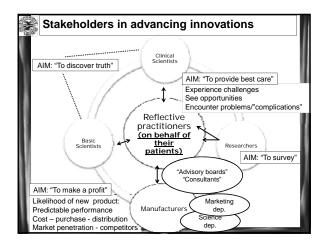


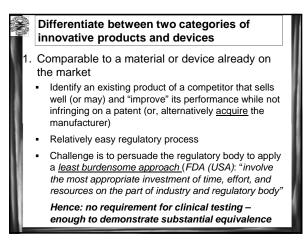
Disclosure

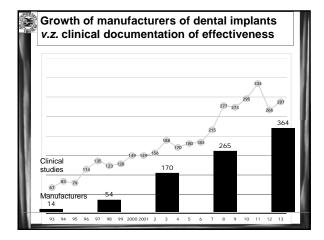
- No financial relationships exists between the presenter and
- any company that manufactures or distributes a product discussed in the presentation,

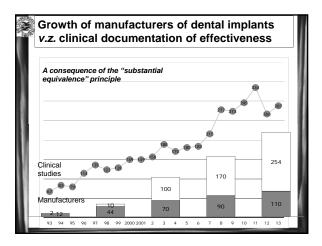
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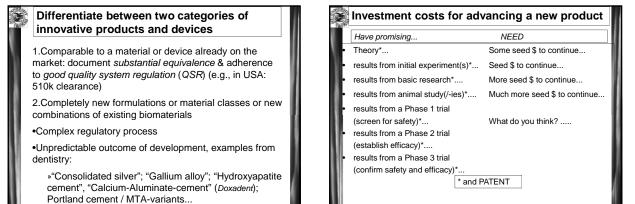
any company whose product competes, or may compete, with a product discussed in this presentation





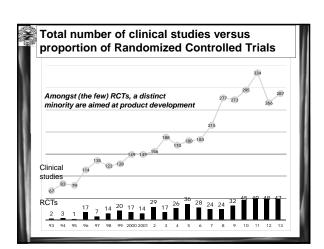


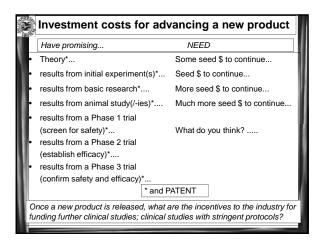




Development phases of a completely new biomaterial or device

- 1. A justified idea for a new product
- Arduous in vitro investigations to establish safety and efficacy → verify proof of concept → document utility of new product in vivo
- Demonstrate clinically that the new product is better or comparable with existing – the gold standard is to undertake a RCT (randomized clinical trial) with:
 - 1. adequate statistical power
 - 2. high internal and external study validity
 - 3. appropriate observation period
 - relevant primary outcome(s)
 - 5. meaningful statistical interpretation and presentation
- 4. Relative few RCTs are ever published even fewer that fulfill
- all 5 criteria for various reasons

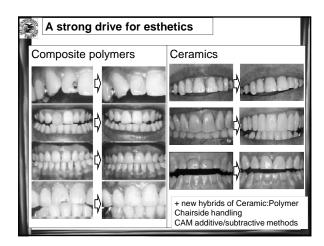




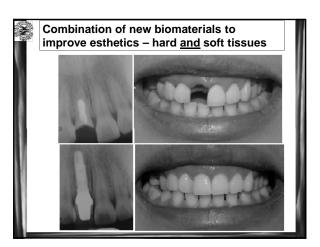


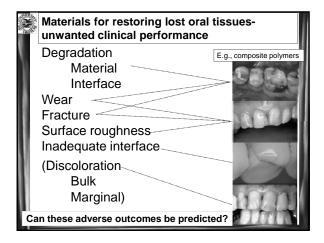
- Extrapolation of evidence obtained *in vitro* to predict *in vivo* performance intraorally is a classic dilemma in dental materials research
- 4. Which preclinical tests are currently available and what are strengths and weaknesses in terms of correlation to reported clinical behaviour and performance?

(M)	A good idea for a new product that should sell?	2 Rada and and a state
ŀ	The drive for esthetics is stronger than ever before!	vereit vereit vereit
ŀ	An aging population is willing to maintain (worn) teeth	and a second
ŀ	New classes of biomaterials	Andre Stand Street Article Courts
ŀ	New combinations of biomaterials for replacing / restoring soft and hard oral tissues	lander van in bester verser van de lander van paner verser verser alle verser van verser verser verser









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Standardisation initiatives in dentistry	American Dental Association
1920 1930 1940 1950 1 ADA	 1919: Surgeon General request on assessment of amalgam from National Bureau of Standards 1926 First ADA specification on dental amalgam (ADA specification #1) 1942: Bureau of Standards, Research commission 1955: Clinical testing of dental caries preventives. Report of a conference to develop uniform standards and procedures

Standardisation initiatives in dentistr	Mid-50ies, first attempts to develop standards		
1920 1930 1940 1950 ADA	196		
Sweeney WT. Dental research at the National Bureau of Standards 1919-19 History of Dental Research Section. 1969.			

Standardisation initiatives in dentistry	FDI: "CLINICAL & BIOLOGICAL STANDARDS": Commission on Dental Materials, Instruments, Equipment and Therapeutics 1964-1979, 15 members, 5 from industry 1967: Principal requirements for controlled clinical trials
1920 1930 1940 1950 1960 1970 ADIA	1974: Acceptance programs for dental materials and devices 1977: Recommended format for protocol for clinical research programs
	ISO TC 106 Dentistry [1959] "PHYSICAL & TECHNICAL MATERIAL STANDARDS" 1. Filling & restorative materials 2. Prosthodontic materials 3. Dental instruments 4. Dental equipment

