



آغا خان یونیورسٹی

THE AGA KHAN UNIVERSITY

Celebrating 25 years



**Postgraduate Medical Education
Admission Information
2009**

**The Aga Khan University
Postgraduate Medical Education
Information for Interns,
Residents and Fellows
2009**

Aga Khan University invites applications to its internship, residency and fellowship programmes. These programmes offer an excellent training environment with close faculty supervision. Alongside the programmes, students have access to Continuing Medical Education seminars, guest lectures by eminent scholars, an excellent medical library and good audio visual facilities.

AKU is open to all academically qualified candidates of either gender, regardless of religion, race, creed, colour or domicile.

Most of the residency and fellowship programmes are recognised by the College of Physicians and Surgeons, Pakistan (CPSP) and many are also recognised by the Royal Colleges in the United Kingdom. Internships at AKU which provides clinical experience under the supervision of senior faculty are recognised by the Pakistan Medical and Dental Council (PMDC).

The programmes start in November each year; the residency programme in community medicine will start this year from October.

Internship

All medical graduates, including those expecting their MBBS final results by October 09, 2009, are eligible to apply. MBBS graduates must be from an institution recognised by the PMDC and be provisionally registered with the PMDC.

Applicants are required to write an Admission Test aimed at evaluating application of knowledge in solving common clinical problems not specific to any specialty. Based on the Admission Test result, the applicant will be considered for an interview.

Successful candidates will be offered a one-year contract: six months each in medicine and allied specialties and surgery and allied specialties. Rotations will be allocated according to ranking on the final merit list. On successful completion of the internship, graduates can compete for residency programmes at AKU.

Applicants selected from training programmes in other institutions must submit a No Objection Certificate or a copy of a resignation letter approved by the supervising consultant, before joining the training programmes at AKU.

Residency

Applications are invited for the following residency programmes; a candidate can apply for only one residency programme:

3-year programmes

Adult Cardiology
 Gastroenterology
 Nephrology
 Neurology
 Pulmonary Medicine

Orthopaedic Surgery
 Paediatrics & Child Health
 Paediatric Surgery
 Psychiatry
 Radiation Oncology
 Urology

4-year programmes

Cardiothoracic Surgery
 Community Medicine
 Emergency Medicine
 Family Medicine
 Internal Medicine
 Neurosurgery
 Obstetrics & Gynaecology
 Operative Dentistry
 Ophthalmology
 Orthodontics

5-year programmes

Anaesthesiology
 Chemical Pathology
 Diagnostic Radiology
 General Surgery
 Haematology
 Histopathology
 Microbiology
 Otolaryngology/Head &
 Neck Surgery

Eligibility

Individuals applying for a residency programme must fulfil the following conditions as applicable:

- Hold an MBBS degree from an institution recognised by PMDC.
- Have a valid registration with the PMDC until December 2009 at the least; candidates whose PMDC license will be expiring in December 2009 are required to submit a copy of their current license, as well as their license renewal application to PMDC.

- A year's experience as a house officer/intern with six months each in medicine and allied specialties and surgery and allied specialties.
- Registration with the Research and Training Monitoring Cell, CPSP, as trainees for the relevant intermediate module would be preferable.
- Applicants for adult cardiology should have a minimum of two years' training in internal medicine and should be eligible for the intermediate module. Preference would be given to those candidates who have cleared their intermediate module.
- Applicants for cardiothoracic surgery should have a minimum of two years of training in general surgery.
- Applicants for gastroenterology, nephrology, neurology and pulmonary medicine should have a minimum of two years of training in internal medicine.
- Applicants for general surgery should have passed MBBS after 2004.
- Applicants for paediatric surgery should have a minimum of two years of training in general surgery in an accredited and reputable programme and must have completed the requirements for intermediate module of CPSP.
- Applicants for obstetrics and gynaecology should have completed one year in a house job of which at least three months should be in obstetrics/gynaecology.
- Applicants for surgical specialties must have cleared their FCPS Part I in surgery and allied specialties. Candidates may apply in one of the following two categories:

- a. Candidates who have already passed or who are eligible to sit for the intermediate module may enter the residency programme directly.
- b. Candidates who wish to apply for preliminary core training in general surgery at Aga Khan University before applying to a surgery residency training programme.
- Applicants for operative dentistry and orthodontics must have:
 - a. BDS from an institution recognised by the PMDC.
 - b. A year's experience as a house officer/intern in various subspecialties of dentistry.

Other requirements

- For positions in cardiothoracic surgery, internal medicine, nephrology, neurology, neurosurgery, obstetrics and gynaecology, operative dentistry, ophthalmology, orthopaedic surgery, orthodontics, otolaryngology/head and neck surgery, paediatrics, paediatric surgery, chemical pathology; haematology, histopathology and microbiology: FCPS Part I or equivalent is mandatory.
- For diagnostic radiology and radiation oncology: FCPS Part I in radiology is mandatory, as per CPSP requirement.
- For emergency medicine: preference will be given to candidates with FCPS Part I in medicine or surgery, MRCS A or MRCP Part I.
- For general surgery and urology: preference will be

given to candidates with FRCS/AFRCS Part I or FCPS Part I.

- For community medicine: preference will be given to candidates with FCPS Part I in community medicine or medicine and allied specialties, though this is not mandatory.
- For anaesthesia, family medicine FCPS Part I will be preferred but is not mandatory.
- For adult cardiology, gastroenterology, pulmonary medicine, and paediatric surgery: FCPS Part I is mandatory; FCPS Part II or equivalent diploma is preferred.
- For psychiatry, FCPS Part I in psychiatry is mandatory.
- For other residency programmes: FCPS Part I is one of the requirements for promotion.

Additional information

- Neurosurgery positions are also available at senior levels of residency training. Candidates with FCPS Part I with 2 years' experience in general surgery will be considered for a senior level position.
- In addition to the core neurology residency programme, neurology positions are available for applicants after the completion of their internship (and FCPS Part I) for two years of medicine training at AKU prior to core neurology training.
- Residents in obstetrics & gynaecology and paediatrics will have rotations at Aga Khan University Hospital on campus as well as its off-campus sites.
- Applicants for otolaryngology/head and neck surgery

will rotate through general surgery for six months during the five-year otolaryngology/head and neck surgery programme.

Flexible Residency Training Programme

The University has a flexible residency training programme in the fields of anaesthesia, haematology, medicine and paediatrics for candidates who are unable to train full-time. One position in each of the fields is available. Women are encouraged to apply.

Fellowship

Entrance into Fellowship (post-residency advanced training) will be offered in the following subspecialties this year:

1-year programmes

Diagnostic Neuro-Imaging
Pain Management

Vascular and Interventional Radiology

2-year programmes

Cardiothoracic Anaesthesiology
Clinical Neurophysiology and Electrodiagnostic Medicine
Diabetes, Endocrinology and Metabolism
Intensive Care Medicine
Interventional Cardiology
Neonatal Paediatrics
Neurovascular
Paediatric Critical Care Medicine

Paediatric Haematology/Oncology
Paediatric Neurology

3-year programmes

Medical Oncology
Paediatric Cardiology
Paediatric Infectious Diseases

There will be no admission test for entrance into fellowship training. Selection will be based on interviews.

Eligibility

Individuals applying for the fellowship programmes must have:

- An MBBS from an institution recognised by the PMDC.
- A year of house job/internship, with six months each in medicine and allied disciplines and surgery and allied disciplines.
- A valid registration with the PMDC at least until December 2009; candidates whose PMDC license will be expiring in December 2009 are required to submit a copy of their current license, as well as their license renewal application to PMDC.

Other requirements

- For cardiothoracic anaesthesiology: FCPS Part I in anaesthesia is mandatory. FCPS Part II in

anaesthesia is preferred. Four years of training in anaesthesia is also required.

- For clinical neurophysiology and electrodiagnostic medicine: completion of at least three years of neurology training from a national or international training programme. FCPS Part I or an equivalent in medicine and allied disciplines is mandatory.
- For diabetes, endocrinology and metabolism: three years of approved training in internal medicine. Successful completion of FCPS, MRCP, Diplomate American Board of Internal Medicine or any other equivalent postgraduate qualification is mandatory.
- For diagnostic neuro-imaging: four years of training in Radiology. FCPS Part II, and one year experience in a clinical field other than internship/house job (preferable).
- For intensive care medicine: a one-year internship with six months each in medicine, surgery or anaesthesia. Four years of training in anaesthesia in a reputable programme. FCPS Part II in anaesthesia is preferred.
- For interventional cardiology: three years of approved training in adult cardiology. FCPS Part II in adult cardiology or equivalent diploma is preferred.
- For medical oncology: three years of approved training in internal medicine. Successful completion of FCPS, MRCP, Diplomate American Board of Internal Medicine or equivalent.
- For neonatal paediatrics: four years of paediatrics training/residency. Successful completion of FCPS in paediatrics.

- For neurovascular: completion of at least three years of neurology training from a national or international training programme. FCPS Part I or an equivalent in medicine and allied disciplines is mandatory.
- For paediatric cardiology: four years of training in paediatrics residency. Successful completion of FCPS Part II in paediatrics.
- For paediatric critical care medicine: four years of training in paediatrics residency. Successful completion of FCPS Part II in paediatrics.
- For paediatric haematology/oncology: FCPS Part I or equivalent. FCPS Part II (preferred). Four years of training in general paediatrics.
- For paediatric infectious diseases: four years of training in paediatrics residency. Successful completion of FCPS Part II in paediatrics.
- For paediatric neurology: four years of training in paediatrics residency. FCPS Part I in medicine and allied. Successful completion of FCPS Part II in paediatrics.
- For pain management: FCPS Part I or equivalent. FCPS Part II or eligible to appear in Part II or equivalent. Completion of four to five years of training in anaesthesia.
- For vascular and interventional radiology: FCPS Part II. Four years of training in radiology. Experience in clinical field is desirable.

Admission information

The application package is available from the Admission Office, Medical College, Aga Khan University,

P.O. Box 3500, Stadium Road, Karachi 74800, Pakistan, for Rs 150 payable in cash or through a pay order/bank draft in favour of Aga Khan University drawn on a bank in Karachi and sent to the Admission Office. Application requests through email will not be accepted.

The Admission Office is open from Monday to Friday, 9:00 am to 12:00 noon.

Application material is also available online at www.aku.edu and at branches of Soneri Bank Ltd. in Pakistan.

The completed application together with the non-refundable application fee should be submitted to the Admission Office according to the following schedule:

Internship and Residency : July 20, 2009
Fellowship Training : August 13, 2009

Please clearly state the programme you intend to apply for. Applications received after this date will not be processed.

The non-refundable application fee for the programmes is as follows:

Internship and Residency Training Programmes : Rs 1,500
Fellowship Training Programmes : Rs 1,000

Admission Test

An Admission Test will be used to shortlist candidates for interviews in all residency programmes. This test will also comprise a section on English, which is designed to assess competence in the English language.

Candidates applying for adult cardiology, gastroenterology, nephrology and pulmonary medicine residency programmes will be required to write an Admission Test related to their specialty.

Applications will be scrutinised and only those meeting the eligibility criteria will be invited for the Admission Test. The Admission Test for internship and residency programmes will be held in Karachi and Islamabad on Sunday, August 16, 2009. Candidates should report for the test at the time and venue stated in the Admit Card.

No TA/DA will be paid for entry test or interview.

For further information, please call the Postgraduate Medical Education Office at 021 486 4546 / 486 4583 / 486 4534.

Salary and benefits

Interns will be offered a salary of Rs 11,000 per month.

Residents will be offered a monthly salary according to their residency level:

| | | | |
|--------------|-----------|---------------|-----------|
| Resident I | Rs 15,000 | Resident V | Rs 28,000 |
| Resident II | Rs 17,000 | Resident VI | Rs 34,000 |
| Resident III | Rs 19,000 | Resident VII | Rs 41,000 |
| Resident IV | Rs 22,500 | Resident VIII | Rs 48,000 |

Fellows will be offered a monthly salary according to their level:

4-year residency

| | |
|------------|-----------|
| Fellow I | Rs 41,000 |
| Fellow II | Rs 46,000 |
| Fellow III | Rs 51,000 |

5-year residency

| | |
|------------|-----------|
| Fellow I | Rs 42,000 |
| Fellow II | Rs 47,000 |
| Fellow III | Rs 52,000 |

In addition, an attractive benefits package will be provided.

Accommodation

Subject to availability, subsidised housing near the campus may be provided to interns, residents and fellows from outside Karachi. Those who cannot be accommodated will be provided an outstation allowance.

Initial appointment will be for a period of one year, renewable and subject to evaluation by faculty.

Information for applicants

Admission Test Centre

Applicants should indicate one centre of their choice in the space provided in the application form.

The time and venue of the test centres will be indicated on the Admit Card. In case Admit Cards do not reach on time, candidates are advised and permitted to write the test at a convenient centre provided they present a photocopy of the application form and a photo ID for identification.

Discipline

The University expects honesty from applicants. Dishonest behaviour during the test or violation of instructions given by the examiner will result in irrevocable disqualification of the applicant from the selection process.

Test structure

The duration of the test is 2 hours and 30 minutes. The test paper consists of 120 multiple choice questions and all questions are compulsory. Applicants are advised not to guess answers. Each correct answer receives one point. Omitted questions do not get any points. 0.25 points will be deducted for every incorrect response.

The community medicine residency test will cover competence in English, mathematics and common clinical problems.

The University has not authorised any publication or preparatory classes for this test.

Answer sheet

The test will be answered on a single, printed answer sheet, which is scored by a computer. All answers must be

marked with pencil. The answer sheet is extremely sensitive. Be absolutely sure before marking an answer and make a dark mark. If you wish to change the answer, erase it completely and then make a new mark. If the computer reads two marks, it will record a zero.

Name and identity of the candidate

At the beginning of the test, you will be asked to fill-in your name and application number on the answer sheet. An example is shown below:

Sample Answer Sheet

FORM NO. F-166 © SCANTRON CORPORATION 1989 4265 C996 14 6
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| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Write I.D. Number Here

Mark I.D. Number Here

IMPORTANT
USE NO. 2 PENCIL ONLY

• EXAMPLE: A B C D E
• ERASE **COMPLETELY** TO CHANGE

Application Number: 0 1 0 4 9

NAME: Fariha Kausar

TEST: AKU Internship / Residency

DATE: 16 - 8 - 2009 PERIOD: 2009 - 2010

Answering multiple-choice questions

For every question, there are 4/5 choices and only one correct answer.

To mark the answer sheet, darken the appropriate box with the pencil provided. For example, if 'C' is the correct answer, it should be marked:

A B C D E

Sample questions

A 34-year old woman has had severe watery diarrhoea for the past four days. Two months earlier, she had infectious mononucleosis. She abuses drugs intravenously and has antibodies to HIV in her blood. Physical examination shows dehydration and marked muscle weakness.

1. Laboratory studies are most likely to show:

- A. Decreased serum K^+ concentration
- B. Decreased serum Ca^{++} concentration
- C. Increased serum HCO_3^- concentration
- D. Increased serum Na^+ concentration
- E. Increased serum pH

2. In evaluating the cause of the diarrhoea, which of the following is most appropriate?

- A. Colonic biopsy to identify Giardia lamblia
- B. Culture of the oral cavity for Candida albicans
- C. Duodenal biopsy to identify Entamoeba
- D. Gastric aspirate to identify Mycobacterium avium-intracellulare
- E. Stool specimen to identify Cryptosporidium

3. Further studies to evaluate her HIV infection show the ratio of helper T lymphocytes to suppressor T lymphocytes to be 0.3. This occurs because HIV:

- A. Induces proliferation of helper T lymphocytes
- B. Induces proliferation of suppressor T lymphocytes
- C. Infects cells with CD-4 receptors
- D. Infects macrophages
- E. Stimulates the synthesis of leukotriene

Notes

THE AGA KHAN UNIVERSITY

Stadium Road, P.O. Box 3500, Karachi 74800, Pakistan

Fax: +92 21 493 4294; Tel: 493 0051

Email: student.affairs@aku.edu