

Association between grade five scholarship examination marks and performance of medical undergraduates, Faculty of Medicine,University of Kelaniya.



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Introduction

First Examination for Medical Degrees is a barrier exam which is held to assess the capacity of students in the subjects learnt during first and second years. It is important to evaluate the potential predictors of medical undergraduates which affect the performance in the first main examination.

Objective

To describe the impact of grade five scholarship examination marks, socio-demographic factors and General Certified Educational examinations results on performance of First Examination for Medical Degrees of medical undergraduates.

Method

- ☐ Study design -Descriptive cross sectional
 - study
- ☐ Study setting -Faculty of Medicine,
 - University of Kelaniya
- ☐ Study period -March 2019- March 2020
- ☐ Study population -Medical students of the
 - Faculty of Medicine,
 - University of Kelaniya

-Batch 26, batch 27,

- batch 28
- ☐ Exclusion criteria -Batch 29, batch 30
 - Foreign students from each
 - batch
- ☐ Sample size 250

Inclusion criteria

- □ Sampling method -Cluster sampling
- ☐ Study tool -Self-administered
 - questionnaire
- ☐ Data analysis -SPSS software

Results

250 students participated in the study and majority of them were female (79.2%) (Table 1). 91.6% of the participants were sinhalese.

Table 1:Distribution of gender in the study sample

28th Batch (2015/2016)		27th Batch (2014/2015)		26th Batch (2013/2014)	
Male	Female	Male	Female	Male	Female
29%	71.%	45%	55%	28%	72%

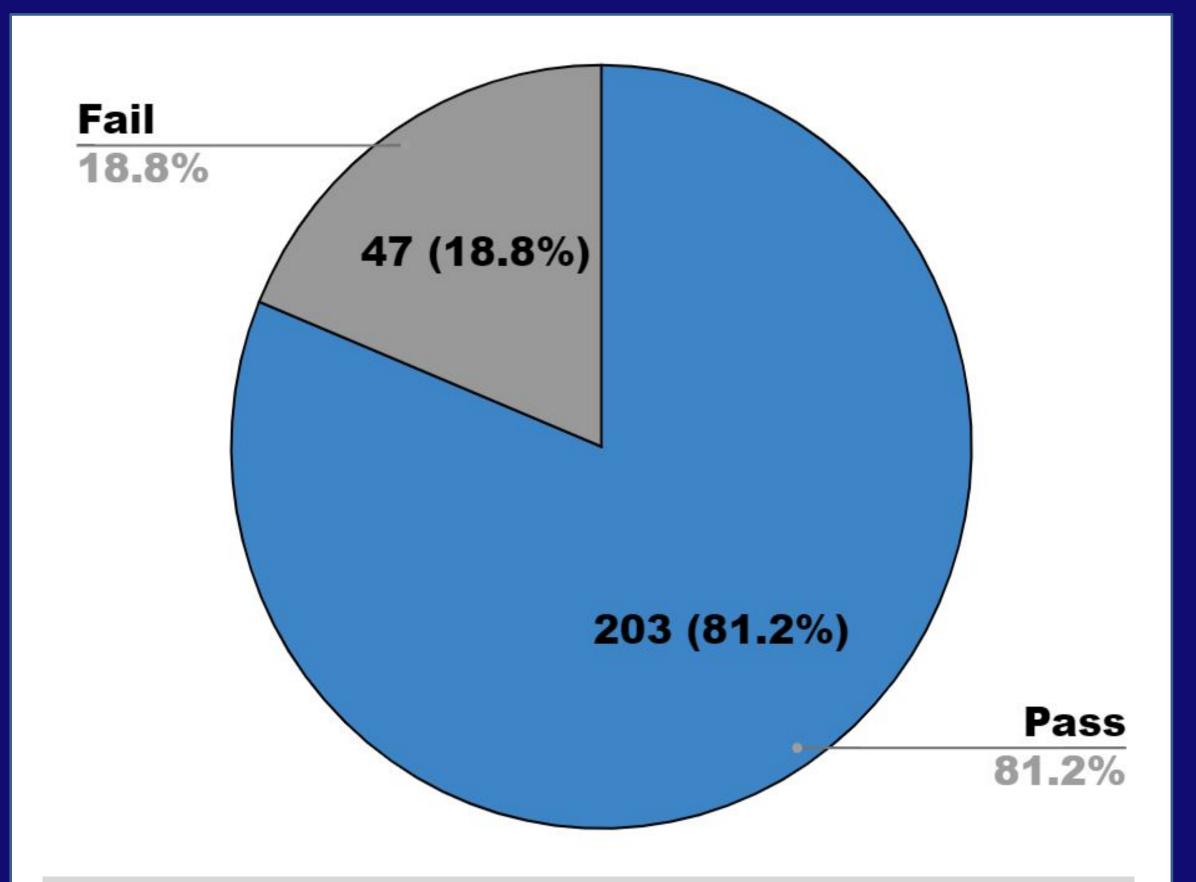


Figure 1: Distribution of performance in First Examination for Medical Degrees

Association of scholarship examination

According to chi-squared test ,there is no significant association between the performance of grade five scholarship examination and the performance of First Examination for Medical Degrees.(p = 0.210)

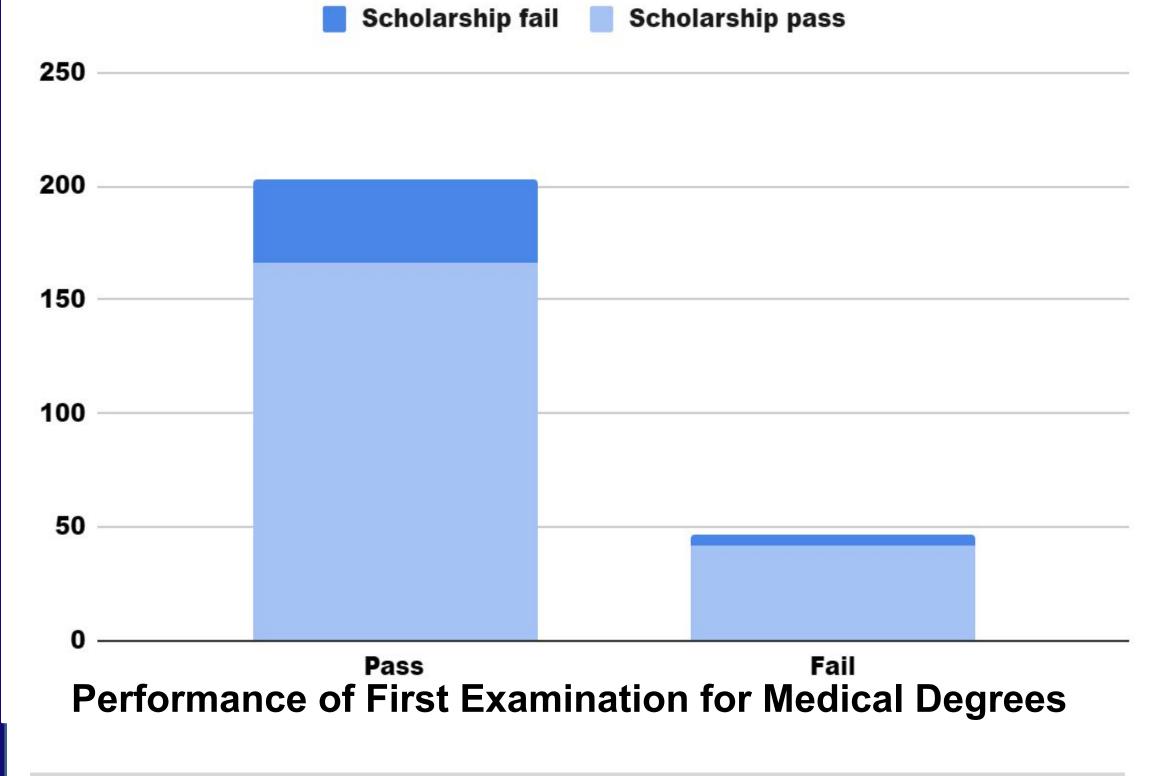
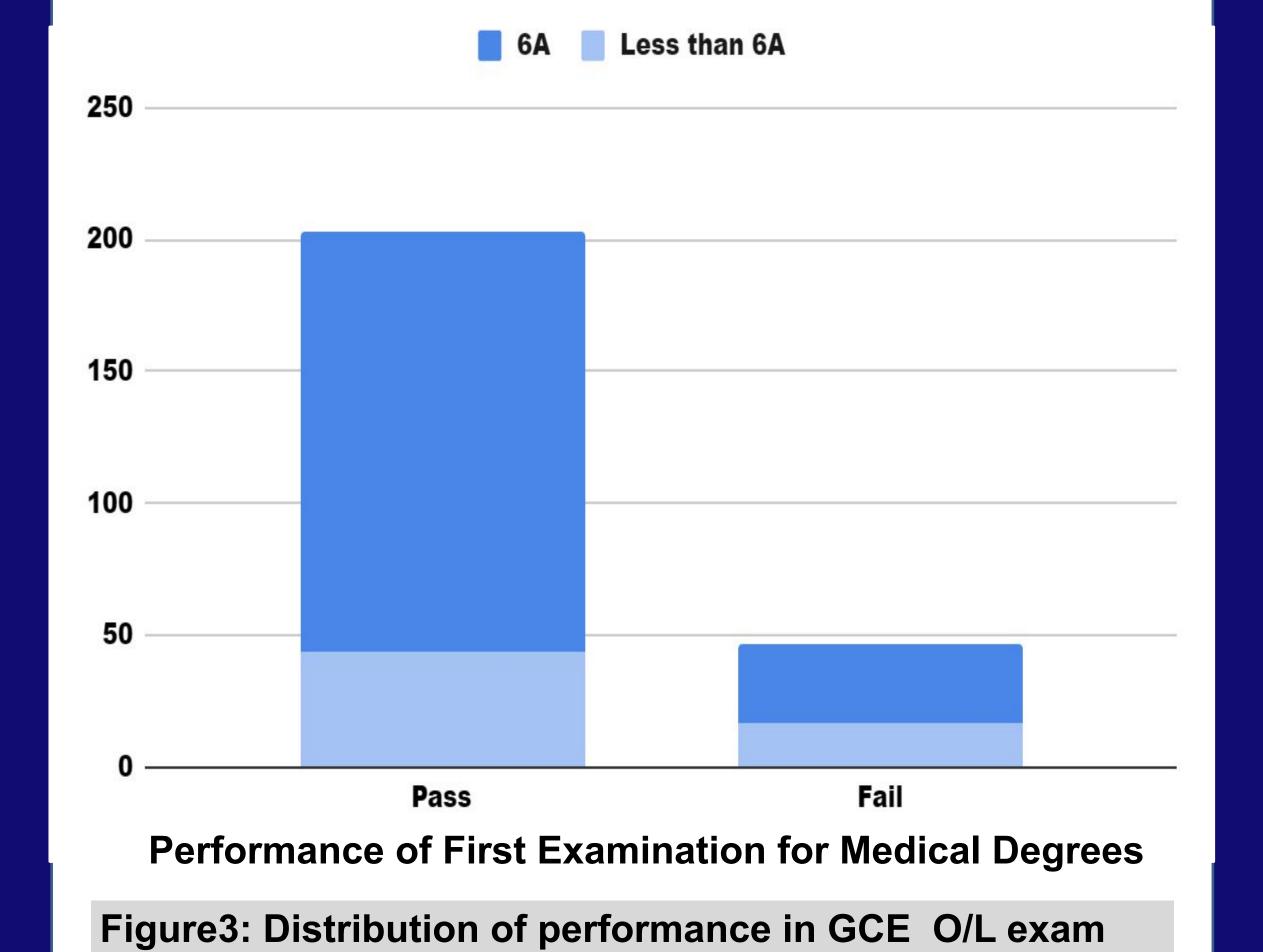


Figure 2: Distribution of performance in scholarship exam and first examination of Medical Megrees

Association of 6A's in GCE O/Ls

According to chi-squared test ,there is a significant association between the performance of GCE Ordinary Level examination and the performance of First Examination for Medical Degrees. (p = 0.037)



and First Examination for Medical Degrees

Table 2: Association between the performance for each subject in GCE A/L and the performance of First Examination for Medical Degrees

		x2	df	p	Association
	Biology A	4.490	1	0.034	p<0.05 Significant association
	Chemistry A	2.246a	1	0.159	p>0.05 No Significant association
	Physics A	0.702a	1	0.402	p>0.05 No Significant association

Table 3: Association between socio demographic factors and the performance of First Examination for Medical Degrees

	x 2	df	р	Association
Gender	2.711 a	1	0.1	p>0.05 No Significant association
Father's employment	0.139 a	1	0.71	p>0.05 No Significant association
Mother's employment	0.092 a	1	0.761	p>0.05 No Significant association
Siblings	2.723 a	1	0.113	p>0.05 No Significant association

Conclusion & Recommendation

- ☐The percentage of students who got through the First Examination for Medical Degrees in first attempt is 81.2%
- □ There is no statistically significant association between performance in First Examination for Medical Degrees and the marks obtained in grade 5 scholarship examination. (p > 0.05)
- □Majority of the students who have got 6A's for the GCE O/L examination (75.6%) have got through First examination for Medical Degrees in first attempt (81.4%). There is a statistically significant association. (p < 0.05)
- There is a statistically significant association of the performance in First Examination for Medical degrees who have obtained A in biology(p <0.05)
- ☐ There is no significant association between First Examination for Medical Degrees results and socio demographic factors like gender, parent's employment and number of siblings.

References

□de Silva, N. R., Pathmeswaran, A., de Silva, N., Edirisinghe, J. S., Kumarasiri, P. V., Parameswaran, S. V., ... de Silva, H. J. (2006). Admission to medical schools in Sri Lanka: predictive validity of selection criteria. The Ceylon Medical Journal, 51(1), 17–21. https://doi.org/10.4038/cmj.v51i1.1371

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