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Characterizing Goal Setting by the Registered Dietitian for Adolescents with Newly Diagnosed Polycystic Ovary Syndrome

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Introduction



- Develops in adolescence
- Associated with significant metabolic comorbidities²







 Current goal setting for dietary management of adolescents with PCOS is lacking

Objective

To characterize goal setting used by RDs for adolescents newly diagnosed with PCOS at the CMH multi-specialty PCOS (MAPP) clinic

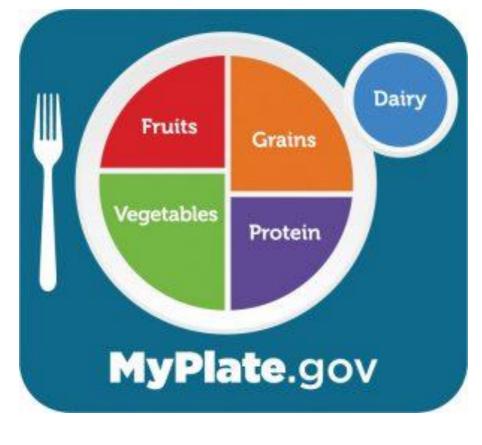
Methodology

- Retrospective chart review of 118 consecutive patients seen at the MAPP Clinic between 2015 2020
- Collaboratively generated codebook used to code notes in Dedoose – open coding and a priori objectives
- One investigator (MG) independently coded notes
- Goals characterized for emerging themes using qualitative content analysis by four investigators

Table 1: Participant Characteristics (n = 118)	
Age (years; mean, range)	16.1 yeas (11.2 – 21)
Race and Ethnicity (n, %)	
Non-Hispanic White	52 (44.1%)
Hispanic White	29 (24.6%)
Black and African American	21 (17.8%)
Asian	4 (3.3%)
Multiracial and Other	12 (10.2%)

Results: Emerging Themes Across Goals

Theme 1: MyPlate



Majority of goals referenced MyPlate as an achievable goal-setting tool.



"Goals: 1. Snacks- half of the week have non-starchy veggies (ex: raw carrots with dip), rest of week can have something such as small portion of cheerios with veggies and/or protein/fat food 2. Work towards 60 minutes of physical activity 3. Follow plate model 4. Pair carbohydrate foods with fat/protein foods."

Theme 2: Carbohydrate Intake Modification



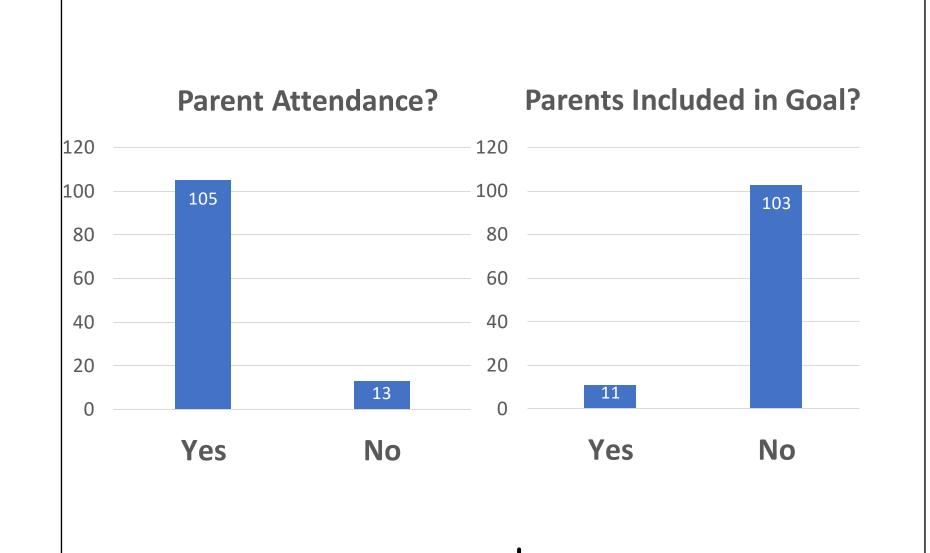


Restriction of simple carbohydrates (reduce sugar-sweetened beverages), pairing with other macronutrients (protein or fat), increasing intake (whole grains).



"Nutrition Goals: For meals and snacks, aim to choose complex carbohydrate sources such as whole grains, fruits, and vegetables and pair with a protein or healthy fat. Continue to go to the gym five times per week or as able."

Theme 3: Lack of Parental Inclusion

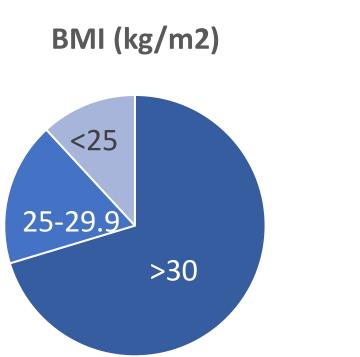


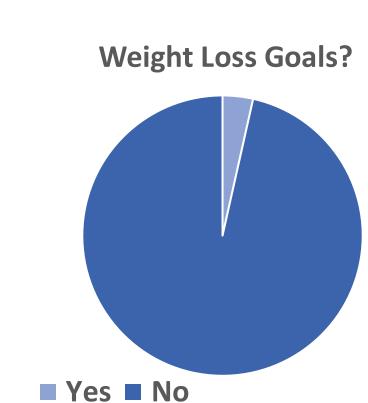
Although we noted high parental attendance at visits, few goals directly referenced parental involvement in the recorded note.



"Goals: 1. Go to track conditioning practices twice per week. 2. Mom will cook at home twice per week (Mondays and Thursdays). Consider "batch cooking" and/or meal prepping for other nights. 3. [patient] will bring a vegetable to school to eat with lunch."

Theme 4: Little Focus on Weight Reduction







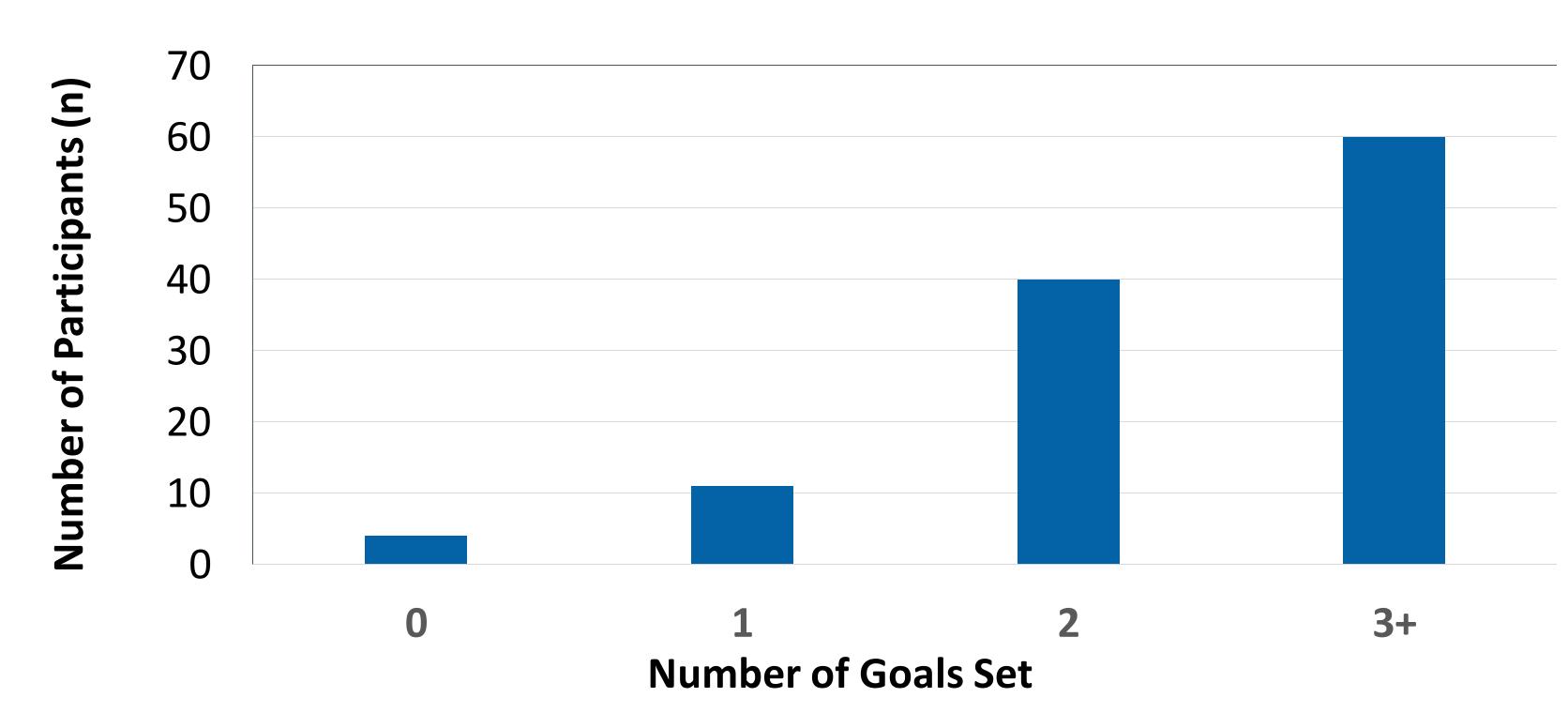
Despite high prevalence of patients with elevated BMI, few goals focused on weight reduction. Goals were focused on diet and lifestyle changes.



"Goals: 1. Slow weight gain with long-term goal of BMI <85%ile. 2. Always include protein at breakfast."

Results

Figure 1: Distribution of Nutrition-Related Goals Set Per Visit



Representative quote from zero goals (n = 4): "Goals: Pt very unmotivated to make any lifestyle changes. Was not willing to set a goal at today's visit."

Discussion

- RDs are critical in supporting lifelong dietary management of PCOS
- MyPlate and carbohydrate intake appear to be frequent starting points for nutrition behavior change in adolescent PCOS
- Zero goals reflected patients' resistance to making dietary changes; multiple goals set at once may result in barriers to change
- Parental involvement in goal setting for adolescents with PCOS may be a missed opportunity
- Intentions, motivations, and barriers are not captured, therefore unable to infer beyond what was documented in the nutrition

References & Acknowledgements

- 1. Hajivandi L, et al. Health system-related needs for healthy nutritional behaviors in adolescent girls with polycystic ovary syndrome (PCOS): a qualitative study in Iran. BMC Health Serv Res. 2022;22(1):998.
- Anderson AD et al. Childhood obesity and its impact on the development of adolescent PCOS. Semin Reprod Med. 2014;32(3):202-213.
 Wolf WM, et al. Future Implications of Using Registered Dietitians in

Multidisciplinary Polycystic Ovary Syndrome

Treatment.Healthcare.2018;6(4):144.

Verstraeten R, et al. A conceptual framework for healthy eating behavior in Ecuadorian adolescents: a qualitative study. PLoS One. 2014;9(1):e87183.





