



آغا خان یونیورسٹی ایگزامینیشن بورڈ
AGA KHAN UNIVERSITY EXAMINATION BOARD



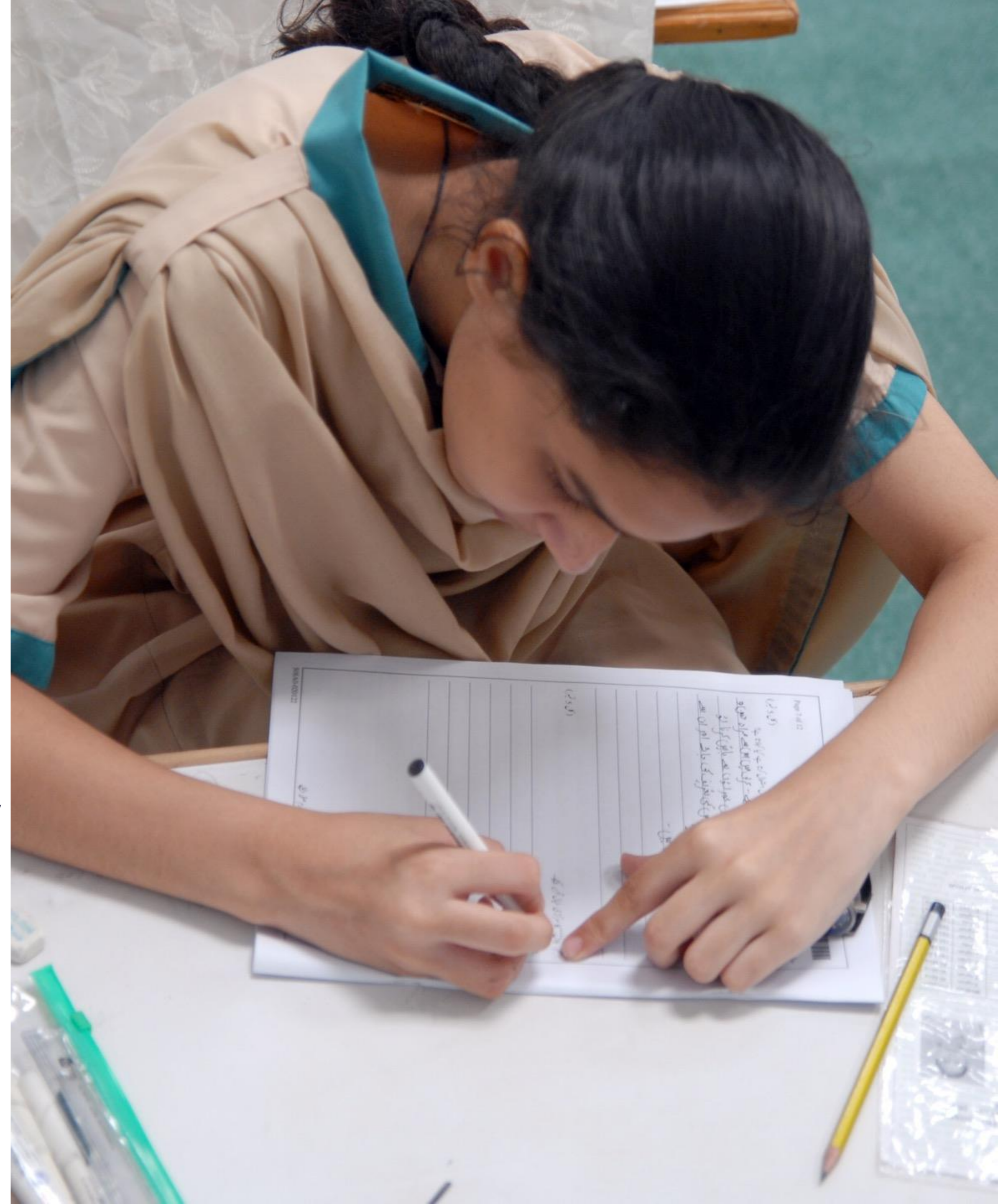
Test Anxiety Levels of Students Studying Under the Aga Khan University Examination Board in Pakistan

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Aga Khan University Examination Board, Pakistan

Education System in Pakistan

- Education System
 - Primary (grade 1-5)
 - Middle (grade 6-8)
 - Secondary/Higher Secondary (grade 9-12)
 - Tertiary Education
- The system faces critical issue of access and quality (**25M Out of School Children**)
- High dropout rates
- High stake Board Examinations - major issues of quality of assessment and conduct of examination – ***Cheating, leakage of exam papers, rote learning, poor assessment and marking etc.***
- 30 Government Examination Boards (**Operating District-wise**)



AKU-Examination Board

Vision

AKU-EB aspires to be a model of excellence and innovation in education for Pakistan and the developing world.

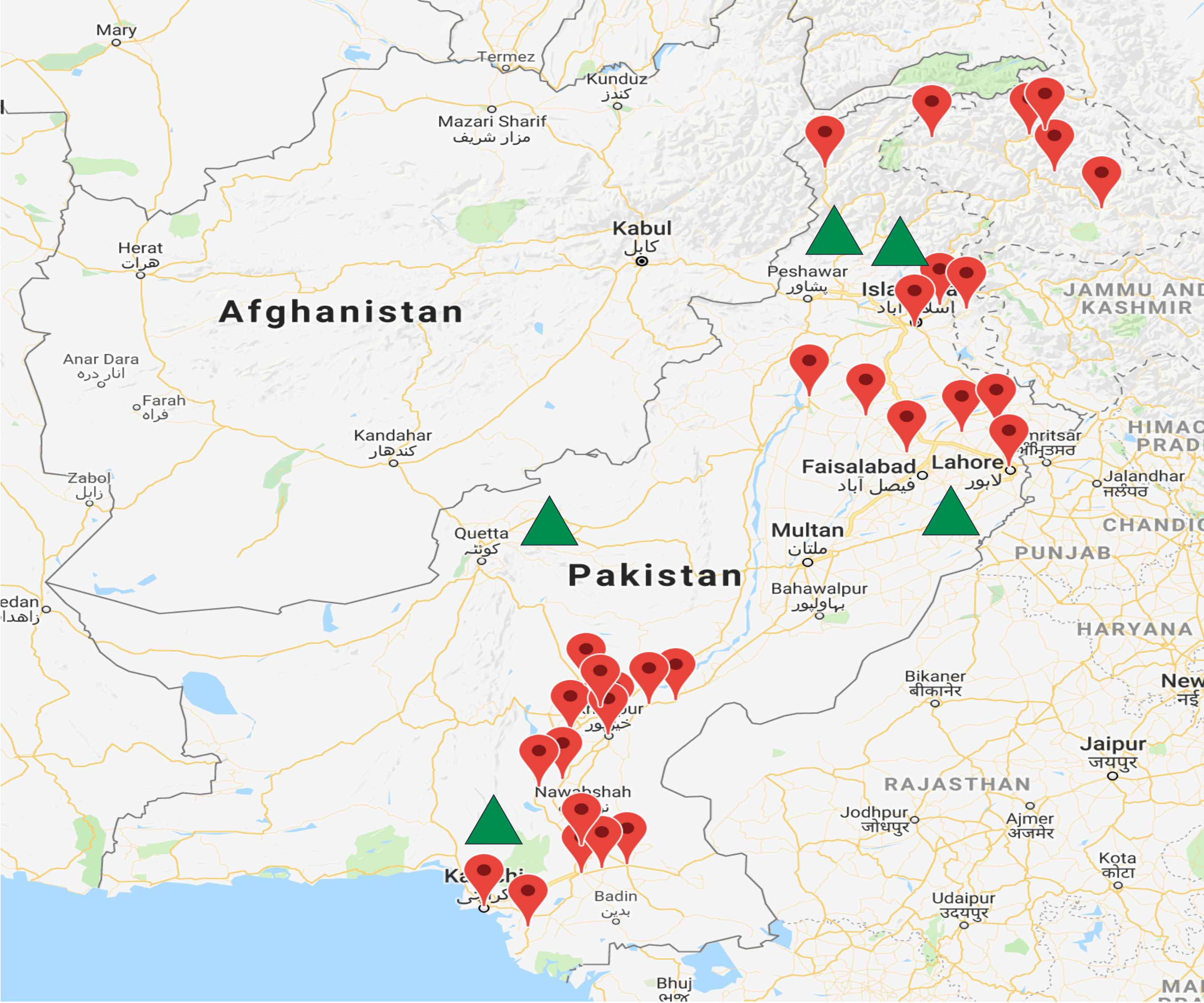
Impact

- a) Increase education quality for low and middle income students at secondary and higher secondary school level.
- b) Inculcate a culture of higher order thinking in youth through high quality, affordable assessments and educational development.

Goal

Catalyze the market to impact quality of exam boards across the nation.





•Geographical locations

•Context

•Cultures

•Socioeconomic Background

•Public and Private

Anxiety

- An emotional and behavioral disorder taking place when sympathetic nervous system activates
- High level anxiety usually takes place in students taking high stake examinations
- Performance is affected depending on the level of anxiety
- Parents and peer pressure – Race for marks/grades
- Admission to colleges and universities are highly competitive due to lack of institutions
- System level issue – reliability and validity issue; in some cases corruption and bribery
- Lack of counseling leading to unable to cope with fear of failure
- Several cases of suicide reported every year

Hill and Wigfield, 1984; Hembree, 1988; McInerney & Marsh, 1997; Hancock, 2001; P. Vitasari, M. N. A.Wahab, et al 2010

Rationale

- Unchecked anxiety → risk that a person may end up in substance abuse or committing suicide
- No studies done on measure anxiety level of school going students in Pakistan.

(Cizek & Burg, 2006).

Objective of the Study

- Measure the test anxiety levels among secondary (9th and 10th) and higher secondary (11th and 12th) school students
- Find if there is any difference in anxiety levels based on student demographics





Method



01

Cross-sectional study of students across the country completing 9th (SSC I); 10th (SSC II); 11th (HSSC I) and 12th (HSSC II) grades in 2018 under the AKU-EB.

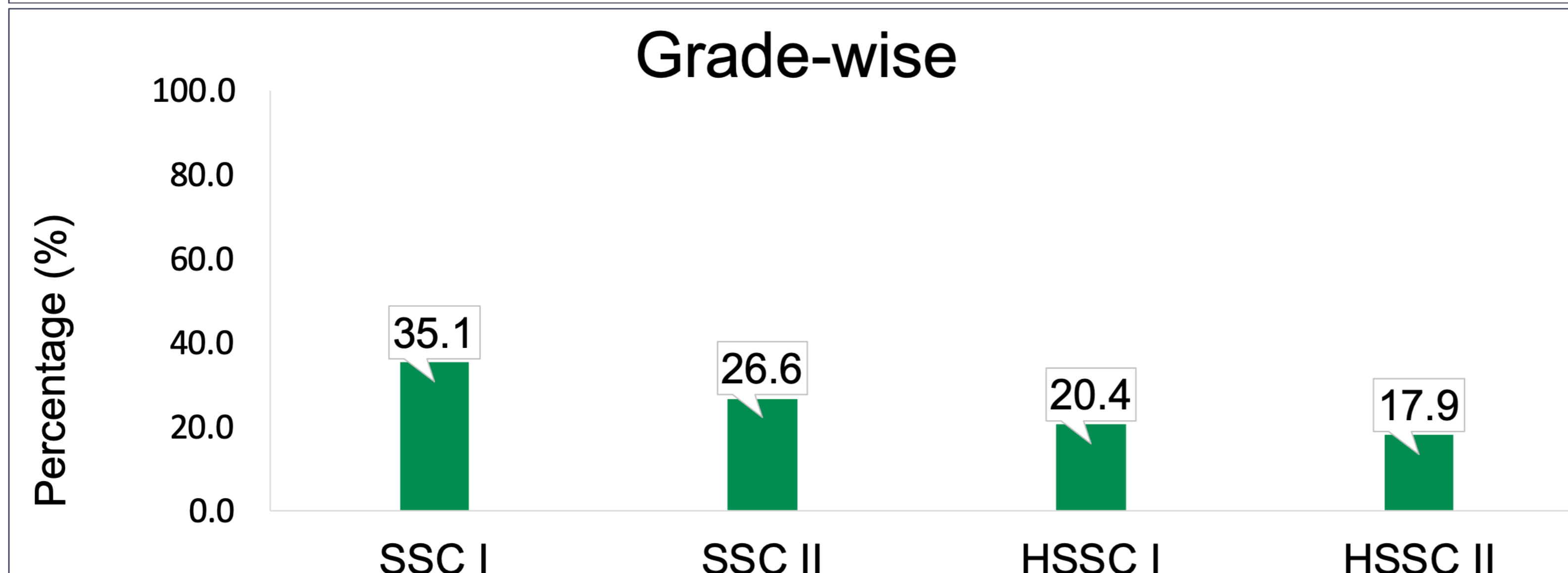
02

Westside Test Anxiety Scale of ten items were used to measure test anxiety levels (after review by three experts for relevance in the local context).

03

t-Test and ANOVA were used to find the differences at 95% confidence level.

Survey Respondents



Overall
Respondents

9,474

Data Reliability



Overall data reliability by
Cronbach's Alpha is
0.80
for all ten items

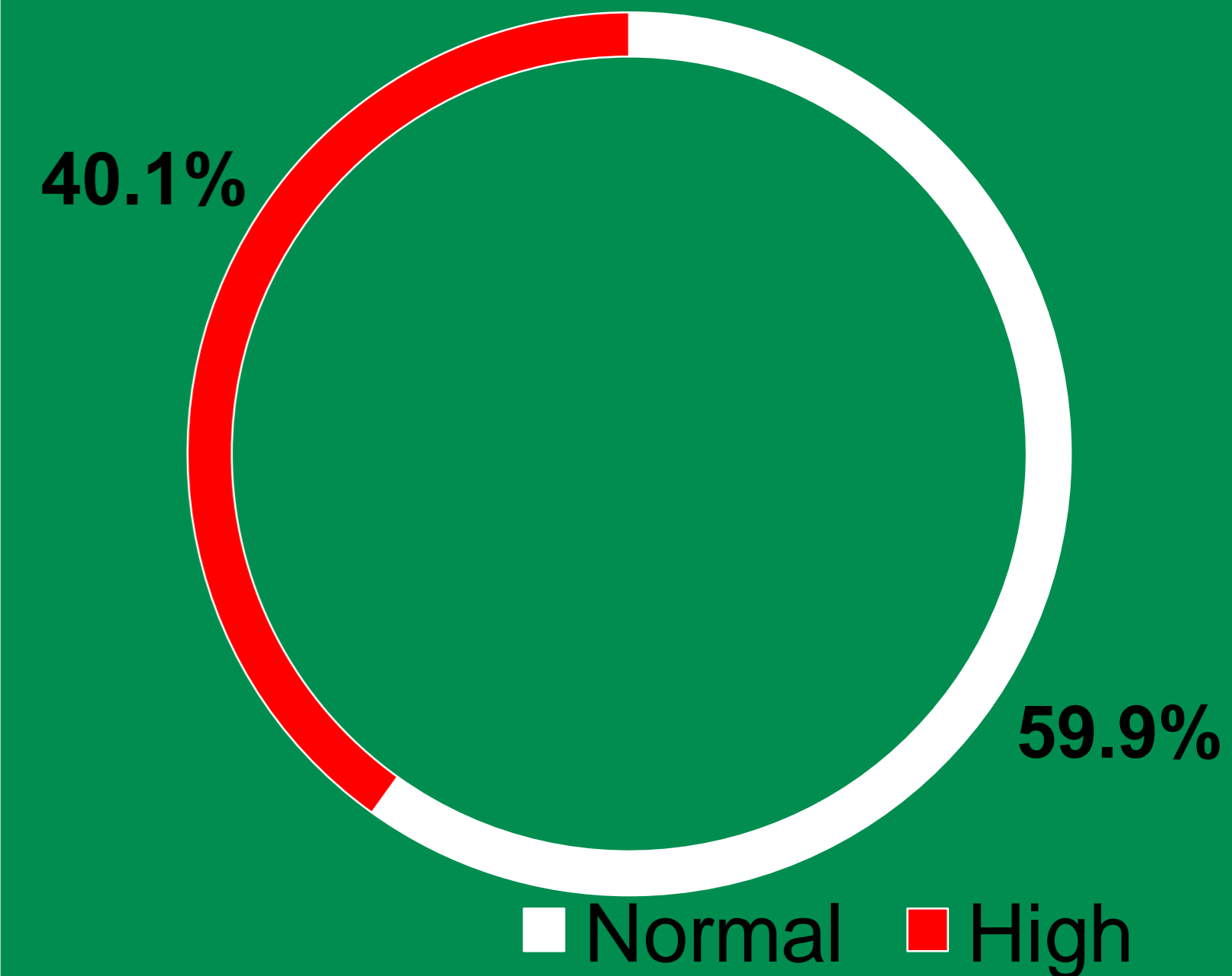
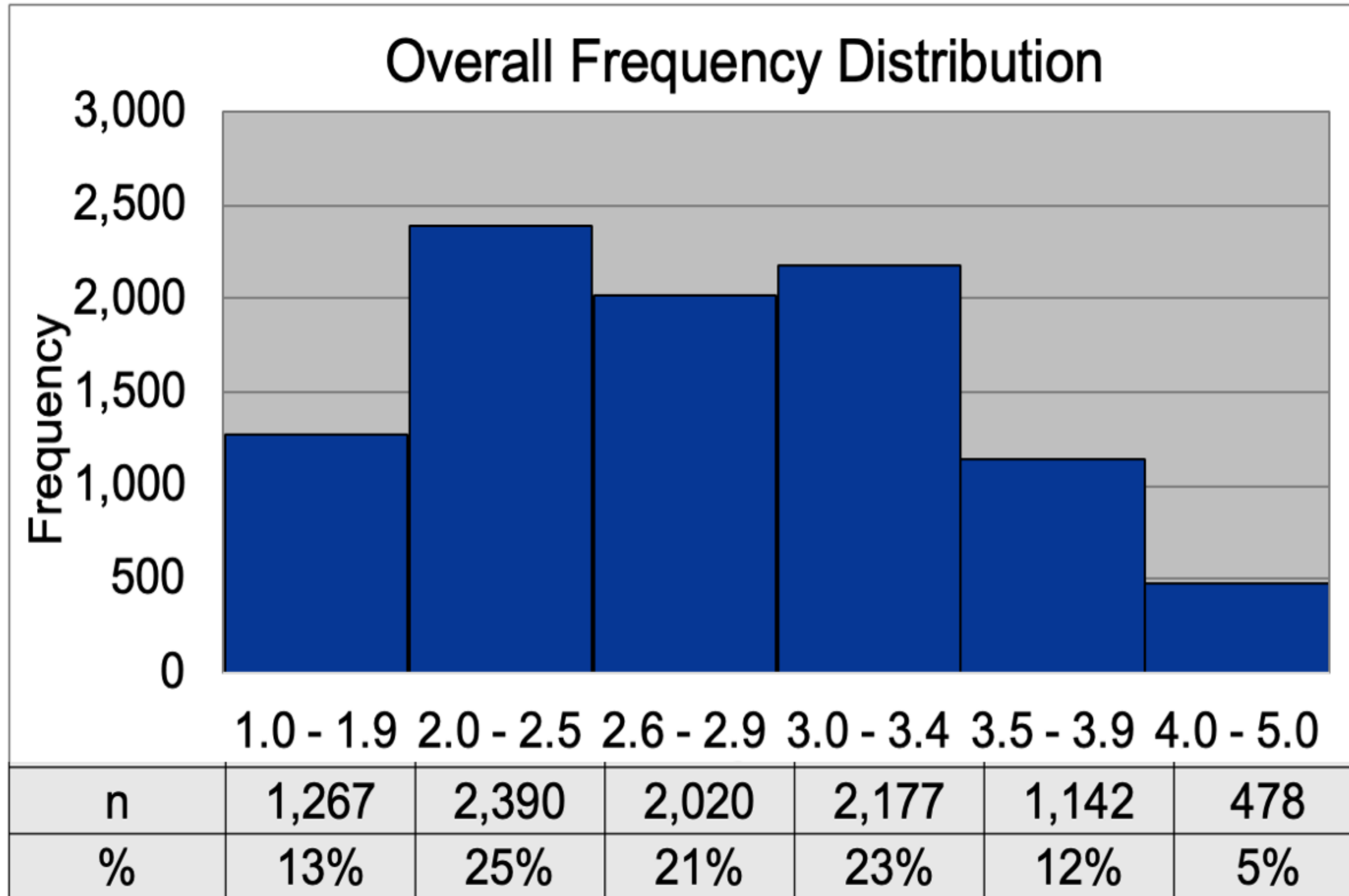


Average Anxiety Score

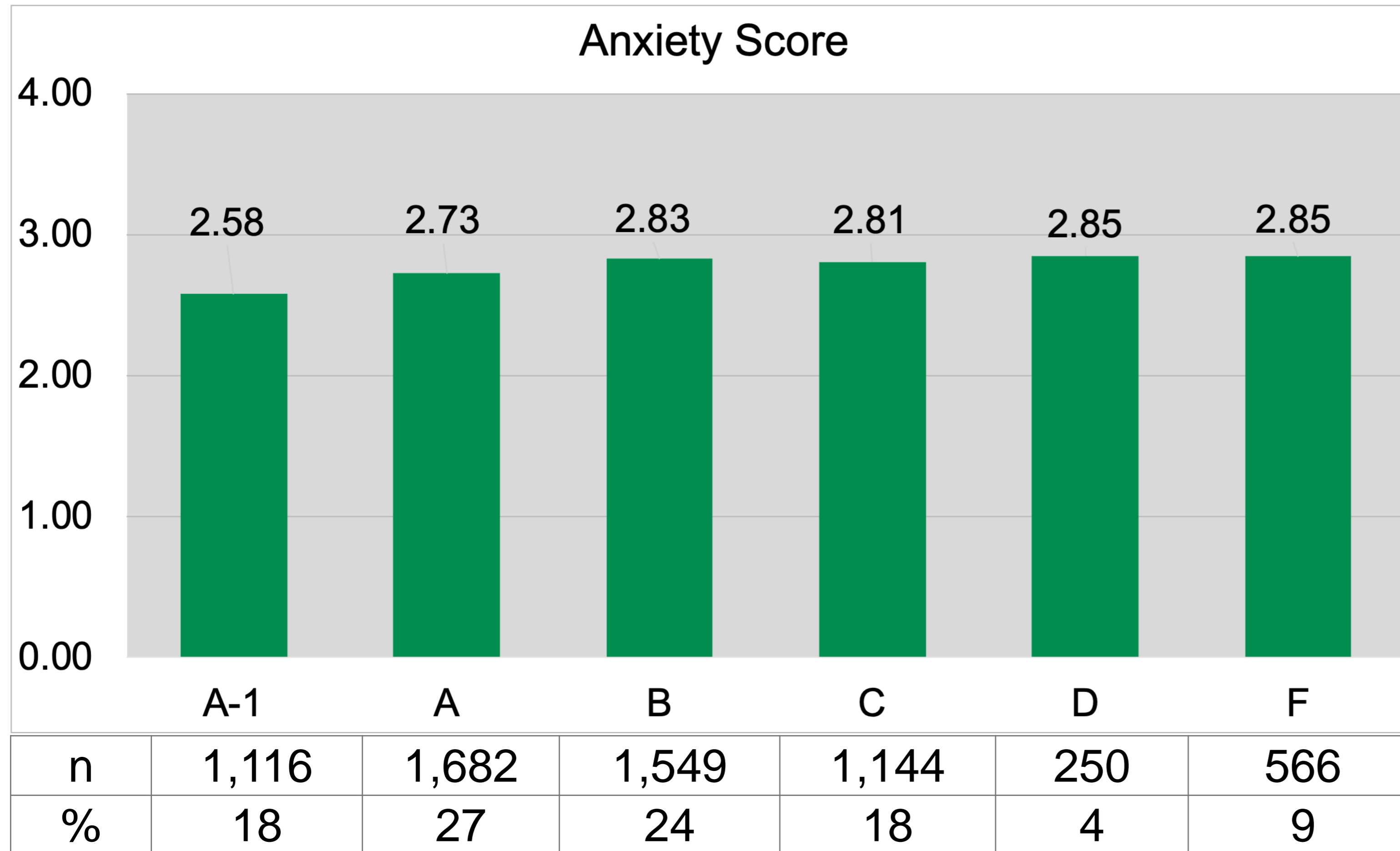
Parameters		Mean Scores	Standard Deviation	Results of t-Test & ANOVA
Overall		2.76	0.71	
Gender-wise	Male	2.71	0.69	Significant difference.
	Female	2.81	0.71	
Certification-wise	SSC	2.66	0.68	Significant difference.
	HSSC	2.89	0.73	
Grade-wise	SSC I	2.67	0.67	Significant difference.
	SSC II	2.66	0.68	
	HSSC I	2.94	0.72	
	HSSC II	2.83	0.72	

Point Scale	Description
1.0 - 1.9	Comfortably low test anxiety
2.0 - 2.5	Normal or average test anxiety
2.6 – 2.9	High normal test anxiety
3.0 – 3.4	Moderately high (some items rated 4 = high)
3.5 – 3.9	High test anxiety (half or more of the items rated 4 = high)
4.0 – 5.0	Extremely high anxiety (items rated 4 = high and 5 = extreme)

Low and High Anxiety Scale Proportion



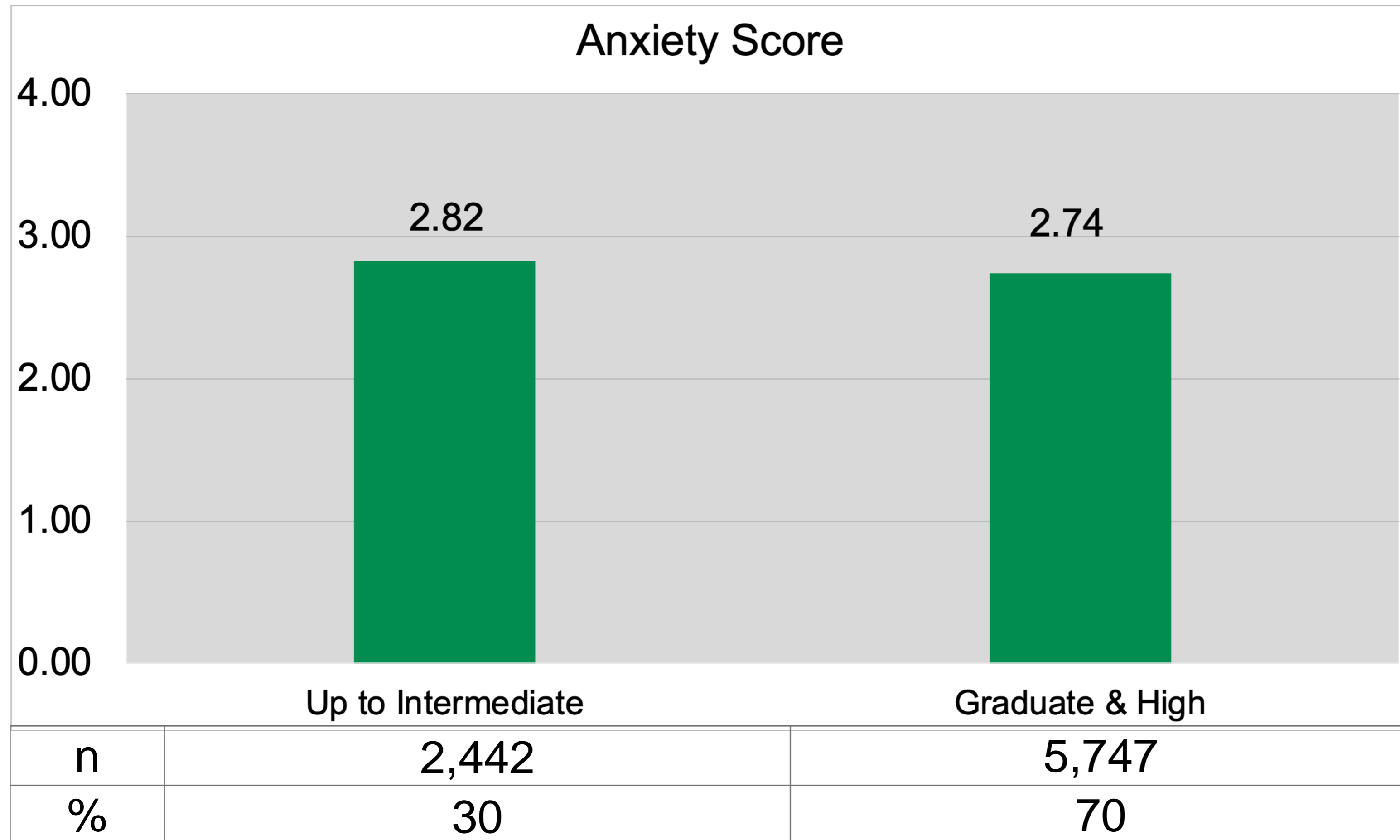
Annual Examination – Student Achievement



The mean difference is statistically significant at the 0.05 level.

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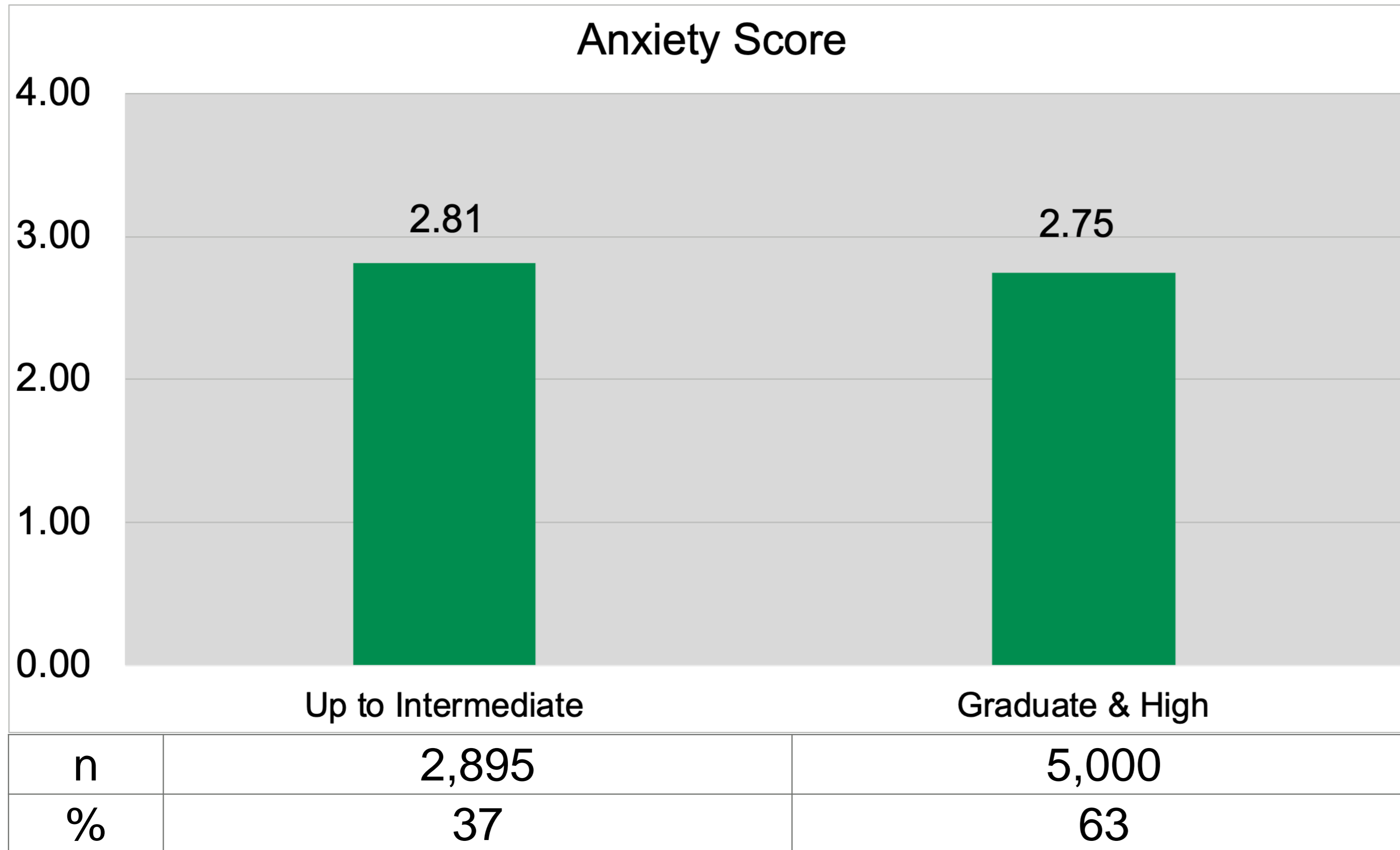
Father's Education



The mean difference is significant at the 0.05 level.

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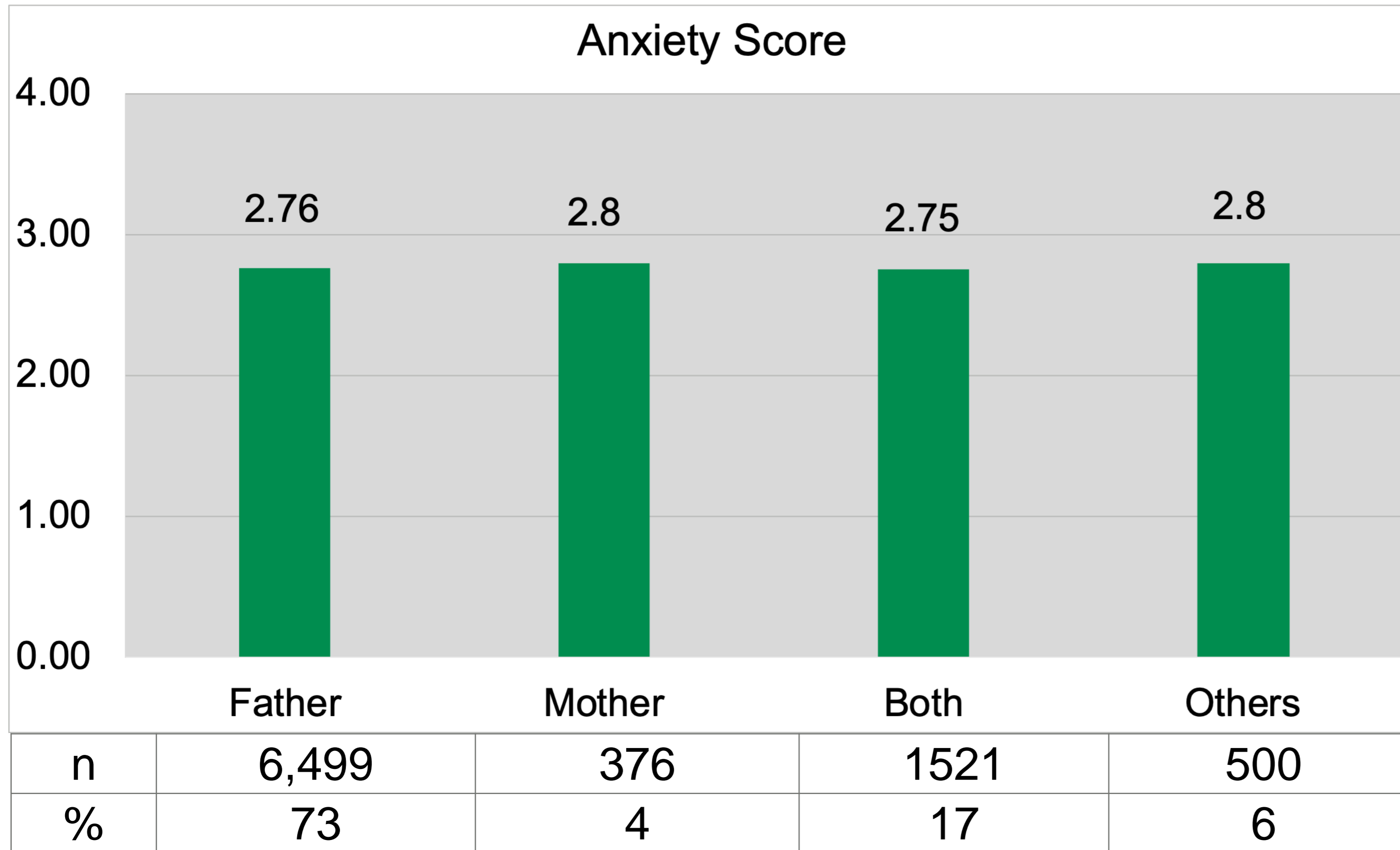
Mother's Education



The mean difference is significant at the 0.05 level.

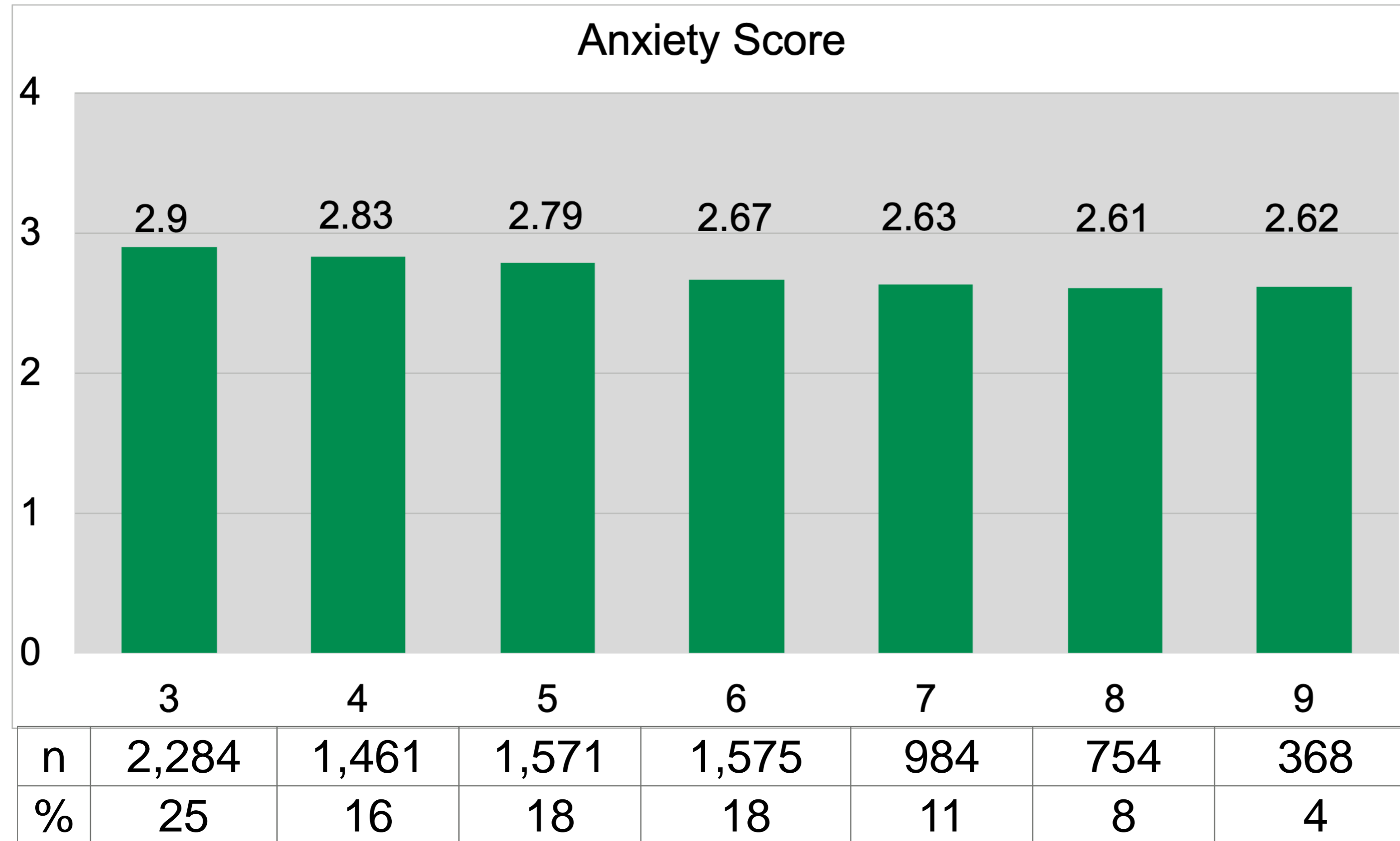
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Earning Member in the Family



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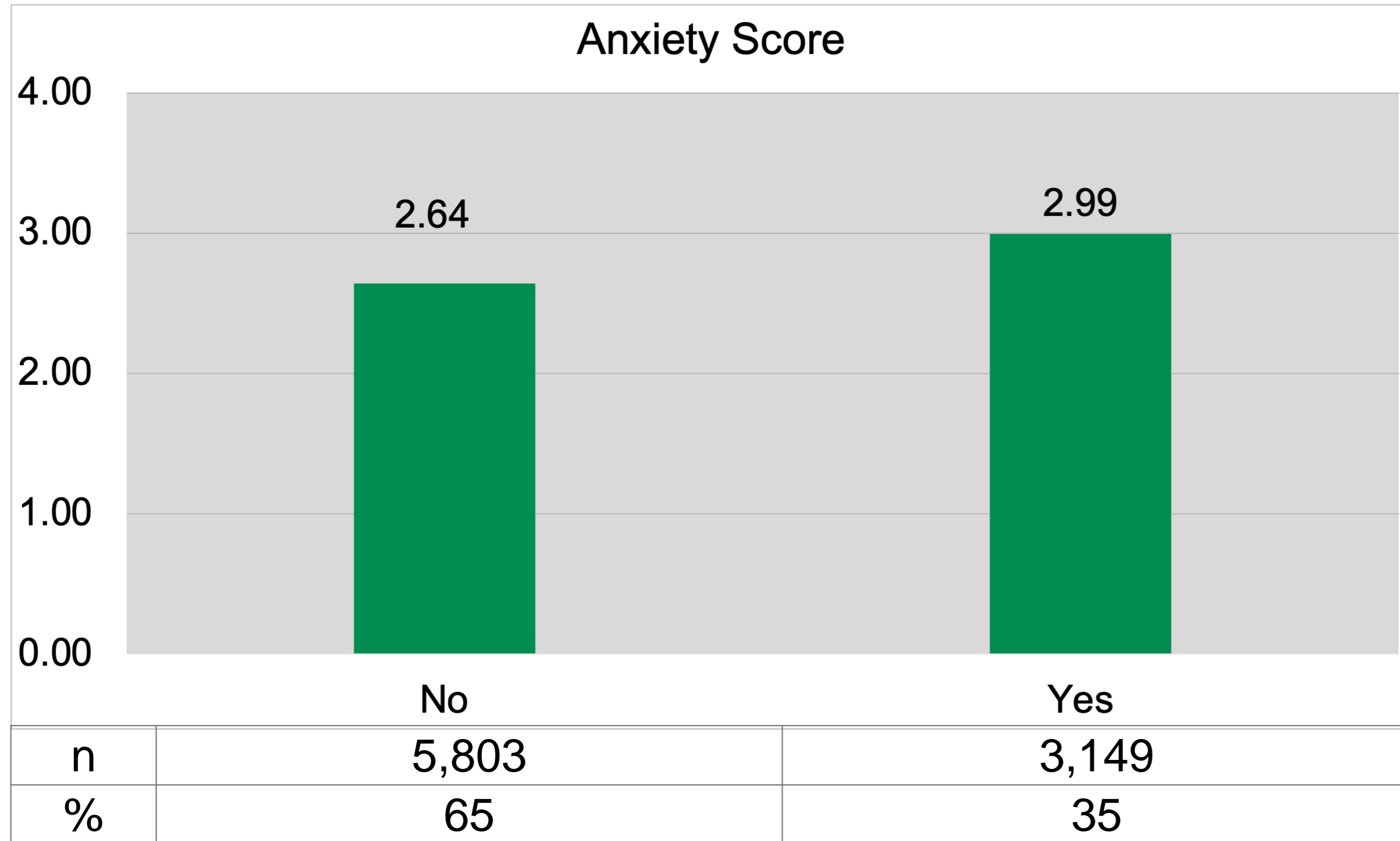
Hours of sleep before the exam



The mean difference is statistically significant at the 0.05 level.

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Examination setting makes you nervous



The mean difference is significant at the 0.05 level.

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Key Findings

- Out of the total, 40% students have above normal test anxiety level
- Female students have significant higher level of anxiety than male students
- HSSC students have significant higher level of anxiety than SSC students
- There is no difference between anxiety levels of SSC I and SSC II students
- HSSC I students have significantly high level of anxiety than HSSC II students, the former having the highest levels amongst four grades
- Other factors affecting test anxiety are: parents qualification, in-house, pressure to perform well, hours of sleep, examination environment.



Limitations

- One year data
- Survey conducted by the AKU-EB – may have introduced bias
- Conducted after the exams – students feeling tired/ fatigue



Way Forward

- Understanding causes of anxiety: Talk about the problem
 - Qualitative Research
- Anxiety prevention strategies:
 - Home/Parents
 - School systems
 - Policy level intervention
- Longitudinal research on measuring anxiety
- Comparison with other examination boards/ systems
- Broaden the scope to higher education – Aga Khan University - Faculty of Health Sciences

