## Mental health for both staff and students

## **AU Counselling Centre**

- Air University is aware of how crucial mental health is to creating a welcoming and encouraging learning environment for its students. The university has a special Counselling Centre for Mental Health to safeguard the wellbeing of its student body.
- The counselling centre provides students and staff with a secure, private setting where they can talk to qualified, sympathetic counsellors about their emotional difficulties, pressures, and fears. Students and staff can seek advice and help at the Counselling Centre if they are struggling with academic stress, personal challenges, or adjustment issues.
- The trained counsellors at Air University are prepared to deal with a variety of mental health issues and offer individualised counselling sessions that are catered to the requirements of each student and staff. They provide coping mechanisms, stress reduction methods, and emotional support to equip kids with the tools they need to face problems successfully.
- The Counselling Centre offers group and individual counselling as well as awarenessraising courses, seminars, and programmes. Through these programmes, the student and staff body will be encouraged to cultivate a culture of emotional wellness and resilience.
- Air University prioritises mental health care to give its students the tools they need to succeed academically and personally. The counselling centre is essential to fostering a supportive campus environment where students and staff can develop and achieve success in all facets of their lives.

## Air University Mental Awareness

Along with the Blood Donor Society, Air University Pakistan organized a mental health awareness event. The purpose of the event was to encourage mental health and increase understanding of the value of mental health in our community. Participants learned crucial information about maintaining excellent mental health and comprehending common mental health issues through interactive sessions, workshops, and educational speeches.



## **Mental Health and Education**

## Antomy department from our Medical College:

The syllabus for our department of anatomy has been altered to place more emphasis on the topic of mental health and raising people's awareness of it.. The curriculum of neuroscience module is related to the mental and psychological health of individuals . Students are taught anatomical basis of mental and psychological illnesses in this module.

## **Humanities Education Psychology**

Our HEP department gives counselling and mental health issues top priority in order to alleviate obstacles, depression, and anxiety faced by individuals inside the university. Even though our psychology department is working hard to encourage the majority of the students, staff, and faculty to learn about the courses and enrol themselves in short courses so that they are sufficiently capable of handling real-world situations. We are offering the following program;

• MS Clinical Phycology program.

## The Mental Health Awareness Seminar

Organized by the Air University Blood Donor Society on 22 February 2023, at AU Arena in collaboration with Pakistan Youth Club.

The seminar featured two guest speakers, including a clinical psychologist, Ms. Khadija Tanvir, who discussed various aspects of mental health issues faced by the youth, stress management techniques, anxiety management, and daily life coping strategies for dealing with anxiety and depression.

The event was a huge success with a turnout of over 200 attendees, providing valuable insights and practical tips to attendees. The seminar was able to raise awareness about mental health issues and promote the importance of prioritizing mental well-being.





## World Mental Health Day

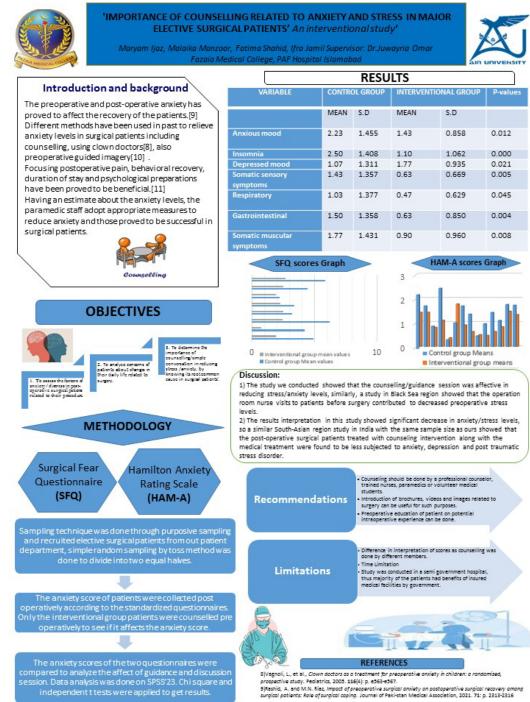
World Mental Health Day is marked every year on October 10th to raise awareness abour mental health around the world and to mobilize efforts in support of mental health. The World Federation for Mental Health (WFMH) announced the theme for World Mental Health 2023, which is "Make Mental Health for all a Global Priority". On account of the same, Air University organized a Session on Monday, 10 th October, 2023

Topic: Mental Health & Wellbeing: Is it all in the Air? Guest Speaker: Dr. Mowadat Hussain Rana, MBBS, MCPS, FCPS, DCPS-HPE, MCPS-HPE, D-CBT (Oxford), MRCPsych (UK), FRCPsych (UK), Professor of Psychiatry and Behavior Sciences.

## Promoting Health & Wellbeing through Local Initiatives

We at Air University believe in the potential of community participation and the beneficial influence it may have on people's health and well-being. With a strong desire to improve the lives of those around us, we have launched a series of projects in conjunction with local communities. These projects, which are sponsored by student volunteer programmes, aim to improve and promote many areas of health and wellness, including hygiene and nutrition, family planning, sports, exercise, healthy ageing, and other related themes.

## 'IMPORTANCE OF COUNSELLING RELATED TO ANXIETY AND STRESS IN MAJOR ELECTIVE SURGICAL PATIENTS'











## 1. Campaigns for Hygiene Education and Awareness

Our students lead hygiene education and awareness programmes in collaboration with local schools and community centres. These programmes emphasise good handwashing techniques, personal hygiene practises, and sanitation strategies.. We empower individuals to maintain clean and healthy living environments, thereby lowering the risk of disease transmission.

# An interventional Study to determine the quality of water and frequency of water-borne diseases in suburban and slum areas of ICT



A cross sectional study to determine the quality of water and frequency of water borne disease in suburban and slum areas of ICT

Submitted by: Haseeb-ur-Rahman, Tayyab Taimoor, Amama Afaq, Tooba Nayyar, Amina Munir, Manahil Gul





Department of Community Medicine, FMC

#### Introduction Due to alarming increase in population and rapid industrialization, drinking

About 20% of the whole population of Pakistan has access to safe drinking water. The remaining 80% of population is forced to use unsafe drinking water due to the scarcity of safe and healthy drinking water sources.

technologies to overcome unhygienic condition of drinking water supplies in different areas of Pakistan

Rationale

Rationale In suburbs of Islamabad, ICT water supply is not available. People of communities are forced to get water from different sources like wells, tankers etc. in which quality of water is compromised leading to risk of diarrheal diseases. Focus of our study is to create awareness among communities about importance of water purification and safe water in reducing diarrheal diseases for better health in all age groups. Al based algorithm would be used to predict the future diseases which will not only help the local communities but also government to allocater resources and install water purification plants in these sub urban areas.

Results

**COSULTS** Results regarding the quality of water from the National Institute of Health Nutrition Division showed that fecal Coliform present in 100% of samples, Ecoli In 25% especially coming from tap water, spring water, wells, and all those who were using supply water of COA. Boring water showed 2% E. coli. Frequency of diarrhea in low income respondents (5k-10k) is 80% and with income 11k-15k it is 20%. Frequency of diarrhea in respondents using electric pump is 72.9% whereas in CDA water it is 2.9%.

CDA water it 5.2.9%. Frequency of diarrhea who never use any purification method is 71.4% Those using chlorine(2,8) boiling water(17) and filer for water purification() had the lowest frequency of diarrhea.

There is immediate need to take protective measures and treatment

water quality is being deteriorated day by day in Pakistan.

Aim: To highlight the importance of water purification for better health of community

#### **Objectives:**

To determine the frequency of most common waterborne diseases in suburbs of Islamabad which include Shah Allahdita and Mehrabadi in the past three months.
To create wareness among the communities about hazards of waterborne diseases and water purification.
To check quality of water in slum areas.

#### METHODOLOGY

Sampling Techniques: Random Sampling

- All available people who gave consent to be a part of the study. Inclusion Criteria: Study Design: Cross sectional Exclusion Criteria: Study Duration: Immunocompromised patients suffering from February - September (2023) major health issues like HIV Hepatitis and cancer under the influence of life saving drugs and people Study Setting: • FMC Islamabad, Shah Allahditta, Mehrabadi in collaboration with NIH and NUST having any other medication due to some ongoing
  - diseases

#### Sample Size:

keeping confidence level at 95%, confidence interval at 10% and prevalence of diarrheal diseases 50%, sample was calculated to be 96.

#### Study Tools:

- Study tools: Questionnaire: Based on questionnaire in Urdu administered by the Investigators themselves: Data obtained was both qualitative and quantitative. Questionaire has following parts: -Demographic profile and socioeconomic status -Water supply in the household -Sanitation practices at the household -Sanitation practices at the household
- -Effect of awareness and courseling -Written and informed consent from individuals

m Water samples were collected by students of Fazaia Medical College, from door to Water samples were collected by students of Fazaia Medical College, from door to door in autoclaved polythene-sealed bottles under the supervision of Nutrition Division NIH. This process was assisted by Lady health workers of the area and community health center of Shah Allah Ditta. For awareness, the community was gathered in the Community Health Center with the help of LWBs.Then a lecture regarding diarrheal diseases and the harms of unsafe drinking water along with ways of water purification was delivered by the students of FMC. Then brochures were distributed among the community people for further reminder. Later Posters were pasted in different mohallas during the water sample collection. 0



#### DISCUSSION

- Discossion The study conducted in 2012 published by Iranian Journal of public health shows population below the poverty line earning RS 50 to 100 per day were having more prevalance of diarrhea with p value (<05) . In our study, the trend of diarrhea was 60% more in people with low income than with relatively high income. According to research held in Nigeria in 2016 the percentage of diarrhea was more in respondents having primary education (51%) while our study also shows similar trend with 40 % diarrhea in respondents having .
- primary education. primary education. A study conducted in 2003 on chlorination and safe storage of drinking water shows chlorination of household water significantly reduce waterborne diseases (p value :<0.05). Our study also shows respondents using chlorine as purification method have less diarrhea (p-value:<0.05)

#### Conclusion

Conclusion Tap water, supply water, spring water, and well water were loaded with fecal Coliform and E. coli. Water was highly unfit for human consumption. Any type of purification method reduced diarrhea. Males, labourers, households with income less than 10k, usage of plastic storage containers and households not using any water purification methods had the highest frequency of waterborne diseases. Children under 5 and adults above 35 were highly susceptible to diarrheal

#### Way Forward

These results will be shared with policy makers through NIH nutrition division and ministry of health for provision of resources for water purification and control of diarrheal diseases through awareness campaigns using various ways of communication.

#### REFERENCES

nd M. Elimelech, Water and sanitation in developing countries: including health in the equation, 2007, ACS Publications. 2. M. 3agi, Z. Sobani, A. Bhamani, N.S. Bham, S. Abidi, J. Farook et al. (2012). "In"ectious diseases in the aftermath of monsoon flooding in Paiksani. "Asian Pacific journal of trapical biomedicines (21),p. 76-79. 3. Daudy, M., Naews, M., Ali, S., Riwaw, M., Bajaw, R. A., Shakoar, M. B., ... Murad, W. (2017). Drinking water quality status and contamination in Paktstan. BioMed research international, 2017. 4. WHO. (2023). Proportion of households with access to a surce of aafe drinking water.

Cross tabulation between Gender and %age of Diarrhea In males, frequency of diarrheal's x5.7% whereas in females it is 44.3% pivalue is Female 44.5% 104 en gender and experience of na sea and vomiting Cross tabulation betwee gender female 44.9% male 55.7% Cross tabulation between purification method and frequency of diarrhea wate purification .e.x koli y theres fration 11.3% 23% 10.1% 20.2%

Workshops on Nutrition and Community Gardens

We recognise the significance of appropriate diet in overall health. Our students host nutrition workshops and work with local communities to establish community gardens. These initiatives not only educate community members about balanced diets and healthy eating habits but also provide access to fresh, organic produce. We contribute to the general health of the community by advocating healthier dietary choices.

3. Clinics for Family Planning and Counselling

We establish clinics that provide vital services and counselling to support family planning and reproductive health. Contraception, reproductive health examinations, and counselling sessions are available at these clinics. We contribute to planned and healthier family life by ensuring that families have the resources and information they require.

## **EFFECTIVENESS OF DIGITAL INTERVENTION FOR BETTER MATERNAL HEALTH**



6.67

+Car2(5

+ Car 3/3 

INTERVENTION

• (a) The study found that the 5705 scores <sup>(1)</sup> tond to increase as the pregnancy progresses.

Pamily history of depression; Participation in other psychological intervention programs or psychotherapy

### Study Toola:

Study Setting: PAP Class 4 Colony, Islamabad PAP Hospitals Unit 3, Islamabad Pasaia Medical College, 8-0, Islamabad Source toolat
Source toolate
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App (Muma App) Quasi-experimental study (interventional study) was conducted from January to September 2023 at Fazaia Medical College, Islamabad, Pregnant females in all trimesters of pregnancy were included, and 60 respondents were included using a purposive sampling technique from PAF unit 1, Selonging to class 4, detric their consent. Participants were divided into equal groups by simple random sampling (toss method). Helf of the participants were divided into equal groups by simple random sampling (toss method). Helf of the participants were given App (Muns APP) and the other helf vere guided tracking to propsy were gaining the consent of the top the set of the participants were given App description for the other helf vere guided tracking of the participants. After 6 Edinourgn Postnatel Depression Scale (EPDS) and a sensitivatured questionnalie. After 6 and the set of the top and the set of the set of the participant between the set of the set stered the weeks the EPDS was administered again and scores were recorded. Data was analyzed by SPSS 23. Descriptive and inferential analysis was done by calculating percentages, frequencies, cross-tabulation, and Chi-square test. Independent sample t-test was used to compare the effect of intervention in both groups. Data was presented in tables and charts.



There was also a association between family income and EPDS scores those with higher family income showed less score, this result is also consistent with other DISCUSSION: The study found that the EPDS scores tend to increase as the pregnancy progresses. There was also a correlation between family income and EPDS scores those with higher family income showed less score, this result is also consistent with other international researches. The study found a trend between education level and epds scores, the higher the education the more the scores, this finding is consistent with a study done in India. [ZTIhere was also a correlation between family income and EPDS scores those with higher family income showed less one, this result is also consistent with other international researches. Cell +Cat 2 (5-8) The study found a trand between education level and epds scores, the higher the education the more the scores. Analysis showed a significant correlation between number of children and EPDS scores. Women with 3 or more children had the highest scores, i Study also suggested that women who had frequent antenatal visits had less stress as compared to those who had few visits CONCLUSION: The APP was found to be effective in reducing EPDS Scores during antenatal period in all trimesters ANALYSIS: and can be used as a tool to provide better antenatal care in impoverished and hard-to-reach areas. LIMITATIONS AND RECOMMENDATIONS: LIMITATIONS AND RECOMMENDATIONS: The accessibility of the study of the study are not of the time was command in App development. The sample size was small but to sample from and recorded to fills study only offsecard to say the effectiveness of technology based development. Due to sample from and recorded to Study only offsecard to say the effectiveness of technology based development. Due to sample from and recorded to Study only offsecard to say the effectiveness of technology based development. We will contrain the shade's and more participants' will be dedic, consequencely increasing the study of life and other parameters of from the hards. App will be provided to the families living in feedbag areas of Paistan who tech there are access to Sain Hard's healther out to the disprox, social and cubule means, and living provide for of cast, and is accessible invervides and paistants to be underwinding App will be improved to include means videos regarding, proceedings from the halfh card, post-and all card, of the mother and child; App will be technically improved in venous apports such as about antennetal appointments. Comparing Mean Post-Guidance EPDS Scores of Control and Interventional Groups Applying Paired Sample T-Test: When independentt test was applied p value was 0.021 which shows that additional guidance and knowledge about REFERENCESdifferent aspects of antenatal care reduces anxiety and depression in pregnant females.

KCE: May (Land F. Write, Factor offecting utilization, of contendo core among reproductive age group women (12-42 years) in a watern spectra antenemer off-ance). Journal of basisan Madria Manteller, 2003. 33 (2): p. 47. D. D. L. K. H. K. P. Warreller Schneuer, Factore Deparation Land (1200) for constraintic spreador. It is a voide measure for pre-accenter/pre-mersional portant of medical actions. 2013. 8(2): p. 40. L. Silva, A. C., etc. J. Amonadorparation in advance pre-antenderia in dis-flored land (13-6). 2013. 38(2): p. 31. L. Silva, A. C., etc. J. Amonadorparation in advance pre-antenderia indian Journal of Republicity Madridme, 2013. 38(2): p. 31.

4. Sports and Fitness Programmes

6

18-35 Years

+ Cal 3

- > 35 Years

80

CONTROL EPDS Scores and Other Variables: Physical activity is important for both physical and mental health. In partnership with local schools and recreation centres, we organise sports and exercise programmes. These programmes promote physical activity on a daily basis, building a sense of community, teamwork, and overall fitness. From sports tournaments to fitness workshops, these projects encourage community members of all ages to live an active lifestyle.

The Air University Sports Complex, Gym, and Day Care Center demonstrate the institution's commitment to fostering wellness and providing comprehensive support to its community. These facilities promote physical fitness, offer recreational opportunities, and create a nurturing environment for families. By prioritizing the holistic well-being of students, faculty, staff, and their families, Air University recognizes that a healthy and balanced lifestyle is fundamental to personal growth and success. These facilities not only contribute to the physical health of the community but also foster a sense of camaraderie, inclusivity, and support, ultimately enriching the overall university experience.