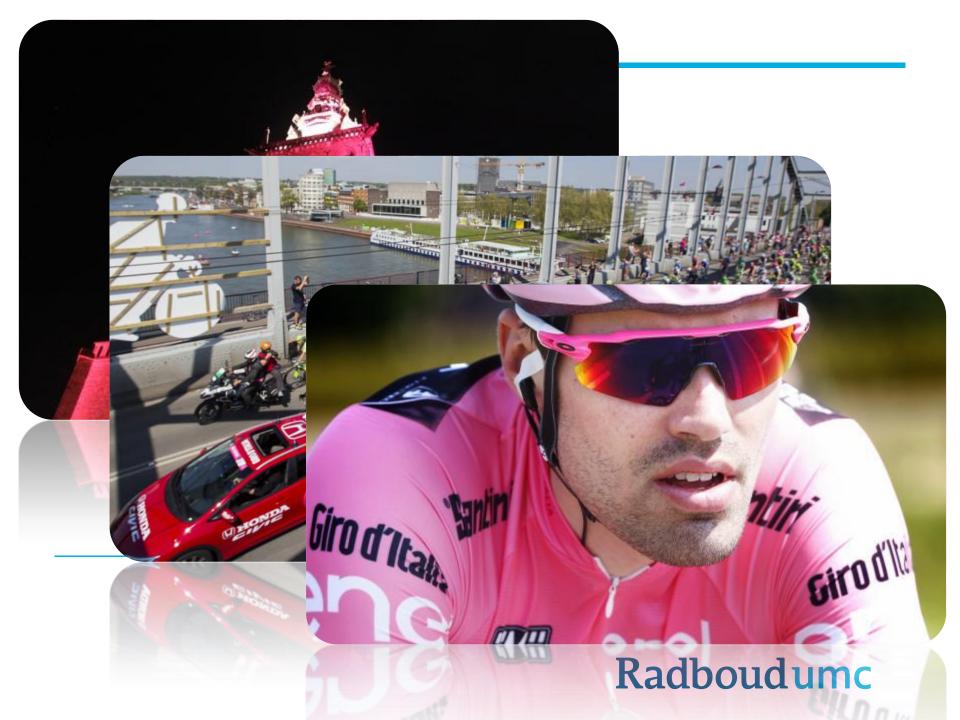
Satisfaction predictors for patients seeking facial cosmetic surgery; a systematic review.

J. Herruer, J. Prins, N. van Heerbeek, G. Verhage-Damen, K. Ingels





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Introduction – The face

- Facial cosmetic surgery:
 - Popular
 - Improves quality of life

Introduction

- Negative predictors for satisfaction
 - Body dysmorfic disorder (BDD)

- Patient characteristics
 - Demografic
 - Psychosocial
- Familial or relational issues
- Expectations



Purpose of this review

- To define the negative predictors for satisfaction of facial cosmetic surgery
- To find out whether there are valid preoperative assessment instruments available to determine these factors



Methods

- Systematic review of medical literature on PubMed/Medline
- Cochrane library
- Relevant studies from reference lists
- Medical Subject Headings (MeSH) terms:
 - 'blepharoplasty'
 - 'rhinoplasty'
 - 'psychology'
 - 'personality'
 - 'self concept'
 - 'body image'
 - 'patient satisfaction'
 - 'quality of life'



Methods

- All factors described as a negative predictor for patient satisfaction after facial cosmetic surgery
- Possible questionnaires that best addressed these factors
 - Brief
 - Validated



• 27 articles included

- 11 prospective studies
- 2 retrospective studies
- 1 case study
- 8 reviews
- 5 expert opinions



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- 11 prospective studies
- 2 retrospective studies
- 1 case study \rightarrow excluded
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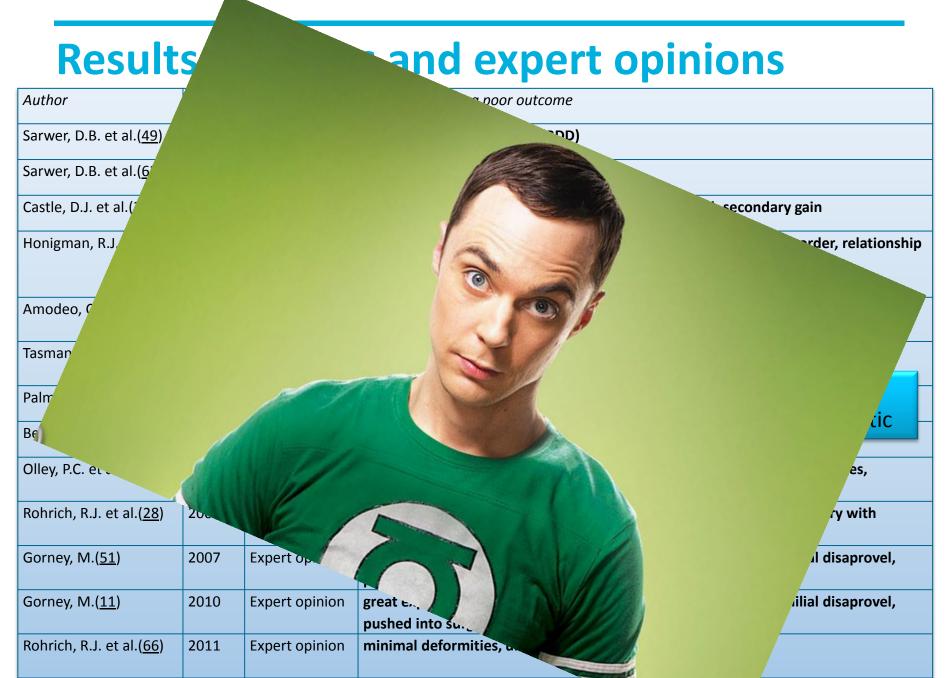
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Introduction – Purpose of this review – Methods – Results – Discussion – Conclusions



- Questionnaires
 - Minnesota Multiphasic Personality Inventory
 - To exclude psychiatric disorders
 - Guilford-Zimmerman Temperament Survey
 - Measures personality characteristics
 - 300 items (30-60 min)
 - Tennessee Department of Mental Health self concept scale
 - 100 items
 - Validity seriously questioned in several studies



Discussion

Author	Vear Study type			Factors predicting poor outcome		
Author	Author	Year	Study type	Factors predicting poor outcome		
Meyer E. et al	Sarwer, D.B. et al.(<u>49</u>)	1998	Review	Body Dismorphic Disorder (BDD)		
Edgerton M.T.	Sarwer, D.B. et al.(<u>63</u>)	1998	Review	n.s.		
Jacobson, W.E	Castle, D.J. et al.(<u>2</u>)	2002	Review	male gender, young age, unrealistic expectations with secondary gain		
Hay G.G. et al	Honigman, R.J. et al.(<u>3</u>)	2004	Review	male gender, young age, depression, anxiety, BDD, personality disorder, relationship issues, unrealistic expectations, minimal deformity, previous surgery with unsatisfactory outcome.		
Wright, M.R. (Amodeo, C.A.(<u>37</u>)	2007	Review	depressed patients, obsessive patients, uncooperative patients, unrealistic expectations		
Goin M.K. et a	Tasman A.J. (<u>35</u>)	2010	Review	SIMON, personality disorder, unrealistic expectations, demanding patients, surgiholics		
Last, U. et al.(Palma, P. et al.(<u>64</u>)	2011	Review	SIMON		
Goin M.K. et a	Belli,H. et al.(<u>65</u>)	2012	Review	SIMON, personality disorder		
Ercolani, M. e Napoleon et a	Olley, P.C. et al.(<u>34</u>)	1974	Expert opinion	previous cosmetic surgery with unsatisfactory outcome, relationship issues, unrealistic expectations with secondary gain.		
Napoleon et a	Rohrich, R.J. et al.(<u>28</u>)	2003	Expert opinion	minimal deformities, unrealistic expectations, previous cosmetic surgery with unsatisfactory		
Zojaji, R et al.				outcome		
Slator, R.et al.	Gorney, M.(<u>51</u>)	2007	Expert opinion	great expectations, demanding patient, surgiholic, marital or familial disaprovel, pushed into		
Guyuron, B. e				surgery, incompatibility, BDD.		
Knorr N. et al.	Gorney, M.(<u>11</u>)	2010	Expert opinion	great expectations, demanding patient, surgiholic, marital or familial disaprovel, pushed into surgery, incompatibility, BDD.		
	Rohrich, R.J. et al.(<u>66</u>)	2011	Expert opinion	minimal deformities, unrealistic expectations		

Discussion

• Studies use various terms to address similar aspects

demanding patients and patients unsatisfied after multiple previous surgeries

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patients with unrealistic expectations concerning the surgical possibilities

- We tried to conjoin the similar aspects
- 7 final aspects were acknowledged that are described in at least 2 studies
- **1**. Males (9)
- **2.** Young age (7)
- **3.** Unrealistic expectations concerning the surgical result (10)
- 4. Unrealistic expectations concerning secondary gain (6)
- 5. Minimal deformities (5)
- 6. Narcissistic personality (2)
- 7. Obsessive personality (2)



Discussion

- We need:
 - a pre-operative questionnaire to measure patients expectations concerning the surgical and social outcome
 - a post-operative questionnaire to determine whether or not the expectations were fulfilled
- Remarkable:
 - Most of the studies on this subject are outdated
 - Quality of life and patient satisfaction have become essential outcomes by which the effect of surgery is determined in medicine today...



Conclusions

- Indication of seven negative predictors for satisfaction after facial cosmetic surgery
 - Males
 - Young age
 - Unrealistic expectations concerning the surgical result
 - Unrealistic expectations concerning secondary gain
 - Minimal deformities
 - Narcissistic personality
 - Obsessive personality

• A suitable validated questionnaire is still lacking



Conclusions

- Further research is ongoing:
 - Development of a brief instrument
 - Recognition of the 7 factors
 - Currently started with a pilot study
 - To be continued...

Reference:

Negative predictors for satisfaction in patients seeking facial cosmetic surgery; a systematic review.

Herruer, J.M. et al: scheduled for publication in the June 2015 issue of Plastic and Reconstructive Surgery



