

Dr. Nikos Mattheos DDS, MASc, PhD



Lecture notes:

# Success and Failure in implant dentistry: through the eyes of the patient!.

- Patient Reported Outcomes/ Patient Reported Experience
- Patient Satisfaction and Psychological Traits
- Diagnosing and managing misperceptions and expectations

# Learning objectives:

What are the main determinants of patient satisfaction from Implant therapy and which psychological traits and conditions can interfere with our treatment?
How can PRO and PRE help us understand patient's needs and priorities and how to apply these in the case of edentulous patients who seek implant treatment?
How do patients develop expectations? What is the role of the social environment or internet in shaping their beliefs? Can we diagnose misperceptions and manage them properly prior to implant therapy?

Based on the presentations in Stockholm, Malmö in October 2022. The content of these notes is not self- explanatory and is not intended as an independent learning resource but rather a supplement to attending the seminars.





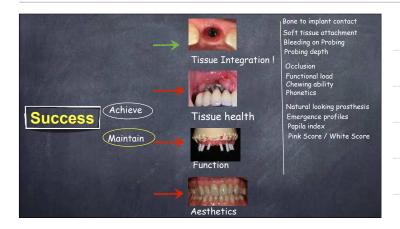
Dr. Nikos Mattheos DDS, MASc, PhD nikos@mattheos.net www.mattheos.net

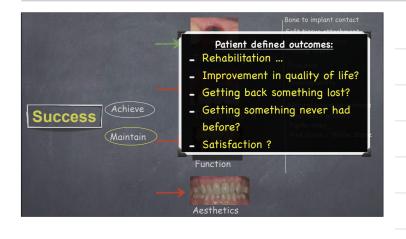




# Emergency room, 1.30 am











# Counterfactual thinking:

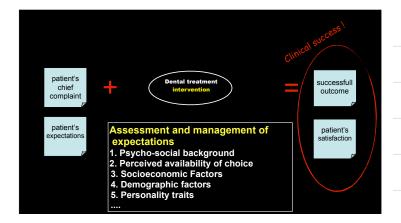
people's subjective responses to events are influenced by their thoughts on "what might have been".

"This might explain the often observed phenonenon in which people who are objectively better off nonetheless feel worse".



Medvec VH, Madey SF, Gilovich T. When less is more: counterfactual thinking and satisfaction among Olympic medalists. J Pers Soc Psychol. 1995 Oct;69(4):603-10.

in two olde Locker D, Gibso	r adult population			
	10% with	favourable oral health ratings : dissatisfie	d	
	50%	% with unfavourable ratings : satisfied		
	Туре:	Cross sectional survey with random sample		
	Sample:	225 + 541 (>50 yrs)		
	Instrument:	OHRQoL questionnaires Clinical examination		





Patient Reported Outcomes Patient Reported Experience



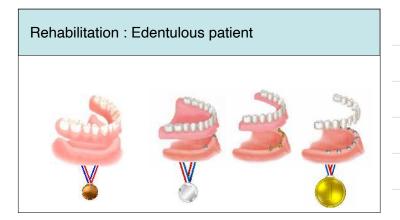
# Patient Reported Outcomes

# Patient Reported Experience

- Oral Health Related Quality of life (OHIP 49, 14, 20, edent)
   Oral Impact on daily performance Global Oral Satisfaction
   General Oral Health Assessment

- index
- Procedures Communication Trust Healing events:

- pain swelling bleeding discomfort painkiller consumption



implant pros Allen PF, Mc Mi	theses and comp	r of life outcomes in older adults requesting lete removable dentures. r;14(2):173-9.
	Туре:	Prospective clinical trial
	Sample:	103 edentoulous patients
	Instrument:	OHIP quationnaires
	L	
4 ar	oups:	
· ·	quested implants	– got implants
	quested dentures	•
	quested implants	-
d. Co	ntrol group – deni	tate subjects receiving other treatments
	5 1	, , ,

longitudinal study of quality of life outcomes in older adults requesting plant prostheses and complete removable dentures. en PF, Mc Millan A in Oral Implants Res. 2003 Apr;14(2):173-9.	
тотан ширалья кез. 2003 крг, 14(2). 173-э.	
4 groups:	
a. Requested implants _ got implants	



# Removable (IOD) - Fixed (IFCD)











Dr. Coral Yao HKU

Dr. Cong Cao CJF Hospital, Beijing

Prof. Bornstein HKU

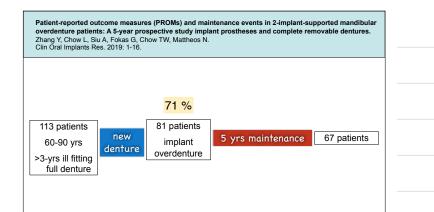
Dr. Mattheos HKU

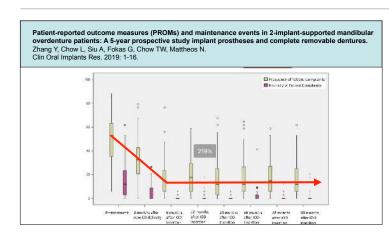
Comparing patient reported outcomes from edentulous patients with implant supported fixed and removable dental prosthesis. A systematic Review Yao J, Cong C, Bornstein M, Mattheos N. Clin Oral Impl Res. 2018

# 14 comparative studies:

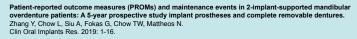
	FDP +	IOD +	No difference
Function	3/11		8/11
Phonetics		1/11	9/10
Aesthetics	1/7		6/7
Overal Satisfaction	4/9	1/9	4/9
Oral Hygiene		5/5	

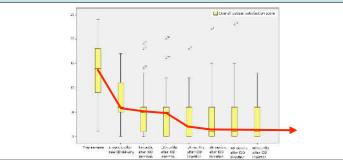
Oh et al. 2016 De Souza et al.2016 De kok et al.2011 Martinez et al.2013 Martun-Ares et al. 2015 Brennan et al. 2010 Katsoulis et al. 2011 Quirynen et al.2005 Zitzmann et al. 2000 Heydecke et al. 2003/2004 De Grandmom et al. 1994 Feine et al. 1994



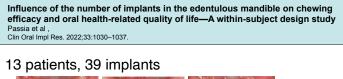




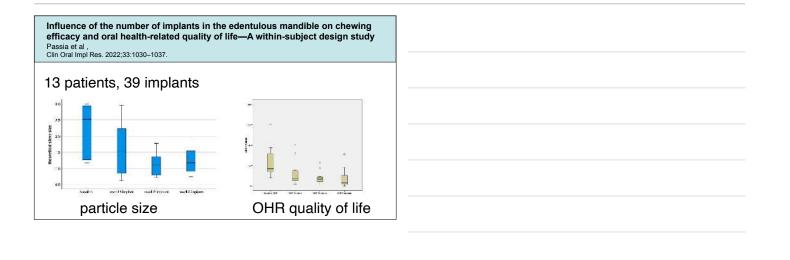














# Patient-centred implant dentistry: Checkpoint !

Patients' satisfaction with the treatment does not only depend on the clinical outcomes of our treatment.

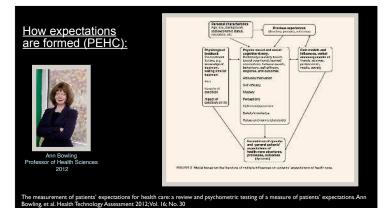
Patient's expectations, perceptions and psychosocial background seriously affect their final satisfaction with rehabilitation.

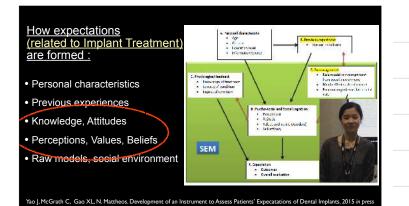
A complete assessment of patient expectations and psychosocial background is neccesary procedure.

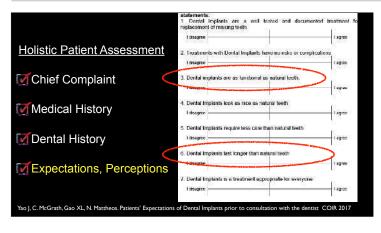
















 Definition

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# 34 fields:

✓demographics

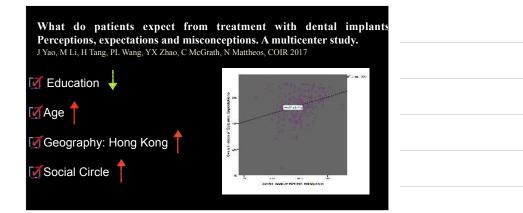
√attitudes / perceptions

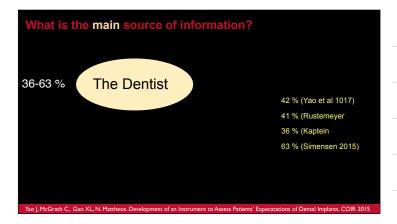
 $\checkmark$ expectations

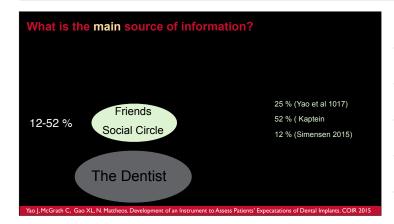


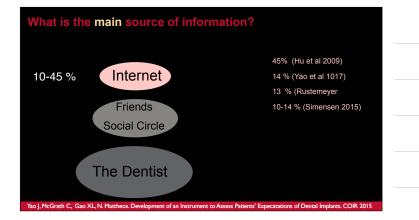
What do patients expect from treatment with dental Perceptions, expectations and misconceptions. A multicenter st	1
J Yao, M Li, H Tang, PL Wang, YX Zhao, C McGrath, N Mattheos, COIR 2017	Agreed
Dental Implants Require less care than natural teeth"	35 %
	37.5 %
Treatments with Dental Implants have no risks or	47 %
complications	7
"Dental Implants are as functional as natural teeth"	48 %











# 1

Novelty





Highly successful and aesthetically pleasant

Younger



Body parts focus

018:



# The Unhappy Patient:

Body Dysmorphic Disorder

Comorbid conditions: -Depression -Substance misuse -Social phobia -OCD - Suicidality very high - Delusions

The Unhappy Patient , EAO 2022 Gene



Body Dysmorphic Disorder

How do you recognize BDD? -Awareness!

The Unhappy Patient , EAO 2022 (

 Awateriess:

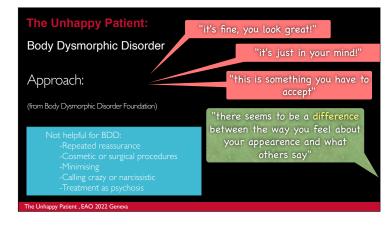
 - Do you feel concerned about your appearance?

 -How much time do you spend worrying?

 -How have you been affected?

 - Questionnaires





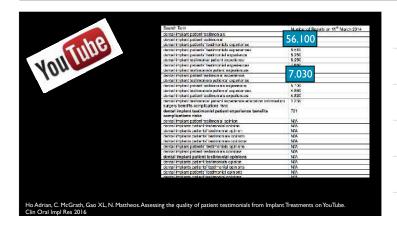


YOUTUBE PATIENT TESTIMONIALS IN IMPLANT DENTISTRY: INFORMATION OR MISINFORMATION?



### A.\*

- To determine the educational value of YouTube patient testimonials on Implant Dentistry
- To investigate their potential for misleading statements
- To provide patients and clinicians with salient advice on the topic





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• 30 fields

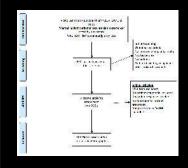
## Naterial and Methods

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Advantage 

- 30 informative points (presence)
- misleading points
- emerging themes, production characteristics,

### Material and Method

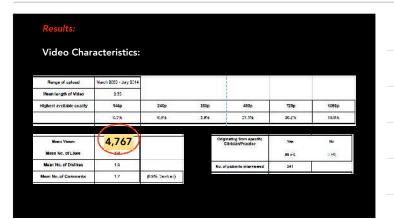


# Systematic Review Methodology

Inclusion - Exclusion Criteria Sorted by "Relevance" Sampling consecutive videos URLs saved matrix / production characteristics 4 calibrated examiners Conduct common set of 15 videos

## 270 videos







Top 3 Informative Categories:

- 1. Potential to improve aesthetics (54.1%)
- 2. Potential to improve function (37.6%)
- 3. Relative advantages/disadvantages of alternative options (18.3%)



	J Yao et al, COIR 2017 Pre-treatmen	P. Vipattanaporn et al, submitted 2018 Post-treatment (short term)
"""	35 %	18 %
ff "last longer than natural teeth"	37 %	35 %

# Implants last for a lifetime:

Hof, Markus,2012;	59%
Pommer, 2011;	24%
Tepper, 2003	34%
Johannsen, A. 2012	100%





## Altered expectations on dental implant therapy

15 patients diagnosed with Peri-implantitis:

Being referred to a periodontist and diagnosed with peri-implantitis • detecting problems - being referred to a specialist

diagnosis of peri-implantitis

- talking to others about dental/peri-implant problems and social support
- thoughts about reasons for dental/peri-implant problems and about previous dental treatment

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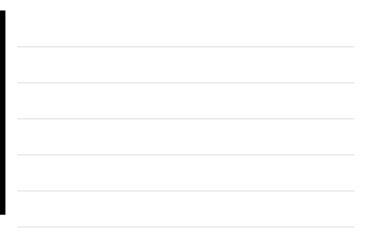
decisions

Abrahamsson KH, Wennstrom JL, Berglundh T, Abrahamsson I. Altered expectations on dental implant therapy; views of patients referred for treatment of peri-implantitis. Clin. Oral Impl. Res. 28, 2017, 437–442.

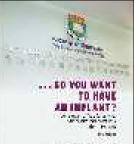


Abrahamsson KH, Wennstrom JL, Berglundh T, ABrahamsson I. Altered expectations on dental implant therapy; views of patients referred for treatment of peri-implantitis. Clin. Oral Impl. Res. 28, 2017, 437–442

	statements: 1 Dental Implants are a well tested and documented to replacement of missing teeth	eatmon
	l Chagree	l agree
Holistic Patient Assessment	2. Treatments with Dental Implants have no risks or complications	Barre
	1 desagree	1 agros
Chief Complaint	3. Dental implants are as functional as natural teeth.	Lagres
	<ol> <li>Dental implants look as nice as natural teeth</li> </ol>	9 <sup>38</sup>
Medical History	likagree	Lagree
	5. Dental Implants require less care than natural teeth	9) 17
🗹 Dental History	Lasagree	I agroc
	6. Dental Implants last longer than natural teeth	E2
Expectations, Perceptions	1 disagree	l agree
	7. Dental Implants is a treatment appropriate for everyone	172
	I disagnoe	l agroc







Reliable patient information

own material

• www.mattheos.net/resources



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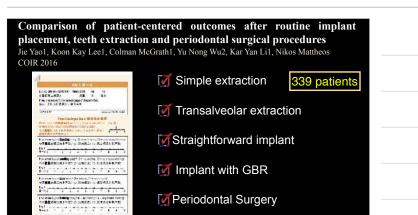


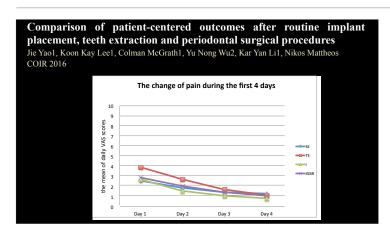


# "Will it hurt..?"

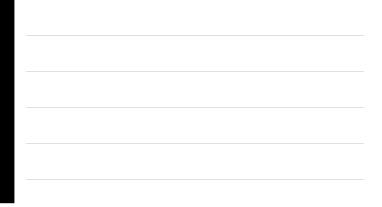
"You can expect mild pain for the first couple of days, which will be well controlled by over-the-counter painkillers"



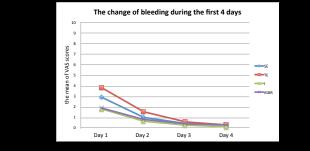


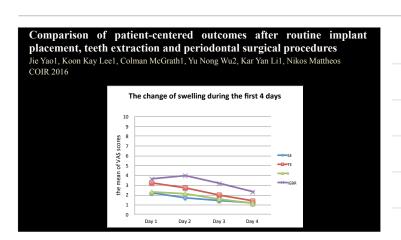


Use of NSAID (painkillers)					
	Day I	day 2	Day 3	Day 4	Day 5
Simple Extraction	40%	21%	11%	10%	5%
Implant	57%	34%	24%	20%	11%
GBR	*71%	*50%	*35%	27%	20%

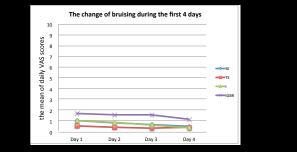


**Comparison of patient-centered outcomes after routine implant placement, teeth extraction and periodontal surgical procedures** Jie Yao1, Koon Kay Lee1, Colman McGrath1, Yu Nong Wu2, Kar Yan Li1, Nikos Mattheos COIR 2016





Comparison of patient-centered outcomes after routine implant placement, teeth extraction and periodontal surgical procedures Jie Yao1, Koon Kay Leel, Colman McGrath1, Yu Nong Wu2, Kar Yan Li1, Nikos Mattheos COIR 2016



# "Will it hurt.?"

'Most of our patients have experienced similar or less discomfort than from a simple extraction"

"half of our patients used painkillers the day after the surgery, only 1 out of 3 continued on the second day "

# Patient centred implant dentistry:

Patients come to us with a formed set of expectations often

including serious misperceptions

Ŧ

Diagnosing Expectations is a necessary part of patient assessment

Correcting misperceptions and communicating rehabilitation

outcomes is one of the modern therapeutical challenges

