## Introduction

While most evidence in the literature proves that extracurricular activities (ECA) improve academic performances, we couldn't found any study that done focusing on medical students in Sri Lanka. Furthermore, the impact of extracurricular activities on academic performance is an endless topic of debate. So results of this may help to break any fallacies regarding this relationship between academic performance and extracurricular activities.

## Objectives

To describe the extracurricular activities and its relationship to academic performance in medical students of Faculty of Medicine Ragama, University of Kelaniya.

## Method

Study design: Analytical cross-sectional study Study setting: Faculty of Medicine, Ragama, University of Kelaniya.
Study period: 15.11.2019 to 31.01.2020
Study population: Students from $26^{\text {th }}, 27^{\text {th }} \&$ $28^{\text {th }}$ batches who have faced $2^{\text {nd }}$ MBBS examination were included.
Sample size: Calculated sample size was 384 . But considering non responding rate as $20 \%$, all students were invited according to our inclusion and exclusion criteria.
Study instruments: A self-administered questionnaire consisting demographic and questions to assess academic performance and extracurricular activities.
Data collection: A self-administered questionnaire was distributed among medical students meeting inclusion criteria and the completed once were collected.
Data analysis: Data was described using percentages. (SPSS application version 20.0) Significant relationship was determined using chi square test and $p<0.05$.

## Results

There was $41.3 \%$ participation in ECA among medical students (table 1).

| Participation in extracurricular activities |  |  |
| :--- | ---: | ---: |
|  | Frequency | Percentage |
| Not participate | 219 | 58.7 |
| Participate | 154 | 41.3 |
| Total | 373 | 100.0 |
| Table 1 |  |  |

$85.5 \%$ passed the second MBBS examination out of the students who participated(table 2)

| Pass or Fail in second MBBS examination |  |  |
| :--- | ---: | ---: |
| Frequency |  |  |
| Fail | 54 | Percentage |
| Pass | 319 | 14.5 |
| Total | 373 | 85.5 |

Table 2
Most number of students were engaging in Buddhist society while student's union having the second most involvement. Least involvement is with Muslim masjid(Graph 1


Shows badminton was the most involved sport among medical students while baseball having the least involvement(Graph 2).


There is a statistically significant association between sex and participation in ECA(table 3)


Football is the most involved sport among male sex while badminton among females(Graph 3).


Females involve mostly in Buddhist union compared to other societies (Graph 4).


Most students have responded that faculty environment is good for ECA (Graph 5).

Total of 293 students engage happily in their ECA that is $78.6 \%$ of total participants. There is no statistically significant association between happy engagement in ECA and academic performance (table 4).


Irrespective of classes students achieved at second MBBS examination number of nonparticipants in ECA remained high(Graph 6).


Students with no classes have higher participation when comparing their percentages (Graph 7).


Graph 7 percentage of participation among classes
Irrespective of pass or fail most of them spend less than 6 hours on ECA (Graph 8).

$\substack{\text { Sport hours } \\ \text {-PASS } \\ \text { FALL }}$
Graph 8 comparison of sports hours with pass or fail
Most of the students are affected by gastritis and migraine (Graph 9).


Graph 10 Reasons for not involving in ECA
There is no statistically significant association between ECA participation and academic performance (table 5). Association of participation in ECA with pass or fail in
 Table 5 ( $\mathrm{x}^{2}=1.977, \mathrm{df}=1, \mathrm{P}=0.160$ )
There is a statistically significant association between sex and academic performance (table 6)


Table $6 \quad\left(\mathrm{X}^{2}=5.069, \mathrm{df}=1, \mathrm{P}=0.024\right)$
There is no statistically significant association between mode of accommodation and academic performance (table 7).


There is a significant association between transport hours and academic performance (table 8).


Table $8 \quad\left(x^{2}=4.287, \mathrm{df}=1, \mathrm{P}=0.038\right)$
6 participants not responded (missing value $=6$ )
Academic performance have no
association with the $\mathrm{A} / \mathrm{L}$ results (table 9).
Association A/L results with pass or fail in Second


There is a statistically significant association between study hours and academic performance(table 10).


Table $10 \quad\left(x^{2}=12.172, \mathrm{df}=1, \mathrm{P}=0.000485\right)$
9 participants not responded (missing value $=9$ ).

## Conclusion and Recommendations

1.Extracurricular participation among medical students were $41.3 \% .85 .5 \%$ passed the $2^{\text {nd }}$ MBBS examination. But majority of students who passed do not participate in ECA.
2. Most of students were involved in Buddhist society while student's union having the second most involvement. Badminton is the mostly involved sport while baseball having the least.
3.There is no statistically significant association between ECA and Academic performance.
4.There is a statistically significant association between sex and academic performance.
5.Generalization of the results to other universities should be viewed with caution.

## References

[1] 윤혜원, \& CHOIMINSIK. (2017). the effect of extracurricular activities on social preferences.
Journal of Research in Curriculum Instruction, 17(2), 569-593
https://doi.org/10.24231/rici.2013.17.2.569 [2] Cadwallader, T., Garza, N., and Wagner, M. (2002). Participation In Extracurricular Activities.

## Acknowledgement

We would express our heartfelt gratitude to all medical students who gave their valuable time to take part in our research. Also our sincere gratitude goes to the Department of Public Health, Faculty of Medicine, University of Kelaniya for actively supporting us with technical information and with practical advices.

