Quality of life in childhood epilepsy

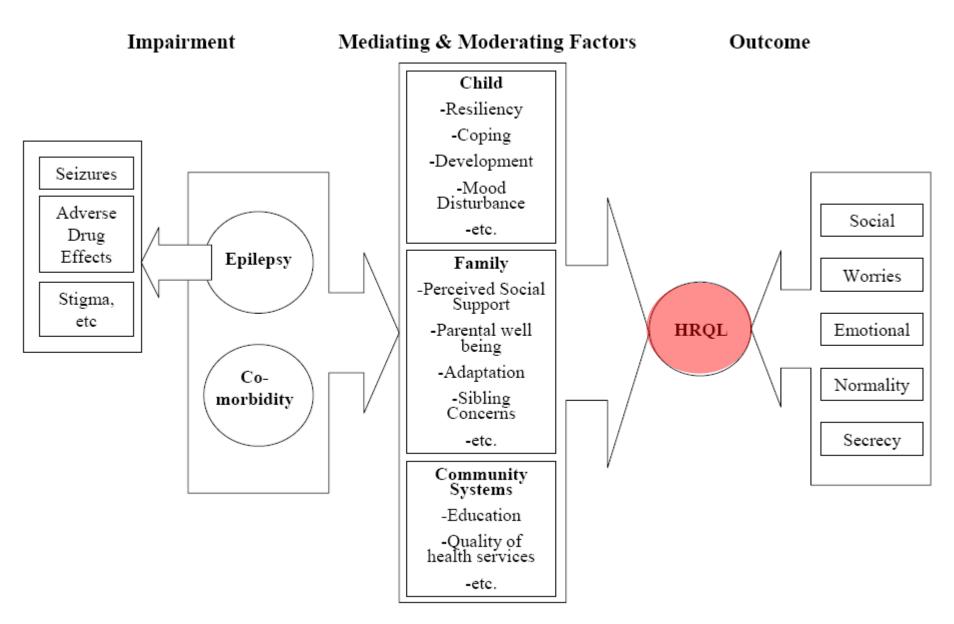
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Quality of life determinants in epilepsy

- Seizures and syndromes
- Side effects of treatment
- Co-morbidities :

behavioural and psychiatric problems

- Cognitive and learning problems
- Everyday life 'adjustments', activities in daily life



Ronen GM et al, 2003



Available online at www.sciencedirect.com



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Perceived impact of epilepsy in teenagers and young adults: An international survey

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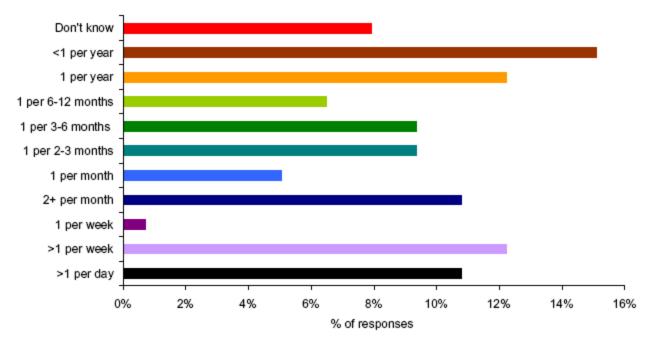


Fig. 1. Distribution of seizure frequency as reported by children and teenagers.

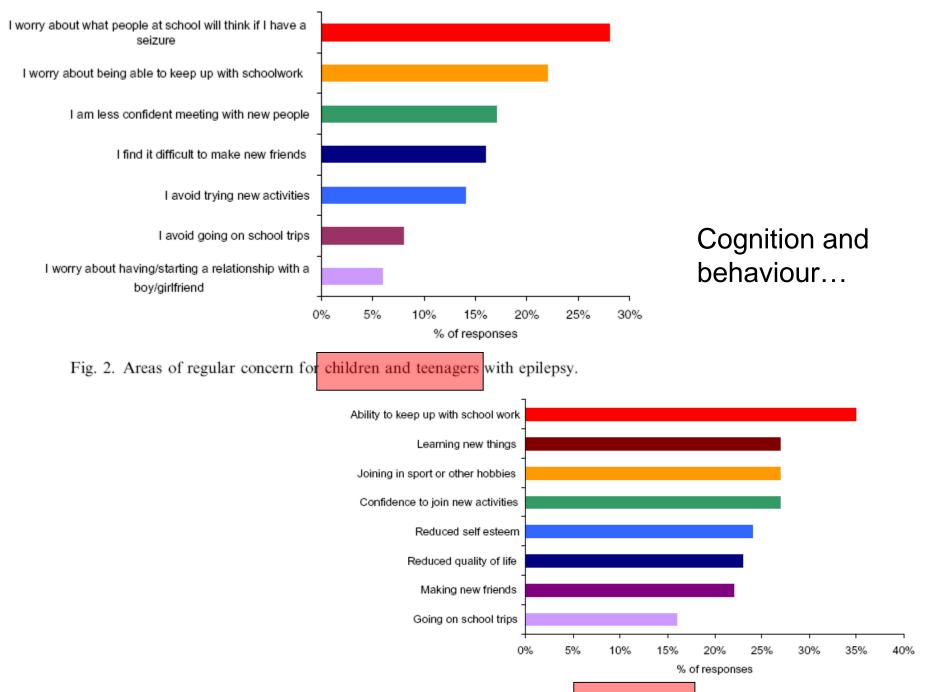


Fig. 4. Areas of regular concern for parents/caregivers of children/teenagers with epilepsy.

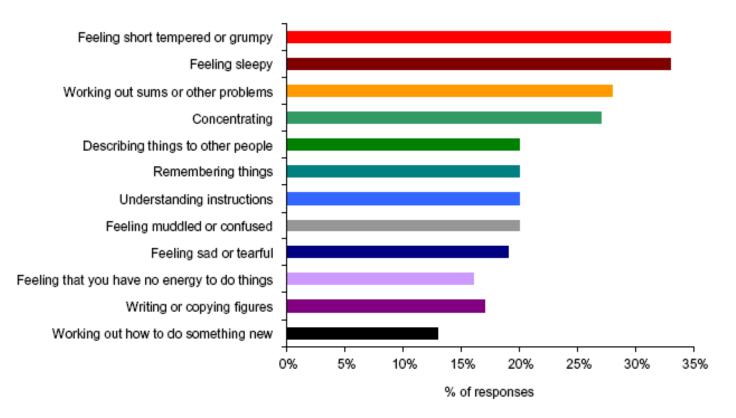


Fig. 3. Common problems reported by children and teenagers with epilepsy.

The Hague Side effect Scale

TOP 20 QOL

Item	Number (%) of 108 children reported to have a mild to very serious problem
1. Drowsiness/sleepiness	47 (44%)
2. Dizziness	16 (15%)
Uncertainty when walking	13 (12%)
4. Falling	10 (9%)
5. Sickness	19 (18%)
Difficulty with defecation	18 (17%)
7. Diarrhea	11 (10%)
8. Shaking, trembling	16 (15%)
9. Speech difficulties	14 (13%)
10. Double or blurred vision	9 (8%)
11. Headache	40 (37%)
12. Fatigue	55 (51%)
13. Loss of appetite	28 (26%)
14. Depression	15 (14%)
15. Hyperactivity	32 (30%)
16. Temper tantrums, aggression	37 (34%)
17. Slowness	49 (45%)
18. Poorer school results	39 (36%)
19. Decreased concentration	51 (47%)
20. Behavioral disturbance	25 (23%)

Parental reporting

Children 4-16 years

Epilepsy > 1 year

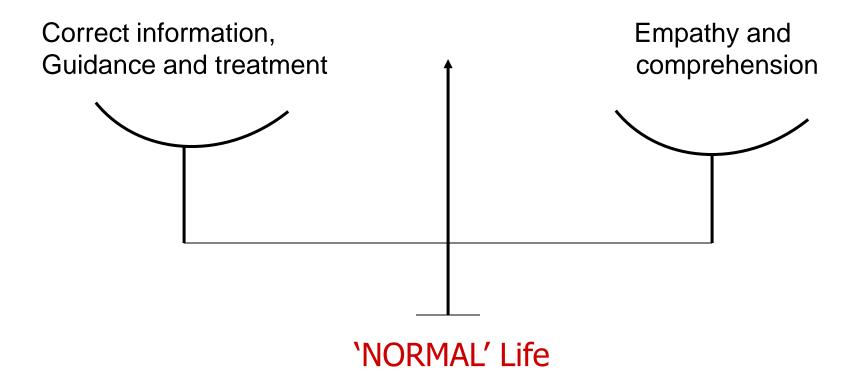
Not seizure free

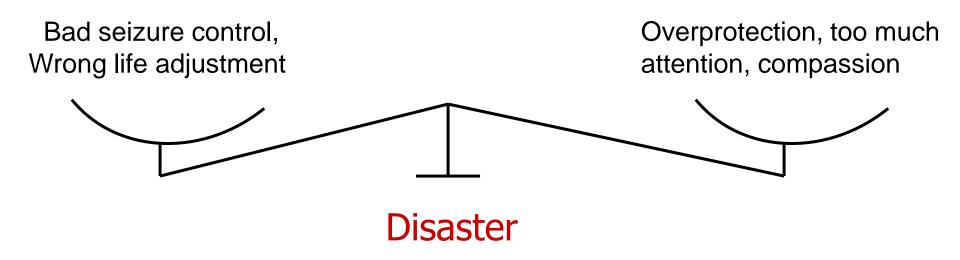
Correlation of score on the HASES with clinical variables in univariate analysis and stepwise multiple linear regression $(N = 108)^{a}$

	Univariate		Multiple	
	rs	Р	regression P	
AED load (PDD/ADD)	0.12	0.21	0.60	
Number of AEDs	0.23	0.16	0.11	
Duration of epilepsy	0.18	0.07	0.33	
Seizure severity	0.30	0.005	<0.001	
Restrictions	0.34	< 0.001	0.23	
Number of seizures last year	0.25	0.01	0.27	
Number of seizures last month	0.23	0.02	< 0.001	

^a r_s , Spearman correlation coefficient; PDD, prescribed daily dosage; ADD, average daily dosage of an antiepileptic drug in the study group (in mg/kg).

Reported side effects are related to seizure frequency





1. Information

- School and teacher should know about the epilepsy
- Explain type and normal frequency of the seizures.
- Explain the provoking factors (believe the parents...)
- Discuss emergency treatment (benzodiazepines)
- Explain that the child might be absent because of seizures
- Discuss exams after convulsive seizures

2. Adjustments in the classroom

- What is the best school for the child?
 Epilepsy should not be a reason to refuse children in school
- Not always necessary to put the child 'in focus'
- When attentional problems or learning problems are present
 - Extra remedial teaching
 - Seat in front of the teacher
 - Discuss medication

3. Sports

In well controlled epilepsy:

swimming allowed with extra supervision

Cycling on the street allowed with extra supervision

Other sports allowed with extra supervision

- Age important factor

- Type of epilepsy : generalized versus partial with aura

4. Camps / trips

Because of important social peer contacts, the child with epilepsy should participate !

Be aware

- Compliance medication
- Emergency medication
- Excitement, stress and less sleep can provoke seizures
- Identify local medical service

5. Night supervision

- ? SUDEP
- No reliable system available
- Infants with impact of seizures on cardiovascular and respiratory system
- High nr of e-children sleeping in bedroom of parents