IDENTIFYING ADDITIONAL SELECTION CRITERIA FOR PHYSIOTHERAPY STUDENTS IN ZAMBIA.

ABSTRACT: The purpose of this study was to investigate additional factors that should be included in the selection process of physiotherapy students in Zambia. A qualitative research design was chosen. Focused group discussions and semi-structured interviews were used for data collection purposes. The results of the study showed that besides pre-selection achievement, a number of non-academic variables should be included in the selection process of students because of their potential to influence academic performance.

KEYWORDS: PRE-SELECTION CRITERIA, PHYSIOTHERAPY STUDENTS, ZAMBIA.

INTRODUCTION

In the past, the number of students who sought admission into physiotherapy schools was much lower than is the case now (Nayer, 1992). Meanwhile, criteria used in the selection of prospective students into tertiary studies are increasingly being questioned (Loux, 1996). Those charged with the responsibility of selecting students from a large number of applicants are now faced with the problem of how to select students for the limited vacancies available.

Various pre-selection academic criteria are used for admission into the schools of physiotherapy. The use of pre-selection grades is widely accepted because they are readily available, considered reliable and they give tangible evidence of the applicants’ potential for continued academic achievement (Nayer, 1992).

Physiotherapy programmes in most African countries use the results of the General Certificate of Education (GCE) or its equivalent. Generally, physiotherapy programmes require applicants to have acceptable pre-selection grades in Mathematics, Biology, Chemistry, Physics or Physical Science. Non-academic variables include interviews, psychological tests, aptitude tests and autobiographical letters.

The interview process gives an institution the opportunity to examine interpersonal skills, the suitability of the applicant and also assists in verifying information provided. Psychological tests are necessary when assessing the personality traits required for a specific profession. Beside pre-selection grades, the Allied Health Professions Admission Test (AHPAT) is commonly used in America (Nayer, 1992). Two types of letters are generally used namely those that are open ended, requesting a reference on a blank page, and the standardised recommendation form with specific questions to fill in. These letters are used to measure the writing skills of the applicants.

Numerous studies have shown that pre-selection grades play a major role in predicting academic performance. Kerr (1985) found a strong correlation between “O” level marks and academic performance amongst physiotherapy students in Ireland. Studies among medical students (Razali, 1996; Hoschil and Kozeny, 1997) and nursing students (Brennan et al, 1996) have also made similar conclusions. Two studies (Marais 1996; Mokwena 1997) done within Africa on physiotherapy students concluded that pre-selection grades were negatively related to academic performance. This was in contrast to a similar study done in Zambia (NKANDU EM, 1997).

Interviews have been proved to show little or no significance in predicting academic performance amongst physiotherapy students (Marais, 1996). Balogun (1987) found aptitude tests to be significant in first year performance in physiotherapy while letters of reference have been found to have a limited value (Nayer, 1992).

Loux (1996) stated that the use of scholastic achievements as the sole indicator of academic performance could give rise to enormous frustrations from applicants from disadvantaged or inferior schooling systems. Razali (1996) found that students who were satisfied with their choice of career faced fewer problems with their studies though their performance was equal to those who were less satisfied with their choice. NKANDU EM (1997) found that over 50% of the students in her study sample in Zambia did not want to be physiotherapists. These students had originally applied for medicine. Some were not accepted onto the programme while others were sent off the programme due to inadequate academic performance. They then opted to study physiotherapy. In their final year of study, a number of these students reported that they were “beginning to enjoy the course”.

Ginter and Dwinell (1994) considered other factors that could affect academic performance. Factors stressed in their study were loneliness and self-esteem. Additional factors were disadvantaged schooling systems, interest in a profession, students perception of the academic staff, burnout, physical disabilities and the quality of tertiary academic environment. Some studies (Corbet and...
Madorsky, 1991; George, 1995) have shown that disabled individuals aspiring to enter medical professions are still faced with significant barriers and that institutions assume that disabled people, though otherwise qualified applicants, cannot meet the technical standards. These assumptions could be a lack of awareness of the potential of individuals with physical disabilities. George’s (1995) study gave a classic example of Jim Post, a medical student with quadriplegia. The greatest obstacles to the disabled physicians, was the erroneous association, by their own profession, of physical disability with incompetence. Disabled medical students in Wu et al’s (1996) study, performed as well as their able bodied colleagues.

SELECTION CRITERIA
Zambia has one physiotherapy school based in the capital, Lusaka, at the Evelyn Hone College. The School opened in 1972 and offers a three-year diploma programme. The school receives a large number of applications each year. Currently, a degree programme is being introduced at the University of Zambia in Lusaka. The programme is being introduced at the University Teaching Hospital in Lusaka and three external examinees based in Lusaka.

DATA COLLECTION PROCEDURES
As it was a busy time of the year, it was not possible to have one focus group discussion with the lecturers. Each one of them gave 30-45 minutes of their time for one-to-one semi-structured interviews. Individual interviews were also conducted with three examiners for similar reasons. The clinical educators made time over their lunch period for a focus group discussion. This lasted for approximately one hour. Using voice recording facilities and note taking, data was collected. The notes taken described the focus groups or interview settings and also highlighted some non-verbal behaviour of the participants. The data was transcribed verbatim.

DATA ANALYSIS
Transcribing and categorising the information recorded, prepared the data for analysis. Analysis of the data was by categorising and comparing the different factors that arose under the given theme.

RESULTS
Factors the lecturers felt should be considered in the selection of students for the physiotherapy programme are those straight from secondary school and so admission is based mainly on selection criteria number one. Previously, the physiotherapy department, as part of the pre-selection procedure also conducted an interview.

METHODOLOGY
The purpose of this study was to identify additional factors, which should be considered when selecting students for physiotherapy training in Zambia. A qualitative research design was chosen for this component of the study. Focused group discussions and semi-structured interviews were conducted with the groups of people involved in the students’ selection and training programme. The theme of the discussions and structured interviews was: “What are the factors that should be considered in the selection of physiotherapy students?”

STUDY SAMPLE
This consisted of all five lecturers at the School of Physiotherapy at Evelyn Hone College, six senior physiotherapists involved with the clinical supervision of students at the University Teaching Hospital in Lusaka and three external examiners based in Lusaka.
CLINICAL SUPERVISORS/EDUCATORS

The selection criteria stated by the clinical educators tallied with that outlined by the lecturers. Only one of them felt that technical drawing should be included on the list of recommended subjects. The reason given was that this would facilitate the students' understanding of treatment interventions like traction. Secondly it would help them understand the use and positioning of equipment in exercise therapy. The non-academic variables were that physically disabled applicants should not be accepted onto the programme because of the physical demands of the profession. An exception was made for partially sighted students, "If a person is able to see and is competent why not?"

They further recommended that applicants should be physically active in sport, and that they should have healthy behavioural patterns. Two adverse behaviours were pointed out, namely smoking and alcohol consumption. They felt that, as future health promoters, physiotherapy students should be role models who should therefore not smoke or consume alcohol. Further still, they recommended that applicants should be medically fit though they did not reach a consensus on HIV positive applicants.

C/ED.1: "Students must have medical examinations prior to selection on to the programme"

RESEARCHER: "What if they are HIV positive?"

C/ED.1: "Well considering the length of the course maybe they should not be accepted"

C/ED.2: "No, the HIV status should not make a difference. Maybe if we all took HIV tests in this room some of us would be positive"

C/ED.3: "What if at the end of the training programme this person reaches a full blown picture of HIV/AIDS and dies?"

C/ED.4: "Well students might be negative on admission but might be positive during the training programme"

Other recommendations made were that since Zambia had more female physiotherapists than males there was a need to encourage a better gender balance.

EXTERNAL EXAMINERS

Though stated by all categories, the external examiners placed greater emphasis on pre-selection grades than those currently used.

DISCUSSION

Zambia currently has a large number of students with good grades applying for vacancies in training institutions. As most of the applicants into the physiotherapy programme qualify for the current set criteria, it makes the process of selection even more difficult. The recommendation to raise the selection criteria higher than that, which is documented, is acceptable, as the school will then have fewer students from which to choose. The country's problem is the limited number of institutions to which these potential students can send their applications. It is hoped that the introduction of a degree programme will help address the problem of limited vacancies.

A number of non-academic factors were raised which participants felt should be added to the selection process. The lecturers and clinical educators saw the need for prospective students to be able-bodied. They felt that they would not be able to meet the emotional and physical needs that the students would have during the course of training if they were not. Their statements of being "inadequately trained" and "physiotherapy being a physically demanding profession" seem to highlight the concerns of earlier studies (Corbet and Madorsky, 1991; George, 1995). Unlike the lecturers and clinical educators, Wu et al (1996) suggested that having disabled students was very important as they would bring with them a unique perspective and empathy because of their personal experience with illness. The marginalisation of disabled students goes against equal rights and opportunities (WHO, 1986). On the other hand, considering the inadequate number of staff at the Physiotherapy School in the Evelyn Hone College, the school may not be able to give the disabled students the extra attention they might require during the training programme. The implication of this scenario is that disabled individuals wishing to study physiotherapy will not be allowed on to the programme in spite of their having empathy, academic ability and interest in the profession.

The recommendation of having students with healthy behavioural patterns is a valid one though difficult to institute. Health professionals are key role players in health promotion and should be role models in health related behaviours. Nkandu and Amosun (1997) concluded that some of the students in their study sample indulged in unhealthy lifestyle behaviours and would not be ideal role models. While a correlation between behavioural patterns and academic performance has not been documented in physiotherapy, it is important for training programmes to empower students to enhance healthy behavioural patterns.

CONCLUSION

There is a need for committees that are charged with the responsibility of selecting physiotherapy students to consider non-academic variables in the selection process because of their potential to influence academic performance. These variables should include age, gender balances, interest (and the desire of the student to succeed in the selected profession), knowledge of the profession, communication skills and personality profiles. Health related behaviours should also be enhanced in order to make professionals who will be role models for their peers and in the communities where they will practice their profession.

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