

Academy of Continuing Education
and
Department of Prosthodontics
College of Dental Sciences
Davangere

cordially invite you to the

Inaugural Ceremony
of the
MILLENNIUM LECTURE SERIES

Chief Guest

Dr. M. S. Goud
President, Indian Prosthodontic Society

Guest of Honour

Shri I. P. Vishwaradhya
Chairman, College of
Dental Sciences
Davangere

Dr. M. L. Kulkarni
Professor & Head
Dept. of Pediatrics
JJM Medical College

Special Invitees

Dr. Asbjorn Jokstad
Associate Professor
Faculty of Prosthodontics
Oslo University, Norway

Dr. S. M. Joshi
Prosthodontist
Pune

Friday, 9th March 2001, 09.30 am
Seminar Hall, College of Dental Sciences

Dr. V. V. Subba Reddy
President, ACE-CODS

Brig.(Dr) K. Xavier Mathew
Organizing Secretary

*Is there such
thing as a correct
therapy in
prosthodontics?*

*Asbjørn Jokstad
Institute of Clinical Dentistry
University of Oslo*

Yes!

Correct treatment is....

at the right time...

to offer an effective
treatment...

for the right patient...

carried out correctly...

and obtaining the best
possible result.

Requires that the dentist possess

at the right time....

1. diagnostic abilities and knowledge of the effectiveness of diagnostic tests

to offer a effective treatment...

2. knowledge of the effectiveness and consequences of alternative treatments

for the right patient....

3. ability to communicate with the patient and empathy, as basis for rational strategies for treatment

Requires that the dentist possess

carried out correctly.....

4. a minimum level of technical-
manual skills and clinical
experience

and obtain the best possible result.

5. the desire to prioritize the
patient's preferences and -
values when evaluating the
treatment success

Variables that may
affect clinical
treatment decisions

Treatment - patient parameters

Age

Personality

Values

Life style

Evaluation of risks

Attitude to oral health

Attitude towards risk

Attendance habits

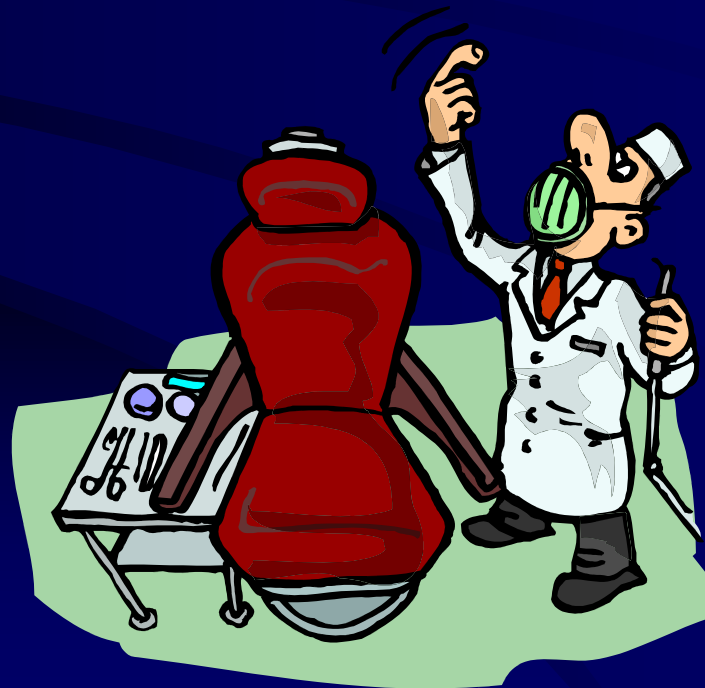
Diet

Cost factors

Income/Priorities



Treatment-communicative parameters



Treatment - operator parameters

Perceptive abilities

- ☞ Diagnostic abilities
- ☞ Empathy

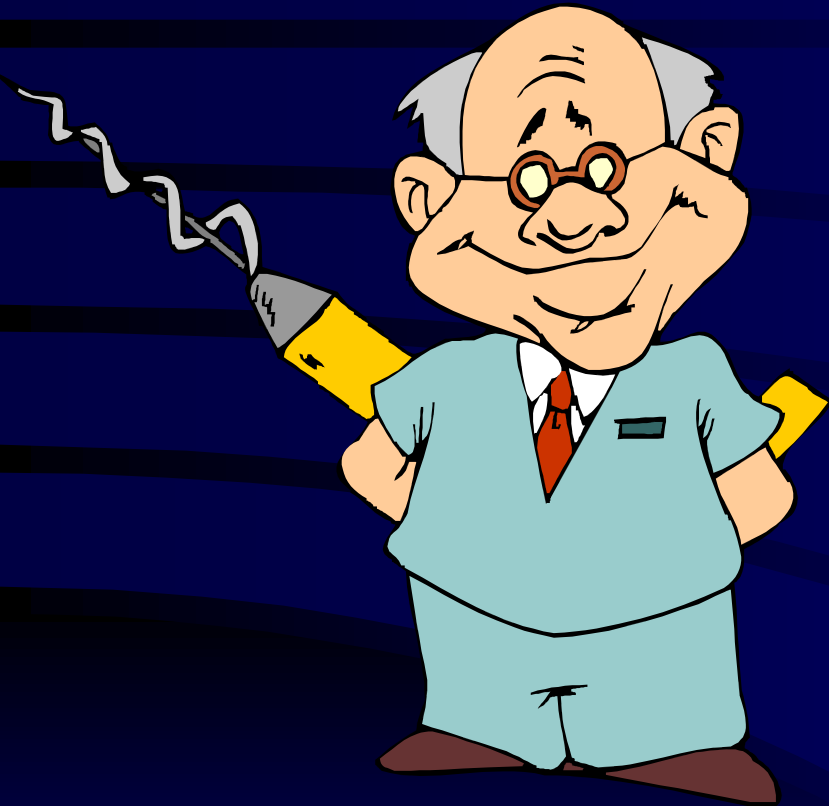
+

Clinical skills

+

Clinical knowledge:

- ☞ alternative treatments/
no treatment
- ☞ Biologic costs
- ☞ Psychosocial costs
- ☞ Economic costs
 - Fee / Prognosis
- ☞ Worst-case scenario



Treatment - parameters

Age
Personality
Values
Life style
Evaluation of risks
Attitude to oral health
Attendance habits
Risk attitude
Diet
Cost factors
Income/Priorities

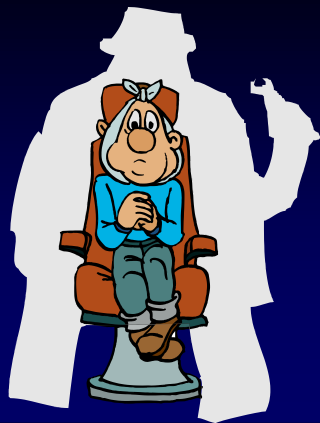
Dentist:patient
relationship
Two-way
communication

Perceptive abilities
☞ Diagnostic abilities
☞ Empathy

+
Clinical skills

+
Clinical knowledge:

- ☞ Alternative treatments / no treatment
- ☞ Biologic costs
- ☞ Psychosocial costs
- ☞ Economic costs
 - Fee / prognosis
- ☞ Worst-case scenario

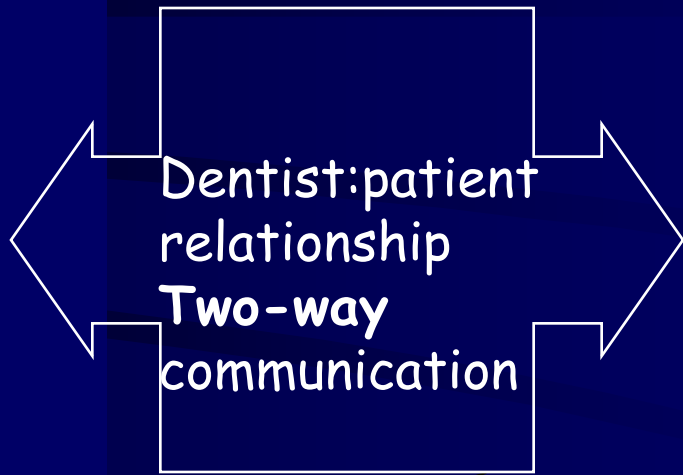


Requirements for
correct treatment
and treatment
decision variables

Correct treatment...

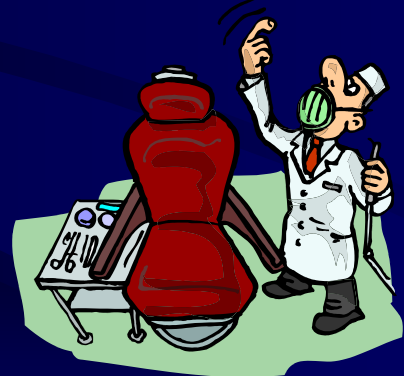
...at the right time....

1. diagnostic abilities and knowledge of effectiveness of diagnostic tests



Perceptive abilities

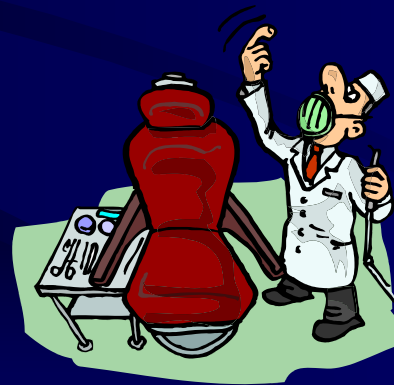
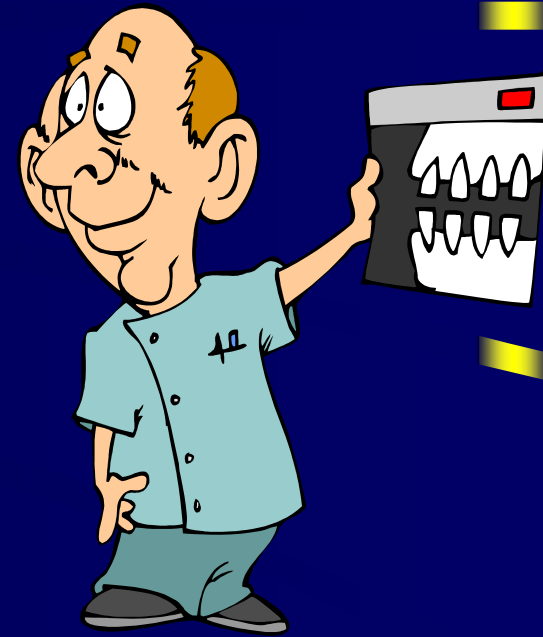
- Diagnostic abilities
- Empathy



Correct
treatment...

...offer an
effective
treatment....

2. knowledge of
effectiveness
and
consequences
of alternative
treatments



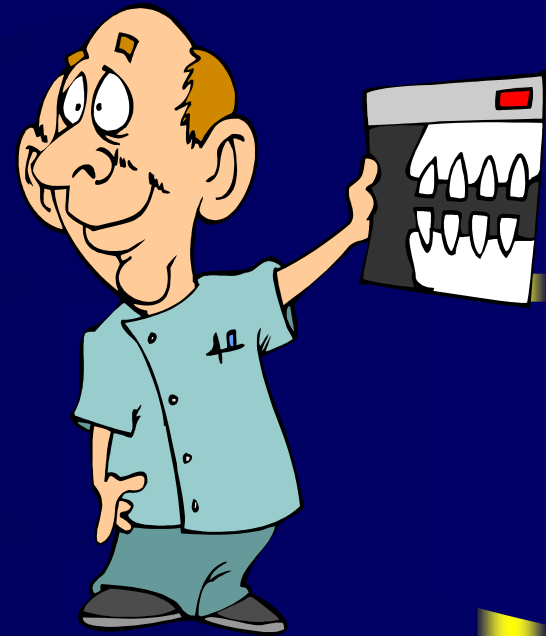
Correct
treatment...

...offer an
effective
treatment....

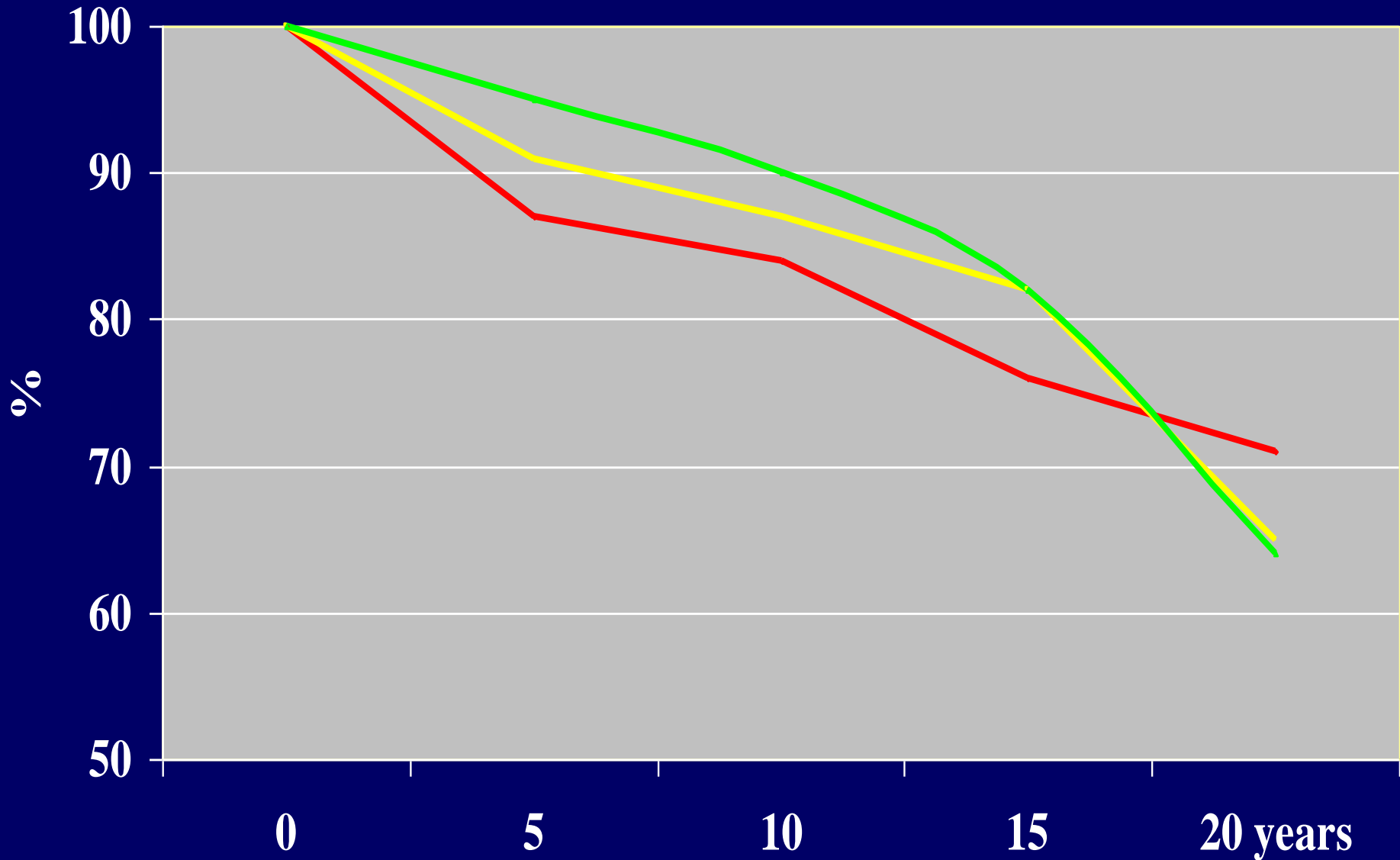
2. knowledge of
effectiveness
and
consequences
of alternative
treatments

Dentist:patient
relationship

What characterises
an effective
therapy?



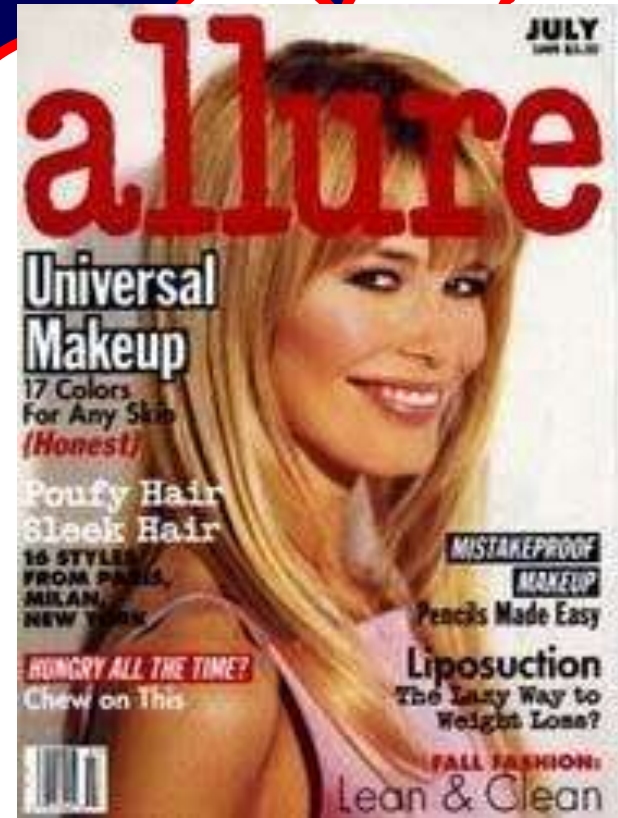
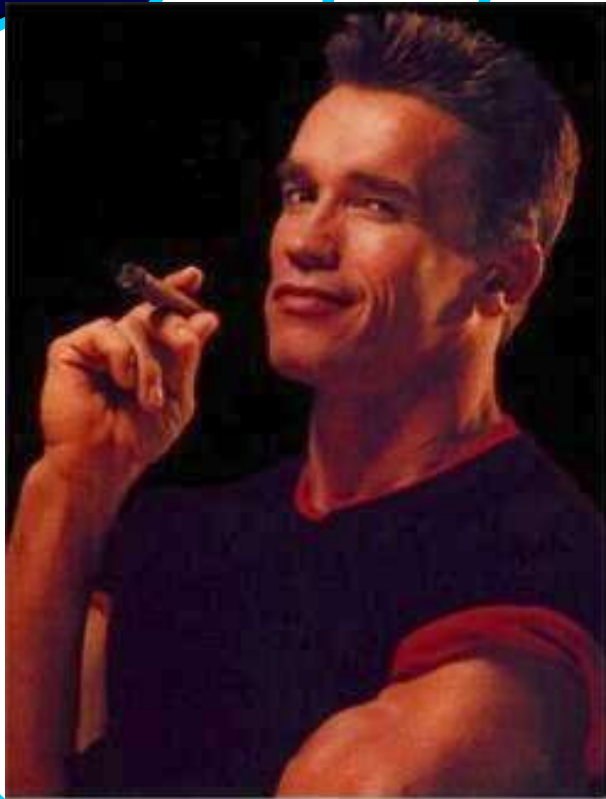
Dentists may present....



..or dentists present...

<i>Independent variables</i>	<i>Bi-variate odds ratios</i>	<i>Bivariate significance</i>	<i>95% Confidence intervals bivariate odds ratios</i>	<i>Multi-variate odds ratios</i>	<i>Multivariate significance</i>	<i>95% Confidence intervals for multivariate odds ratios</i>
Age group						
<i>20-30</i>	-	-	-	-	-	-
<i>30-40</i>	2.32	**	1.15 - 3.13	2.52	**	1.35 - 3.33
<i>+40</i>	2.63	***	1.43 - 3.08	2.63	***	1.83 - 3.8
Gender						
<i>Male</i>	-	-	-	-	-	-
<i>Female</i>	2.42	**	1.61 - 2.79	2.12	**	1.91 - 2.9
Material						
<i>Amalgam</i>	-	-	-	-	-	-
<i>Composites</i>	1.12	NS	0.13 - 1.56	1.42	NS	1.13 - 1.96
<i>Glass ionom.</i>	3.12	***	2.52 - 4.34	5.65	**	4.67 - 7.23
Dentists						
<i>#1</i>	-	-	-	-	-	-
<i>#2</i>	1.34	NS	0.35 - 1.61	1.04	NS	1.35 - 2.01
Location						
<i>Mandible</i>	-	-	-	-	-	-
<i>Maxilla</i>	1.55	*	1.17 - 2.04	1.15	*	1.57 - 2.14

..while patients may have completely other values and wishes



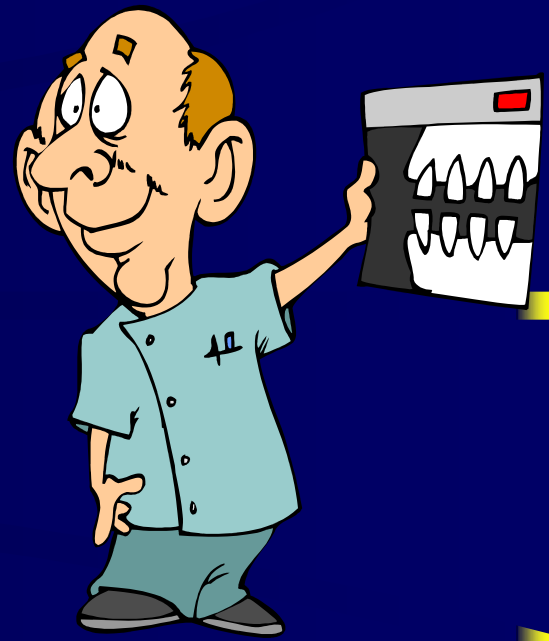
Which treatments
would you offer if
these people showed
up in your clinic....



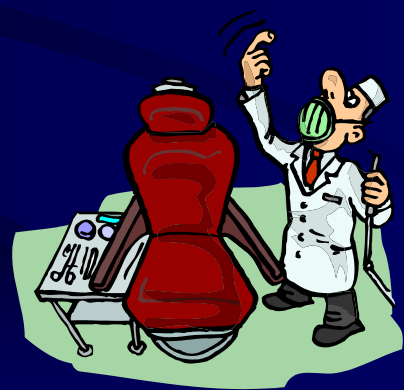
Some of these pictures are photomanipulated

Correct treatment...

...offer an effective treatment....
2. knowledge of effectiveness and consequences of alternative treatments



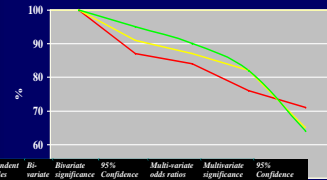
Clinical knowledge
↳ alternative treatments



Alternative treatments

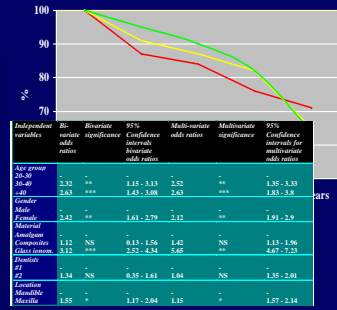
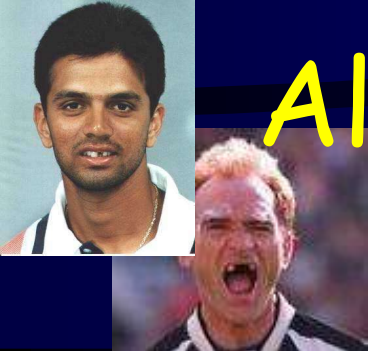


- Etch bridge
- Conventional bridge
- Crown
 - implant-based
 - following autotransplantation
 - following orthopedic treatment
- Veneer/ Veneer crown / direct restoration
 - following autotransplantation
 - following orthopedic treatment
- Removable prosthesis
- No treatment



Independent variables	Bivariate odds ratios	Bivariate significance	95% Confidence intervals bivariate odds ratios	Multi-variate odds ratios	Multi-variate significance	95% Confidence intervals for multivariate odds ratios
Age group	-	-	-	-	-	-
20-30	2.32	**	1.15 - 3.13	2.52	**	1.35 - 3.33
30-40	2.63	***	1.43 - 3.08	2.63	***	1.83 - 3.8
>40	-	-	-	-	-	-
Gender	-	-	-	-	-	-
Male	-	-	-	-	-	-
Female	3.42	**	1.61 - 2.79	2.12	**	1.91 - 2.9
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Composites	1.12	NS	0.13 - 1.56	1.42	NS	1.13 - 1.96
Glass ionom.	3.12	***	2.52 - 4.34	5.65	**	4.67 - 7.33
Duration	-	-	-	-	-	-
0-2	-	-	-	-	-	-
3-4	1.34	NS	0.35 - 1.61	1.04	NS	1.35 - 2.01
Location	-	-	-	-	-	-
Mandible	-	-	-	-	-	-
Maxilla	1.55	*	1.17 - 2.04	1.15	*	1.57 - 2.14

Alternative treatments



Etch bridge

DMF/endo/perio status?

2 or 3 abutments?

Metal / non-metal

Connect, Fibrekor, Fibreflex, Fibrespan, Glasspan, Ribbond, Splint-It!, Stick...

Optimal surface preparation

Tooth

Metal / non-metal surface

Occlusion?

Optimal cement?



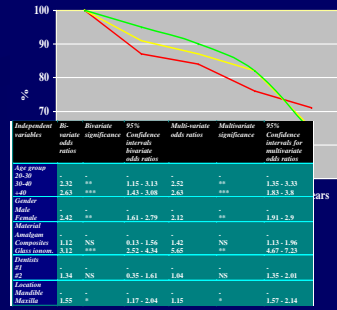
• Beuchat et al., 1999

• Creugers - Hansson - Marinello - Thompson

• Pröbster, 1997

• Briggs et al., 1996

Alternative treatments



Fixed bridge

DMF/endo/perio status

2 or 3 abutments?

Metal /full -ceramic?

Alloy / ceram

Optimal tooth preparation?

Occlusion?

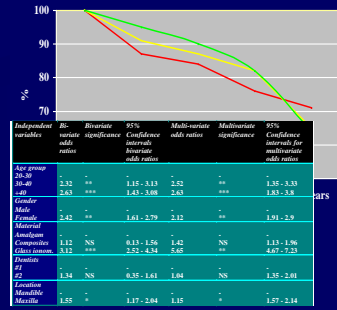
Optimal cement?

• Scurria et al., 1998

• Creugers et al., 1994

• Glantz - Jokstad - Karlsson - Palmqvist - Öwall

Alternative treatments



Orthodontic therapy

Opening or closing of spaces?

Sabri, J Am Dent Assoc 1999

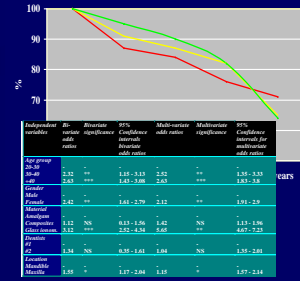


Auto-transplantation

Limited to growing adolescents

- Nethander, Int J Prosthodont 1995
- Thomas et al., Br J Orthodontics 1998
- Schliephake et al., Dtsch Zahnärztl Z 1999

Alternative treatments



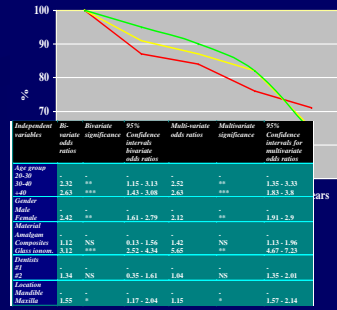
Crown - Veneering - Direct restoration



- DMF/endo/perio status
- Metal- / full ceramic / galvano / cad-cam?
- Alloy: high gold, precious, semiprecious?
- Ceramic: Low fusing, pressure, sintered, Al-oxide?
- Composite resin: Microfill, hybrid, high fill?
- Optimal tooth preparation?
- Optimal cement?



Alternative treatments



Single tooth implant

Diameter?

Bone quality/ quantity - GTR?

Implant-type?

Astra, Calcitek, Corevent,
Friatec, IMZ, ITI,
Nobelbiocare, Sterioss...?

Cement or screw-retained?

• Scholander, 2000

• Noack et al., 1999

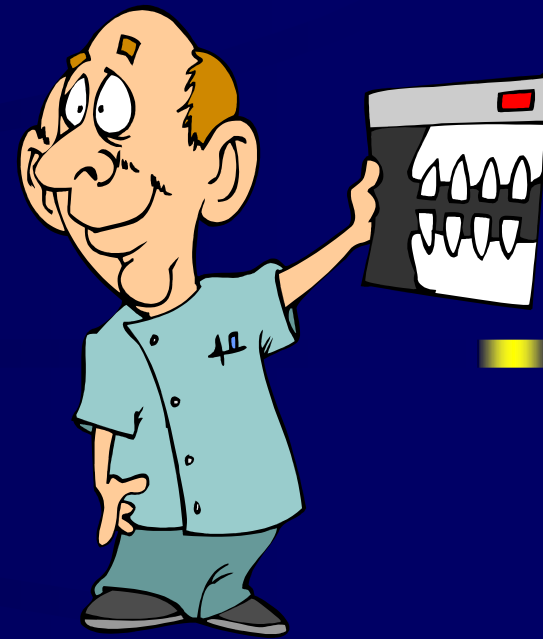
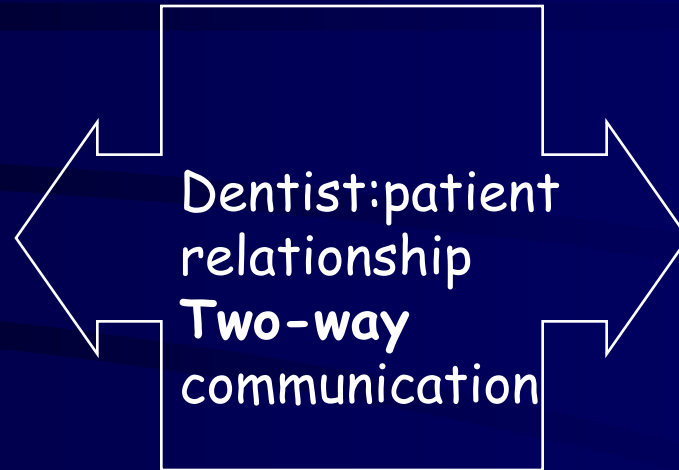
• Meffert, 1997

• Andersson -
Gotfredsen - Jemt -
Odman

Correct treatment...

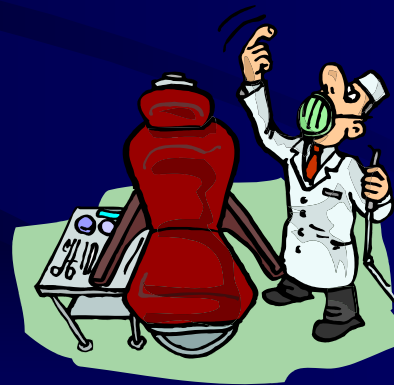
...offer an effective treatment....

2. knowledge of effectiveness and consequences of alternative treatments



Clinical knowledge

- alternative treatments versus no treatment
- Biologic costs

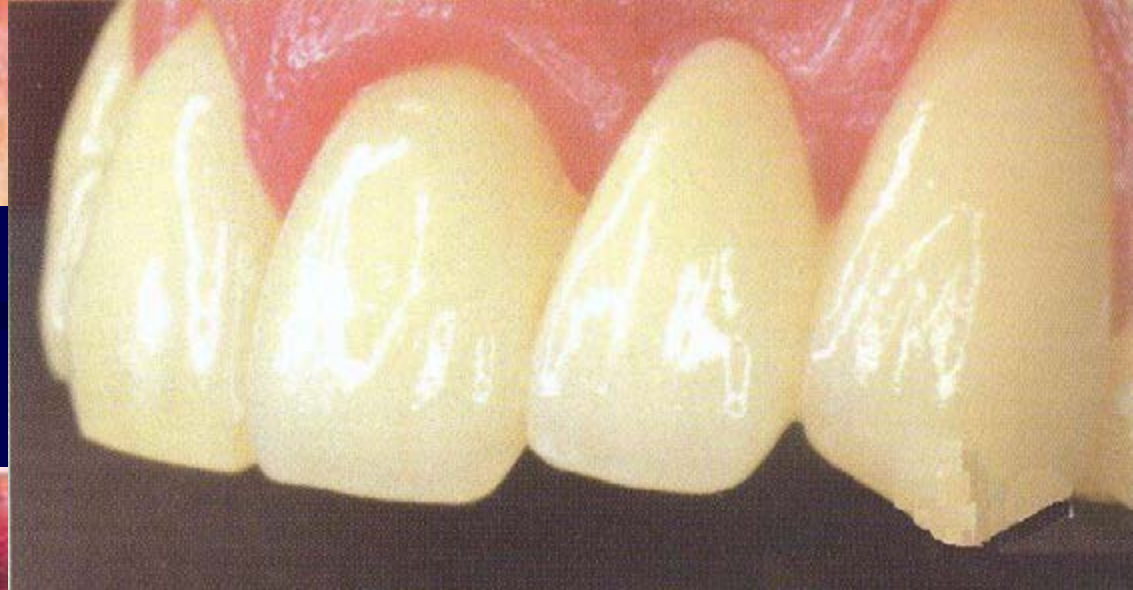


A dentist may perhaps offer:



Etch-bridge

Single tooth implant



Conventional
bridge



....gloss?

Resultatet

omplett system for
tisk tannbehandling

ikteteknikk
sterende maleteknikk
patentert fullkeramisk skjelett
styrken med 2 til 3 ganger
genkontrast
samt mot antagonistene
ompatibelt

ro estetikk

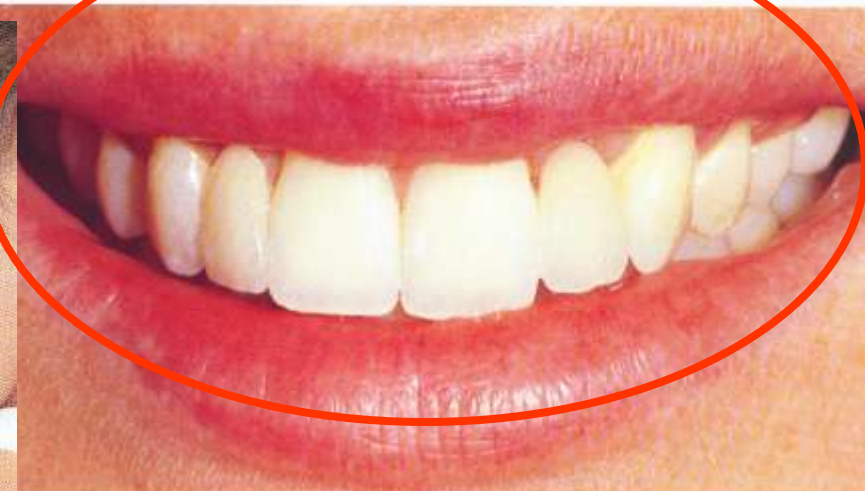
ASTRA TECH



IPS Express 2 fronttannsbros

remained restoration appears as most convincing
ing indication for implant treatment.
Unchallenged tissue response in combination
with the flexibility in surgical techniques and
prosthetic options makes the Astra Tech
Dental Implant a reliable option for implant

atures are now being launched. Together with
the recently launched Preapable Abutment
system, these components give clinicians and
technicians a wide range of products with
which to handle each individual situation ▲



RESULTAT



17-årig pojke som fikk en Rochette-
bro som erstatning for 21. (sid 6).
Førhast orsakad av trauma.



- by an innovative
Loading Protocol
- CASE REPORT**
One Stage Procedure
- CLINICAL DATA**
Scientific update on
Fixture SL
- CASE REPORT**
Soft Tissue Sculpture
- CALENDAR OF EVENTS**

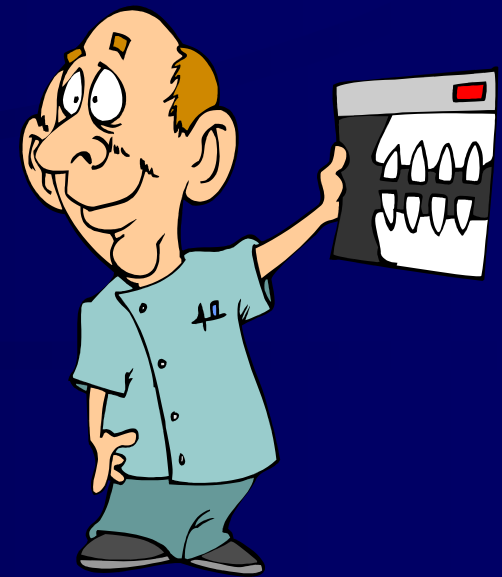
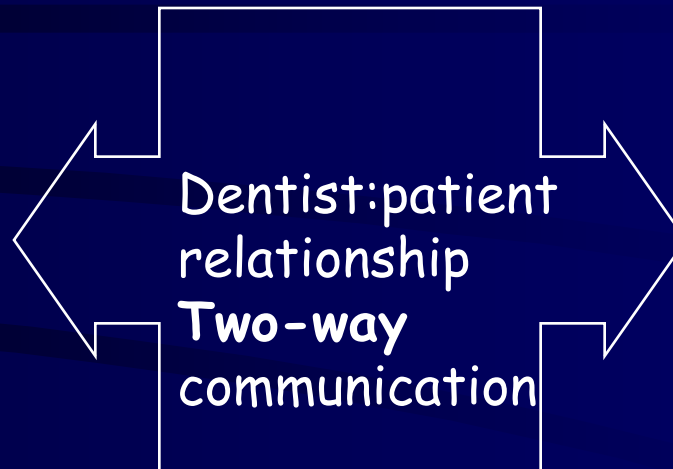


DIPNOVA

Correct treatment...

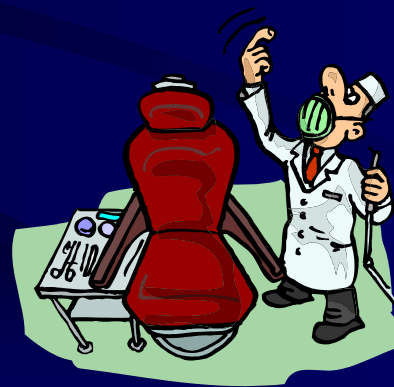
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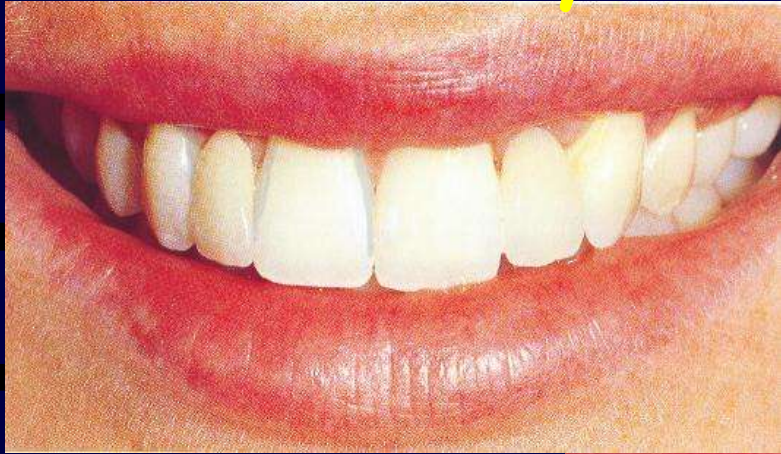


Clinical knowledge

- alternative treatments versus no treatment
- Biologic costs
- Psychosocial costs



Reality can occasionally be -etch bridge



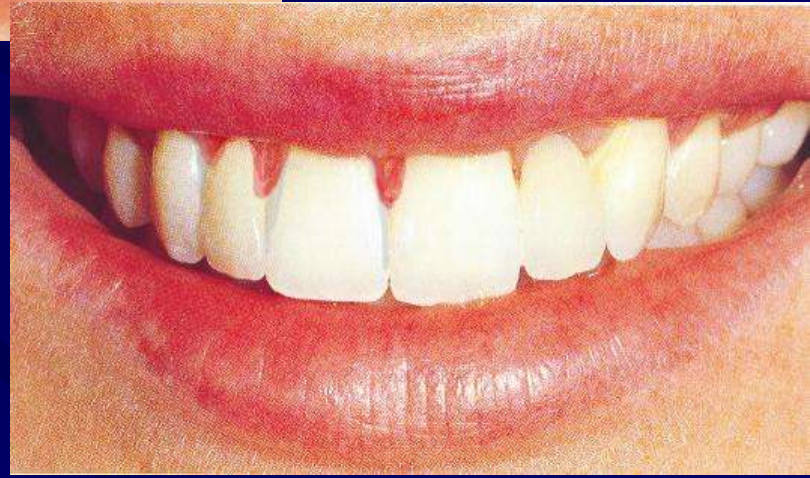
Perfect result%?

Grey tone %?

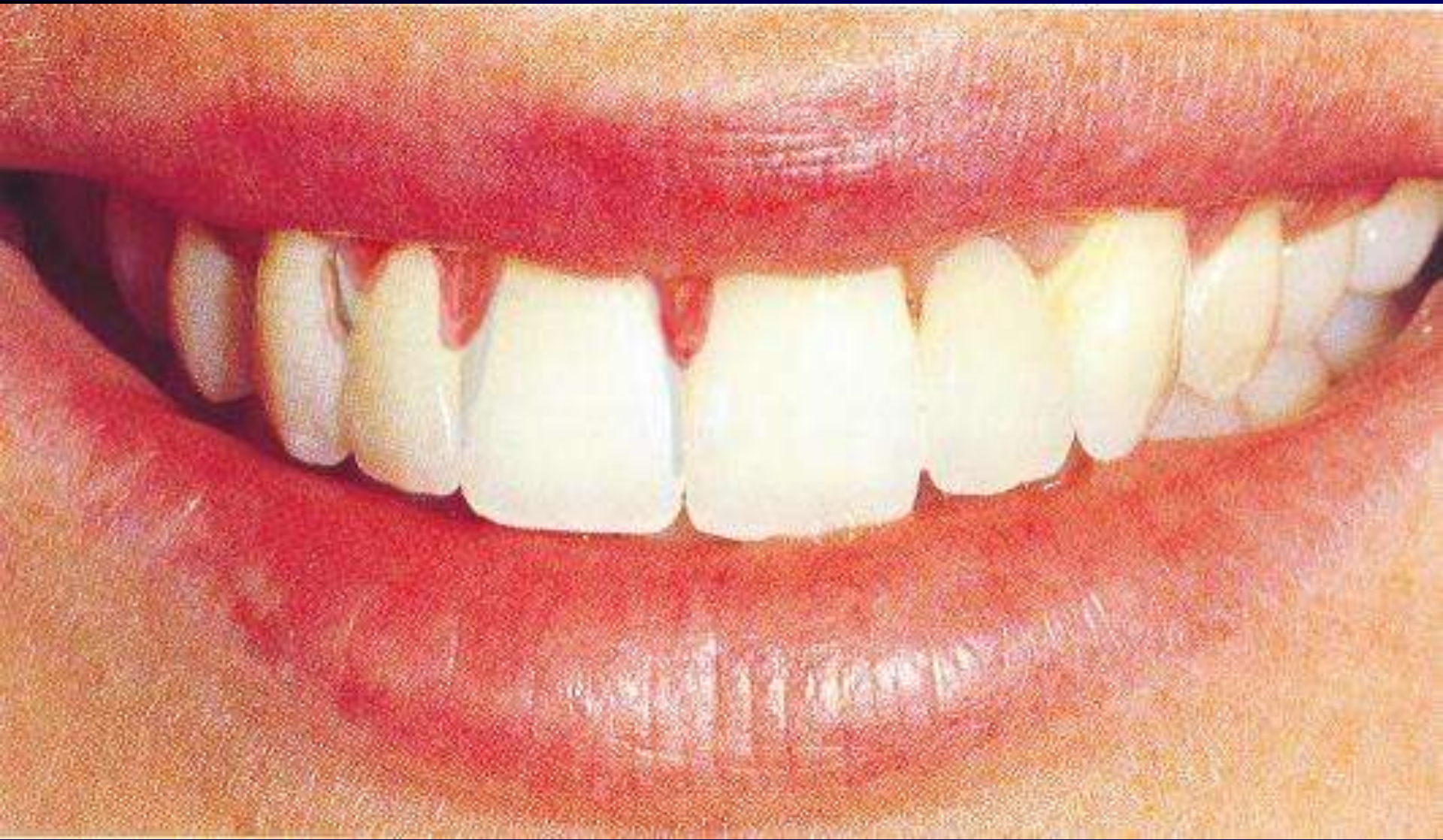


Opacity %?

Gingivitis %?



..and sooner or later



Loosening with or without secondary caries %?

Reality can occasionally be -bridge

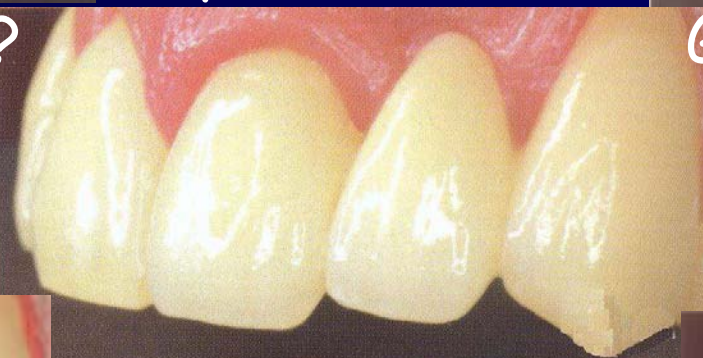


Perfect result %?



Gingival grey-tone %?

Ceramic fracture %?



Cervical retraction %?



Gingivitis %?



Secondary caries %?

Reality can occasionally be



Perfect
result %?



Exposed
fixture %?

Opacity due to
misalignment %?



Adjacent
necrosis %?

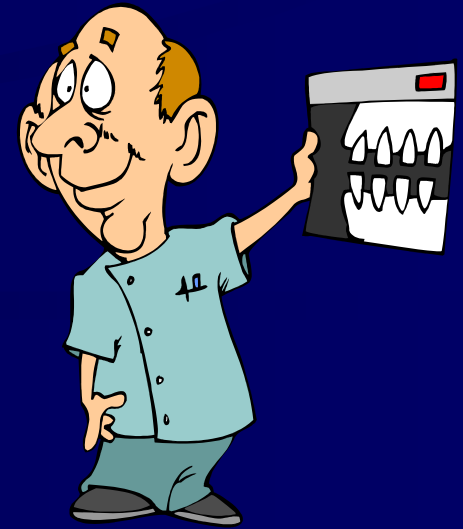
Gingival-
retraction %?



Correct treatment...

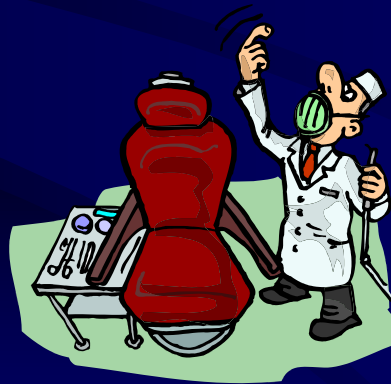
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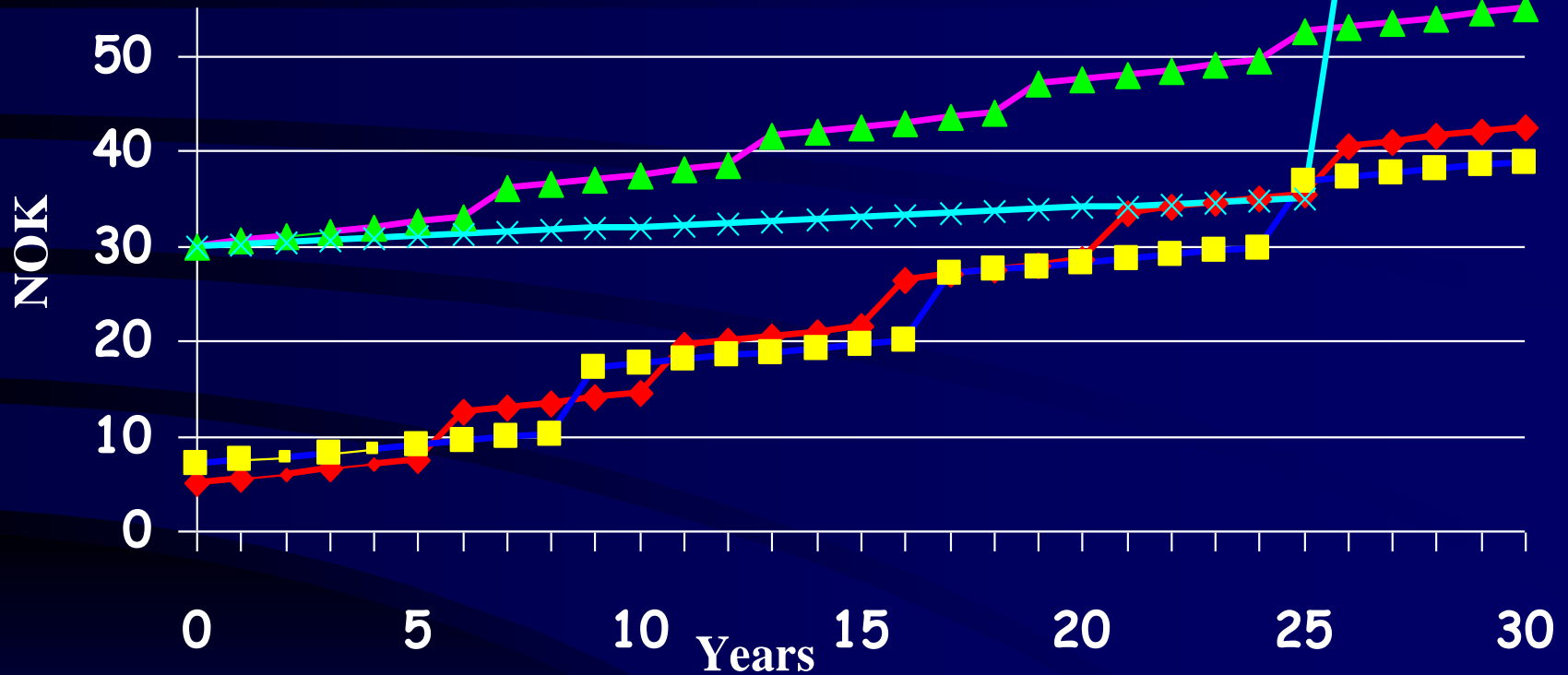


Clinical knowledge

- alternative treatments versus no treatment
- Biologic costs
- Psychosocial costs
- Economic costs
Fee / Prognosis



Costs



Inadequacies of model:

Costs are not adjusted for inflation

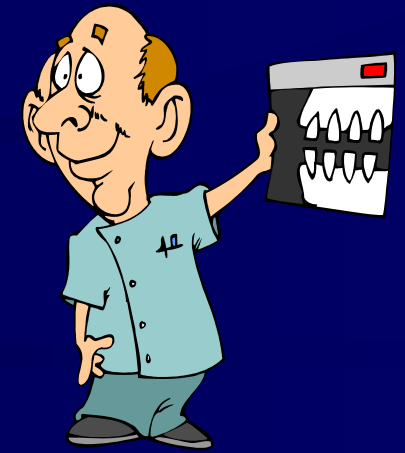
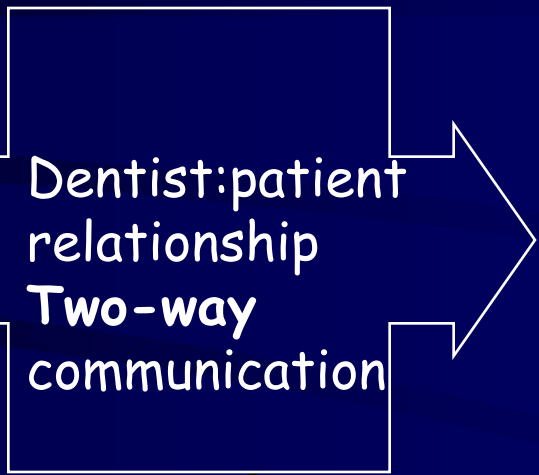
Replacement not always possible

Based on average data - not on individual practitioners'

Correct treatment...

...offer an effective treatment....

2. knowledge of effectiveness and consequences of alternative treatments



Clinical knowledge

- alternative treatments versus no treatment
- Biologic costs
- Psychosocial costs
- Economic costs
- Worst-case scenario



Worst case scenarios

How often do they occur in your practice?



Correct
treatment...
...for the right
patient....

3.ability to
communicate with
the patient and
empathy, as basis
for rational
strategies for
treatment

Dentist:patient
relationship
Two-way
communication

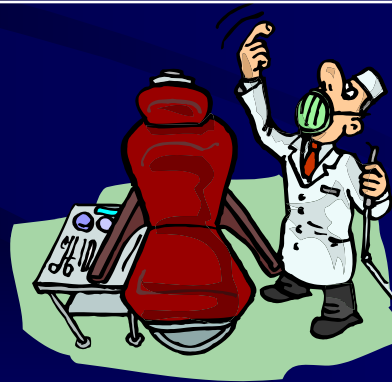
Empathy

Clinical skills

+

Clinical knowledge

- alternative treatments versus no treatment
- Biologic costs
- Psychosocial costs
- Economic costs
- Worst-case scenario



Is it probable that these patients will choose identical treatments?



Choice of therapy - preferences

Patients differ regarding views and choice of values.

Håkestam et al. 3 personality profiles
health - appearance - longevity

Lutz et al. : 5 personality profiles

Orally: functional -
presentable - healthy -
beautiful - metal-free



Choice of therapy - preferences

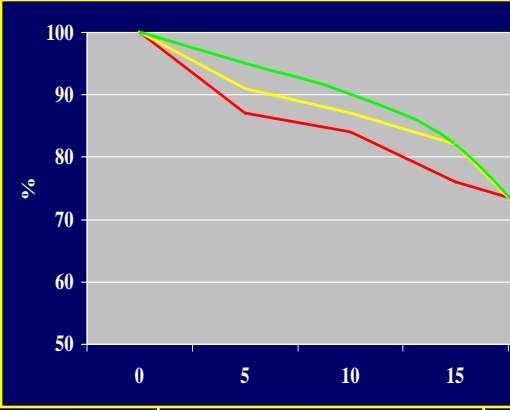
Reflected by statements on e.g.

- 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.



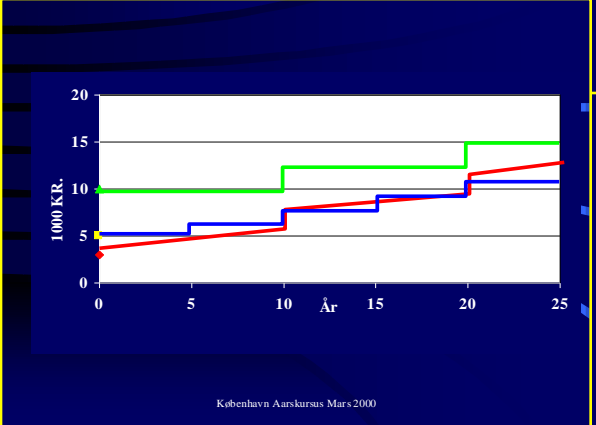
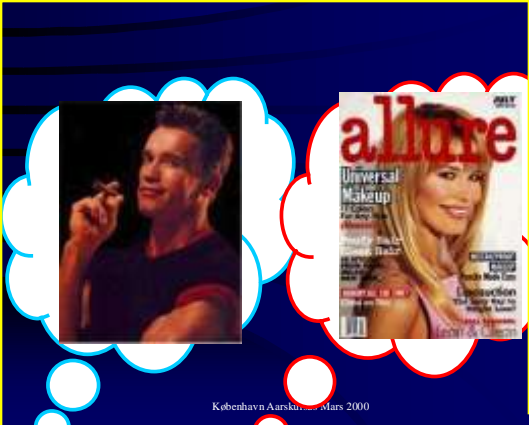
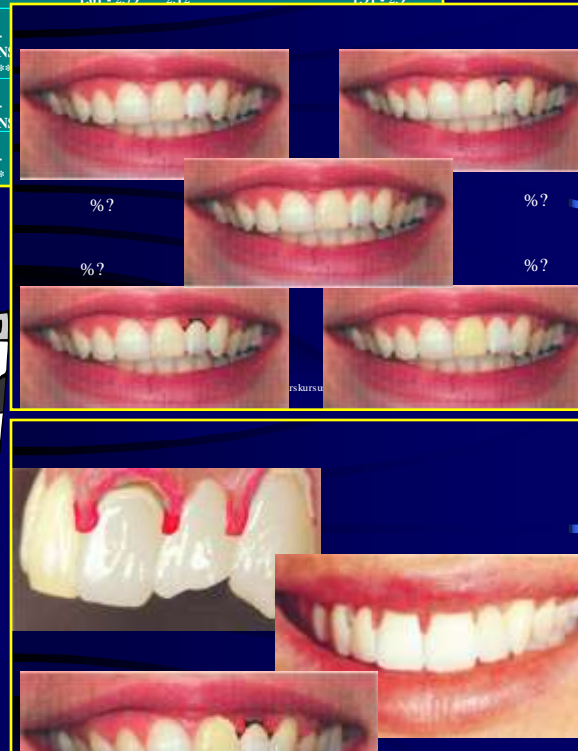
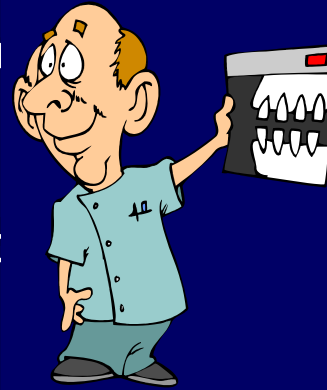
Correct treatment...
...for the right patient....

3. ability to communicate with the patient and empathy, as basis for rational strategies for treatment



Independent variables	Bi-variate odds ratios	Bivariate significance	95% Confidence intervals bivariate odds ratios	Multi-variate odds ratios	Multivariate significance	95% Confidence intervals for multivariate odds ratios
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Gender						
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Material						
Amalgam	-	-	-	-	-	-
Composites	1.12	N				
Glass ionom.	3.12	**				
Dentists						
#1	-	-	-	-	-	-
#2	1.34	N				
Location						
Mandible	-	-	-	-	-	-
Maxilla	1.55	*				

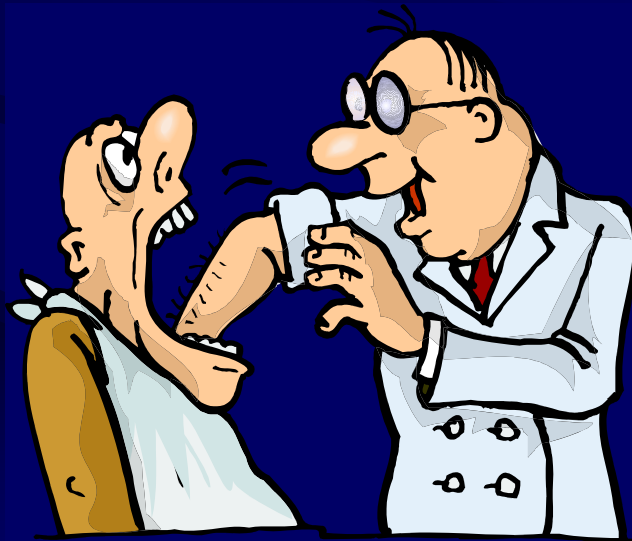
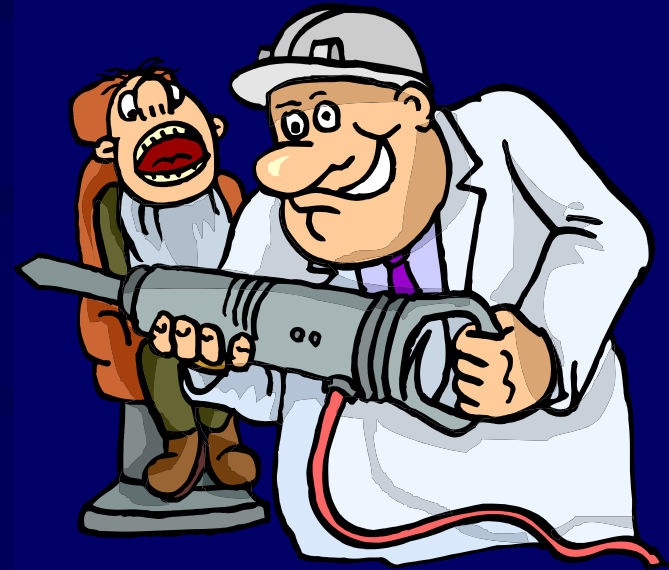
Dentist:patient relationship
Two-way communication



Correct
treatment...

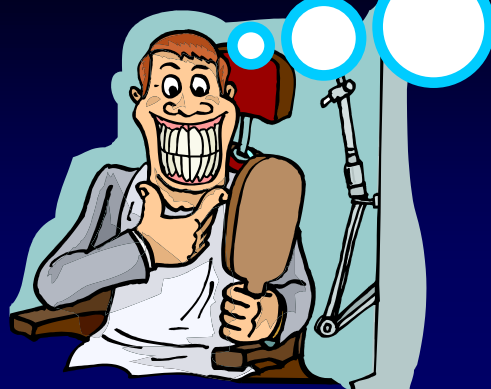
...carried out
correctly.....

4. a minimum
level of
technical-
manual skills
and clinical
experience

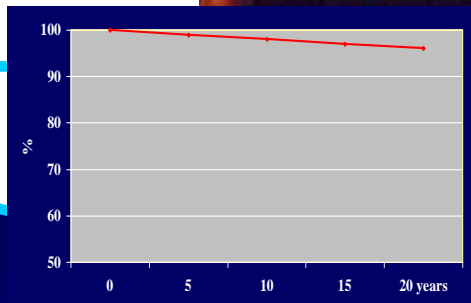


Correct treatment...

...and obtain the best possible result
5. the desire to prioritize the patient's preferences and - values when evaluating the treatment success



- Perceptive abilities
- Diagnostic abilities
- Empathy
- +
- Clinical skills
- +
- Clinical knowledge:
 - ☞ alternative treatments versus no treatment
 - ☞ Biologic costs
 - ☞ Economic costs
 - ☞ Psychosocial costs
 - ☞ Worst-case scenario



Take-home messages 1/2

- Two-way communication is critical
- Dentists and patients do not have similar evaluations of therapy
- Dentists and patients do not have similar appraisal of, and attitude towards risk
- Consequently, suggestions for treatments as well as descriptions of these must be based on the patient's wishes and values

Take-home messages 2/2

- Information on prognosis and treatment outcomes must be based on own clinical practice results and not on literature data.
- Do not offer patients glossy pictures
- All restorations will fail - sooner or later

*Is there such thing
as a correct therapy
in prosthodontics?*

Yes!

Correct therapy in prosthodontics

For the individual patient

- who is satisfied with the treatment
- that is given in a specific treatment situation and circumstances
- and is carried out in a way that causes more benefit than harm for this patient

Correct treatment is....

at the right time...

to offer an effective
treatment...

for the right patient...

carried out correctly...

and obtaining the best
possible result.



Thank you
for your
kind
attention