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Quality of life in grown-ups with congenital heart defects

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Quality of life in ACHD: literature review

Conclusions: A poor conceptual and methodological basis for quality of life implies that many results from qualityof-life studies performed in patients with congenital heart disease contribute little to the scientific knowledge base of quality of life in this patient population. Future quality of-life studies need to invest in a rigorous conceptualization, an adequate operational definition, and a sound measurement of quality of life.

Arch Pediatr Adolesc Med, 2004

Quality of life in ACHD: literature review

- Review criteria (Gill & Feinstein, 1994)
 - 1. Conceptual definition of Qol 1% 24% 2. Stating explicitly the domains measured as components of Qol 3. Reason for choosing the instruments used 3% 4. Aggregation of information into a single index 31% 5. Could patients give their own rating for global Qol 1% 6. Was overall Qol distinguished from health-related Qol 1% 7. Could patients supplement items listed in instruments 0% 8. If so, were supplemental items incorporated in final rating n.a. 9. Could patients indicate personal importance of items 4% 100% 10. If so, was rated importance incorporated into final rating Arch Pediatr Adolesc Med, 2004

Some quality-of-life studies in ACHD

1st Author	Year	Severity	n Results
Fekkes	2000	mild	94 with social restrictions = without social restrictions 7
Meijboom	1993	mild	104 =
Meijboom	1994	mild	109 =
Gersony	1993	moderate	1681 =
Meijboom	1995	moderate	77 =
Meijboom	1996	severe	58 =
Saliba	2001	severe	67 =
Kamphuis	2002	severe	78 🎽 phys. funct. & gen. health
Simko	2000	mix	124 =
Greenwood	2000	mix	80 functional status life satisfaction =
Lane	2002	mix	276 surg.palliated + medical = surg. cured + corrected + inoperable ♥

Some quality-of-life studies in ACHD

· Quality of life is most frequently defined in terms of functional status





Conceptual definition Quality of life is "the degree of overall life satisfaction that is positively or negatively influenced by an individual's perception of certain aspects of life that are important to them, including matters both related and unrelated to health."

Moons, Eur Heart J, 2005

Quality of life as life satisfaction

Concept analyses

Quality of life ought to be defined in terms of 'life satisfaction' (Meeberg, 1993; Zhan, 1992; Ferrans, 1990)

 Structural equation modelling Quality of life is a global, yet unidimensional, subjective assessment of one's satisfaction with life (Beckie & Hayduk, 1997)

Potential reasons for better quality of life in ACHD

- Disability paradox
- Response shift
- Sense of coherence

Disability paradox

Good quality of life is associated with:

- if they acknowledge their impairment;
- if they preserve control over their body, mind, and lives;
- if they remain able to perform expected roles;
- if they feel satisfied when comparing their self and
- · capabilities with the conditions of others in similar
- situations.

Poor quality of life is associated with:

- having pain;
- experiencing frequent or continued fatigue;
- losing control over one's body functions

Response shift

Definition:

- The change in the meaning of one's self-evaluation of a target construct as a result of a change in internal standards and values, or a redefinition of the target construct.
- Explanation
- It is possible that patients who grew up with congenital heart disease have developed internal values that are substantially different from those of healthy persons.

Sense of coherence

Definition:

 A measure of an individual's world view, which is enhanced by a feeling of high comprehensibility, manageability, and meaningfulness. **EUVEN**

Explanation

- Growing up with congenital heart disease and its consequences may have positively influenced the development of sense of coherence, because patients have learnt to cope with their disease (manageability) and having had a heart operation often has a high existential meaning (meaningfulness).
- Because sense of coherence is strongly, positively associated with life satisfaction and quality of life, this may explain the better quality of life in our patients.

ense of coherence		Sense of coherence
Cantadage in the Young (2010), 20, 338-546 © Canbondon Sol doc 10 10 10 10 10 10 10 10 10 10 10 10 10	thiry Press, 2010	Conclusion: • Sense of coherence was higher in students with congenital heart disease than in healthy students.
Nio, Cardiol You	ing 2010	Nio, Cardiol Young



Sense of coherence

Conclusion:

Sense of coherence is an independent predictor of QOL in adolescents with CHD

Neuner et al., J Dev Behav Pediatr, 2011







Sense of coherence

Conclusions

- Adults with congenital heart disease have an enhanced SOC.
- SOC is moderately correlated with quality of life, and seems to be a stronger predictor of health-related life quality than exercise capacity.
- SOC might explain the rather good quality of life in patients with CHD despite their reduction in exercise capacity

Muller et al., Eur J Prevent Cardiol, 2013

Conclusions

- Quality of life of persons with CHD can be better than that of healthy individuals
 - If QOL is defined in terms of life satisfaction

Conclusions

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 Quality of life of persons with CHD can be better than that of healthy individuals
If QOL is defined in terms of life satisfaction Quality of life of persons with CHD is likely to be equal or lower than that of healthy individuals
If QOL is defined in terms of functional status



