SLEEP QUALITY AND ACADEMIC PERFORMANCE: IMPLICATIONS FOR STUDENTS AND ATHLETES

Ian Birky, Ph.D







ACADEMICS

- A majority of counseling centers now ask former clients if their counseling experience helped them remain enrolled in their institutions and/or whether it helped with their academic performance
 - 62% of students indicated that counseling helped them remain in school and 61% stated that counseling helped better their academic performance (ACCA, 2013).

ACADEMICS

Within the last 12 months, students reported the **following factors affecting their individual academic performance**, defined as: received a lower grade on an exam, or an important project; received a lower grade in the course; received an incomplete or dropped the course; or experienced a significant disruption in thesis, dissertation, research, or practicum work; (listed alphabetically):

•	Alcohol use	4.2%	Gambling	0.4%
•	Allergies	2.6%		
•	Anxiety	19.7%	Injury	2.3%
•	Assault (physical)	0.7%	Internet Use/Games	11.7%
	Assault (sexual)	0.9%	Learning Disability	3.3%
	ADHD	5.5%	Extracurricular Activities	8.6%
	Cold/Flu/Sore Throat	15.0%	Pregnancy(yours or partners)	1.0%
			Relationship Difficulties	
•	Chronic Health Problem/Illness	3.6%		
: > :	Chronic Pain	2.9%	STD/Infection	0.5%
•			Sinus Infection/Ear/	5.0%
	Depression	12.6%	Sleep Difficulties	19.4%
	Discrimination	1.2%	Stress	
	Drug Use	1.9%	Work	14.7%
	Eating Disorder/Problem	1.3%	Other	2.0%
	Finances	7.3%		

ACHA National College Health Assessment, Spring 2013

ANXIETY

- Anxiety is the most predominant presenting concern among college students
- ▶ 46.2% of college counseling directors reported anxiety to be the major concern appearing in their center
 - ▶ Up from 41.6% in 2012 (AUCCCD, 2013)



DEPRESSION

- Depression is the second most common presenting concern
- > 39.3% of students presented with depression (up from 36.4% in 2012)





SOCIAL SUPPORT

- In a sample of 533 first year college students, those reporting greater social support from friends and family exhibited less academic stress (Rayle & Chung, 2007).
- Studies have shown that students and people in general with low social support experience more depressive symptoms, anxiety, and other psychological problems compared to students with high social support (Hefner & Eisenberg, 2009).

SLEEP QUALITY

- Poor sleep quality has been found to be related to predispositions for the development and/or exacerbation of psychological distress and mental health concerns (Sateia, 2009).
- College students classified as poor-quality sleepers have reported significantly more psychological health problems like depression and anxiety (Lund et al., 2010; Regestein et al., 2010).
- Student-athletes, experience the added challenge of balancing time commitments with academic and athletic demands (Carodine, Almond, & Gratto, 2002).

PARTICIPANTS

- Participants included students utilizing services at the counseling center (i.e. sports psychology and psychological services)
 - ▶ Some studies included the comparison between athletes and non-athletes
- In total, 774 students was assessed during a 2-3 year period
 - ▶ Biggest study was 422 students (Mean age=19.5, Females= 18.4, males= 238)

Overall Sample (N = 422)				
	n	*		
Age, mean (SD)	19.51	(1.30)		
Female	184	43.6%		
Race: n, (%)				
White	332	78.9%		
African American	-11	2.6%		
Hispanic/Latino	28	6.7%		
Asian American	28	6.7%		
Multiracial	11	2.6%		
Other	3	0.7%		
Prefer not to answer	2	0.5%		

METHODS

- Participants completed online questionnaires assessing the following:
 - Demographic Information
 - Academic Distress-subscale from Counseling Center Assessment of Psychological Symptoms (CCAPS) 62
 - Sleep Quality- Pittsburg Sleep Quality Index (5 or greater on the global sleep quality score (GSQ) was clinically indicative of increasingly poor sleep)

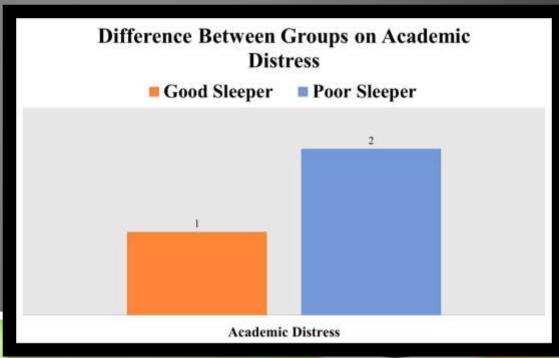
Social Support: "I get the emotional help and support I need from my social network (e.g. friends & acquaintances)" (SDS 2012)

(e.g., friends & acquaintances)" (SDS, 2012)



RESULTS

- Sleep quality correlates with reported academic distress (p<.01)</p>
- Most of the sleep components were also correlated with academic distress (sleep latency, duration, sleep disturbances, daytime dysfunction)
- Findings were consistent such that poor sleep was associated with poorer perceived academic performance



RESULTS

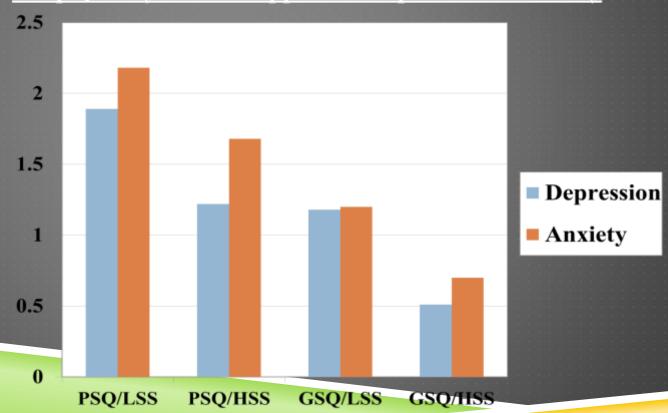
The combination of poor sleep quality and high social support was associated with high levels of academic distress than when good sleep occurred in combination with high social support (p=.010)



DEPRESSION/ANXIETY

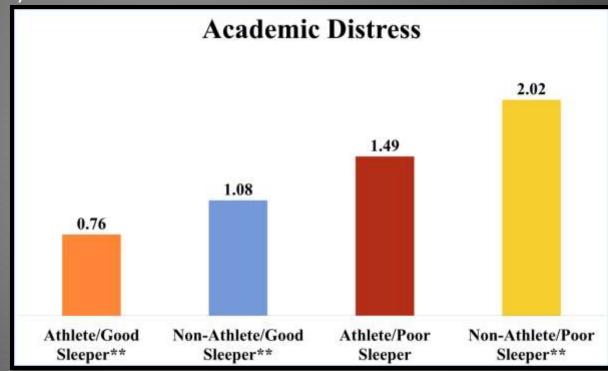
Poor sleep quality and low social support was associated with the highest levels of depression and anxiety compared to groups with one or none of these risk factor (p<.001)

Sleep Quality/ Social Support on Depression & Anxiety



ATHLETES

- Non-athletes reported higher academic distress than athletes
 - Non-athletes who were poor sleepers perceived themselves to be the most distressed academically



CONCLUSION

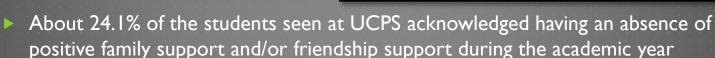
- Sleep quality does in fact impact students perceived academic performance
- Across the board, poor sleep quality and high social support was associated with high levels of academic distress
- Poor sleep quality and low social support was associated with the highest levels of depression and anxiety (same for athletes and nonathletes)
- ► Athletes reported less academic distress than non-athletes
 - Added benefits of participating in a sport?

Ask students more about their sleep habits

Make the connection between lack of sleep and academic progress/mental health outcomes

- Discuss helpful tips
 - Physical exercise
 - Sleep hygiene
 - Mindfulness and relaxation techniques
 - Deep breathing
 - Relaxation podcasts
 - http://www.madinamerica.com/?s=sleep&submit=Searci.

- Smartphone sleep apps
 - Sleep cycle (iOS/iphone app)
 - Sleepbot (android)
 - Sleep as Android
- ► Improve Social Support



- Participate in clubs/campus organizations
- Create a safe space for relationship building and dialogues around diversity



- Seek services at UCPS
 - 62% of students indicated that counseling helped them remain in school and 61% stated that counseling helped better their academic performance (ACCA, 2013).
 - Clinically we know that counseling can help students manage a host of issues, including anxiety, depression, and relationship concerns.
 - http://www.madinamerica.com/?s=sleep&submit=Search



FUTURE DIRECTIONS: RELATIONSHIP ISSUES

- ▶ 35.33% of directors reported students seeking counseling for relationship problems (unchanged from 2012) (AUCCCD, 2013).
- About 24.1% of the students seen at UCPS acknowledged having an absence of positive family support and/or friendship support during the academic year

The End