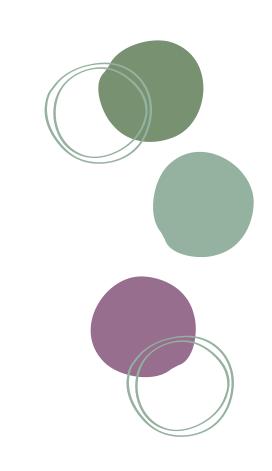
WE'RE IN THIS TOGETHER: NAVIGATING COLLABORATION ON CAMPUS FOR COLLEGE STUDENTS WITH EATING DISORDERS



Jessica Berens, MS, RD, LDN Senior Regional Nutrition Manager

Laura McLain, PsyD, BC-TMH Director of Training

Holly Willis, MSN, PMHNP-BC Nurse Practitioner



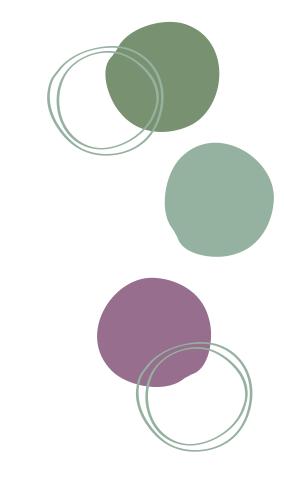
LEARNING OBJECTIVES

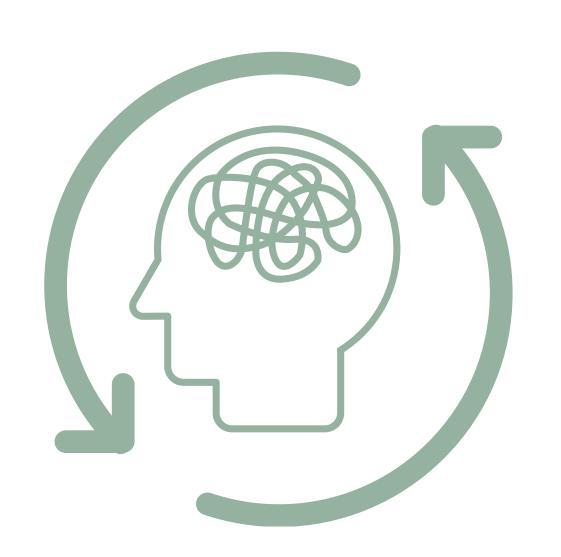
Participants will be able to identify and utilize 2 evidence-based therapeutic strategies to assist students with eating disorders.

Participants will be able to identify 2 nutrition interventions that can be implemented on college campuses when treating students with eating disorders.

Participants will be able to identify 3 medical warning signs when working with clients with eating disorders.







EATING DISORDERS
OVERVIEW & COOCURRING MENTAL
HEALTH CONCERNS





COLLEGE STUDENT MENTAL HEALTH



- 33% of students reported being diagnosed with or treated for a mental health problem**
- 74% report emotional or mental health has hurt their academics (in a 4week period)**



- 14% screened for eating disorder symptomology (SCOFF)**
- 44% reported significant food insecurity*



- 52% of students reported moderate psychological distress; 25% serious distress*
- 29% have engaged in self injury**
- 14% seriously considered suicide; 2.9% attempted suicide*





ED AS AN EMOTIONAL DISORDER?

Individuals with Emotional Disorders

Experience negative affect more intensely and frequently

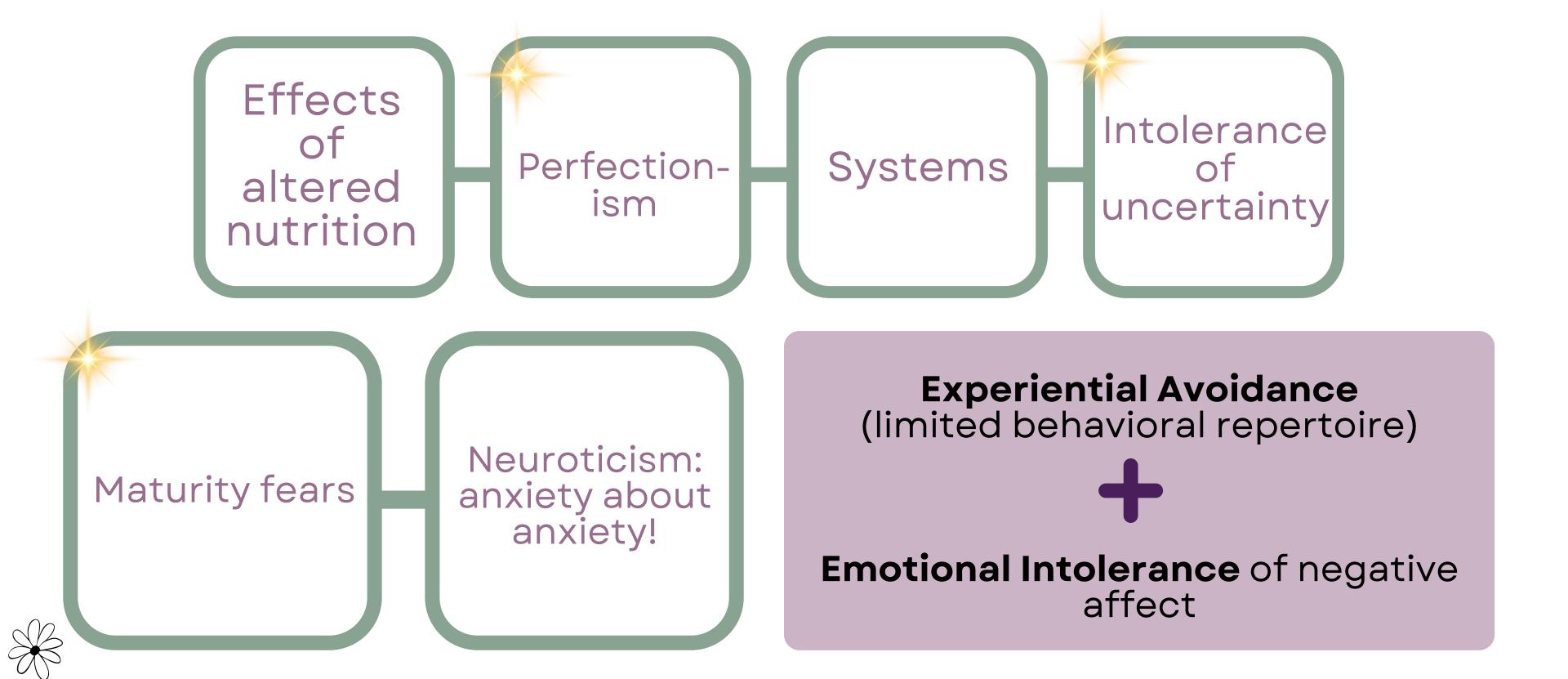
View emotional experience s as unwanted & intolerable

Use unhelpful strategies (symptoms) to avoid or lessen the intensity of emotions

These unhelpful strategies backfire & keep symptoms going (i.e., ED symptoms, substance abuse, self-harm, etc.) = NEGATIVE REINFORCEMENT



MAINTAINING FACTORS



EATING DISORDERS SPECTRUM

Wellness

- Mostly positive feelings about body shape/size
- No "good" or "bad" foods
- Regular/moderate exercise

Preoccupation with body shape/size and eating

- Don't like the way parts
 of body look or
 consistently feel like
 losing a few pounds
- Frequent thoughts about food, eating and body
- Sometimes feel guilty
 or bad for what they
 have eaten and may
 "make up for it"

Distress about body shape/size and eating

- Thinking about food, eating and body interferes with daily activities
- Rigidity in eating patterns
- Working hard to change body and compensating for eating (vomiting, fasting, extreme exercising)

Eating Disorders

- Anorexia Nervosa
- Bulimia Nervosa
- Binge Eating Disorder
- OSFED
- ARFID



COMMONISSUES ON CAMPUS

FOOD & ALCOHOL DISTURBANCE (FAD)

Previously "drunkorexia"

Restriction of calories, over exercise, and other compensatory behaviors before/during/after alcohol use to offset caloric intake or minimize intoxication

Drive for thinness

PURGING DISORDER

Recurrent purging behavior to **influence weight or shape** in the absence of binge eating.

Purging includes - selfinduced vomiting, use of laxatives, diuretics, enemas, exercise and significant fasting (for non-religious or medical reasons)

COMPULSIVE EXERCISE

Can play a role in the development & maintenance of several EDs (AN, BN, OSFED)

Even though exercise is commonly considered a healthy and socially reinforced behavior, excessive exercise can be a serious problem.



COMMONISSUES ON CAMPUS

ORTHOREXIA NERVOSA

Preoccupation with food

Not eating outside the home

Hyper perfectionism

Inflexibility with routine

Obsessive research on diet/wellness trends

Lots of time shopping for food

May include rigid exercise routine

RELATIVE ENERGY DEFICIENCY SYNDROME (RED-S) Low Energy Availability (LEA)

Impaired psychological functioning due to undernourishment

Can be a consequence of:

Over training, under-fueling

Poor meal timing

Consistent diet restriction

Increased training loads without increased food intake



CONTRIBUTORS & CO-OCCURRING MENTAL HEALTH ISSUES

Co-Occurring Mental Health Issues

Mood Disorders (50-75%)

Anxiety Disorders (56%)

Trauma and PTSD (25%)

Substance Abuse (22%)

LDs/ADHD (10-20%)

Personality Disorders (25-40%)

Autism Spectrum Disorder (20%)

Self-injury/suicidality (36-55%)



Societal & Environmental Stressors

Gender Dysphoria

Weight Stigma/Fatphobia

Social Oppression and Marginalization



SEXUAL ASSAULT & SUBSTANCE USE ON CAMPUS

25.9% (female) and 6.8% (male) of undergraduate students report experienced nonconsensual contact through physical force or because they were unable to give consent

11.2% of all students
(grad/undergrad)
experience rape or sexual
assault through physical
force, violence, or
incapacitation

Alcohol
Use:
In 1 in 3 sexual assaults,
the perpetrator was
intoxicated

At least 50% of college student sexual assaults are associated with alcohol use

90% of acquaintance rapes involve alcohol



INTERSECTIONALITY & ED RISK FACTORS

BIPOC

- Tend to be misdiagnosed
- Under treated
- Less likely to seek out ED recourses
- Mental health stigma

Female Identity

- Body Objectification
- Internalization of dominant culture thin ideal
- Cultural differences

ED RISK FACTORS

- LGBTQIA+ increased risk
- Risk factors include social exclusion, family rejections, peer victmization

LGBTQIA+

Cultural/Societal Factors

- Historical and intergenerational trauma
- Bullying
- Glorification of masularity
- Acculturation status
- Food insecurity
- Social media influence

- Diet cycling
- Fad diets (keto, intermittent fasting)
- Fat phobia and size discrimination
- Norms that value thin bodies and appearance

Diet Culture & Weight Stigma

Grabe et al., 2008; NEDA, 2023











ESSENTIALS TO CONSIDER

Symptom Severity

How frequent?

To what extent?

Level of disruption?

Level of Distress

Ability to stop behaviors?

Level of insight?

Level of concern (if any) with symptom use?

Medical & Psychiatric Concerns

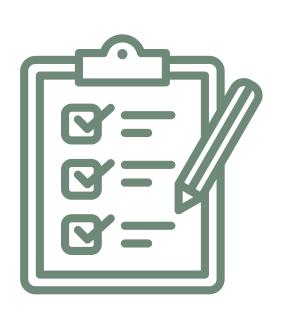
Medical instability?

Psychiatric safety concerns?

Level of support necessary?



ASSESSMENT TOOLS



Eating Disorder Assessments

- EDI-3 Eating Disorder Inventory
- EDE-Q Eating Disorder Examination Questionnaire
- EDDS Eating Disorder Diagnostic Scale
- SCOFF Eating Disorder Questionnaire

Athlete Assessments

- RED-S
- Compulsive Exercise Test
- Female Athlete Screening Tool

Mood Assessments

- Beck Anxiety Inventory
- Beck Depression Inventory
- The Columbia Protocol



EATING DISORDER SCREENING TOOLS

National Eating Disorders Association (NEDA) has a brief, interactive online screening tool:



- 13 years and older
- •20 questions, taking <5 minutes to complete.
- Upon completion, the site indicates level of risk and offers next steps

https://www.nationaleatingdisorders.org/screening-tool

SCOFF Questionnaire (Morgan, Reid & Lacey, 2000)

•5 item screener

Score of 2 out of 5 indicates possible ED

•Sick, Control, One, Fat, Food (opportunity to explore further)



ARFID SCREENING TOOLS

Eating
Disturbances in
YouthQuestionnaire
(EDY-Q)

Eating Disorder Assessment for DSM-5 (EDA-5)

Nine-Item ARFID
Screen (NIAS)

Pica, ARFID, and Rumination Disorder Interview (PARDI)

Eating Pathology
Symptoms
Inventory (EPSI)



QUESTIONS TO ASK STUDENTS

- Can you eat when you are hungry and stop when you are satisfied?
- Do you avoid certain foods due to texture or sensory issues?
- Do you make food choices based on foods you enjoy?
- Are you able to purchase basic food items?
- Do you compulsively buy food or engage in "panic buying"?
- Do you become physically uncomfortable (such as week, tired, dizzy) when you under eat or diet?
- Do you feel that your food selections include all foods, including those higher in fat or calories?
- Do you engage in mindless or compulsive eating?
- Do you try to compensate after eating by vomiting, using laxatives, diet pills, exercise or restriction?











MEDICAL PRESENTATION - WHAT TO ASK

Temperature experiences

Dizzines

S

Palpitation

S

Chest pain/Shortness of breath

Cognition/Concentration

Quality/Quantity of sleep

Fainting episodes

24 hour dietary recall
Dieting history
Exercise history

Food rules

Body image concerns

Sensory issues related to food

Bingeing/Emotional eating Compensatory behaviors (purging, laxatives, diuretics)





(+) MEDICAL COMPLICATIONS

- Orthostatic vitals
- Cardiac arrythmia, bradycardia
- Shortness of breath
- Dental Erosion

- Osteoporosis
- Osteopenia
- GI Issues (constipation, bloating, diarrhea)
- Hormonal changes
- Gastroparesis
- Impaired immune system
- Abnormal lab values (potassium, sodium, magnesium, phosphorus)
- Glucose levels

- Seizures
- High blood pressure
- Fainting episodes, lightheaded, dizziness
- Perforated esophagus
- Blood in urine, stool, vomit

- Weight fluctuations, weight loss/gain
- Amenorrhea, abnormal menses

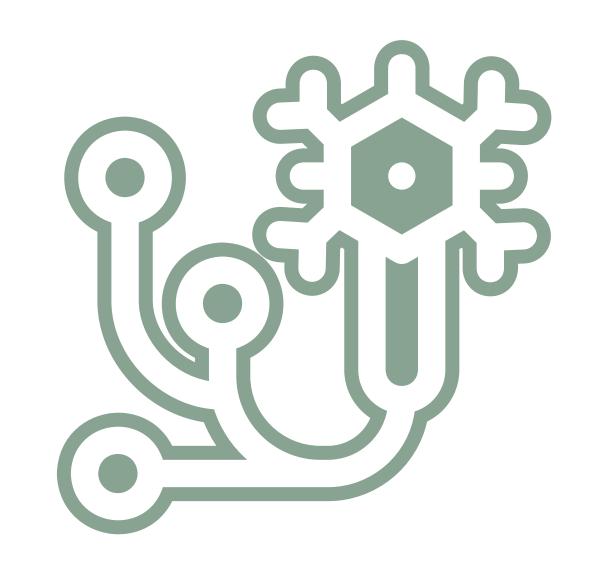
- Cold intolerance
- GERD
- Parotid gland enlargement



MEDICAL COMPLICATIONS OF RESTRICTION

Anorexia Nervosa, ARFID, Fasting, Orthorexia

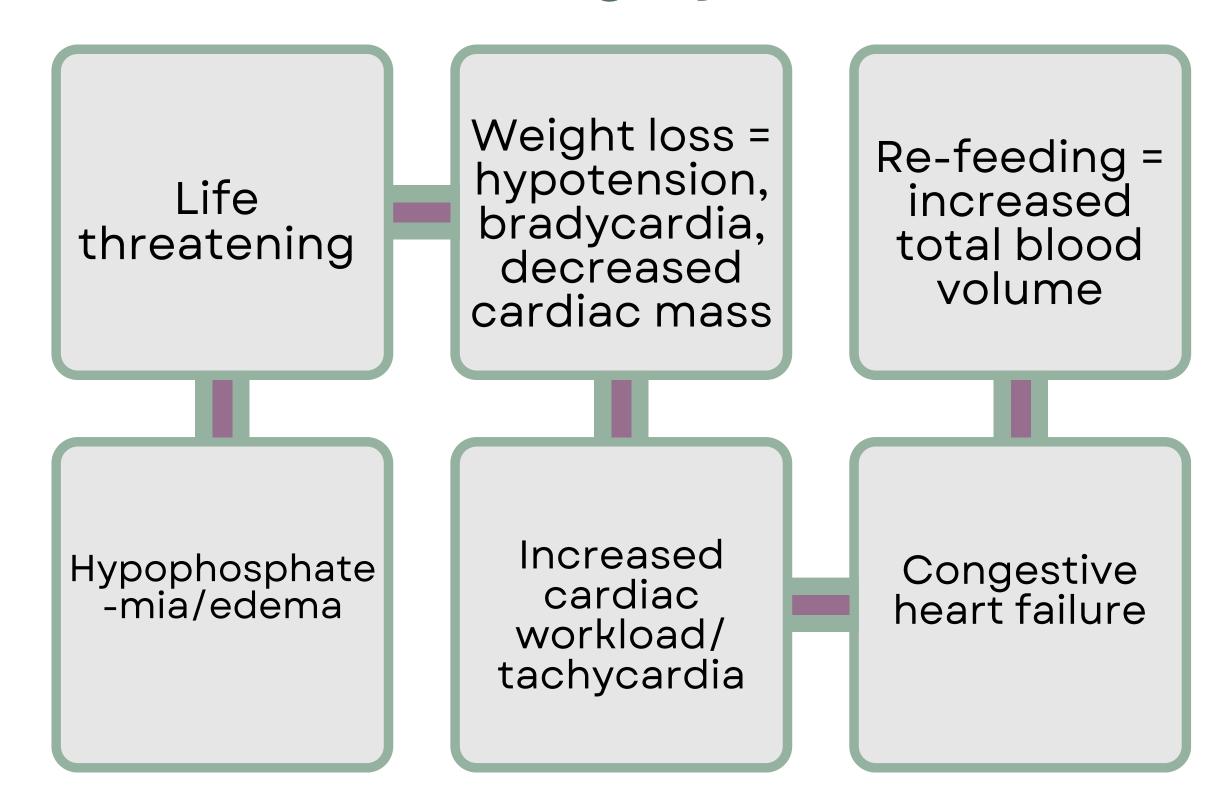
- Signs of wasting
- Muscle, bones, skin, hair, internal organs
- Signs of conservation of energy & organs
- Vital signs, organ shrinkage, sluggish systems
- Maintaining cardiac, renal, and liver functions





MEDICAL COMPLICATIONS OF RESTRICTION

Re-Feeding Syndrome





MEDICAL COMPLICATIONS

Bulimia Nervosa

Self-Induced Vomiting

Dental damage

Esophagitis/ Barrett's esophagus

GERD

Perforated esophagus

Blood in vomit

Laxatives

Cathartic colon
Hypokalemia
Prolapsed rectum
Blood in stool
Dehydration

Diuretics

Hypernatremia
Hypokalemia
Dehydration
Blood in urine



MEDICAL COMPLICATIONS Binge Eating Disorder

Managing
assumptions &
biases about
clients who binge
eats

Assumptions that clients who binge are in larger bodies

Restriction is part of binge cycle

For clients in larger bodies:

Clients in larger bodies more likely to avoid medical care, increasing acuity when they do seek help

Doctors tend to overtreat, undertreat, and misdiagnose clients in larger bodies

Impact of weight stigma:

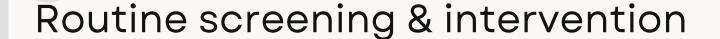
Association
between a person's
experience of
weight stigma &
increased
incidence of heart
disease, ulcers,
diabetes, and high
cholesterol



EARLY INTERVENTION







Removing stigma

Open dialogue of symptoms observed

Education - ED symptoms, severity of illness, need for specialized treatment and/or LOA from school/sport

Referral to appropriate providers

Collaboration with providers throughout treatment



PHARMACOTHERAPY

Anorexia Nervosa

- Limited role in acute treatment
- Nutrition = medication
- Psychiatric conditions may worsen or improve
- Fluoxetine may decrease relapse rate in weight restored patients (Kayne et al., 2001)
- Atypical antipsychotics
- Benzodyazabines contraindicated



- Antidepressants
- Mood stabilizers
- Studies comparing psychotherapy to antidepressants = psychotherapy had better improvement
- Wellbutrin contraindicated

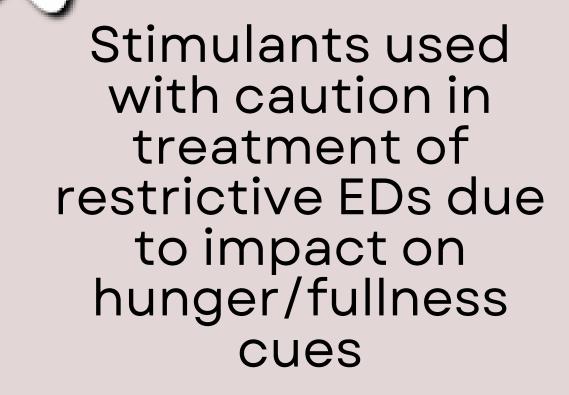


PHARMACOTHERAPY

FDA Indicated medications for BED:

Vyvanse Prozac

www.fda.gov







BEHAVIORAL CONCERNS

- Student's relationship with food, exercise, and/or their body is getting in the way of the college experience
- Mood dysregulation getting in the way of academic performance and social interactions

- Lack of medication compliance
- Self-injury
- Substance use
- Suicidal thoughts and/or actions
- Increased risky or impulsive behaviors

- Social isolation and/or avoidance of social gatherings that involve food
- Change in clothing and/or appearance (ex: poor ADLs)
- Unable/unwilling to follow treatment recommendations











COMMON CONCERNS ON CAMPUS

Food Insecurity

Lack of consistent access to food

20-50% college students affected

Contributors:
"non-traditional"
students, lower
income students,
rising education
costs

Dining Hall

Overwhelm with food choices

Lack of meal planning

Avoidance due to food choices, social eating

Academics/ Athletics

Food should not take back seat to academics/athletics

Athletes - under fueling for sport

Inadequate nourishment impacting academic performance



COMMON CONCERNS FOR ATHLETES



- Increased nutritional needs
- Pressure to perform
- •Emphasis on weight/shape
- •Reinforcement of disordered eating behaviors
- •Finding times to eat around school & practice schedule
- •Research showed overall low nutrition knowledge in college athletes



COMMON CONCERNS ON CAMPUS

Impact of Food Insecurity

Higher stress
Depression
Poor sleep quality
Disordered eating (restrict/binge cycle)
Hoarding food
Academic performance/GPA
Lower nutritional quality in diet



COMMON CONCERNS ON CAMPUS Food Insecurity

On Campus

Food Pantry

Meal Donations

(students donate meal plans)

Meal Swipe Donations

(ex: Swipe Out Hunger, non-profit)

Off Campus

Food Pantry

(brick and mortar, mobile)

Federal Program

[Supplemental Nutrition Assistance Program (SNAP)]

Lack of awareness of programs & eligibility



STRATEGIES FOR DIETITIANS

Prioritize Meals

Flexible structure: create list of meals & snacks

Assess take-out options

View menus to familiarize self with options

Identify meal supports

Meal Planning

Meal budget if not on meal plan

Shop the sales!

Easy recipes; Frozen meals

Grocery shopping

Plan for class/athletic schedule

Meal Prep

Focusing on balanced nutrition vs. calories

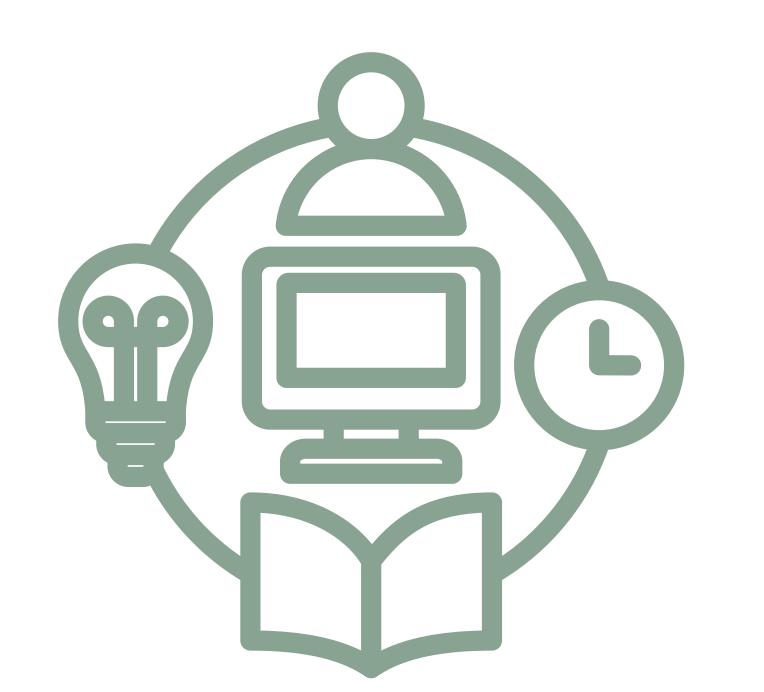
Variety within budget parameters

No skipping meals/snacks

Portable snacks

Balance convenience with homemade meals













FINANCIAL

Tuition, scholarships
(academic and
athletic) student
housing, lack of
financial resources,
food insecurity



INSURANCE

Lack of virtual coverage, international policies



PARENTAL/SUPPORT INVOLVEMENT

Reluctance to involve supports, unsupportive parents, fear of parental response

SHAME & SECRECY

Denial of illness severity, fear of leaving school

STUDENT ATHLETES

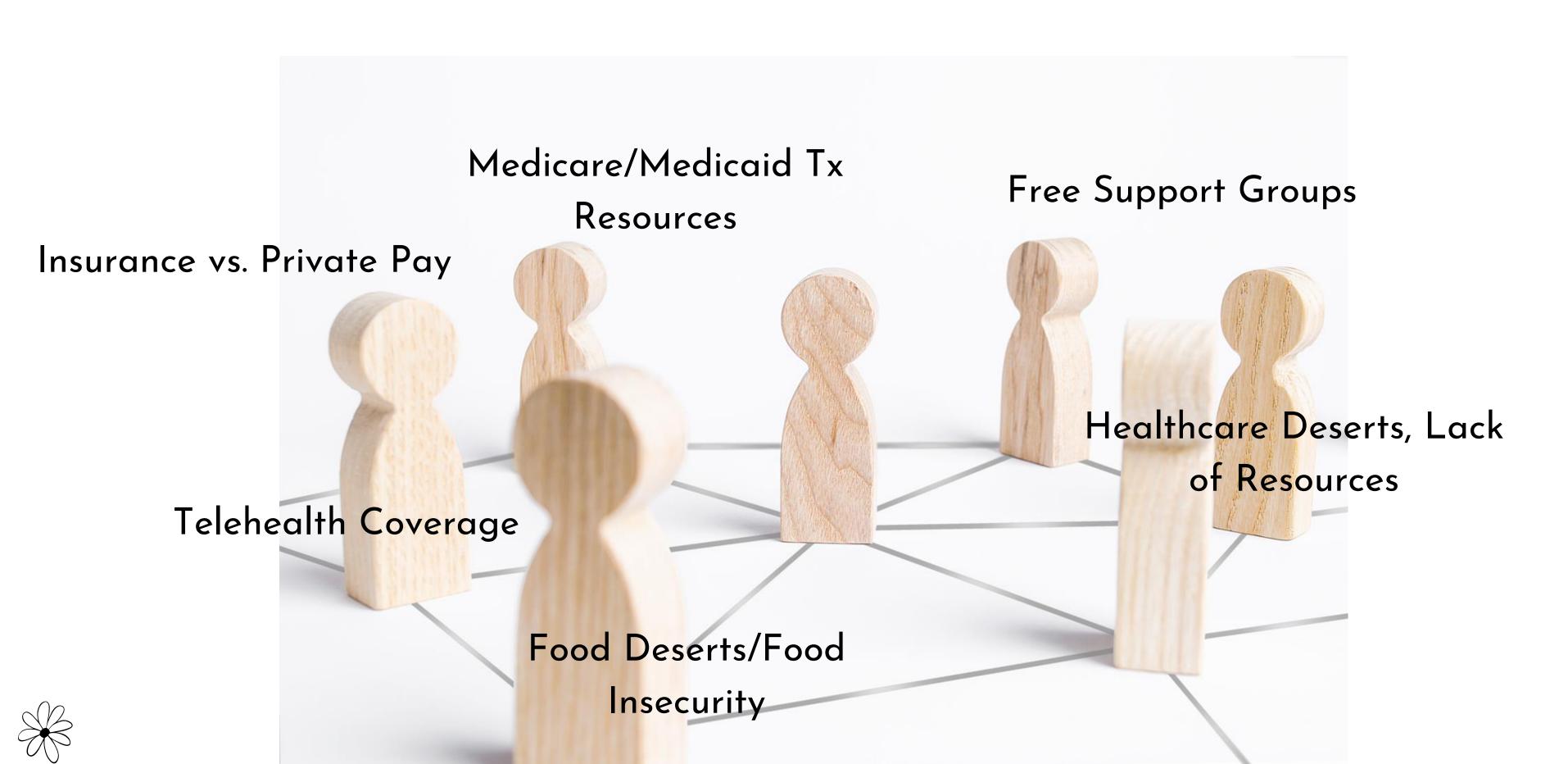
Scholarships, training, balance school/athletic obligations

INTERNATIONAL STUDENTS

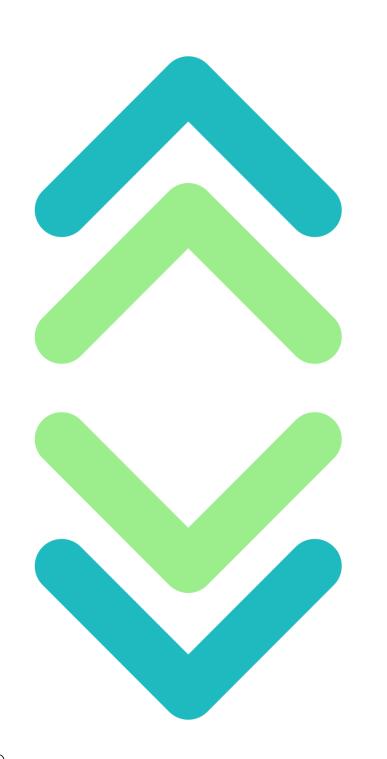
Student visas, insurance barriers, lack of support, understanding of mental health



RESOURCE ALLOCATION



PREVENTION VS. HARM REDUCTION



Primar y

- Prevention
- Prevent the use or delay first use of behavior

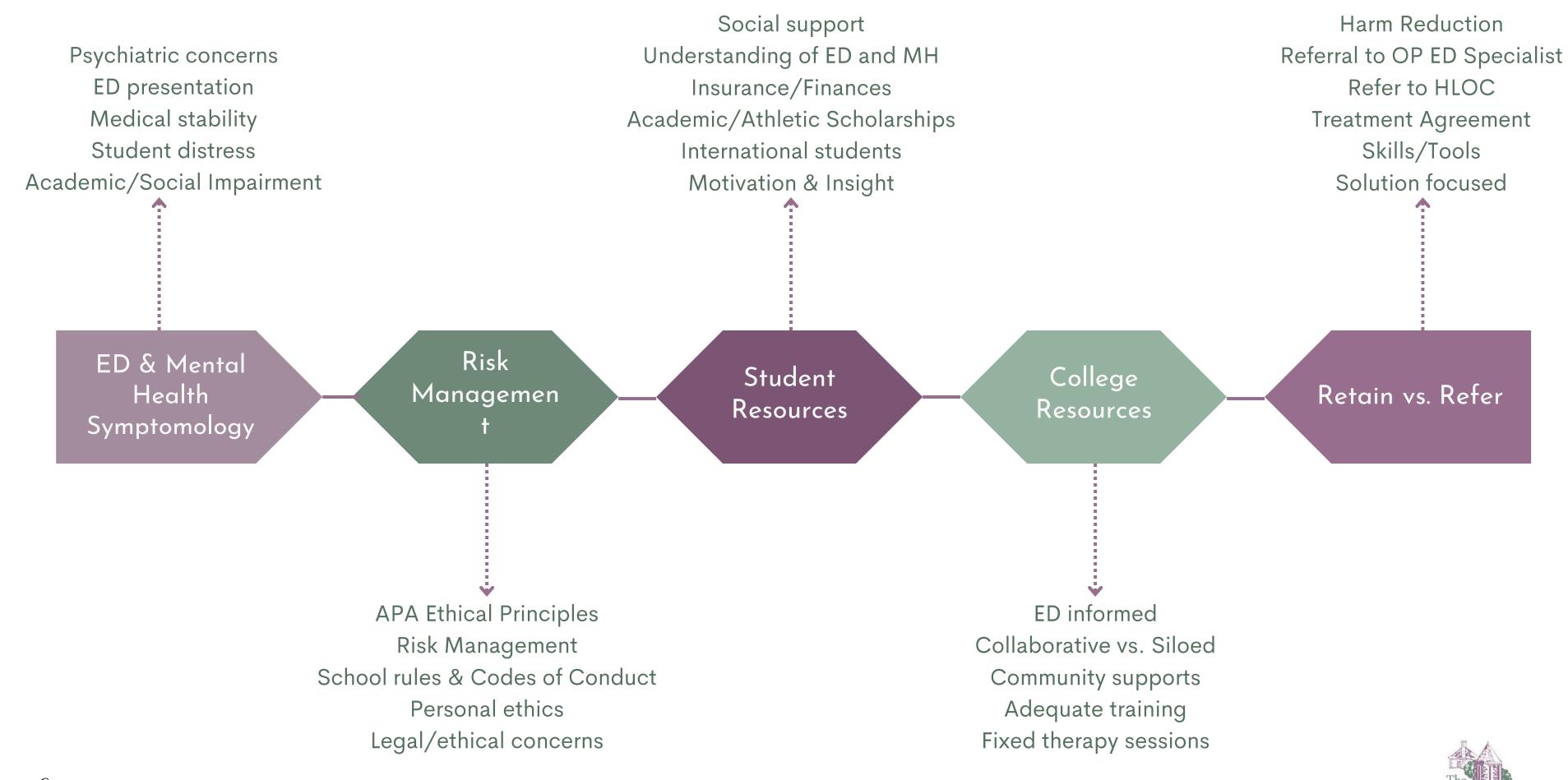
Secondary

- Early Detection
- Reduction of behaviors once started

Tertiar y

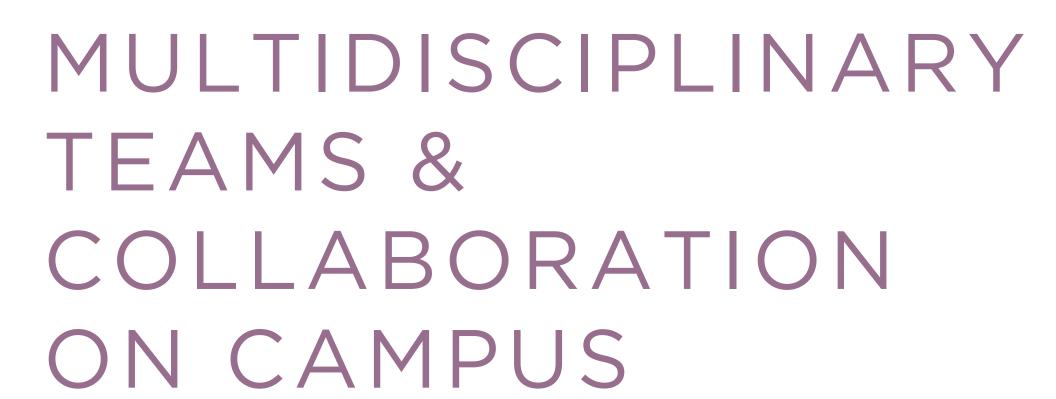
- Harm Reduction
- Reduce behaviors to prevent further harm, illness, or death

















Student/Client/Patient





Family/Supports

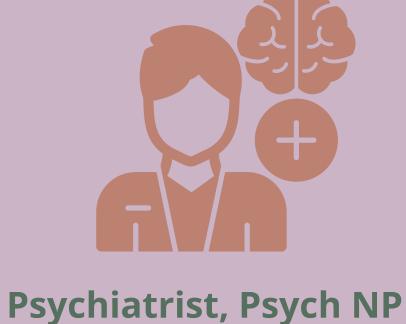
Multidisciplinary Team







Registered Dietitian







ADDITIONAL SUPPORTS TO CONSIDER

Friend, teammate, partner, mentor, spiritual leader

Coach, RA, athletic trainer

Sports medicine doctor, exercise physiologist





WHAT'S MY ROLE?

Primary Care Physician

Medical clearance & follow-up

Physical exam

Monitor labs/vitals

Weight monitoring

Nutrition Therapy

Establish meal plan

Monitor weight trends

Weight restoration (if applicable)

Monitor compensatory behaviors

Meal planning



WHAT'S MY ROLE?

Therapist/Counselo

r

Diagnosing and treating co-occurring mental health issues

Identifying ED specific treatment goals

Monitor use of emotion regulation skills

Assess readiness for change/Motivation

Psychiatrist/Psych NP

Psychotropic medication

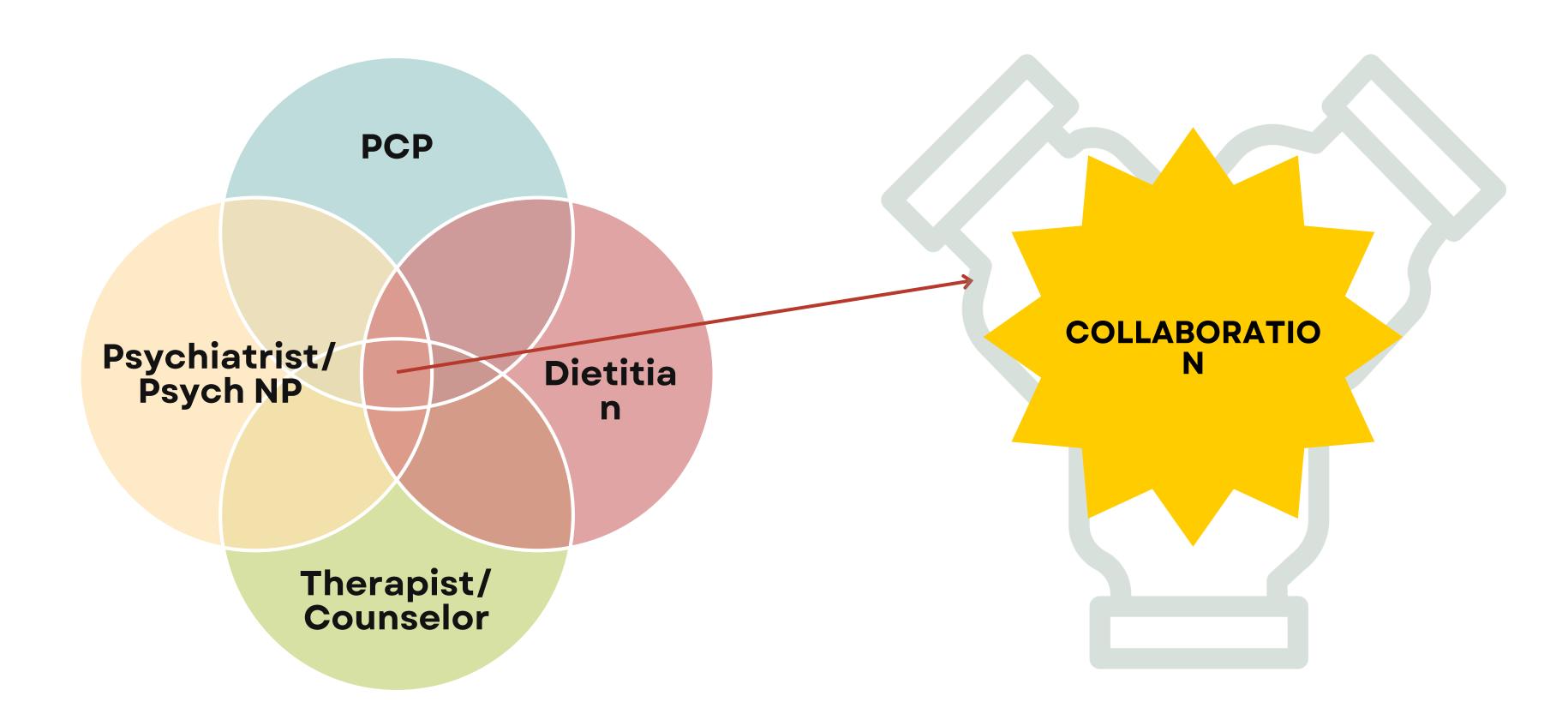
Monitor co-occurring mental health issues

Monitor labs, vitals, weight trends

Education about severity of ED and other symptoms



COLLABORATION IS ETHICAL PRACTICE













CONSULTATION STRUCTURE Primary Care Physician



Significant issues with academics/athletics

Significant social stressors; relational ruptures

Big life changes



FOCUS POINTS

Weight trends

Labs/Vitals, Physical symptoms

Consistency with medical recommendations

Medical risk based on current symptoms



CONSULTATION STRUCTURE Psychiatrist/Psych NP

TOUCH POINTS

Monitor substance use

Changes to mood

Significant shift in behavior (i.e. impulsivity)



FOCUS POINTS

Weight trends

Labs/Vitals, Physical symptoms

Compliance with prescribed medications

Psychiatric concerns, Safety risks

Changes in medication



CONSULTATION STRUCTURE

Dietitian



TOUCH POINTS

Significant updates related to food insecurity

Changes to support system

Barriers to meal plan consistency



FOCUS POINTS

Weight trends

Meal plan consistency

Compensatory behaviors

Willingness to challenge self with food

Goals for the week

Changes to meal plan



CONSULTATION STRUCTURE Therapist/Counselor



TOUCH POINTS

Significant issues with academics/athletics

Significant social stressors; relational ruptures

Changes in mood



FOCUS POINTS

Insight into illness

Motivation, Values

Use of helpful tools/skills

Reduction in ED behaviors

Willingness to lean into discomfort

Progress toward goals











EDA GRAPH

Self-monitoring Eating Disorder, **D**epression, **A**nxiety daily

Build awareness of relationship between antecedents and emotional responses

Snapshot of emotional experience

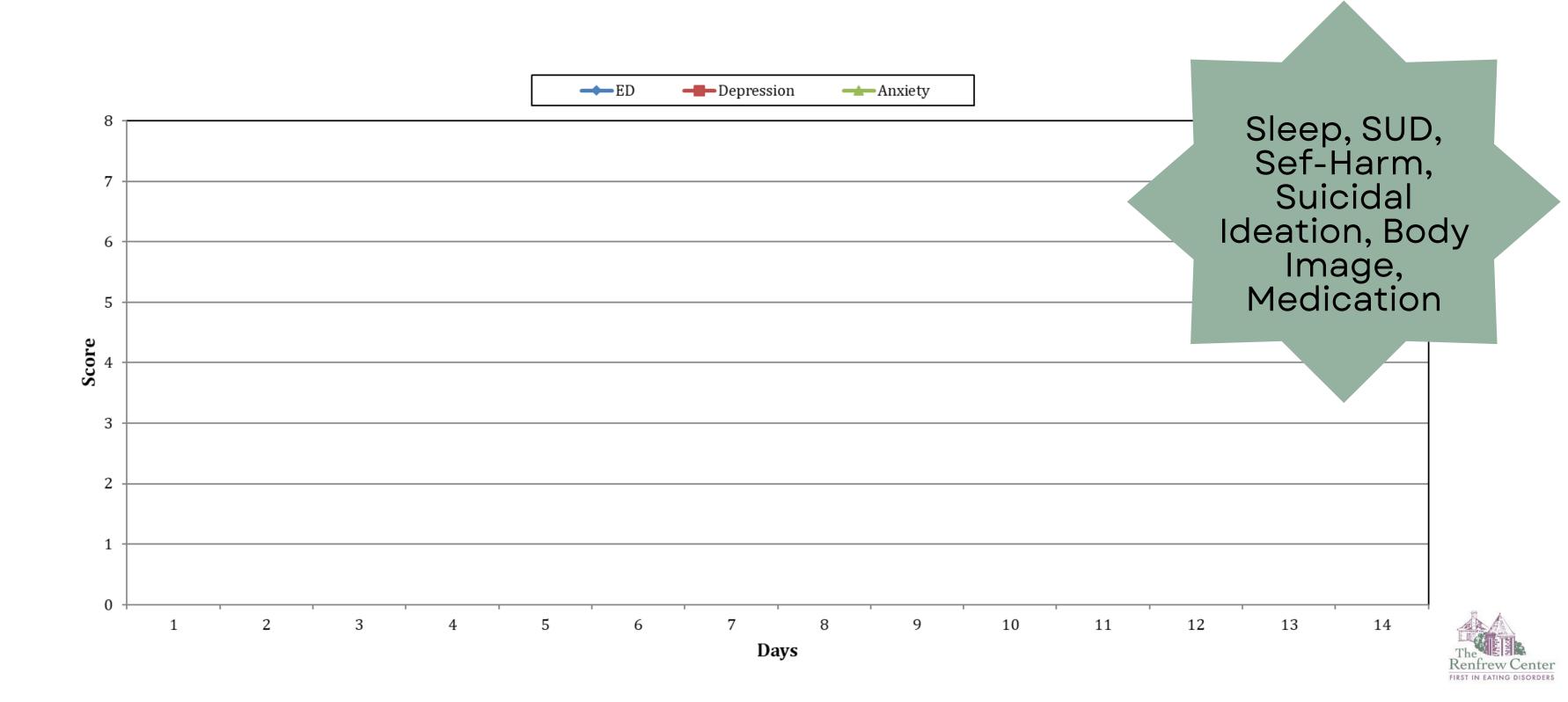
Evidence that emotion states don't last





PROGRESS MONITORING WITH THE EDA:

DAILY EATING DISORDER, DEPRESSION, AND ANXIETY FORM





FOOD & EMOTION JOURNAL



- Not always indicated
- Reviewing food logs and planning regular eating
 - Increased awareness of thoughts & emotions that impact regular eating
- Not a diet
- Focus: the emotion attached to eating

DIETITIAN REVIEW - FEJ

			s section & your s EFORE your mea	ı		
- -	Exchanges		Descriptions	Meal Intention	Antecedents	
FO	r IE and FO onl	y.	Briefly record the serving	State a specific goal for this meal. Your	Coming into the meal, what are the	Food riels burges ofter
	Record the		sizes (i.e. cup,	goal should be really	antecedents to your	Food risk - purges after
ex	changes for you	r	spoon, ounces)	concrete and should	experience; i.e. the	eating cheese and
	meal.		& what your	describe exactly how	situation or trigger for	
			meal consisted	you plan to achieve it	-	bread
_		_			experience of the meal?	Dicad
	Protein	3	Grilled cheese	I um not going to	1 had a tough session	
ł	Deies Protei	_	(3sl) on	tear my sandwich	this morning & I feel	
	Dairy Protein 1 Starch 2	$\frac{1}{1}$	2sl. wheat	into small pieces by:	tired & stressed. Then	
		2	bread,	taking bites using 1	the group before lunch	
ŀ	Fats		1c. milk,	hand to hold the	w as emotionally quite	
		3	1 side salad	sandwich & putting	moving for me. Last	Challenge - hold
	Fruit	ruit 1 2T dressing the sandwich down night I was up too late	sandwich and put dowr			
ŀ		_	1c. apple juice	apple juice between bites as well. Overall, I'm	between bites	
nch L	Veggie	1	2 chocolate		feeling low on my	
3	Dessert	1	chip cookies		energy resources today	
	Supplement	0				Context - what contributes to the emotional experience of the meal?



WHY ARC?



- Our brain in slow-motion
- Awareness to historical antecedents
 - Oppression, marginalization, institutional racism, gender inequality, "other" identity, weight stigma, etc.
- Increased understanding of how emotional experiences unfold



Monitoring experiences

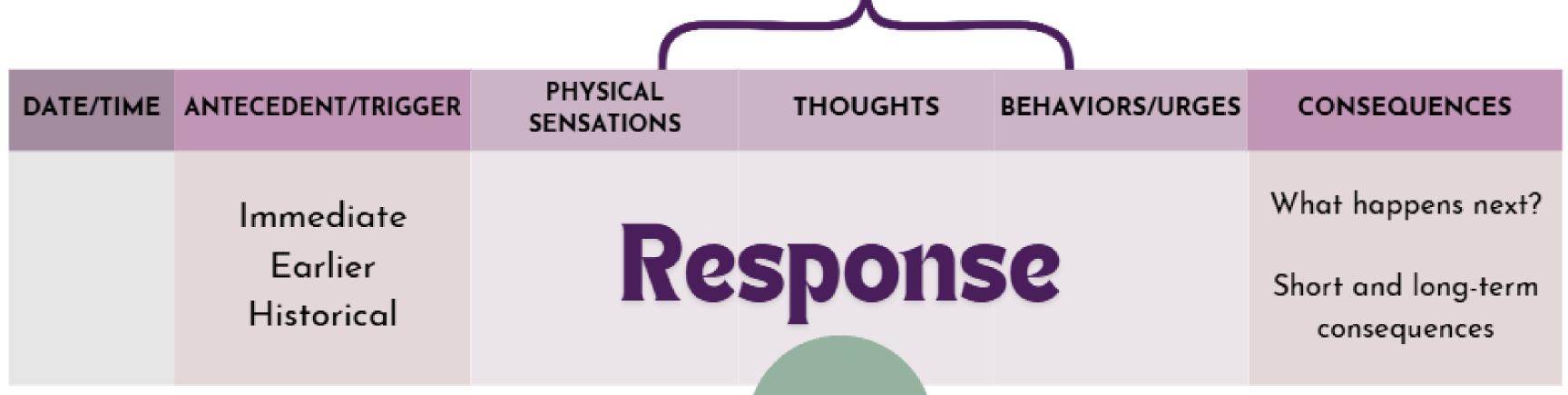
Better understanding of these experiences

More sustainable response

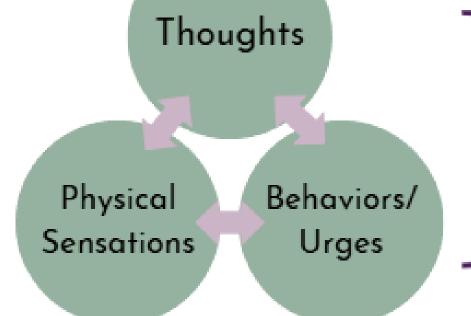


THE "ARC" OF AN EMOTIONAL EXPERIENCE

EMOTION(s): _____



Develop an **understanding** of the antecedents and consequences of common emotional experiences.



3-Component Model



AVOIDANCE STRATEGIES

COGNITIVE

Dissociation

Intellectualizing

Suicidal ideation

Distraction

Rumination

SUBTLE BEHAVIORAL

Humor

Shrinking body

Avoiding eye contact

Shaking foot

SAFETY SIGNALS

Sharps

Medications

Pets

Water bottles

Journals

GOAL: Practice alternative action tendencies

Congruent affect, staying in the present moment (3-point check), anchoring/grounding, sitting upright, naming emotions











TOUGH CONVERSATIONS

If you have concerns about behaviors, say something

Be clear when discussing concerning behaviors

It is **our responsibility** to inform students that there is a problem (informed consent, ethical duty)

We have a responsibility to provide **support** where we can and discuss alternate supports that might be necessary

Choose your moment with compassion; regulated students are better able to receive and integrate information

Validate their emotions and fears (considering treatment is overwhelming!)

Know what your school has to offer related to support, medical leave, and/or accommodations

Avoid power struggles and revisit the conversation later

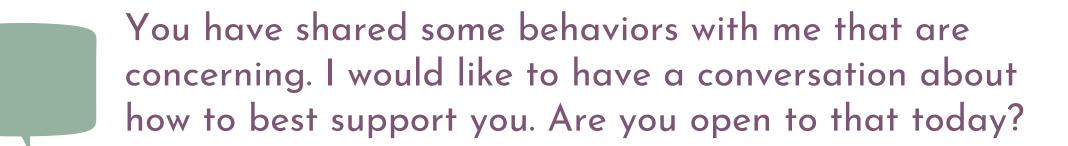
Be prepared for setbacks and ambivalence

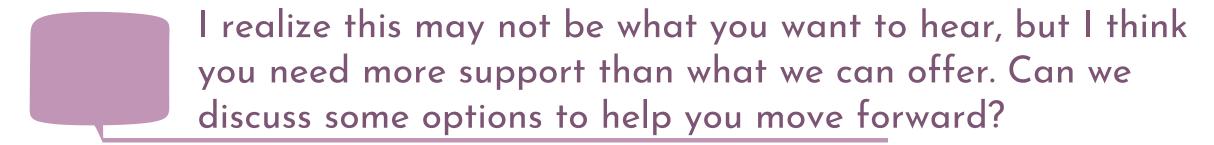


HELPFUL PHRASES











You have continually shared that these behaviors aren't a big deal. I'm curious what would need to happen for you to be concerned.

I notice when we meet you often avoid talking about your eating disorder. I'm curious to hear what makes that so difficult for you.



TREATMENT AGREEMENT ESSENTIALS

Eating Disorder

Mental Health

Social

Medical

Academic & Athletic

Skills & Tools

Meal completion
Food risks
Reduction of B/P
Moderate activity
Meal support
Accountability
Food Journals
Body tolerance
Weight
restoration
Flexibility

Medications
Safety concerns
Safety plan
Substance use
Anxiety
Depression
Self-harm
Cognitive
flexibility
Trauma
Sleep

Social eating
Social
engagement
Supports
Spirituality/Faith
Clubs
Mentorships
Recovery coach
Sponsor
Support groups

Stability of vitals
(including HR)
Weight
Labs
Dizziness
Lightheaded
Fainting episodes
Orthostasis
Hypertension
Blood
(stool, vomit,
urine)

Academic/
Athletic demands
Coach/Trainer
Counselor/RA
Trainer
Classwork
completed
Attending class
Adequate fueling
Concentration

Coping
skills/tools
Ability to use skills
Delay action
Journal
Utilize supports
Meetings/groups
Distress
tolerance
Ask for help
Identify
antecedents
Boundaries



WHAT ARE WE WILLING TO DO?

CLIENT RESOURCES

Are they able to make small improvements?

Are they willing to increase ANY support?

Are they able to identify safety strategies?

RISK MANAGEMENT

What are the risks managing someone who is at medical risk?

What does the school have in place to help make decisions?

Is harm reduction appropriate?

RETAIN vs REFER

What progress do we need to see?

Collaboration!

What is our boundary when we are no longer working ethically?

NON-PROFIT ED RESOURCES







Project HEAL

- Leading nonprofit in the U.S. providing free, peer support services to anyone struggling with an eating disorder.
- Virtual support groups, a Helpline, and mentorship program

The Jennifer Mathiason Fund

 Offers need-based financial assistance to individuals with an eating disorder diagnosis who are seeking treatment at residential facilities or intensive partial hospitalization program facilities

Kirsten Haglund Foundation

- Provide hope, networking and financial aid to those seeking treatment and freedom from eating disorders.
- Referrals and resources, scholarships for treatment





STUDENT ED RESOURCES



National Association of Anorexia Nervosa & Associated Disorders (ANAD)

- Leading nonprofit in the U.S. providing free, peer support services to anyone struggling with an eating disorder.
- Virtual support groups, a Helpline, and mentorship program



The National Alliance for Eating Disorders

- Nonprofit organization providing referrals, education, and support for all individuals experiencing eating disorders and their loved ones
- Free weekly support groups, free helpline, professional education & training



Multi-Service Eating Disorders Association (MEDA)

- Dedicated to the prevention and treatment of eating disorders so that every body has access.
- Provide and expand access to treatment and recovery services, educate the community, train professionals, and advocate for policies that promote equitable access.





PROFESSIONAL ED RESOURCES



International Association of Eating Disorder Professionals (iaedp)

- Opportunities for networking
- CEDS Certification
- iaedp Annual Symposium



Association for Size Diversity and Health (ASDAH)

- ASDAH envisions a world that celebrates bodies of all shapes and sizes, in which body weight is no longer a source of discrimination...
- Opportunities for development, including educational resources, vetted referral opportunities



Academy for Eating Disorders (AED)

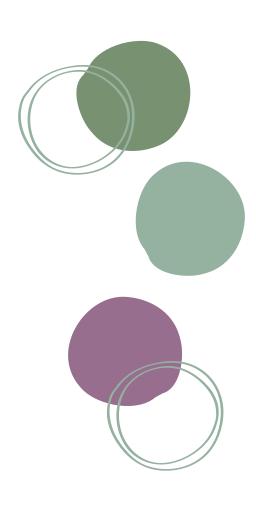
- The mission of the AED is to advance eating disorder prevention, education, treatment, and research by expanding the global community of committed professionals.
- Annual International Conference on Eating Disorders (ICED)











JESSICA BERENS, MS, RD, LDN JBERENS@renfrewcenter.com

LAURA MCLAIN, PSYD, BC-TMH

Imclain@renfrewcenter.com

HOLLY WILLIS, NP

HWILLIS@renfrewcenter.com

Citation



American College Health Association. (2002). National college health assessment summary. Reports_ACHA-NCHAIII

American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed.). Washington, DC: Author.

Cerea, S., Bottesi, G., Pacelli, Q. F., Paoli, A., & Ghisi, M. (2018). Muscle Dysmorphia and its Associated Psychological Features in Three Groups of Recreational Athletes. Scientific reports, 8(1), 8877. https://doi.org/10.1038/s41598-018-27176-9.

Eisenberg, D. et al., 2023. The Healthy Minds Study: National Report 2021-2022, The Healthy Minds Network. United States of America. Retrieved from https://policycommons.net/artifacts/3494971/hms-national-report-2021-22/4295519/ on 14 Apr 2023. CID: 20.500.12592/b15ncf.

Ganson et al, Masculinity and Muscle Dysmorphia in Mixed Gender Canadian Youth, Sex Roles (2024). DOI: 10.1007/s11199-024-01469-y

Ganson, K. T., Hallward, L., Cunningham, M. L., Rodgers, R. F., Murray, S. B., & Nagata, J. M. (2023). Muscle dysmorphia symptomatology among a national sample of Canadian adolescents and young adults. Body image, 44, 178–186. https://doi.org/10.1016/j.bodyim.2023.01.00.

Ganson, K. T., Hallward, L., Rodgers, R. F., Testa, A., Jackson, D. B., & Nagata, J. M. (2023). Associations between violent victimization and symptoms of muscle dysmorphia: Findings from the Canadian Study of Adolescent Health Behaviors. Body image, 46, 294–299. https://doi.org/10.1016/j.bodyim.2023.06.014.

Ganson, K. T., Hallward, L., Rodgers, R. F., Testa, A., Jackson, D. B., & Nagata, J. M. (2023). Contemporary screen use and symptoms of muscle dysmorphia among a national sample of Canadian adolescents and young adults. Eating and weight disorders: EWD, 28(1), 10. https://doi.org/10.1007/s40519-023-01550-7.

Getz, L. (20089). Orthorexia: When eating healthy becomes an unhealthy obsession. Today's Dietitian, 11(6), p. 40.

Grabe et al. (2008). The role of the media in body image concerns women: A meta-analysis of experimental and correlational studies. Psychological Bulletin, 134 (3), 460-476.

Hudson, J. I., Hiripi, E., Pope, H. G., & Kessler, R. C. (2007). The prevalence and correlates of eating disorders in the national comorbidity survey replication. Biological Psychiatry, 61(3), 348–358. doi:10.1016/j.biopsych.2006.03.040

Citation



Griffiths, S., Murray, S. B., Krug, I., & McLean, S. A. (2018). The Contribution of Social Media to Body Dissatisfaction, Eating Disorder Symptoms, and Anabolic Steroic Use Among Sexual Minority Men. Cyberpsychology, behavior and social networking, 21(3), 149–156. https://doi.org/10.1089/cyber.2017.0375.

Skemp, K. M., Mikat, R. P., Schenck, K. P., & Kramer, N. A. (2013). Muscle dysmorphia: risk may be influenced by goals of the weightlifter. Journal of strength and conditioning research, 27(9), 2427–2432. https://doi.org/10.1519/JSC.0b013e3182825474

Nagata, J. M., Compte, E. J., McGuire, F. H., Lavender, J. M., Brown, T. A., Murray, S. B., Flentje, A., Capriotti, M. R., Lubensky, M. E., Obedin-Maliver, J., & Lunn, M. R. (2021). Community norms of the Muscle Dysmorphic Disorder Inventory (MDDI) among gender minority populations. Journal of eating disorders, 9(1), 87. https://doi.org/10.1186/s40337-021-00442-4.

Lipson, Zhou, Abelson, Heinze, Jirsa, Morigney, Patterson, Singh, & Eisenberg (2022). Trends in college student mental health and help-seeking by race/ethnicity: findings from the national Healthy Minds Study, 2013-2021. Journal of Affective Disorders.

Mayman, S., Henderson, K. A., & LeFrance, A. (2019). Emotion-focused family therapy: A transdiagnostic model for caregiver-focused interventions. Washington, DC: American Psychological Association.

National Eating Disorders Association. (2022). What are eating disorders? What Are Eating Disorders? | Learn | NEDA (nationaleating disorders.org)

Pompili, S., Bianchi, D., Di Tata, D., Zammuto, M., Lonigro, A., & Laghi, F. (2022). Investigating the relationship between food and alcohol disturbance and coping styles among young adults. Journal of Substance Use, DOI: 10.1080/14659891.2022.2070874

Rogoza, R. & Donini, L. (2021). Introducing the ORTO-R: A revision of ORTO-15. Eating and Weight Disorders – Studies on Anorexia, Bulimia and Obesity, 26: 887-895. doi: https://doi.org/10.1007/s40519-020-00924-5

Tester, J. M., Lang, T. C., & Laraia, B. A. (2016). Disordered eating behaviours and food insecurity: A qualitative study about children with obesity in low-income households. Obesity Research & Clinical Practice, 10(5), 544-552. doi:10.1016/j.orcp.2015.11.007

Thompson-Brenner, H. et al. (2021). The Renfrew unified treatment for eating disorders and comorbidity: An adaptation of the unified protocol, a therapist guide. New York, NY: Oxford University Press.