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Factors Contributing to Weight-Gain in Pediatric Psychiatric Patients: An Integrative Literature Review

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Factors Contributing to Weight-Gain in Pediatric Psychiatric Patients
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BACKGROUND & SIGNIFICANCE

ONE OUT OF THREE
CHILDREN IN THE UNITED STATES IS OVERWEIGHT OR OBESE1

Young psychiatric patients are more likely to be overweight or obese. Weight gain during in-patient treatment often results in long-term increases in weight resulting in a shorter life expectancy, type-2 diabetes, cardiovascular disease, hypertension, cancer and metabolic syndrome.2-4

PURPOSE

The aim of the integrative literature review is to identify factors contributing to weight gain in young psychiatric patients, especially during hospitalization, and to find effective interventions that promote healthy weight achievement.

RESEARCH QUESTIONS

1. What factors lead to weight gain in pediatric psychiatric patients?  
2. Can any of these factors be modified to mitigate weight gain? If so, how?  
3. Which interventions are the most effective in controlling weight gain in youths with severe mental illness?

METHODOLOGY

RESEARCH TYPE: Integrative Literature Review
DATABASES SEARCHED: AccessMedicine, CINAHL, MedLine, ProQuest, PsycInfo, PubMed
SEARCH TERMS: weight gain and pediatric psychiatric

RESULTS

STUDY TYPES: qualitative improvement projects, naturalistic longitudinal studies, historical perspective studies, literature reviews, Pharmacogenomics association studies, research trials, cross-sectional studies, retrospective data analysis, placebo controlled trials, non-randomized cohort studies, retrospective chart reviews, and naturalistic prospective cohort studies

21 STUDIES FOUND

DISCUSSION

CONTRIBUTING FACTORS

Pharmacological Treatment: Antidepressants and second-generation anti-psychotics (SGAs), particularly olanzapine.3-4 Anti-psychotic naïve patients and males treated with SGAs.3-4

Psychiatric Diagnosis: Any psychiatric diagnosis.4-5 Depression, especially in girls.4-5 Attention deficit hyperactivity disorder (ADHD).4-5

Environment & Lifestyle: Medicaid insurance, smoking, treatment with stimulants, antidepressants, and antipsychotics.4-5 Occurs more among non-Hispanic black and Hispanic children.4 Hospitalization, especially in males and those with normal weight at admission.4-5

MANAGEMENT & PREVENTION

Pharmacological: Discontinue treatment or switch to medication associated with less weight gain.5-6 Anti-obesity agents orlistat and sibutramine.7 Metformin, Vitamin D, and actinobacteria in the future.8-9

Pharmacogenomics: Developing research indicates personalized treatment centered around melanocortin 4 receptors, leptin, and cannabinoid-1 receptors may be viable in the future.10-11

Non-pharmacological: Cognitive behavioral therapy and/or educational interventions focused on diet, activity, stress management and motivation.12-13

CONCLUSION

Weight-gain during psychiatric hospitalization occurs as a result of pharmacological treatment, psychiatric diagnosis, and in conjunction with certain lifestyle and environmental factors.

Males and those with normal weight upon admission are particularly vulnerable to weight gain during treatment in a psychiatric facility.

Management of weight could be achieved by pairing cognitive-behavioral therapy with educational sessions on diet, activity, motivation, and stress management.

Psychiatric institutions can facilitate weight control by providing healthy, kid-friendly menu options combined with educational interventions, especially those aimed at portion control.

NURSING IMPLICATIONS

Partner with patient in identification, prevention, and management of inappropriate weight gain.

Identify risk factors such as prescribed medications, type of insurance, and past weight and height assessments.

Advocate for consideration of an alternative treatment regime to minimize risks and enhance benefits.

Educate patients and families.

Design and implement programs aimed at preventing or reversing inappropriate weight gain.

References available upon request.