and International Guidelines & Statements, Meta-analyses



Patient issues Public health issues Precautions in the dental office Materials, techniques & procedures Specialised procedures **Education & Scientific issues**

Dentists' world

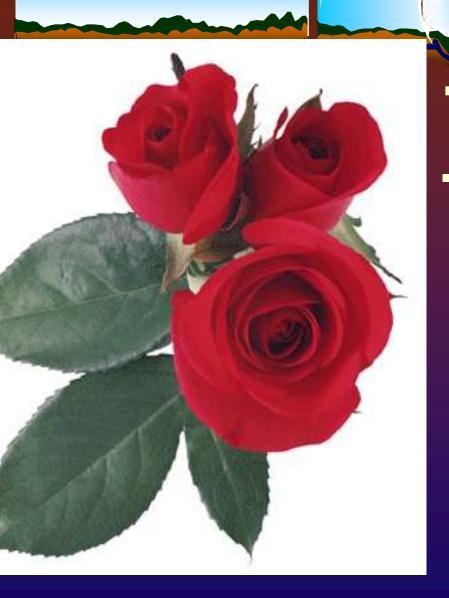
Patient issues			
Endocarditis	[World]	[FDI]	
Dental erosion	[World]	[FDI]	[FDI statement]
Disabled patients	[World]	[FDI]	
Emergency treatment	[World]	[FDI]	
Odontophobia, psychology, fear	[World]	[FDI]	
Oral mucosal problems	[World]	[FDI]	
Saliva and oral health	[World]	[FDI]	
Temporomandibular dysfunction	[World]	[FDI]	
Public health issues [Top]			







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[31000000000]	Recommendations for Using Fluoride to Prevent and Control Dental Caries in the		USA	CDC, Centers for Disease Control and Prevention	MMWR 50:(RR-14): 1-42		Center for Disease Control	10014	fluorides
	United States			Control and Trevention			Control		
2001	Core messages in oral health education	ongoing project	International	FDI Commission project 97-06	Int Dent J 2000; 50; 3: 115-74	Clarkson J, Löe H, Sreebny LM, König K	Project details		fluoride prophylaxi diet caries
0.0000000000000000000000000000000000000	Development and implementation of programs and policies for the prevention of oral diseases	Resource	USA	Association of State and Territorial Dental Directors (ASTDD)			Contact: ASTDD		prophylaxi fluoride ca sealant ev
9	Fluoride - Seen from Different Perspectives, Workshop held on various topics related to fluoride in the light of changing conditions Nov 2000, Amsterdam	Proceedings	International		Caries Res 2001;35:supplement 1		Caries Res		fluoride
2001	Fluoride in restorative materials	ongoing project	International	FDI Commission project 97-08	Project in progress	Clarkson J, McConnell R, Burke F	Project details		restorative fluoride
2001	Topical fluoride for preventing dental caries in children and adolescents	Systematic Review	International	Cochrane Collaboration Library		Marinho VCC, Sheiham A, Logan S, Higgins JPT	Cochrane Collaboration [Password required]		fluoride prophylaxi
2001	Water Fuoridation	Resource	USA	National Center for Fluoridation Policy & Research			<u>NCFPR</u>		fluoride
2001	Optimal intake of fluoride	ongoing project	International	FDI Commission project 96-08	Project in progress	Clarkson J	Project details		fluoride
2000	Fluoride and Dental Caries	Statement	International	FDI General Assembly 2000	FDI World 2001; 10(3):		FDI statement		fluoride
2000	CDA Statement on Fluoridation	Statement	Canada	CDA, Canadian Dental Association			<u>CDA-ADC</u>		fluoride
2000	Oral Health in America: A Report of the Surgeon General	Review	USA	NIH, National Institutes of Health	NIH Publication No 00- 4713	Satcher D	Surgeon General		epidemiolo fluoride ca tobacco ca perio-pub
2000	International Collaborative Research on Fluoride	Proceedings	USA	NIH, National Institutes of Health	J Dent Res 2000; 79(4): 893-904	Clarkson JJ, Hardwick K, Barmes D	J Dent Res		fluoride
2000	Fluoridation of Drinking Water: a Systematic Review of its Efficacy and Safety	Systematic Review/Guidelines	United Kingdom	NHS Centre for Reviews and Dissemination	CRD Report 18		NHS R&D		fluoride
3525	Utilisation du fluor chez les enfants: recommandations de l'European Academy for Paediatric Dentistry (EAPD). [Use of fluorides in children: recommendations of the European Academy for Pediatric Dentistry]	Guidelines	Belgium/Belgique	European Academy for Pediatric Dentistry	Rev Belge Med Dent 1999; 53: 318-24	Marks LA, Martens LC	UI: 99361395		fluoride
1999	Fluoridation of water supplies	Statement	International	IADR, International Association for Dental Research			IADR		fluoride
0.0000000000000000000000000000000000000	Fluoride supplements and fluorosis: a meta-analysis	Meta-analysis	USA	University of Michigan	Community Dent Oral Epidemiol 1999; 27: 48-58	Ismail Al, Bandekar RR	UI: 99184730		fluoride
1999	Fluoridation	Review/Guidelines	Canada	Calgary Regional Health Authority			CRHA		fluoride
	Achievements in Public Health, 1900-1999: Fluoridation of Drinking Water to Prevent Dental Caries	Review	USA	CDC, Centers for Disease Control and Prevention	MMWR 48(41); 933-940		Center for Disease Control		fluorides



Thank you for your kind attention