STUDENTS SECTION

**EDITORIAL**

**HOW DO WE SELECT THE DOCTORS OF TOMORROW** 7

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How do we select the doctors of tomorrow? That is a question that should be posed to the education system of Pakistan. Currently, the selection criteria for medical students in Pakistan rely majorly on the entrance exams conducted by the university under which the medical college falls. Government medical colleges under the UHS rely on the MCAT asthe sole determinant along with past secondary exam scores as admission criteria. While private medical colleges affiliated with the UHS or otherwise may have an additional entry exam of their own for admission. These are seldom followed by comprehensive interviews or personality tests that assess whether the students have an eagerness to pursue scientific research or further workIn their respective fields. Thequestion thatthiseditorial poses is whether the current system of entrance exams actually provides a good predictor or Insight into the future professional performance of its studentsand whether these students actually go on to makea mark andcontribute to their medical professionasboth askillandaconstantly*evolving* sciencevia research.



The unfortunate answer to that question, as recent studies have shown, seems to be c1resounding no. In fact,some studies haveeven gone on to predict a negative correlation between research output, scientlfic discoveries and CGPA. In a survey of 1320 scientists in Croatia, there was a negative correlation between GPA in undergraduate degrees and research and innovation output in later years.' These days a lot of research is going into finding the right balance between assessing an aptitude and attitude towards medical research as well as medicine as a profession for aspiring undergraduates. And such a search has been going on for a long time.I' Recently, theimportanceof theinterview of medicalstudents has been emphasized. A research done in Australio showed that there was a marked increase in gender bias in a university when the interview process was removed. 'However, one thing seems to be certain is that the current system that our country employs for selecting medical students has largely failed to translate into significant research output andinterest over the past few years.' In the USA, there is a very high importance given to extracurricular activities in the field of medicine such as clinical electives and researches that improve international students' chances of getting postgraduate residencies. Especially when competitive fields are taken Into account. one's research experience is perhaps the only

discerning feature among high test scores.• A study in which 15 program directors of the Integrated Model of Plastic Surgery programs accredited by theResidency Review Committee for Plastic Surgery of the Accreditation Council on Graduate MedicalEducation were asked to highlight themostimportant qualities they look for in their prospective.students.They chose leadership qualitiesandalove for academics to be equally important when compared with test scores and GPAs.' Pakistan however, falls quite behind in such selection criteria as even simple interview conduction has not been completely implemented, let alone search for research interest, academic grit, resilience, personality assessment or leadership qualities.And without an interest in pursuing research. these students often fall behind when looking our for major discoveries and recent advances during their practice which may change their medical profession greatly. In short they would simply fall behind, anddo.

There is also a higher incidence of burnouts, sleeping difficulties, depression, anxietyandsuicide fn both undergraduatestudents and professionals.' ''Perhaps such cases could be reduced by simply analyzing the personalities and actual interests that these people show In their undergraduate years to assess whether they would be vulnerable to such stressors or not. One study showed how an interview properly conducted could be able to predict and prevent psychologicalproblemsin vulnerablestudents."

So why do wecontinue to persist withboastinghighGPAsandMCAT scores and even In fact advertise them to run our colleges and universities. There is no alarm over the fact that without medical research skills, our crop of doctors may not be able to adapt and evolvein thisconstantlychanginganddeveloping science thatisand always has been fueled by medical research. Although no such device exists that can see inside a student's mind as to what they might achieve,andthisauthor wouldgladly await s,1ch aninvention, but what needs to be done is to humbly accept that a system of scores and fact biopsies *may* not be enough to groom a future pioneer in the field of medicine. TheMCAT andFSC system hasbeen changing continuously *over* the past few years in its syllabi and scorings but surelyoneneeds to seethat thereisonly so muchascore on a sheet can prove. We need to employ methods to assure



academic grit, resilience, love and passion for science,discovery and innovation and most importantly the will to persevere In our futwe doctors. We need to seethat these doctors want to take part in the constant revolution of medicine and for that we need to makesure thesedoctorsaregoing to embrace theartofresearch.

**REFERENCES:**

I. Polasek 0, Mavrinac M,Jovic A,Dzono Boban A,Biocina-Lukenda D,Glivetic T,et al.Undergraduate grade point average is a poor predictor of scientific productivity later in career. Coll Antropol: 2010;34:1-S

1. Vaughn KW.The graduate record examination as an aid in the

selectionofmedical students.J Assoc AmMedColl:1946;21:129- 46.

1. Bartlett FC.Selection of medicalstudents.BMJ:1946;2:665.
2. Wilkinson D, Casey MG, Eley DS. Removing the interview for medical school selection is associated With gender bias among enrolledstudents.MedJAust:2014;200:96-99.
3. Ahmed Waqas,Hamza. Bukhari,Auns Ghazanfar. Psychiatric

research in Pakistan: Past, Present andFutureJ. Pak. Psychiatr. Soc:2015;12:36-37

1. Green **M,** Jones P,Thomas JX Jr, Select.ion criteria for residency: results of a national program direc:1;ors survey. Acad Med: 2009;84:362-7.
2. LaGrasso JR, Kennedy DA, Hoehn JG, Ashruf S, Przybyla AM. Selection criteria for the integrated model of plastic surgery residency.PlastReconstr Surg:2008;121:121-5.
3. Chun KH, Park YS, Lee YH, Kim SY. Academic burnout and selection-optimization-compensation strategy in medical students.KoreanJMedEduc:2014;26:299-308.
4. Waqas **A,**KhanS,SharifW,Khalid U,AliA.Association of academic

stress withsleeping difficultiesin medical students of aPakistani medicalschool:a crosssectionalsurvey.PeerJ: 2015;3:e840.

1. Yusoff MS. Rahim AF, Baba AA, Ismail SB, Esa AR. A Study of Psychological Distress in Two Cohorts of First-Year Medical Students that Underwent Different Admission Selection Processes.MalaysJMed Sci:2012;19:29·-35.
2. Knights JA, Kennedy BJ. Medlcal school selection: Screening for dysfunctional tendencies.MedEduc.2006;40:1058-64