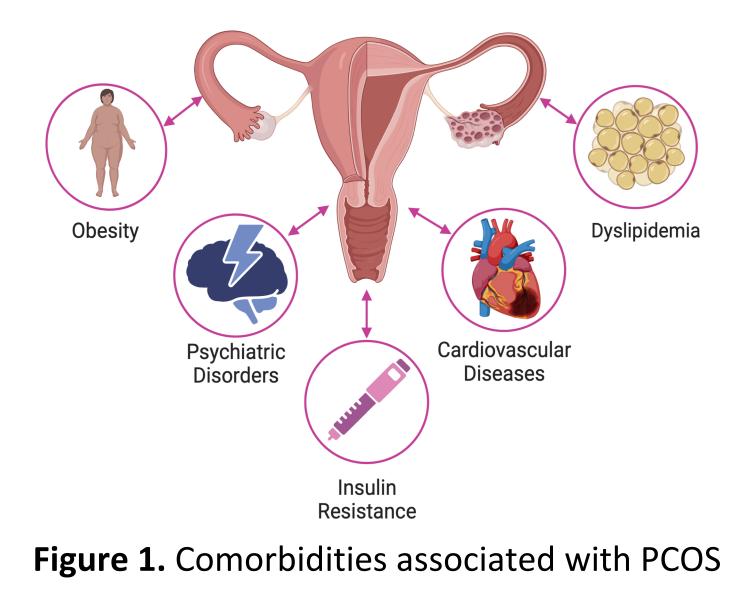




BACKGROUND

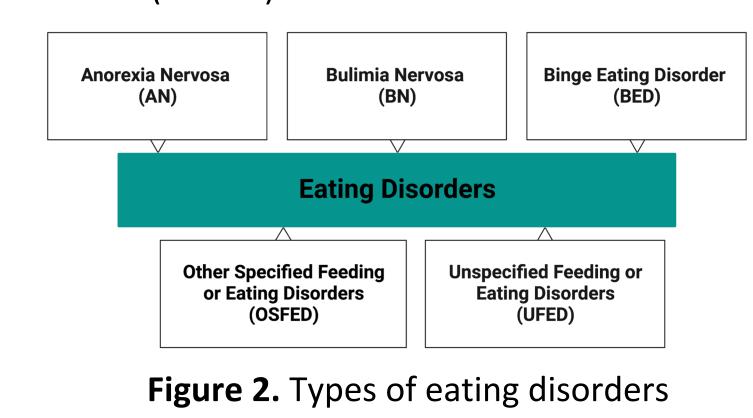
Polycystic ovary syndrome (PCOS) is the leading endocrine disorder affecting approximately 15% of reproductive age women across the lifespan.

PCOS is characterized by polycystic ovary morphology, hyperandrogenism, and menstrual dysfunction and is diagnosed by varying criteria.



Current literature has observed an increased risk of developing eating disorders and

Eating disorders (EDs) are diagnosed according to the Diagnostic and Statistical Manual of Mental Disorders Fifth Edition (DSM-5):



Disordered eating (DE) behaviors are characterized by similar characteristics in lower frequency and severity that do not meet DSM-5 criteria.

RATIONALE & AIM

There is no literature that comprehensively examines the extent and range of research available on the prevalence and types of EDs in PCOS.

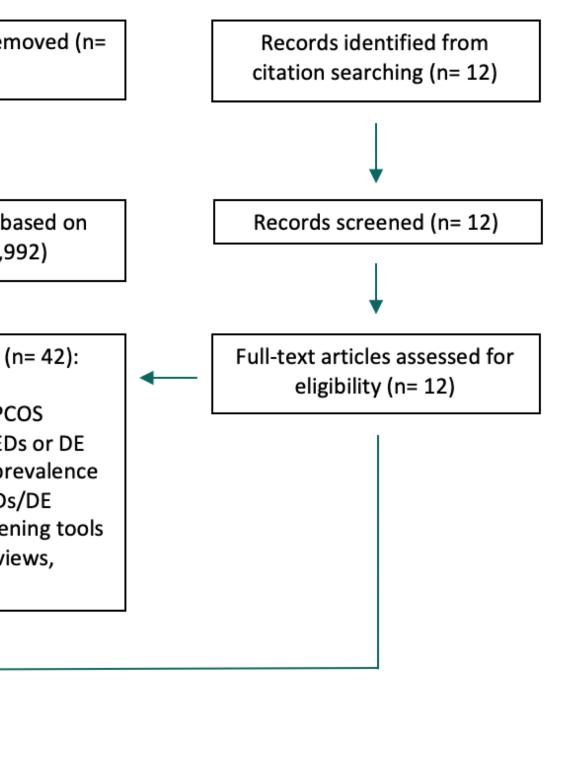
The aim of this scoping review is to:

disordered eating behaviors in PCOS.

- 1. Assess the scope of knowledge on the prevalence and types of EDs in PCOS.
- 2. Identify existing gaps in knowledge.
- 3. Explore the pathophysiological mechanisms of EDs in PCOS to improve assessment and clinical outcomes.

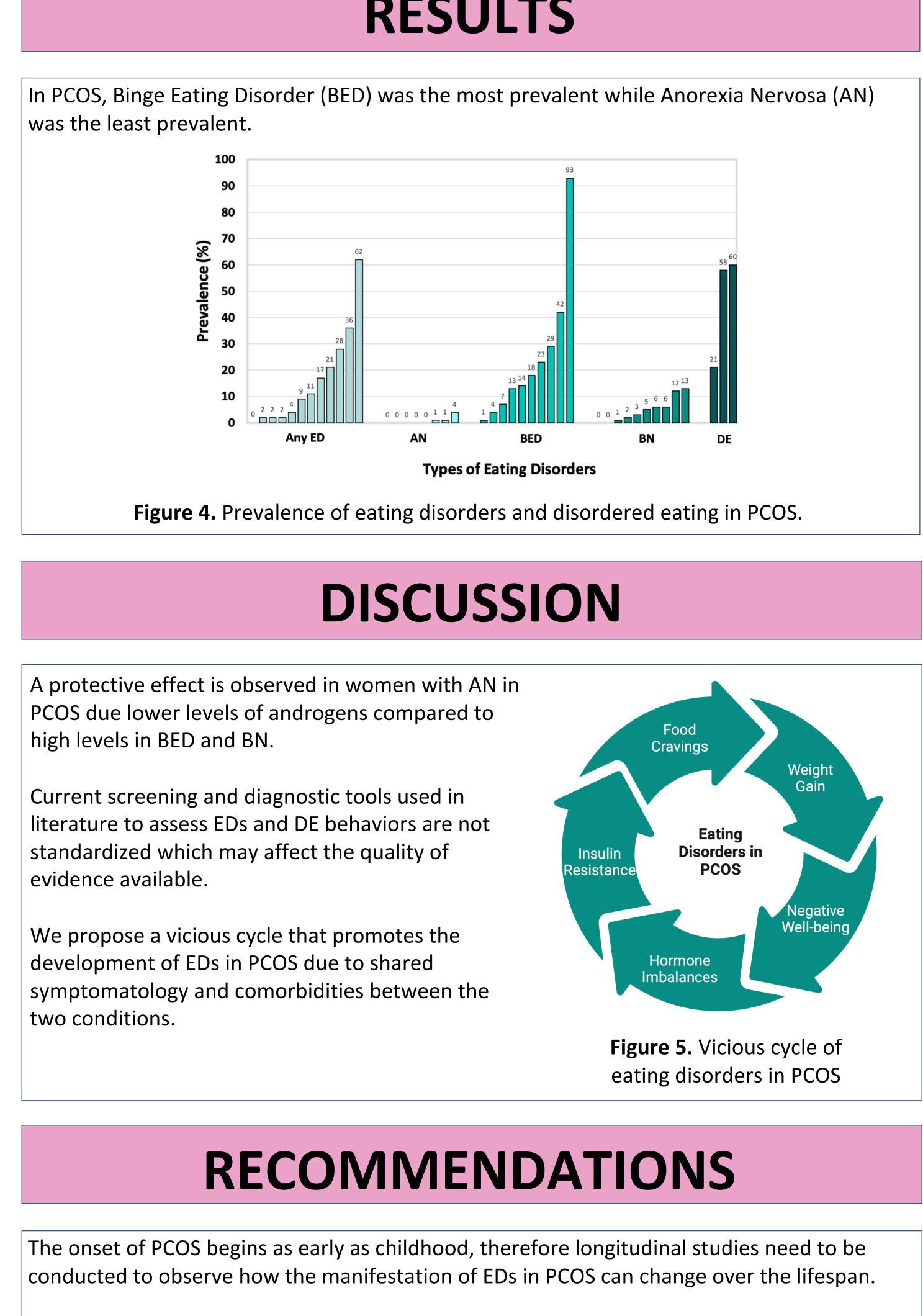


Eating Disorders in Polycystic Ovary Syndrome: A Scoping Review METABOLIC AND **DVASCULAR DISEASES** Mishal Malik¹, Reihaneh Masoumi¹, Katie Ng¹, Simran Sidhu¹, Sophie Lalonde-Bester², and Donna F. Vine² LABORATORY Metabolic and Cardiovascular Disease Laboratory, University of Alberta RESULTS METHODS The Preferred Reporting Items for Systematic Reviews and Meta-Analysis extension for Scoping Reviews (PRISMA-ScR) was used to guide the protocol of this study. was the least prevalent. Study Eligibility & Selection A comprehensive search was conducted on PubMed, Scopus, and Web of Science for literature available up to March 2023. Articles were reviewed by at least three reviewers. (%) (%) Records identified from Duplicate records removed (Records identified from database searching (n= 3,418) citation searching (n= 12) Records screened (n= 3,048) Records screened (n= 12) Records excluded based on 0 0 0 0 0 1 1 abstract (n= 2,992) Any ED **Types of Eating Disorders** Full-text articles assessed for Full-text articles assessed for Articles excluded (n= 42): ---eligibility (n= 54) Not in English eligibility (n= 12) **Figure 4.** Prevalence of eating disorders and disordered eating in PCOS. Not focused on PCOS Not focused on EDs or DE Not focused on prevalence Reported only EDs/DE scores from screening tools DISCUSSION Study design (reviews, editorials) Articles included for scoping A protective effect is observed in women with AN in review (n= 24) PCOS due lower levels of androgens compared to Food high levels in BED and BN. Cravings Cohort Cross-sectional Case-control Weight (n= 12) (n= 4) (n= 8) Current screening and diagnostic tools used in literature to assess EDs and DE behaviors are not **Figure 3.** PRISMA-ScR flowchart outlining article selection and results from search strategy Eating standardized which may affect the quality of **Disorders in** PCOS evidence available. **Data Extraction & Synthesis** A data extraction table was developed for eligible articles with information about population Negative Well-bein We propose a vicious cycle that promotes the characteristics, study design, results, strengths and limitations, and tools used to assess EDs development of EDs in PCOS due to shared Hormone and DE. The data was analyzed to identify types and prevalence of EDs in PCOS. Imbalances symptomatology and comorbidities between the two conditions. Figure 5. Vicious cycle of RESULTS eating disorders in PCOS **Study Characteristics** RECOMMENDATIONS A total of 24 articles were included in this scoping review, but only 2 of these studies were conducted on adolescents. **Table 1.** Articles on the prevalence of eating disorders in PCOS. The onset of PCOS begins as early as childhood, therefore longitudinal studies need to be Eating Disorders (EDs) Anorexia Nervosa (AN) A universal standardized approach is needed for the assessment of EDs and PCOS in order to Binge Eating Disorder (BED) establish definitive diagnoses. Subclinical Binge Eating (BE) Bulimia Nervosa (BN) Subclinical Bulimia Nervosa (BN) Other Eating Disorder (ED) options and to improve health outcomes. **Other Specified Eating or Feeding Disorder (OSFE** Atypical Anorexia Nervosa (AN) Low Frequency Bulimia Nervosa (BN) CONCLUSIONS Low Frequency Binge Eating Disorder (BED) Purging Disorder Night Eating Syndrome (NES) Unspecified Feeding or Eating Disorders (UFED) Any Eating Disorder (ED)



Number of Articles	Prevalence
8	0.0%-3.5%
10	1.4%-93.1%
2	20.0%-37.7%
10	0.0%-12.6%
3	8.0%-76.0%
1	6.4%
2	22.5%-27.0%
1	0.0%
1	9.4%
1	16.0%
1	1.2%
1	12.9%
1	1.2%
12	0.4%-62.0%
3	21.0%-60.0%
	of Articles 8 10 2 10 3 1 2 1

Disordered Eating (DE)



More research is required on a global scale for EDs in PCOS to provide enhanced treatment



Future research can enable the development of clinical guidelines for the management and treatment of EDs in PCOS, reducing financial burdens on the healthcare system and improving health related quality of life for these individuals.



