Cotswold Community Study

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April 2007

The effect of a long chain polyunsaturated fatty acid supplement on boys with severe behaviour and emotional problems



Participants

- 19 boys at the Cotswold Community
- Age 8-16y, mean 12.6y (SD2)
- 1 boy was receiving medication for ADHD (methyl phenidate)
- 1 boy refused to take the supplement
- 1 boy consent to take the supplement was withheld



Assessments

- Conners' Parent rating scale
- Conners' Teacher rating scale
- Routine data collected on incidents, restraints and restraint duration



Study Design

- 11 weeks baseline/ 1 set of Conners' rating scales
- 20 weeks supplementation at end 1 set of Conners' rating scales
- Continuous record of incidents, restraints and grade of restraints throughout baseline and supplementation.



Daily nutrient supply from supplement (Efalex)

- 480mg DHA
- 108mg EPA
- 96mg GLA
- 36mg AA
- 30mg vitamin E

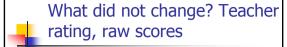


What changed? Teacher rating % improvement, raw scores

Subscale	% change	P value
Oppositional	26	<0.006
Cognitive problems/ inattention	22	<0.002
Hyperactivity	32	<0.001
Social problems	35	<0.001



Global Scale	% change	P value
ADHD Index	26	<0.001
CGI restless impulsive	29	<0.001
Global Total	20	<0.004



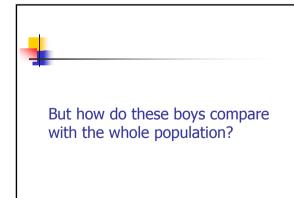
- Anxious/shy
- Perfectionism
- CGI emotional lability

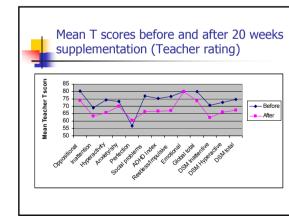


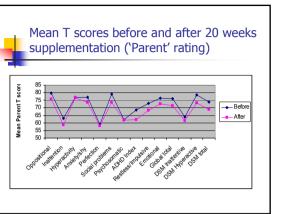
- 70+ markedly atypical, significant problem
 - 66-70 moderately atypical, significant problem
 - 61-65 mildly atypical, possible significant problem
 - 56-60 slightly atypical, raise concern
 - 45-55 average should not raise concern

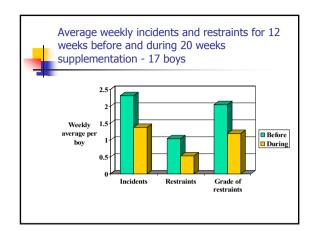
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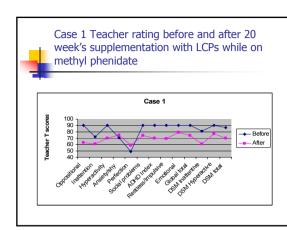
DSM-IV Global Scale	% change	P value		
Inattentive	27	<0.001		
Hyperactive- impulsive	25	<0.001		
Total	26	<0.001		





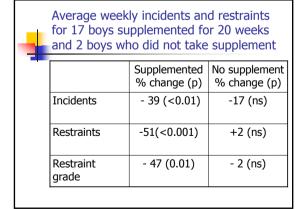


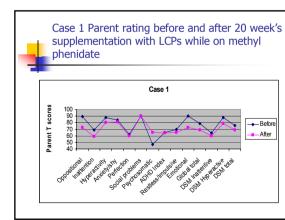


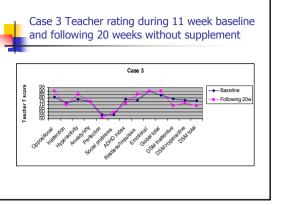


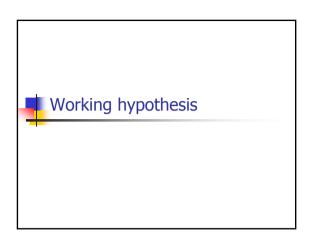
Changes in routinely collected data

Incidents, restraints and grades of restraints











Supplementation improved scores for social problems and ADHD behaviours, some boys moved from significant problems to population averages

