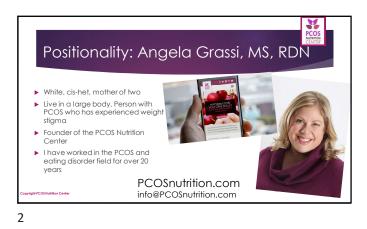
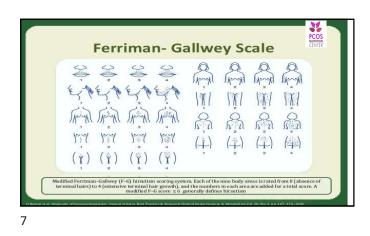
Using a Clinical Lens to Understand and Treat PCOS & Eating Disorders

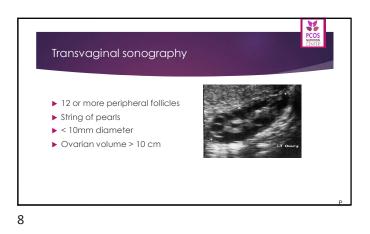


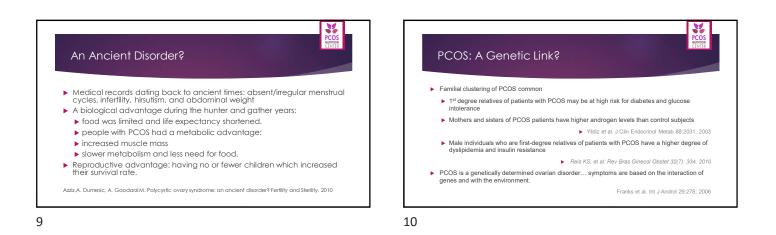
PCOS Outline Disclosure Retailer: Brief overview of PCOS · Ovasitol by Theralogix Pathophysiology Current research on mood and eating disorders · Fish oil by Nordic Naturals Eating behaviors among PCOS women PCOS Nutrition Center Supplements Treating PCOS and Eating Disorders with a weight-neutral approach Case study oht PCOS Nutrific 3 4

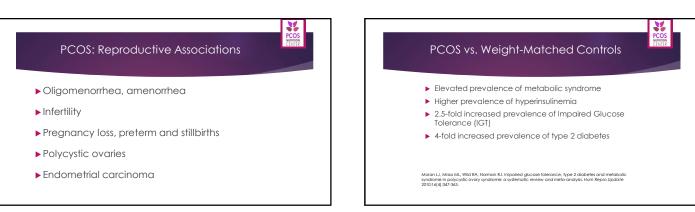
PCOS

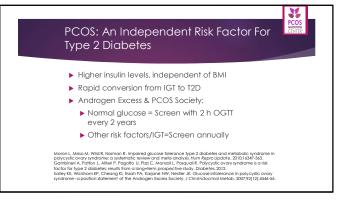


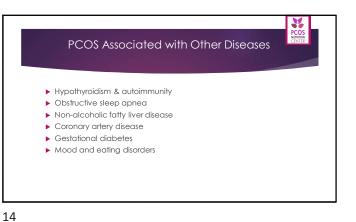


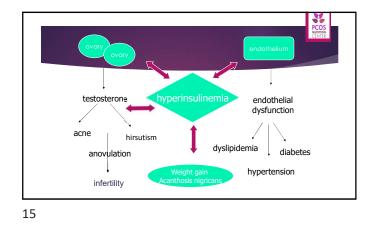


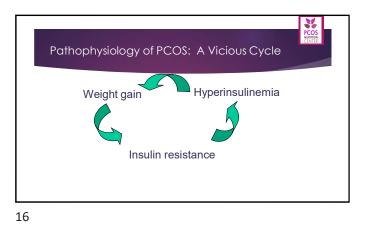


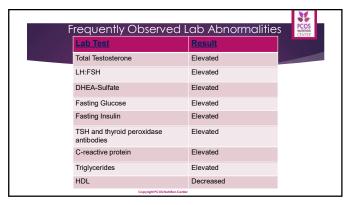








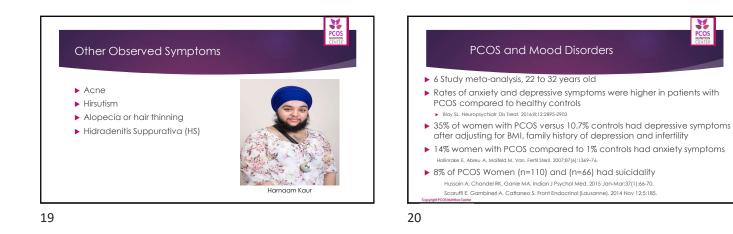


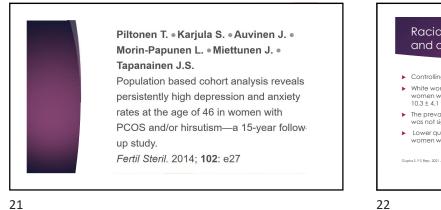






32 PCOS







- Controlling for age, BMI, and SES
- White women with PCOS had a significantly higher prevalence of anxiety than Black women with PCOS (75.9% vs. 61.3%) and significantly higher anxiety scores (mean ± SD, 10.3 ± 4.1 vs. 8.7 ± 4.6)
- The prevalence of depression (24.4% vs. 29%) and depression scores (4.8  $\pm$  3.6 vs. 5.1  $\pm$  4.0) was not significantly different
- Lower quality of life related to emotional well-being & infertility significantly lower in Black women with PCOS (mean  $\pm$  SD, 12.6  $\pm$  7.8 vs. 17.5  $\pm$  6.8)

a S. F S Rep. 2021 Jun; 2(2): 230-237



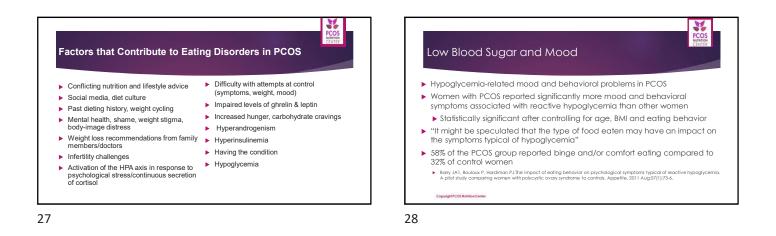
## Higher Prevalence of Eating Disorders in PCOS Women Increased risk for overall abnormal EDE-Q scores compared with controls (12.16% vs. 2.83%)

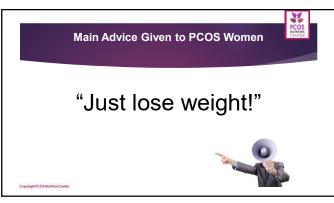
- BN was 6.1%, of BED was 17.6%, and of NES was 12.9% in women with PCOS, with no differences compared with controls Lee I, Cooney LG, Saini S. Fertil Steril. 2017;107(3):796-802
- The Prevalence of BN was 5.3%, AN 1.1% among PCOS women Bernadett M. Psychiatr Hung. 2016;31(2):136-45.
- Binge eating behavior has been found to affect 60% of women with PCOS (small & large bodies) with 39% presenting with clinically significant behavior
- Jeanes YM, Reeves S, Gibson EL. Appetite. 2017;109:24-32.

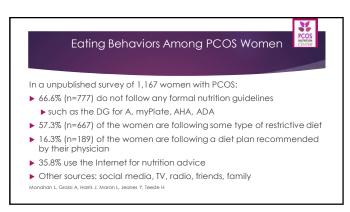
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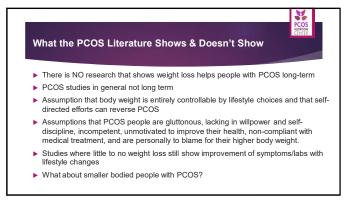


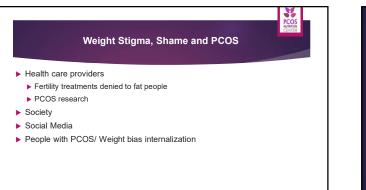


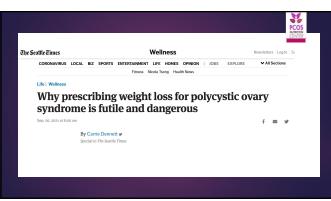
Diet Followed	%	N N=1,167
Diet Type		
Low-carb, high protein	36.3	432
low glycemic index	21.0	244
gluten-free	18.2	212
dairy free	17.4	203
soy free	11.3	132
paleolithic/paleo	7.7	90
ketogenic	2.7	31

3-Factor Eating Habit Questionnaire Respondents who answered 'definitely or mostly true"			PCOS NUTRITION CENTER'
Characteristic	< 35 years % (n=882)	≧ 35 years % (n=338)	P-value
Cannot stop eating	46.7	47.3	0.037
Eats too much when sad	60.0	56.5	0.034
Eats when someone else is eating	69.1	68.6	0.048
Stomach feels like a bottomless pit	48.0	44.1	0.005
Difficult to stop eating before plate is empty	41.3	34.6	0.013
Consoles self with lonely by eating	47.2	42.3	0.019
Feels hungry when seeing delicious food	37.8	41.1	0.027

Reason for Dieting	%	N N=1,167
weight loss	39.0	454
treatment of PCOS features	38.0	442
general health	23.6	275
food allergies	14.2	165



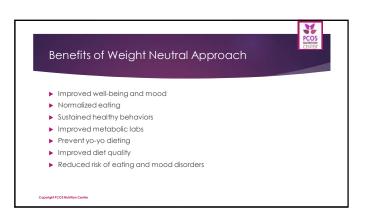




## A Paradigm Shift to PCOS Care

- Focusing on weight loss is harmful to people with PCOS
- Empathetic, supportive and non-shaming weight-neutral approach
  Health at Every Size®
- Educate people/providers about sustainable lifestyle changes to support health
  Nutrition assessment screen all patients for ED behaviors
- Skills: self-care, pleasurable food and exercise
- Heal relationship with food and body
  - Intuitive Eating
  - Accept all foods (avoid "good/bad" or "healthy/unhealthy")
  - Trust and rely on body cues

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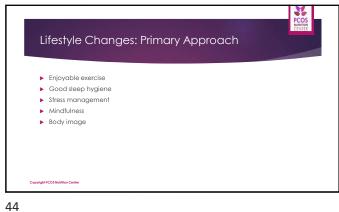




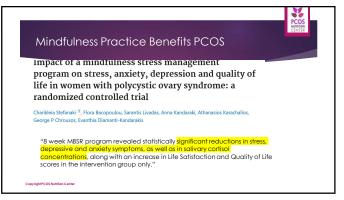


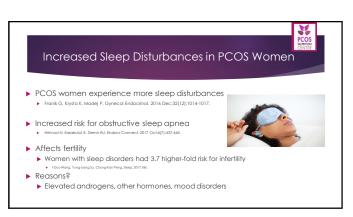


Common Supplements for PCOS				
Inositol (Myo: DCI 40:1)	Insulin, cravings, improving egg quality, regulating menses, androgen lowering	2 grams MYO, 50 mg DCl, twice daily with food		
Vitamin D	Egg quality & ovulation; mood	2,000 IU to 4,000 IU daily fat containing foods		
Zinc	Acne, excess hair growth, hair loss; androgen lowering	30mg to 60 mg		
Magnesium	Anxiety, insulin & glucose	320mg to 500mg		
N-Acetylcysteine	Egg quality, insulin, cholesterol , fatty liver	900mg to 1.8g		
EPA and DHA rich fish oil	Ovulation, elevated TG, mood, regulating menses, inflammation	2,000 mg to 4,000mg		









## PCOS PCOS Long-term effects of a three-component lifestyle intervention on emotional well-being in women with Indicators of Progress without Weight Focus Polycystic Ovary Syndrome (PCOS): A secondary analysis of a randomized controlled trial Symptoms improve Geranne Jiskoot <sup>1</sup><sup>2</sup>, Alexandra Dietz de Loos <sup>1</sup>, Annemerle Beerthuizen <sup>2</sup>, Reinier Timman <sup>2</sup>, Regular periods Jan Busschbach <sup>2</sup>, Joop Laven <sup>1</sup> Energy levels Mood Improved relationship with food/exercise "Lifestyle treatment (diet, exercise, CBT), independent of weight loss, can reduce depression and body image." 12-months Lab values improved Sleeping better Better stress management Copyright PCOS Nutrition Center 49 50



