

Science in prosthodontic papers. A comparison of two prosthodontic journals.

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Background and aim

Evidence of doing more good than harm depends on adequate study design¹.

¹ Sackett DL, Richardson WS, Rosenberg W, Haynes RB. Evidence-based Medicine. Churchill Livingstone, 2000.

Background and aim

A report presented at the ICP meeting in Stockholm in 1999 concluded that:

The articles in Int J Prosthodontics present little evidence for documenting therapeutic benefits of clinical prosthodontic treatment.

Future appraisal of other journals will show if this situation reflects the state of science of prosthodontic research."

Background and aim

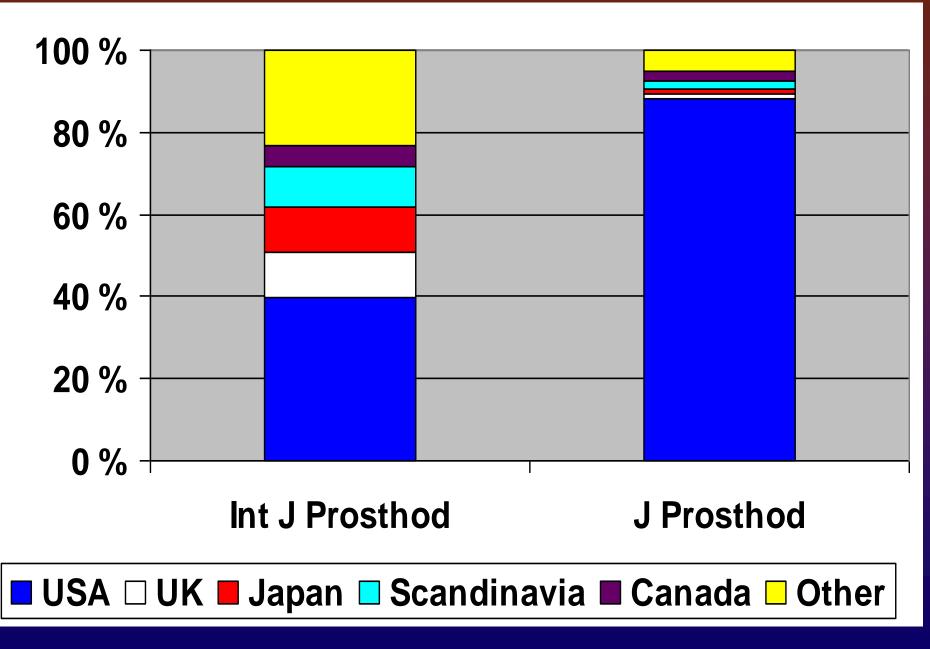
The aim of the present review was to compare the characteristics of papers published in two influential refereed journals in prosthetic dentistry.

Method

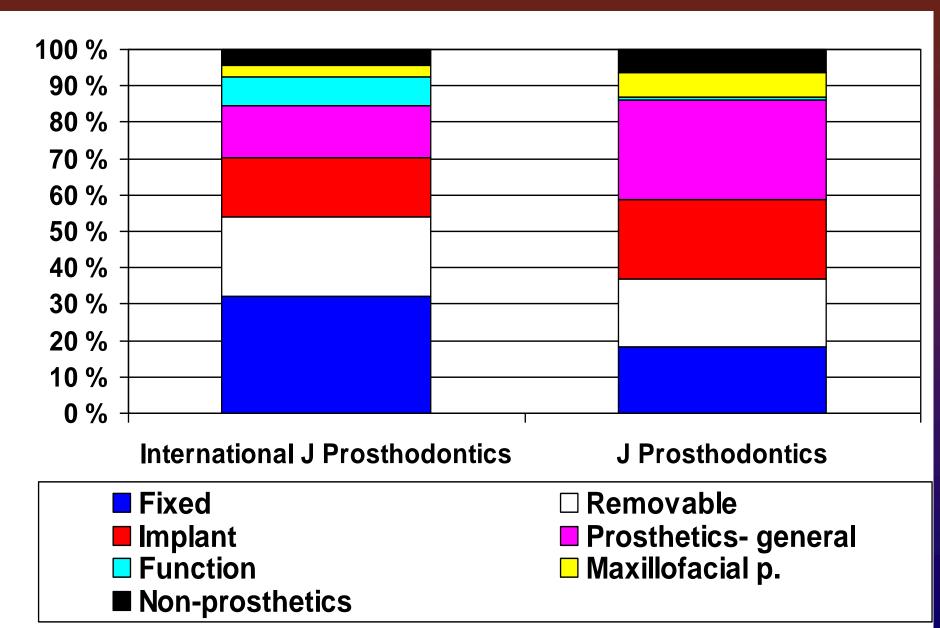
All papers published in The <u>International</u> <u>Journal of Prosthodontics</u> (n=826) and in The <u>Journal of Prosthodontics</u> (n=305) have been appraised.

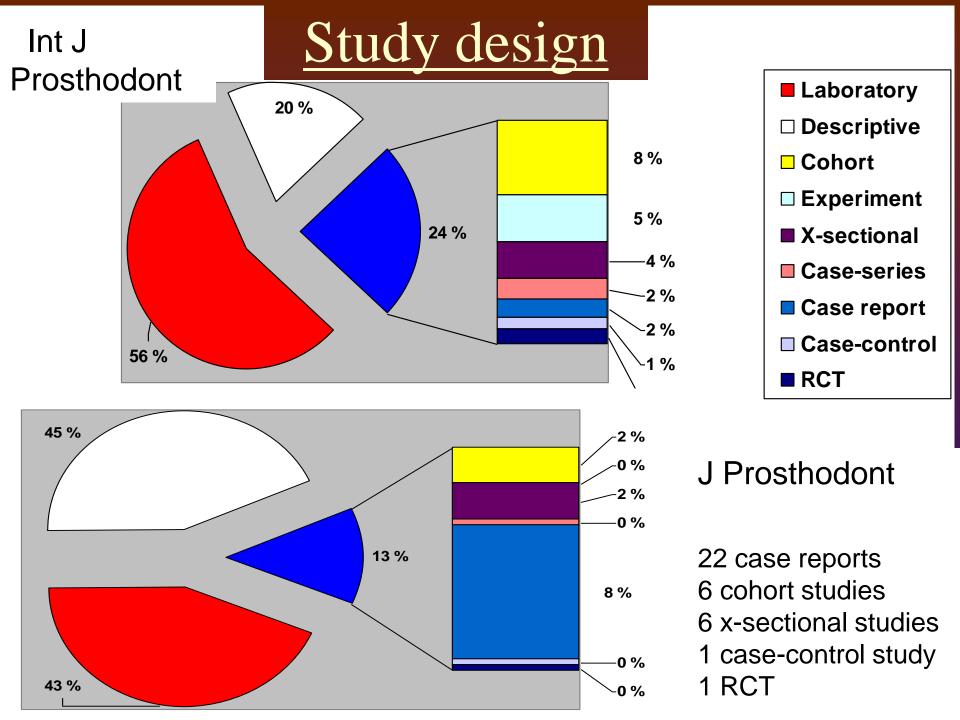
- The papers were categorised according to study design, description of clinical problem, and prosthodontic subtopic.
- Clinical studies were also characterised by the sample size and observation period.
- All variables were cross-tabulated to assess possible relationships.

<u>Contributors</u>









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) <mark>(n=6)</mark>	24-1286	612
Experimental	1 -79	22
(n=41)(n=0)		
Case-control	8- 250	95
(n=10) <mark>(n=1)</mark>		

Study aims

I. Educational

Self improvement; teaching; skill improvement

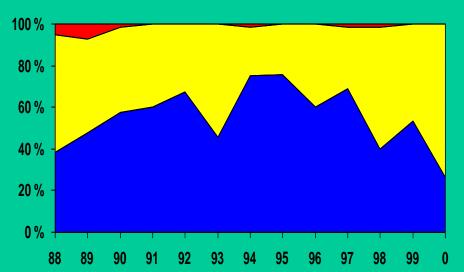
II. Clinical problems

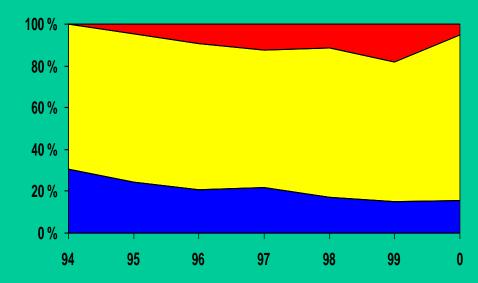
Therapy: process & outcomes; Prognosis

III. Basic sciences

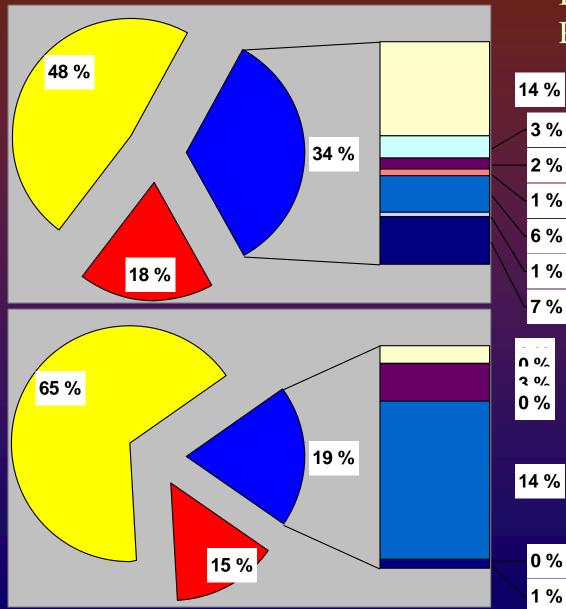
Chemistry; physics; physical-chemical properties Biomechanics; fit accuracy; wear; stress

International Journal Prosthodontics Journal of Prosthodontics

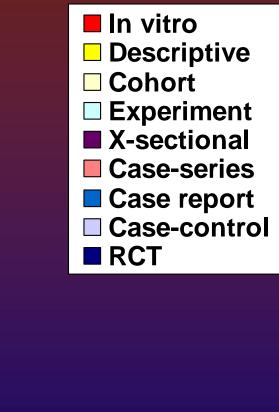




<u>Clinical problem vs. study design - Therapy</u>

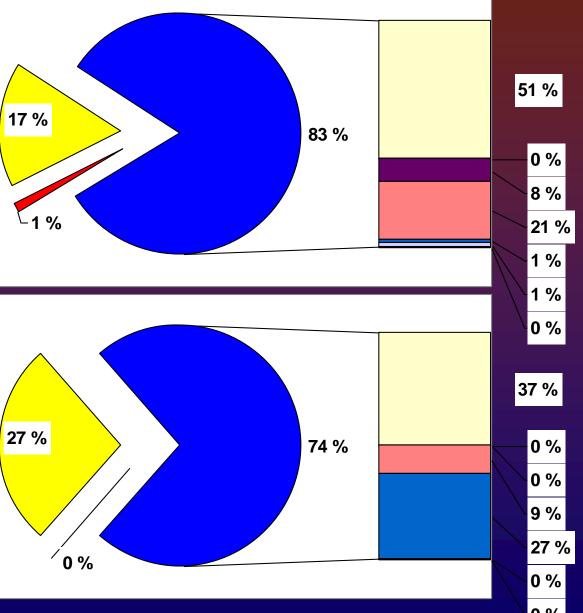


International Journal Prosthodontics (n=180)



Journal of Prosthodontics (n=124)

Clinical problem vs. study design - Prognosis



International Journal Prosthodontics (n=72)



Journal of Prosthodontics (n=11)

Conclusions 1/2



Prosthodontics

Emphasis in *Journal of Prosthodontics,* is mostly on descriptions of technique presentations and case reports, educational issues and review papers of the traditional type.

International Journal of Prosthodontics includes a higher proportion of reports based on well-designed clinical studies

٩D.



- Both journals include:
- Many papers with focus on:

 - * clinical studies with poor evidence of therapeutic benefits of prosthodontic treatment
- Few papers with focus on:

 - Iongitudinal clinical studies that validate treatment outcomes





Thank you for kind attention

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