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Case report

Intellectual disability and bariatric surgery: a case study on optimization and outcome

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Bariatric surgery; Psychology; Intellectual disability; Developmental disability; Mental retardation; Risk; assessment

20 The 2008 AACE/ASMBS/TOS guidelines for bariatric surgery identify a lack of comprehension of risks, benefits, 22 expected outcomes, alternatives, and lifestyle changes 23 required with bariatric surgery as a contraindication [1] 24 and the updated 2013 guidelines focus on the need for 25 informed consent [2]. Such contraindications were also 26 noted, in part, by the National Institutes of Health consensus statement on weight loss surgery >20 years ago 28 stating that candidates should be "well-informed and motivated" [3]. Given that those with intellectual and/or 30 developmental disabilities may have difficulty achieving these goals, many programs do not consider such patients 32 surgical candidates. In a survey of present practices, 81.6% 33 of programs consider severe intellectual disability (Intelli-34 gence Quotient [IQ] < 50) to be a definite contraindication and 13.6% consider it a possible contraindication [4]. Mild 36 to moderate disability (IQ between 70 and 50) is considered a definite contraindication by 45.7% of programs and a 38 possible contraindication for an additional 46.9% or respondents. Only 6.2% of bariatric surgery centers do not 40 think of this level of disability as any type of contraindication [4]. In contrast, individuals with intellectual 42 disabilities are more likely to be obese than control 43 populations and more likely to have related co-morbidities, 44 such as type 2 diabetes mellitus, hypertension, hyper-45 lipidemia, coronary heart disease, chronic obstructive pul-46 monary disease, and osteoarthritis [5]. Thus, a subset of individuals who may be of greater need of weight loss 48 surgery may also be less likely to receive it.

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Cognitive function has increasingly become a focus of research in bariatric surgery, including cognitive deficits associated with severe obesity [6-7], the benefit of weight surgery on cognitive function [8], and the impact of cognitive deficits on adherence [9-10]. Obese individuals are known to demonstrate poorer attention, executive function, and memory relative to normal weight controls [6–7]. Clinically significant cognitive impairment is present in up to 23% of patients, with 40% demonstrating more subtle deficits [8]. Cognitive function has been directly associated with weight loss outcomes after bariatric surgery. Data from the Longitudinal Assessment of Bariatric Surgery showed that preoperative performance on memory and executive functioning tasks predicted 12 and 24 month postoperative body mass index (BMI) [9]. Given these recent studies linking cognition to outcomes, reticence to consider patients with intellectual disabilities may increase and fewer programs may consider such patients candidates. The case study below presents the outcome of a patient with long-standing borderline intellectual functioning, the optimization for surgery, and outcomes for 4.5 years postsurgery.

Case study

At the time of evaluation in the fall of 2007, Ms. L was a 31-year-old white female presenting for bariatric surgery. Her weight was 119.5 kg with a BMI = 47.9 kg/m². The patient's medical history included: obstructive sleep apnea, headaches, reflux, hyperlipidemia, asthma, unspecified seizure disorder, and osteoarthritis. The patient expressed motivation for surgery so that she could improve her

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92 breathing but was unable to describe the surgical options, risks or benefits although she had attended a 2 hour seminar 93 2 days before her appointment. Ms. L felt that orientation 94 went too fast and she reported that she had a difficult time 95 with reading due to a "severe learning disability." During 96 97 the semistructured clinical interview, the patient met DSM-IV-TR [11] criteria for Binge Eating Disorder, eating such 98 99 large amounts 2-3 x/week that she would experience nonvolitional vomiting. Ms. L's psychiatric history was 100 positive for past diagnoses of Attention Deficit Disorder, 101 102 Bipolar Disorder, and Depression. She had one past inpatient psychiatric hospitalization at age 17 for depression 103 and delusional thinking following the death of a family 104 member. She was prescribed Depakote for her seizure 105 disorder that was also helpful in stabilizing her mood and 106 saw a counselor weekly at a local mental health agency. 107 Records from these providers were obtained. 108

Rapport with Ms. L was difficult and she was very 109 agitated and anxious throughout the interview. Her affect 110 appeared labile, ranging from tearfulness to anger, partic-111 112 ularly when learning of the length of the presurgical process. Given her reported learning difficulties, problems 113 with memory and concentration and presentation, she was 114 referred to Neuropsychology to better characterize her 115 cognition and capacity to consent. 116

117 The neuropsychological evaluation was pertinent for the following reasons: The patient's developmental history was 118 notable for the fact that at about 1 year of age Ms. L 119 developed a high fever. The patient's mother stated that she 120 began having seizures at about that time. Ms. L lived alone 121 122 and received Social Security disability income. Her mother assisted her with paying bills, but the patient was able to 123 manage her money independently and was her own payee. 124 The patient's Mother and landlord provided some moderate 125 supervision. Ms. L was able to graduate high school with 126 127 special education, but had never worked.

Ms. L obtained a Full Scale IQ score of 72, which placed 128 her overall functioning in the borderline range. Her verbal 129 IQ was 68 (extremely low) and her performance IQ was 80 130 (low average). The intellectual profile suggested borderline 131 132 range functioning with a relative weakness in the patient's verbal intellectual skills. She also completed some achieve-133 ment testing, all of her academic abilities fell at about the 134 4th grade level. The remainder of the neuropsychological 135 evaluation displayed deficits in language and memory 136 137 functions. The evaluation concluded that her presentation was consistent with diffuse cognitive dysfunction likely 138 reflective of her developmental neurologic problems and 139 seizure disorder. The neuropsychologist recommended that 140 the team utilize multiple repetitions of information, present 141 142 information in a format that was appropriate for her level of intellectual/reading ability with frequent review of informa-143 tion in order for her to learn and retain this information. It 144 was also noted that monitoring for impulsive decision 145 146 making and diet compliance postsurgically would be important. Finally, it was noted that this would require a 147 fairly extensive support network on behalf of the patient. 148

Given the complexity of the case, the multidisciplinary 149 team (surgeon, psychologist, dietician, bariatric medicine 150 and nursing) met to discuss the case in December 2007. The 151 patient's insurance provider required a 9 month medically 152 supervised diet and the team determined that the patient 153 may be considered a candidate if she could show adherence 154 with diet, benefit from individual treatment for her binge 155 eating, and if she could exhibit the capacity to consent after 156 9 months of education. Initially Ms. L was resistant to the 157 plan and had great difficulty understanding the difference 158 between our requirements and those of her insurer. 159 Although gains in knowledge required frequent reinforce-160 ment and recommendations needed to be concrete, Ms. L 161 was able to fully consent to the procedure, correctly 162 describing the surgery, its risks and benefits, and post-163 operative plan after 9 nutrition visits and 5 visits with the 164 psychologist. She also was able to largely adhere to the 165 preoperative dietary recommendations, losing 3.2 kg and 166 discontinuing carbonated beverages, using a liquid meal 167 replacement, taking recommended multivitamins, imple-168 menting a physical activity program and separating eating 169 and drinking. She was somewhat delayed by her insurer but 170 completed RYGB in March 2009. 171

At her 1-week postop visit, Ms. L described a postsur-172 gery recovery without complications, noting only minimal 173 pain and resolving nausea. The patient immediately began a 174 walking routine. Notably, the patient was adherent with diet 175 even when mother said it would be okay to transition to 176 other foods. Per the treatment team plan, the patient met 177 with nutrition and psychology monthly for the first year 178 rather than usual quarterly visits. Like the preoperative diet, 179 the patient was slower to learn new information and needed 180 repeated trials, but a graduated plan with new information 181 presented in an easily understandable manner with small 182 goals added monthly led to a high level of adherence with 183 the postoperative regimen and considerable weight loss (see 184 Figs. 1 and 2). The patient was also highly adherent with E185 physical activity recommendations, joining a local YMCA 186 and working individually with a trainer. After 1 year, she 187 increased her physical activity by joining 2 sports programs 188 through the Special Olympics. 189

At 2 years post-RYGB, Ms. L achieved 74% excess 190 weight loss and a nadir weight of 75.9 kg (BMI = 30.64 kg/ 191 m²). At that time she was exercising 360 minutes/week, 192 meeting fluid and protein goals, was adherent with vitamins, 193 and avoiding carbonated beverages. Given her adherence 194 and success, it was recommended that she be seen twice a 195 year to continue with monitoring her progress and reinforc-196 ing her knowledge. During these visits, she would often 197 need 1 or 2 behaviors/goals reset but was motivated to 198 attend these visits and adjust her goals. After 4.5 years, the 199 patient has maintained the majority of her weight loss, 200 fluctuating between 76-79 kg. Her most recent weight was 201

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