

College of Medicine Annual Report 2010-2011

Prepared By:

Sondos Al-Jazairy

Reviewed By:

Dr. Ali Khraibi

Table of Contents

Introduction	Page 5
Vision.....	Page 5
Message From Dean	Page 5
Approach.....	Page 5
Majors Offered.....	Page 5
Objectives of the MBBS Program	Page 5
I. Faculty Appointment	Page 6
1. Alfaisal University Faculty	Page 6
2. Joint Faculty Appointments	Page 6
II. Medical Student Enrollment	Page 7
III. Medical Student Association	Page 7
1. Committees.....	Page 8
2. News Letter	Page 13
3. Community Support	Page 14
4. Summer program	Page 16
IV. COM Achievements/Activities	Page 17
1. Journal Club.....	Page 17
2. Workshops	Page 18
3. Angiology Conference.....	Page 18
4. Alfaisal Breast Cancer Team.....	Page 19
5. The 2 nd International Thoracic Oncology symposium	Page 19
6. The 5 th Middle East BC symposium	Page 19
7. College of Medicine Committees.....	Page 20
V. Research & Related Activities	Page 20
1. Peer Reviewed Articles.....	Page 20
2. Manuscripts.....	Page 23

3. Grants and Sponsored Projects	Page 25
4. Public University Service	Page 26
5. Professional Service.....	Page 27
6. Professional Development	Page 28
7. Lectures and Invited Speaker.....	Page 29
8. Participation	Page 29
9. Other Research and Scholarly Work.....	Page 34
10. Research and Scholarship	Page 37
11. Honors and Awards.....	Page 40
12. Conference Presentations	Page 41
13. Research Proposals	Page 42
14. Proposals Approved	Page 43
15. Student's Research and Presentations.....	Page 43
16. Other	Page 47
VI. Facilities.....	Page 32
1. Laboratories	Page 49
2. Common Research Laboratory Facility	Page 50
VII. Collaborations	Page 51
1. Partners Harvard Medical International.....	Page 51
2. King Faisal Specialist Hospital & Research Center	Page 51
3. Security Forces Hospital	Page 52
4. RAND	Page 53
5. Adolescence Society	Page 53
6. Queen Marry	Page 54
7. Drafted Agreements	Page 54

VIII. Proposed Graduate Programs	Page 54
1. Biomedical Sciences.....	Page 54
2. Genetic Counseling.....	Page 54
3. Radiological Imaging Sciences.....	Page 54



Vision

Our vision is to use innovative and creative teaching methods in a research environment, foster inquiry and create healthcare leaders in the region. To this end, Alfaisal has chosen several local and international partners for collaboration on the development and implementation of the College of Medicine and its programs.

Message from the Dean

The College of Medicine at Alfaisal University (COM) strives to be a leading, research intensive, student centered college. The dedication of our students, faculty and staff, and our collaborations with hospitals and both national and international institutions ensure that the COM is well placed to succeed in our rapidly developing world.

Approach

The Alfaisal University College of Medicine follows a problem-based hybrid curriculum, in which the context of medical education is based on a student-centered approach. Patients and problems are studied from multiple standpoints. Problem-based learning (PBL) curriculum is integrated with appropriate clinical skills, training and community-based experiences.

Majors Offered

The College of Medicine graduates will be awarded MBBS Degree; additional graduate programs include master and doctoral degrees in biomedical sciences and radiological imaging sciences, as well as a master degree in genetic counseling.

Objectives of the MBBS program

The main objective of the COM MBBS program is to train students to be critical thinkers and problem solvers, skilled in sensing, formulating, and managing common health problems. In doing so, graduates will be better prepared to expand their competencies in any career and in any particular discipline. Graduates will be encouraged and are expected to continue their education throughout their working lives.

The COM has been active in various aspects since July 2009. To date the COM has successfully completed the third academic year, which is a major triumph as measured by the quality of the class graduating to Semester 5.

I Faculty Appointment

1. Alfaisal University Faculty

Faculty appointments have been a major achievement for the COM, whether it is with respect to international or local faculty members. Currently we have a total of 16 full time faculty at the COM, eleven of which joined COM this academic year:

1. Mohammed Faisal Ikram, Lecturer Anatomy, Pakistani.
2. Shoukat Ali, Senior Lecturer Pathology, Pakistani.
3. Shaikh Yaesh, Lecturer Pharmacology Pathology, Pakistani.
4. Nasir Afsar, Senior Lecturer Pharmacology Pathology, Pakistani.
5. Bibi Kulsoom, Lecturer Biochemistry, Pakistani.
6. Solomon Senok, Assistant Professor of Physiology, Nigerian.
7. Abioloa Senok, Assistant Professor of Microbiology, Nigerian.
8. Peter Kvietys, professor of Physiology, American.
9. Moni Nader, Assistant Professor of Physiology, Canadian.
10. Dileep Roha, Associate Professor of Pharmacology, Pakistani.
11. Ronald Edmond De Meersman, Professor of Physiology, American.

2. Joint Faculty Appointments between Alfaisal & KFSH&RC

Based on the agreement between College of Medicine Alfaisal University, and King Faisal Specialist Hospital and Research Center, the College of Medicine appoints clinicians from its affiliated hospital as faculty. Table 1 is a summary of the academic positions and number of clinicians occupying each rank for the year 2010-2011.

Table 1. Distribution of Number of KFSHRC Faculty, and Rank Appointed 2010-11

Position	Number
Professor	12
Associate Professor	37
Assistant Professor	45

II Medical Student Enrollment

COM batches have reached a total number of 193 students. This year, 2010-2011 the college enrolled 89 students 46 of them are of direct admission and 43 are of University Preparatory Program (UPP) graduates. The students are of different nationalities including those of Saudi Arabia, Syria, Egypt, Pakistan, Canada, United States, India, Germany, France, Iraq, Bangladesh, Sri Lanka and Maldives. From all three batches of medicine about 204 students are enrolled in the scholarship programs and receive scholarships from several sources including King Faisal Foundation (Prince Sultan Scholarship Program), Atheeb Company (Prince Abdulaziz Bin Ahmed Bin Abdulaziz), Alfaisal University, Sheikh Abdulrahman Bin Abdulaziz AlRajhi, Sheikh Abdulaziz bin Ali Alshowaier, Sheikh Mohammed Al-Lohaidan, Al-Rajhi, MOHE and other grants from local private companies and businessmen.

This year, the University Preparatory Program (UPP) enrolled 40 students who intend to apply to COM during the next Academic year. In addition, 25 students are expected to apply through direct admission to COM, for a total of 65 potential students.

III Medical Student Association (MSA)

The MSA was created to embody and interpret the interests of the COM student. This year MSA increased the number of committees to reach 7 active committees. The committees are: Academic Affairs, Student Affairs, Growth & Development, Public Relations and Financial. Each committee has a subcommittee with a leader to manage all activities and issues. For example three categories are under the academic affairs committee which is (curriculum,

assessment and evaluation). The student affairs committee is responsible for social and sports activities, as for growth & development, the committee is in charge of tutoring, research and summer program activities. The news letter and information technology activities fall under the public relations committee and all financial and fundraising matters fall under the financial committee.

The following are MSA activities for the year 2010-2011 that includes Student's Committees, Newsletter, Community Support and Summer Program.

1. Committees

Academic Affairs Committee

The Academic Committee was established in the first semester of 2010-2011. It follows the rule "Greatest Good for the Greatest Number" in which every single request or complaint is responded to according to results of an electronic survey distributed among all batch students. The Academic Committee may divide its accomplishments into two categories; Developmental and Request-based accomplishments.

- *Developmental Accomplishments:*

1. Each batch now has an Academic Representative of its own, and all representatives meet regularly to report and discuss the concerns of each batch.
2. The AAC established the blueprint of the Alfaisal Medical Journal, which in the near future will be an annual electronic medical journal that is shared with many other medical institutes around the region.
3. All academic representatives now have the option to attend the monthly administrative assessment and curriculum meetings.
4. Established a new account for electronic surveys along with a database of the results that is easily shareable between the MSA and the concerned persons.
5. Use of social networking to share and receive concerns and updates among students in an efficient way.
6. Allowing students to study on campus after working hours by opening certain number of classes till midnight.

7. Working with the Growth & Development Committee in the summer research program opportunities in world class universities and hospitals.
 8. The Academic Representatives are in close contact with concerned Block Directors and Course Directors for achieving the best outcomes of each course/block.
- *Request-based Accomplishments:*
 1. Formation of the 2nd midterm Behavioral Science Examination.
 2. Having more lectures from favored lecturers and vice versa.
 3. Contacting professors to give review sessions or extra-curricular sessions
 4. Changing of PBL grouping system
 5. Giving the opportunity for students to transfer between their PBL groups.
 6. Reporting to the administration about different professors and their evaluation from students.
 7. Having an open-discussion meeting with the students to share their concerns.

Public Relations Committee

The Public Relations Committee (PR) was established in 2010. The main role of the committee is to establish academic and financial relationships with private and governmental institutes and companies by facilitating the process of academic training and financial support. The PR committee in coordination with all the other committees in MSA works to provide the most suitable requirements for each and every committee starting from funding and ending with preparation of public events.

The PR has successfully achieved a number of objectives throughout the academic year 2010-2011. These Objectives include:

- The establishment of MSA sponsorship and marketing protocol.
- The establishment of MSA sponsorship and marketing catalog.

- Introducing Alfaisal University & MSA to the public and private institutes/companies.
- Funding of the SPIRIT 2010-2011 Program.

Some of MSA future Plans are to search for appropriate sponsorship opportunities for the MSA Newsletter, the Sport Development Committee and College of Medicine Academic Research Programs. PR is also working on establishing an annual academic trading program with Local and International Institutes in addition to creating an advertisement sub-committee for MSA.

Student Affairs Committee

The student affairs committee was established in 2010. The committee represents both social and sports activities.

Alfaisal Chess Tournament: As a change to the demanding academic atmosphere of the University, the Social and Development Committee (SDC) in collaboration with the Medical Students Association (MSA) organized the First Alfaisal Chess Tournament. Students, staff and faculty from all colleges and UPP were invited to take part in the tournament. The tournament games were played over a period of 10 days, with all matches being knock-out matches. Students along with faculty and staff showed great enthusiasm for the tournament. A total of 32 participants took the challenge, out of which 20 were students and 12 were faculty and staff members including senior academic leaders.

The First Alfaisal Chess Champion title went to Ahmad Abu Zeid, student from College of Medicine. The winners were awarded with shields and cash prizes by Dr. Abdulhameed Abdul Jabbar, Vice President for Student Affairs and Dr. Khaled Kattan, Dean of College of Medicine and Mr. Mohammed Alawoyed, Dean of Admission and Registration Student Affairs.

Toy Drive: Toy drive is a project organized by the students to collect toys for orphans, with an arrangement with one of the orphanages in Riyadh. It will involve simply collecting toys on-campus and the organizing committee will then take the responsibility to deliver it to the orphanage. The idea of toy drive aims at enhancing the social responsibility of the Alfaisal

students, and improve their humanitarian side. It will also bring some joy to the orphans when they see that they are not alone in this world, and that they are part of a bigger family.

Culture Day: Alfaisal University has been established in keeping with Islamic culture and heritage, and consistent with global trends in higher education. Alfaisal University proudly hosts students from all over the globe, who are working together to achieve common goals. This cultural diversity gives Alfaisal students an outstanding educational experience, aiding them as they advance as one family through their academic years. Students have taken a keen interest in learning more about the different cultures or traditions that surround them. From learning “Urdu” from Pakistani colleagues to finding out what “Fattoush” denotes in Arabic; these mere examples highlight the day to day interactions that occur at Alfaisal University where students are curious to get an insight into each other’s lifestyle. This observation has motivated us, the MSA in collaboration with the SDC, to come up with the idea of organizing an “Alfaisal Culture Event”.

Debates Competition: We are organizing the first debating contest in Alfaisal University. The pattern of debates will be an adaptation from British Parliamentary Debating Style, where a topic will be allocated for the debates and contestants would be divided into two teams (3 participants per team), one team on the affirmative side of the topic and the other on opposing side. Each speaker from both teams would get a 5-7 minutes time allocation to make their point. Questions, Counter-arguments & healthy criticism will be used by each team to break their opponents. In the end, prizes will be given for the winning team, the best speaker & the runner up. Judges will be comprised of four faculty/administrative personnel representing all four colleges of the university. This debate competition will be open to all Alfaisal University students and is a step towards future participation by Alfaisal University in international grand competitions like World Universities Debating Championship, Pan-African Debating Championship & United Asian Debating Championship.

Movie Night: We all know that medical studies can become stressful, but what we all don’t know is how important it is to let out this stress. Therefore, following the tradition of Alfaisal movie nights, this year also the student affairs committee will be organizing a

movie night to basically provide an activity for the students where they can let go off the steam. Not only this, the Movie Night will provide an event where students from all the batches can come together, interact and discuss topics outside the medical world.

Growth & Development Committee

The Alfaisal Medical Student Association Growth & Development Committee has established a Summer Program for International Research Internship & Training (SPIRIT). This Committee has fund-raised to assist the travel and accommodation costs for carrying out research overseas. SPIRIT has identified approximately 45 research positions at Universities in Australia, Canada and the United States for this coming summer. This is building upon the very successful research experience by 16 students in laboratories in Canada and the United States last summer. In addition, SPIRIT is facilitating clinical and research experience for medical students in hospitals located within KSA. Another major role of the development committee is to help students improve academically in curricular and extracurricular courses. In an attempt to help the students improve their grades in the exams, facilitate their studying process and understanding of the material they are learning, the Development Committee has also started a tutoring program in the academic year of 2009/2010, fall semester. The program was designed to give tutorial lectures to the students with the tutors being the medical students themselves. Tutors were selected according to their strong knowledge in particular subjects. A tutoring program was conducted for both years in almost all subjects at the beginning of the previous semester.

Financial Committee

MSA's financial committee deals with all aspects related to financing MSA's activities from MSA's yearly budget planning to fundraising for its projects. This year, the committee made its priority to pay MSA's debts from previous years. In addition to that, the committee fund raised over half a million Saudi Riyals for MSA's SPIRIT 2011 project. Thus offering the MSA the ability to raise the number of SPIRIT students it sponsor's from 12 students, covered with partial sponsorship, to 40 students with full sponsorship that covers all their traveling and housing expenses. At this stage, the committee is working hand-in-hand with MSA's planning committee to establish the committee's strategic financial projects that will

provide long term, sustained income and MSA's expected operational budgets in the coming five years. Thus, preparing the committee for its upcoming challenges and offering MSA its independent financial stability that assure the continuation of its current projects and the ones that the strategic plan will introduce in the near future.

2. Newsletter (Medtimes)

Debuting on an ideal date of January 2009, the College of Medicine newsletter, Med Times, was founded by Mohammed Khusheim, a medical student, to offer a wide variety of features that enabled all medical students to fulfil their writing desires, incorporate their character, and, as its motto says, "Voice Yourself!"

From news and updates on college events and activities, student achievements and experiences, personal articles, student quotes, constructive criticism, research abstracts, photo collages, and miscellaneous student-centred themes, Med Times aims to cover all and is published at the beginning of every academic month targeting all readers. Furthermore, a fraction of Med Times encompasses an Arabic section called "حتى يغيروا ما بأنفسهم" founded by medical students Hani Alturkmani and Malik Nassan that aims to enlighten all, especially the youth, on how one can change oneself for the better in various aspects.

This newsletter was able to grow exponentially when its committee, the Press, was formed to adhere to its needs. Including me, Mohammed Khusheim, the Newsletter Director, the committee is currently made up of 13 medical students from all batches occupying a variety of positions; reporters, photographers, editors, Arabic section producers, and designers who work synergistically to produce Med Times. Of course, choosing such a committee required creating a protocol by which position criteria were met and job descriptions followed as was done at the start of every academic year.

From its first appearance, Med Times has been released with 11 issues, each with its unique advancements, modifying the Press protocol, better ways to amplify the students' voice, and distributed to as many intra- and extra- Alfaisal readers both via tabloids and email. As for future plans, the Press aims to achieve even greater coverage of student accomplishments,

better express the students' voice, and reach international attention and become on par and greater than student newsletters abroad.

All in all, Med Times is both an honour and a privilege for the students to express to all who they are, what they do, and how they do it. Such a newsletter aims to physically embody our memories and acts as a means by which students can express themselves.

3. Community Support

A. International Volunteer Day

As a reminder of the importance of volunteerism and to raise the spirit to make self-service for charitable work, on the occasion of International Day for the volunteer which came during the month of December, the Medical Students in collaboration the Saudi Alzheimer's Disease Association implemented a pilot program to visit schools in Riyadh. In the context of this activity, the students visited a number of private schools selected: schools of advanced education, Riyadh Najd schools, Najd schools, Riyadh Schools and King Faisal School. The program for each visit includes a number of activities; introduces the association and Alzheimer disease with emphasis on explaining the virtues of volunteerism and its importance to support charities, and goals, in less than an hour, and the Declaration on the short story competition (in our home a patient with Alzheimer's disease), where the declared winner will be awarded during the annual ceremony. Usually between one hundred to four hundred students attend and participate in these events.. The pilot program turned out to be a great success and plans are made to establish an extended program next year.

B. To an International Excellence 2011

Students of the college of Medicine have arranged a research conference entitled "Towards an International Excellence". The conference was attended by a number of professors from various universities, and doctors from the King Faisal Specialist Hospital and other hospitals. The conference included a presentation on the program of research and training of the summer of 2010, which was held in the United States, Canada, and Riyadh. More than

15 students spoke about various topics and latest research and studies in the field of medicine, especially with regard to Alzheimer's disease, cardiovascular diseases and kidney diseases. The summer program came at the initiative of the students since the summer of 2009, and focuses on providing students with world-class courses in the area of research and training through the creation of appropriate opportunities within and outside the Kingdom. At the conclusion of the conference all students who participated in summer research program had been awarded by their teachers, and the Director of Academic Affairs and Student Affairs of the college of medicine.

C. Saudi Alzheimer Disease Association (Awareness Meetings and executive team members) in Riyadh, Madinah, Aljouf and Dammam

Since the establishment of the association, the medical students have been very active and contributed to better help Alzheimer patients, their families and the Saudi Society as a whole. Furthermore, the students have been part of the association executive committee and were part of the association decision making team. Starting from 2010 the association has started its introduction and awareness program for the public to introduce Alzheimer and its importance to the public where the medical students were the core part of these campaigns and have proven to be very responsible hardworking efficient.

D. University Weight Loss Event

On the 21st - 23rd of February, 2011, the university Obesity Campaign was conducted as a continuation of an initiative presented to batch 2008, at the end of the semester in January, by Bara AlMakadma and the Obesity Campaign team composed of 13 people. The original work was composed of an entirely new look at obesity, answering the question “are we obese?”, and published in available brochures, that address obesity from the perspective of obesity in society! Through MSA, Bara and team were informed about the effort of students in King Saud University, and the “who weighs you?” the campaign started in association with the Riyadh wide effort. Alfaisal University, however, unlike other universities continued in their own efforts with appreciated support from the regional team (with

leadership in King Saud University), and association with Shikh Ali Bin Sulaiman AlShehri Obesity Chair in KSU, went on with its own unique idea. In uniforms carrying the campaign's logo on chest and Alfaisal's logo on back, the campaign started by running down every hall in the university for one hour in each of the first two days. On the last day: a booth was set, and awareness materials were given out, weight and height (body mass index) measurement and interpretation of the results were given to each subject. The goal of the campaign is: to have our university weigh less.

4. Summer Program

Alfaisal Medical students association believes greatly in the importance of providing the medical students with research experience on both levels locally and globally. Thus, it started to develop research programs locally in 2009 in collaboration with KFSHRC, King Abdulaziz City for Science and Technology (KACST,) Kingdom Hospital & AlHabib Medical Center where more than 50 students had participated. A year later, in 2010, the program evolved to become global and involved countries such as: United States and Canada. Around 12 students found their ways outside and enriched their research experience in highly recognized institutes and centers with highly recognized researchers in the areas of interest to the students (University of Mississippi Medical Center and St. Boniface Hospital, University of Manitoba Research Center). The feedback came very positive from the professors in which they expressed their impressions via email to our faculty at Alfaisal. Alfaisal students came up with their own theories and some of their ideas now are under investigation although they left the country. As a result of their research, some students are now coauthors on published articles in prestigious American Medical journals. A lot of students are sharing their experience through presenting their articles and abstracts in international conferences locally and globally. For the summer of 2011, we have managed to secure 40 research seats, and expanded to include top universities in the USA, Canada, UK & Australia; Harvard University (4 students), Yale University (3 Students), Vanderbilt University (3 Students), University of John Hopkins (2 students), University of Mississippi (8 students), University of Manitoba (7 Students), University of Alberta (2 Students), University of Montreal (4 students), Sherbrook University (4 students), Saskatchewan University (3 students), Imperial Collage of London (2 students) and Griffith University (2

students). Alfaisal Students are highly motivated and would like to compete with international students in USA and Canada for residency. Therefore, Our Curriculum Vitae should have research experience. In two more years, Alfaisal Medical students will graduate and deal with the community, and will represent Alfaisal very well if they are qualified with research experience, which exactly meet the mission and vision of Al Faisal University.

Methods: The basic steps we followed were as follows:

1. We received all students applications and Curriculum vitae, which were around 80 students
2. The growth and Development Committee evaluated all the CVs and applications and selected the highly qualified students.
3. 44 students were selected.
4. All the students were matched to different places based on their interest.
5. All of this process was under the supervision of Alfaisal medical college faculty.
6. Students are attached to their corresponding researchers outside and they communicate with our students to make the arrangements.

IV College of Medicine Achievements/Activities

1. Journal Club

The Journal Club of the COM allows students and faculty to meet regularly to critically evaluate recent original articles in the medical scientific literature. The Journal club is usually organized around a defined subject in basic or applied medical research that is relevant to the particular block being studied. For example, the application of evidence-based medicine to an area of medical practice is also facilitated by the journal club. The purpose of the COM Journal Club is to help students understand the purpose of doing research, critically evaluate the data and conclude a study in a more meaningful way (including biostatistics). This exercise familiarizes the students with the application of appropriate scientific methods starting with proposing a hypothesis, designing proper protocols and methods to test the hypothesis, collecting and analyzing the data, and making proper conclusions based on the results. The students are encouraged to critique research papers and suggest alternative studies that can support and

strengthen the hypothesis. Journal clubs are usually held on the first Wednesday of each month where students and faculty spend an hour discussing published papers within a theme of the ongoing block.

2. Workshops

The COM hosts a 3-day workshop on a bi-annual basis to depict the modern teaching methods on the 'Basic Principles of Undergraduate Medical Education', led by our Partners Harvard Medical International Faculty. The course mainly targets clinicians from our affiliated hospital 'King Faisal Specialist Hospital and Research Center' who are interested in obtaining an academic appointment at the COM based on an existing agreement between the two institutions. Each workshop accommodates up to 30 clinicians from various specialties selected based on the specialties that correspond with our curriculum structure. Upon completion of the workshop, the candidates fill out an application form that is used to determine their academic rank based on specific credentialing criteria set by the COM. So far, there have been nine workshops on the Basic Principles of Undergraduate Medical Education conducted by the COM. The workshop focuses on the Problem Based Learning technique, assessment and evaluation system, curriculum structure and design. College of medicine is in the process of conducting its second workshop for the year 2011.

3. Angiology Conference

College of Medicine of Alfaisal University was extremely proud to be represented by six of their second year medical students at the 52nd Annual Congress of the International College of Angiology held in Lexington, Kentucky this past October 2010. The Alfaisal medical students: Ahmed Alshibi, Diya Sabbagh, Bakr Swaid, Karam Hamweyah, Abdulaziz AlKattan and Osama Abu Saleh presented their research paper entitled "Persistent Bilateral Sciatic Arteries: a Rare Finding of Teaching Importance" at a forum of the Young Investigator Award Competition at the World Congress of International College of Angiology in Lexington Kentucky, USA, from October 17-19, 2010. None of this would have been possible without the expertise and experience of the students' professor. Dr. Paul Ganguly, Professor of Anatomy at Alfaisal University, noticed an unusual artery in one of the medical student anatomy laboratory sessions. He and Ms. Michéle Cowan as well as the students dissected the artery and discovered it was a

very rare abnormality. Dr. Ganguly and the students then submitted their findings to the International Congress of Angiology and the Congress found this of such interest that they invited them to present their findings at the Congress's annual meeting in Kentucky. The research presented by the students in the 52nd Annual Congress had previously won the 1st prize in last year's Research Poster Competition Day at Alfaisal University. In addition, the manuscript describing their findings has been accepted by the International Journal of Angiology and will be published during the upcoming year. The students said they were very proud to represent Alfaisal Medical College at such a prestigious conference.

4. Alfaisal Breast Cancer Team

The project started at the months of April – May, 2010 witnessed very interactive and eye-opening events under the theme of “Help for Today ... Hope for Tomorrow” workshops to spread awareness about Breast Cancer. The workshop was one of a kind and has been conducted in two locations within the city of Riyadh, Saudi Arabia. The project was a collaborative work between Alfaisal College of Medicine and Zahra Association for Breast Cancer. Furthermore, the success of the project resulted in the establishment of Alfaisal Breast Cancer Team (ABCT).

The project has won the 5th prize in the “5th Middle East Best of CRTC-AACR San Antonio Breast Cancer Symposium,” 2011. The abstract entitled “Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop” submitted by the team to the symposium has been selected for poster presentation. The abstract was evaluated and awarded the fifth prize among all abstracts (oral & poster) and the 2nd best among more than 25 posters. The project has been evaluated as one of the top 15 submitted to the Leiden International Medical Student Conference (LIMSC 2011) and is selected for an oral presentation, Leiden – Netherland. The project has received two grants from the organizing committee of (LIMSC) and from the National Guard Hospital who organized the “5th Middle East Best of CRTC-AACR San Antonio Breast Cancer Symposium.”

5. The 2nd International Thoracic Oncology Symposium

In November 3-4, 2010, five medical students (Abdullah AlShammari, Abdulhadi AlAmoudi, Ayman Awad, Malik Nassan & Adel Helmi) presented their accepted abstract entitled

“November is the Lung Cancer Awareness Month in the U.S., What About Us?” during the 2nd international Thoracic Oncology Conference, Riyadh. The symposium was a great opportunity for the students, since lung cancer professionals working, both, in the laboratory and in clinic, in the field of basic and translational research and in daily patient care shared the most updated knowledge and views concerning the development of innovative diagnostic and therapeutic methods.

6. The 5th Middle East Best of CRTC-AACR San Antonio Breast Cancer Symposium

Alfaisal University, Breast Cancer Team, has won the 5th prize in the “5th Middle East Best of CRTC-AACR San Antonio Breast Cancer Symposium.” The team which consists of four medical students; Abdullah AlShammari, team leader, Akram Nurhussen, Mohannad Abousaleh and Sadek Obeidat, faculty member Dr. M. Hasan Rajab, a staff member Ms. Sondos Al-Jazairy and a member from Zahra Association for Breast Cancer Ms. Abrar AlDahlawi has been actively involved in the research for more than nine months.

7. College of Medicine Committees

College of Medicine has established 11 committees so far. Those committees are: the Executive committee, curriculum committee, assessment, graduate degree committee, college research committee, student development committee, accreditation committee, facility and lab committee and promotion committee. Each of these committees has principle functions, chair, and deputy chair in addition to some faculty members. College Board committee has members from our affiliated hospitals. They meet monthly to discuss the college updates and future plans. Some committees such as the curriculum and student development committees have a selective student member who attends the meeting with the college faculty to address students issues and feedback.

V Research & Related Activities

1. Publications:

Articles in Print

1. AlShammari A, Obeidat S, Nurhussen A, Abu Saleh M, Al-Dahlawi A, Al-Jazairy

- S, Erfan N and **Rajab MH**. 2011. Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. *Medical Science Educator*, **21(1S)**: 131.
2. **Arain S.A.**. 2011. Pattern of histological findings in chronic hepatitis C with alanine transaminase levels below twice the normal value. *JPMA* **61**: 264-267.
 3. Bahadur Y, Al Husaini H, **Rajab MH**, Jazieh A. 2010. Guidelines: The epidemiology of lung cancer in the Kingdom of Saudi Arabia. *Ann Thorac Med*, **5**: 5-7.
 4. Clark, T.A., Maddaford, T.G., Tappia, P., Heyliger, C., **Ganguly, P.K.**, Pierce, G. 2010. Restoration of cardiomyocyte function in streptozotocin-induced diabetic rats after treatment with vanadate in a tea decoction. *Current Pharamaceutical and Biotechnology* **11**: 906-910
 5. Coates, P.J. and **P.A. Hall**. 2010. p53: Recent advances in our understanding of this key tumour suppressor: Virtual Issue 1. *Journal of Pathology* online April **2010** [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1096-9896/homepage/virtual_issues.htm](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1096-9896/homepage/virtual_issues.htm)
 6. **Cowan M.C., N.N. Arain, T.S. Abu Assale, A.H. Assi, R.A. Albar and Paul K. Ganguly**. 2010. Student-centered integrated anatomy resource sessions at Alfaisal University. *Anatomical Sciences Education* **3**: 272-275
 7. Du M, **P.A. Hall**. p53: Recent advances in pathobiology of lymphoma: Virtual Issue 4. *Journal of Pathology* online December **2010** [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1096-9896/homepage/virtual_issues.htm](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1096-9896/homepage/virtual_issues.htm)
 8. Elkins G, Cook T, Dove J, Markova D, Marcus JD, Meyer T, **Rajab MH**. 2010. Perfect M. Perceived Stress Among Nursing and Administration Staff Related to Accreditation. *Clinical Nursing Research*, **19**: 376-386.
 9. Ganguly, P., A. Khraibi and **B.H.J. Juurlink**. 2010. **Medical education in cardiovascular sciences: accommodating a research-driven curriculum.** *CV Network* **9(2)**: 14-17.

10. **Hall, P.A.**, R.F.J. Tomlinson, I.M.P. Poulson. 2010. Genes genomes and disease. *Journal of Pathology* **220**: 109-113.
11. **Hall P.A., R. Poulson and J. Wixon. 2010. New developments at the Journal of Pathology** *Journal of Pathology*, **220**: 221
12. **Hall P.A.** 2011. Getting your paper published: An Editors Perspective. *Annals of Saudi Medicine* **31**: 72-76
13. **Hall P.A., J. Wixon, R. Poulson. How the Journal of Pathology deals with ethical issues.** *Journal of Pathology* **2011** 223(4):447-9.
14. Hom J., **T Yu**, Y Yoon, G Porter, and SS Sheu. 2010. Regulation of mitochondrial fission by intracellular Ca²⁺ in rat ventricular myocytes. *Biochimica Biophysica Acta (BBA) – Bioenergetics* **1797**: 913-921.
15. **Kvietys P.** 2010. Role of intestinal lymphatics in interstitial volume regulation and transmucosal water transport. *Ann NY Acad Sci* **1207 (Suppl 1)**: E29 -43.
16. Mahajan A, **Simoni J**, Sheather S, Broglio KR, **Rajab MH**, and Wesson DE. 2010. Daily Oral Sodium Bicarbonate Preserves Glomerular Filtration Rate by Slowing its Decline in Early Hypertensive Nephropathy. *Kidney International*. **78**:303-309.
17. Phisitkul S, Khanna A, **Simoni J**, Broglio KR, Sheather S, **Rajab MH**, Wesson DE. 2010. Amelioration of Metabolic Acidosis in Patients with Low GFR Reduced Kidney Endothelin Production and Kidney Injury, and Better Preserved GFR. *Kidney International*. **77**: 617-623.
18. Piziak V, **Rajab MH**. 2011. An Effective Team Approach to Improve Postoperative hip Fracture Care. *J Orthop Trauma*. **25**: 72–75.
19. Piziak V, Morgan-Cox M, Tubbs J, Rajab **MH**. 2010. Elevated Body Mass Index in Texas Head Start Children: A Result of Heredity and Economics. *Southern Medical Journal(SMJ)*. **103**: 1219-1222.
20. Scott NG, Ripperger-Suhler J, **Rajab MH**, Kjar D. 2010. Factors Associated with Atomoxetine Efficacy for Treatment of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents. *Journal of Child Adolescent Psychopharmacology*. **20**: 197-203.

21. Xiang L., R.L. Hester, W.L. Fuller, **M.E. Al Sebae**, P.N. Mittwede, E.K. Jones, A. Aneja, and G.V. Russell. 2010. Orthopedic Trauma-Induced Pulmonary Injury in the Obese Zucker Rat. *Microcirculation* **17**: 650-659.
22. **Yu T**, S Jhun, Y Yoon. 2011. High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of mitochondrial fission. *Antioxidants & Redox Signaling***14**: 425-437.
23. Yoon Y, CA Galloway, BS Jhun, and **T Yu**. 2011. Mitochondrial dynamics in diabetes. *Antioxidants & Redox Signaling* **14**: 439-457.

Published Papers

1. H ElBawab, M. Abouzeid, M. Rafay, W. Hajjar, W. Saleh, **K. Al Kattan**, Clinical Use of Combined PET/CT in Thymoma Recurrence, Interactive Cardiovascular Thoracic Surgery 2010; 11: 395 – 399.
2. W. Saleh, A. Bamousa, Al-Mutairi, **K. Al Kattan**, Thoracic Enucleation of Esophageal Leiomyoma in Patient with MEN I Syndrome, Annals of Thoracic Medicine – Vol. 5, Issue 1, January – March 2010.

2. Manuscripts

In Press

1. Chilibeck, P.D., S.M. Cornish, A. Schulte, N. Jantz, C. Magnus, S. Schwanbeck and **B.H.J. Juurlink**. 2011. A randomized clinical trial involving spinal manipulation for reducing imbalances in leg strength. *Journal of the Canadian Chiropractic Association, in press*
2. Eman J. Sharaf, **Abiola C. Senok**, Edet E. Udo, Giuseppe A. Botta. 2011. Trafficking of Methicillin Resistant Staphylococci and Co-Colonization with Vancomycin Resistant Enterococci. *Medical Principles and Practice, in press*
3. Ganguly, P., A, Yaquinuddin and **B.H.J. Juurlink**. 2010. Rare vascular anomalies in a case of persistent bilateral sciatic arteries. *Chirurgia, in press*

4. **Ganguly, Paul, Ahmed N. AlShibi, Khalid AlShehri, Arif Abdalbaki, Anas Jobeir, Mohamed Diya Sabbagh,** Thane G. Maddaford and Grant N. 2011. Diabetes, Hyperhomocysteinemia and Stroke: The Missing Link. In: Pierce *in Grey Matter Dysfunction*, Novapublishers, in press
5. Latchman P, Mathur M, Bartels M, Axtell R and **R. De Meersman**. 2011. Baroreceptor sensitivity in obese and non-obese normotensive children. *Clinical Autonomic Research*, in press
6. Marta A. Ambrozewicz, **Ali A. Khraibi**, Fatma Simsek- Duran, Sophia C. DeBose and Anca D. Dobrian. 2011. Obese and lean rats on high fat diet have different renal sodium regulation in response to nitric oxide depletion. *American Journal of Hypertension*, in press
7. Menk, R.H., E. Schültke, L. Rigon, C.H. Hall, F. Arfelli, L. Rigon, S. Rigley-MacDonald, A. Round, A. Astolfo, K. Atael-Mannan and **B.H.J. Juurlink**. 2011. Gold nano-particles as a cell marker for synchrotron-based imaging. *Nanomedicine*, in press
8. **Rahmatullah, Ali, Azhar Farooqui, Ahmed Warraich, Ahmed Farahat, Haaris Ahmad, Samer Alanazi, Adel Helmi, Ahmed Shihri**. 2011. Current challenges to the primary health care in KSA. *Journal of Pakistan Medical Students*, in press
9. **Rohra, D.K.** 2011. Home deliveries: reasons and adverse outcomes in women presenting to a tertiary care hospital. *J Pak Med Assoc*, in press
10. **Rohra, D.K.** 2011. Quantitative and qualitative analysis of Pubmed-indexed biomedical publications in Oman from years 2005-2009. *Oman Med J*, in press
11. A.S.O. BaHammam and MA..**Alzoghaibi**. 2011. The Effect of One Night of Continuous Positive Airway Pressure Therapy on Oxidative Stress and Anti-oxidant Defense in Hypertensive Patients with Severe Obstructive Sleep Apnea. *Sleep & Breathing*, in press

Submitted

1. **S.A. Arain.** “Predictive value of serum alanine transaminase levels for the identification of liver histology in chronic hepatitis C” is submitted to The Journal of Ayub Medical College Abbottabad. This is in review process.
2. Chavez A, Coffield S, **Rajab, MH.** Incidence of Prostate cancer in men treated with Phosphodiesterase type 5 inhibitors. *BJU international.*
3. **P. Kvietys.** The role of reactive oxygen & nitrogen species in the microvasculature. Free Radicals in Biology & Medicine, Invited Review
4. **Dileep K. Rohra.** “Representation of less-developed countries in Pharmacology journals: an online survey of corresponding authors” in BMC Res Methods
5. Bartels M, Gates G, Downey J and **R. De Meersman.** Baroreceptor sensitivity in COPD patients. Submitted to Chest
6. Senanayake, G.V.K., A. Banigesh, L. Wu, P. Lee, and **B. H.J. Juurlink.** The dietary phase 2 protein inducer sulforaphane can normalize the kidney epigenome in hypertensive rats and improve blood pressure. *American Journal of Hypertension*
7. **Juurlink, B.H.J.** The enormous obesity epidemic problem is complex but the solution is simple. *The Scientific World Journal*
8. **B.H.J. Juurlink.** Carbon nanotubes: The asbestos of the 21st Century? *Nano Research*
9. ManuscriptNo.: SLBR-D-11-00022R1, Title : "*The Effect of One Night of Continuous Positive Airway Pressure Therapy on Oxidative Stress and Anti-oxidant Defense in Hypertensive Patients with Severe Obstructive Sleep Apnea*", Authors: Prof. Ahmed SO BaHammam, **Mohammed A Alzoghaibi**, PhD

3. Grants and Sponsored Projects

- Y Yoon, **T Yu**, Co-PI, Mitochondrial fission in liver function, NIH DD/KD-R01DK061991, 20/03/2010-31/01/2014. Direct Costs: US\$1,250,000

- Y Yoon, **T Yu**, Co-PI, Mitochondrial dynamics in hyperglycemic ROS production, NIH DD/KD- R01DK078618, 01/04/2008-31/01/2012. Direct Costs: US\$1,250,000
- **T Yu**, A Khraibi, M Alzoghaibi, L Wang, and S Issa, PI, Mitochondrial Fission and Pancreatic β -Cell Apoptosis in Type 2 Diabetes, KACST 10-BIO1129-44, 2,000,000 Saudi Riyals, Pending.
- **T Yu**, A Khraibi, and BH, Juurlink, PI, Mitochondrial Dynamics in Diabetic Nephropathy, KACST 09-BIO813-44, 1,966,400 Saudi Riyals, Pending.
- **M Nader**, **T Yu**, **A Khraibi**, and **BH Juurlink**, Co-PI, Role of the scaffold protein Striatin in regulating cardiac remodeling and function, KACST, 2,000,000 Saudi Riyals, Pending.
- **M Alzoghaibi**, **A Khraibi**, **T Yu**, Co-PI, Role of Relaxin and Nitric Oxide (NO) in Renal Adaptations During Pregnancy, KACST, 1,884,000 Saudi Riyals, Pending
- **Paul Ganguly**, Grant Pierce, PI, Two approved grants pending funding, KACST, 780,000 And 1.9 million, 2009-2012
- **Mohammed Al-Zoghaibi** (PI); **Ali Amin Khraibi** (Co-PI); **Tianzheng Yu**(Co-PI); **Bernhard H.J. Juurlink**(Co-PI). Co-PI. Role of Relaxin, IL-1 β , and TNF- α cytokines in expression and activation of Na⁺-K⁺-ATPase and NHE-3 transporters. KACST (submitted)

4. Public University Service

- **Paul Ganguly**, Curriculum Committee, Maajmah University, KSA, Building anatomy resource centre, 6 months.

5. Professional Service

- **Rajab MH**, Invited Editor, 2010 – current, International Journal of Diabetes Mellitus – Elsevier Editorial
- **Rajab MH** , Invited Editor, 2010 – current, Invited Editor - Annals of Saudi Medicine
- **Rajab MH**, Adjunct Professor, Texas A&M University College of Medicine, 2009-2011, Graduate Advisor, Teaching electives in Medical Research
- **Rajab MH**, Invited as an expert to participate in the Clinical Research Training Program for Oncology Investigator, AMAAC, Amman, Jordan, February 2011, Study Design – Biostatistical analysis expert.
- **Paul Ganguly**, 1. Scientific Consultant, St. Boniface General Hospital, Canada, Since 1989, Active biomedical research.
- **Paul Ganguly**, International Academy of Cardiovascular Sciences, Life member, Education.
- **Paul Ganguly**, Reviewer, Molecular and Cellular Biochemistry, Manuscript evaluation
- **Rajab MH**, Member the Saudi Lung Cancer Guidelines Committee (LCGC), 2009-2011, Biostatistician expert.
- **Rajab MH**, Breast Cancer Awareness Workshops in Riyadh Community, in collaboration with Zahra Breast Cancer Association, 2010, ABCT member.
- **Rajab MH**, NCAAA Workshop – “Improvement and Action Plans”, April 26-27, 2011, AU Faculty Representative
- **Solomon Senok**, Council member, African Association of Physiological Sciences (AAPS), Consultation with executive committee in organizing AAPS congress, 2004-present.

6. Professional Development

- 2011-2013 Ph.D., Medical Education (ongoing). International Graduate Medical Education Program. University Ambrosiana. Milano, Italy.
- Paul Ganguly, **St. Boniface General Hospital Research Centre and University of Manitoba-continued formal education**
- Paul Ganguly, **Fellow of International College of Angiology**
- **Bibi Kulsoom** ,Workshop for METIman® utility in undergraduate medical curriculum, organized by METIman® and Alfaisal University, April 2-3, 2011.
- **Bibi Kulsoom**, KPI Workshop, December 15, 2010, organized by HR Department, Alfaisal University.
- **Bibi Kulsoom**, Medical Education Workshop, December 4-6, 2010, Jointly organized by Alfaisal University and Partner Harvard Medical Institutes.
- **Nasir Ali Afsar**, Workshop for METIman® utility in undergraduate medical curriculum, organized by METIman® and Alfaisal University, April 2-3, 2011.
- **Nasir Ali Afsar**, KPI Workshop, December 15, 2010, organized by HR Department, Alfaisal University.
- **Nasir Ali Afsar** , Medical Education Workshop, December 4-6, 2010, Jointly organized by Alfaisal University and Partner Harvard Medical Institutes.
- **Nasir Ali Afsar**, Invited lecture in Basic Sciences Section at 9th Shaukat Khanum Memorial Cancer Symposium, November 26-28, 2010 at Lahore, Pakistan.
- **Abiola Catherine Senok** ,Educational workshops conducted as part of the 21st European Congress of Clinical Microbiology and Infectious Diseases and the 27th International Congress of Chemotherapy; 7-10th 2011, Milan
Titles: 1. Molecular resistance detection
2. Hand hygiene and hospital acquired infections
- **Abiola Catherine Senok**, Workshop on PBL and undergraduate medical education for new faculty. Conducted by Partners Harvard Medical International Faculty; Al-Faisal University, 7th December 2010
- **Solomon Senok**, Riyadh Medical education Club Meetings.

7. Lectures and Invited Speaker

- **Paul Ganguly**, 4th world Congress-International Academy of Cardiovascular Sciences, Varoda, February 1-7, 2011
- **Paul Ganguly**, Cuba-Canada joint Conference on Biomedical Sciences, Cuba, January 18-23, 2011 (not attended)
- **Khaled Alkattan**, Speaker, Workshop on Lung Cancer Staging, 2nd International Thoracic Oncology Conference, Riyadh, Saudi Arabia, 03 – 04 November 2010.
- **Khaled Alkattan**, Presentation of Case. Chest Club, Riyadh, Saudi Arabia, 14 June 2010.
- **Khaled Alkattan**, Update on Lung Cancer. 1st International Respiratory Disease Conference, Al Khobar, Saudi Arabia, 08 – 10 June 2010.
- **Khaled Alkattan**, New Staging in Lung Cancer. 17th Egyptian Society of Cardiothoracic Surgery, Cairo, Egypt, 23 – 25 March 2010.
- **Khaled Alkattan**, Surgery for Multisegment Mental Bronchiactasis. Gulf Thoracic 2010, Beach Rotana Hotel, Abu Dhabi, UAE, 17 – 20 March 2010.
- **Khaled Alkattan**, Speaker, Chair of Health Session, Jeddah Economic Forum, Jeddah, Saudi Arabia, 13 – 16 February 2010.
- **Khaled Alkattan** Attended, 5th Annual General Surgery Conference, King Khalid University Hospital, 06 – 08 February 2010.
- **Khaled Alkattan**, Chair, Scientific Session 1: Upper GI / Thoracic Surgery, 1st Saudi Surgical Research and Resident's Day, Four Season's Hotel, Riyadh, Saudi Arabia, 04 February 2010.

8. Participation

- **Tianzheng Yu** *Gordon Research Conference on Enzymes, Coenzymes, Metabolic Pathways*, poster session, High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of Mitochondrial fission, July 18-23, 2010

- **Tianzheng Yu** 22nd *Enzyme Mechanisms Conference*, poster session, Control of Mitochondrial Biogenesis by Mitochondrial Dynamics, January 2-6, 2011
- 2011, **Rajab MH.** Bio-statistical Concepts of Clinical Trials. Invited presentation, Clinical Research Training Program for Oncology Investigators. AMAAC Conference. Amman, Jordan. February.
- 2011, AlShammari A, Abrar Al-Dahlawi A, Nurhussen A , Al-Jazairy S, Obeidat S, **Rajab MH.** Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. Accepted for presentation at the International Medical Students conference, March 18-22, Leiden. (awarded best abstract)
- 2011, **Rajab MH.** P values, Confidence Interval and Common Statistical Tests Workshop. To be presented at King Saud University 3rd Workshop on Research Methodologies, Biostatistics and Scientific Writing. January 3-5. Department of Medical Education and Department of Family and Community Medicine.
- 2011, **Rajab MH and Al-Jazairy S.** Excellence in Poster Presentation workshop. The International Conference on Teaching and Learning as Tool of Progress in Higher Education. Prince Sultan University. January.
- 2010, AlShammari A, Abrar Al-Dahlawi A, Nurhussen A , Al-Jazairy S, Obeidat S, Abu Saleh, Hesham M, Al Khashan A, and **Rajab MH.** Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. Alfaisal University, College of Medicine. April.
- 2010, Aman Inaya, Abu-Zaid A, Al-Jazairy S, and **Rajab MH.** Caring For Alzheimer's Disease Patient: Providing The Best Care While Maintaining Own Well-Being Workshop. Planning stages. Alfaisal University, College of Medicine.
- 2010, AlKhani A, Al-Shammari A, Nazmi S, Abusaleh M, **Rajab MH,** Al-Kattan W and Ganguly P. Assessment System at the College of Medicine, Alfaisal University. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.

- 2010, Adi AH, Nassan MK, Khusheim MS, Awaad AY, Al-Hamdani A, Al-Yafi MN and **Rajab MH**. Prevalence of Obesity in Renal Dysfunction (RD) Adults Residing in Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
- 2010, AlShammari A, **Rajab MH**. Effectiveness of an Innovative Community-Based Lung Cancer Awareness Workshop. *Presented at the 5 Second International Thoracic Oncology*. November 4. Alfaisaliah Hotel, Riyadh.
- 2010, Obeidat S, AlShammari A, AlMahmoud A, Mathbout M, Abu Saleh M, Nurhussen A, Alkurdi Y, AlMasoud W and **Rajab MH**. Prevalence of Breast Cancer in the Dariya Region of Riyadh, Saudi Arabia. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
- 2010, **Rajab MH**. Second International Thoracic Oncology. Co-Chair Session 8: Research and Collaborative Efforts. November 3-4. Alfaisaliah Hotel, Riyadh.
- 2010, **Rajab MH**. Translational Research: Why it matters. A seminar presented at Alfaisal University. May.
- 2010, Inayah AT, AlAmoudi A, Abu-Zaid AM, Awad A, AlMakadma B, Anindo M, **Rajab MH**. Awareness about Alzheimer's Disease in the Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
- 2010, Inayah AT, Awad A, AlAmoudi A, Abu-Zaid AM, Anindo I, and **Rajab MH**. Alzheimer's Disease Awareness in Riyadh Community. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition*. April.
- 2010, Nassan M, Anwer M, Abouammoh M, Alshenawy W, and **Rajab MH**. Impact of Marital Status on Academic Performance of Medical Students. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition*. April.

- 2010 , Adi A, Nassan M, Awaad A, Al-Yafi N and **Rajab MH**. Prevalence of Obesity in Renal Dysfunction (RD) Adults Residing in Riyadh Community. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010 , Al Mahmoud AF, Abuzaid A, Abbrar M, Nurhussen A, Al-Amoudi A, **Rajab MH**. Impact of early Islamic Era on Medical Accountability. . Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010 , Al Mahmoud AF, Abdul-Halim R, Dirks J, **Rajab MH**. The Prophet Guidance in Medicine Research Team (PGMRT). Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010 , Awaad A, **Rajab MH**. Cancer Epidemiology in Arab America. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010, Obeidat S, AlShammari A, AbuSaleh M, Nurhussen A, **Rajab MH**. Awareness of Breast Cancer Among the Educated Population in Riyadh, Saudi Arabia. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010, Obeidat M, Al-Sibae M, Alturkmani H, Shamia A, Anwer M, **Rajab MH**. Applying Personal assistant Services in the Kingdom of Saudi Arabia. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
- 2010, Chamsi AT, Shuqair A, Khani A, Alras A, Abbasi H, Ahmad N, Nazmi A, Al-Tuhaifi T and **Rajab MH**, Prevalence of Child Abuse in the Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February

- 9th **Shaukat Khanum** Memorial Cancer Symposium at Pearl Continental Hotel, during November 26-28, 2010 at Lahore, Pakistan, 2010, Invited lecture in Basic Sciences, Drug Metabolizing Enzyme Genotypes and Chemotherapeutic outcomes.
- **Abiola Catherine Senok**, 21st European Congress of Clinical Microbiology and Infectious Diseases and the 27th International Congress of Chemotherapy, Poster session, Sustaining hand-hygiene compliance following implementation of the World Health Organization Hand Hygiene Improvement Strategy in a tertiary hospital in Saudi Arabia
- **Abiola Catherine Senok**, 21st European Congress of Clinical Microbiology and Infectious Diseases and the 27th International Congress of Chemotherapy, Poster session, Reduction of healthcare-associated infections after implementation of bundle programs in a tertiary care teaching hospital in Saudi Arabia.
- **Khaled AlKattan**, 2nd International Thoracic Oncology Conference, Chairperson, Riyadh, Saudi Arabia, 03 – 04 November 2010.
- **Khaled Alkattan**, Paed and Adolescent Pulmonary Arterial Hypertension Workshop, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, 15 – 16 June 2010.
- **Khaled Alkattan**, 18th European Conference on General Thoracic Surgery, Valladolid, Spain, 31 May – 2 June 2010.
- **Khaled Alkattan**, 2nd Collaborative Symposium on General Thoracic Surgery ESTS-AATA-STs, Valladolid, Spain, 30 May 2010.
- **Khaled Alkattan**, 90th Annual Meeting of the American Association for Thoracic Surgeon, Metro Toronto Convention Centre, Toronto, ON, Canada, 03 – 05 May 2010. 21.5 CME hours.
- **Khaled Alkattan**, Post Graduate Course in General Thoracic Surgery for AATS, Toronto, Canada, 02 May 2010.
- **Khaled Alkattan**, Experimental Biology 2010, The Anaheim Convention Center, Anaheim, California, USA, 24 – 28 April 2010.

- **Khaled Alkattan**, 30th International Society for Heart and Lung Transplantation, Chicago, USA, 20 – 24 April 2010.
- **Khaled Alkattan**, Organizing Committee and Chairman Session, 1st Middle East Symposium on Diseases of the Esophagus, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, 09 – 10 March 2010. 19 CME hours.
- **Wael Al-Kattan**, Guest Speaker in the surgical ground, University of Toronto, April 2010.
- **Wael Al-Kattan**, Guest Speaker of the Annual General Surgery, King Saud University.
- **Wael Al-Kattan**, Guest speaker in the Professional Development program, Ministry of Higher Education for the Metabolic and Obesity health workers, June 2010.
- **Wael Al-Kattan**, External examiner for the general residency program at the University of Toronto, April 2010.
- **Wael Al-Kattan**, Examiner of the Saudi Board in the General Surgery for Saudi Commission, October 2010.
- **Wael Al-Kattan**, Establishing the 1st Saudi bariatric Surgery Center with a multi disciplinary center in Saudi, March 2010.
- **Wael Al-Kattan**, Visiting associate professor and consultant at Vancouver general hospital, British Columbia, July-August 2010.

9. Other Research and Scholarly work

- **Sheikh Yaesh**, PBL performance correlates strongly with the summative assessment”. Ahmed Yaqinuddin, Peter Kveitys, Faisal Ikram and Sheikh Yaesh. Abstract submitted for Arab Alliance conference-2001.
- **Sheikh Yaesh**, “Association of PBL activity and final test scores in a PBL-based curriculum”, 2010. Sheikh Yaesh and Nasir Ali Afsar. Data collected and analyzed. Manuscript in preparation.

- **Peter Kvietys**, submitted proposal to KACST “Role of T cells in LPS-induced lung inflammation and dysfunction” March, 2011.
- **Bibi Kulsoom**, Article submitted for publication at Journal of Epidemiology and Community Health, titled, “*Relationship of Lipid Profile, Smoking and Family History with First Myocardial Infarction in Nondiabetic Normotensive Males*”.
- **Dr. Bibi Kulsoom** ,PhD Scholar in Biochemistry, registered at Ziauddin University, Karachi, since 2009.
- **Dileep K. Rohra** , Determination of calcium absorption from intestine at various Vitamin D levels using strontium as the surrogate marker (grant proposal in preparation)
- **Dileep K. Rohra** , External evaluator of PhD thesis from student of Manipal University, India
- **Dileep K. Rohra** , Reviewer for Canadian Medical Association Journal
- **Dileep K. Rohra** , Faculty Advisor & Reviewer for Pakistan Medical Students’ Journal
- **Nasir Ali Afsar**, PhD Scholar in Pharmacology, registered at Ziauddin University, Karachi. The thesis was completed before joining Alfaisal University. It is currently under review prior to defence.
- **Nasir Ali Afsar** , Member, editorial board for “Vascular Cell”, an international, online, peer-reviewed indexed journal, based in UK.
- **Nasir Ali Afsar**, Reviewer for African Journal of Pharmacy and Pharmacological Research, included as part of International Research Journals Publishing House, Nigeria.
- **A. Senok**: Editorial activity: Senior Editor, Journal of Infection in Developing Countries

- **P.A. Hall:** Organizer and Chair, Cancer Genomics and Biology, USCAP 2011 San Antonio, 27th February 2011
- **P.A. Hall** , Co Organiser (with J Reis-Filho) and Lecturer at the 3rd Pathological Society Summer School on Molecular Pathology of Breast Cancer, Institute for Cancer Research , London, August 25th 26th 2010
- **P.A. Hall** , Editor in Chief, Journal of Pathology and on the editorial boards of British Journal of Cancer and Hematological Oncology as well as a Member of the General Committee, Pathological Society of Great Britain and Ireland
- **A.A. Khraibi:** Member of the Editorial Board: Journal of Biomedicine and Biotechnology. <http://www.hindawi.com/48184175.html>.
- **D.K. Rohra:** International evaluator of PhD thesis “Modeling of Predictors For Adverse Drug Reactions and Pharmaco-economic Impact In A Tertiary Care Hospital” at the University of Manipal, India.
- **B.H.J. Juurlink:** Two of his remaining Graduate Students at the University of Saskatchewan successfully defended their PhD dissertations
- Ali Banigesh, M.Sc. (Co-supervisor is Lily Wu) “Effect of sulforaphane on signalling pathways that lead to hypertension”, Department of Pharmacology. U of S., Canada. 2006-2011.
- Mike Kelly, M.D., FRCSC (Co-supervisor is D. Chapman,) “Biomedical applications of synchrotron imaging of the spine”, Department of Anatomy and Cell Biology, U of S. Canada. 2004-2010.
- **Abiola Catherine Senok**, Non-Typhoidal Salmonellosis, Book chapter: 5 minute Clinical Consult, Submitted.
- **Abiola Catherine Senok**, Round worms, Book chapter: 5 minute Clinical Consult, Submitted.
- **Abiola Catherine Senok**, MRSA: can colonization pressure be used to predict transmission in a low prevalence setting? In preparation.

- **Abiola Catherine Senok**, Implementation of the World Health Organization Hand Hygiene Improvement Strategy in a tertiary hospital in Saudi Arabia, Research article, In preparation.
- **Abiola Catherine Senok**, Reduction of healthcare-associated infections after implementation of bundle programs in a tertiary care teaching hospital in Saudi Arabia, Research article, In preparation.
- **Abiola Catherine Senok**, Extended spectrum beta lactamases in the Arabian Gulf Region, Review article, In preparation.
- **Solomon Senok** KACST Grant application submitted as PI (with Prof. Ronald De Meersman as Co-PI). Titled: *Investigating the use of auditory brainwave entrainment to alleviate the adverse effects of acute sleep deprivation in healthy young adults.*
- **Solomon Senok**, Project planned with a group of medical students (abstract submitted as part of student poster competition). Titled: *Can you improve your memory using red light?*
- **Solomon Senok**, In the process of setting up a human physiology lab at the college at the College of Medicine for teaching as well as research.
- **Solomon Senok**, Annual Meeting of the Physiological Society (UK), Oxford, Poster, Selective decline in slowly adapting type I mechanoreceptors during development in rat sinus hair follicles in vitro, July 4-11, 2011.

10. Research and Scholarship

- J Hom, **T Yu**, Y Yoon, G Porter, and SS Sheu. Regulation of mitochondrial fission by intracellular Ca²⁺ in rat ventricular myocytes. *Biochimica Biophysica Acta (BBA) - Bioenergetics*. 2010 1797:913-921, Research Articles, Peer-reviewed, 2010
- Y Yoon, CA. Galloway, BSook Jhun, and **T Yu**. Mitochondrial dynamics in diabetes. *Antioxidants & Redox Signaling*, 2011;14(3):439-57. Research Articles. Peer-reviewed, 2011

- **T Yu**, BS Jhun, Y Yoon. High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of Mitochondrial fission. *Antioxidants & Redox Signaling*, 2011;14(3):425-37. Research Articles. Peer-reviewed, 2011.
- **T Yu** and Y Yoon. High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of Mitochondrial fission. *Gordon Research Conference on Enzymes, Coenzymes, Metabolic Pathways*. July 18-23, 2010. Waterville, New Hampshire, USA. Abstract, reviewed by conference committee, 2010
- **T Yu** and Y Yoon. Control of Mitochondrial Biogenesis by Mitochondrial Dynamics. *22nd Enzyme Mechanisms Conference*. January 2-6, 2011. St. Pete Beach, Florida, USA. reviewed by conference committee, 2011
- **Peter Kvietys** “The Gastrointestinal Circulation”. San Rafael, CA, USA. Morgan & Claypool Publishers. *PMID 21452437*. E-book, 2010
- **Kvietys, PR**, Granger, DN. *Role of intestinal lymphatics in interstitial volume regulation and transmucosal water transport*. Ann. N Y Acad Sci. 1207(Suppl 1): E29 – 43. *PMID: 20961304*, Review, 2010
- 2011, Piziak V, **Rajab MH**. An Effective Team Approach to Improve Postoperative hip Fracture Care. *J Orthop Trauma*. 25(2):72–75.
- 2010, Piziak V, Morgan-Cox M, Tubbs J, **Rajab MH**. Elevated Body Mass Index in Texas Head Start Children: A Result of Heredity and Economics. *Southern Medical Journal(SMJ)*. 103(12):1219-1222, December.
- 2010, Mahajan A, Simoni J, Sheather S, Broglio KR, **Rajab MH**, and Wesson DE. Daily Oral Sodium Bicarbonate Preserves Glomerular Filtration Rate by Slowing its Decline in Early Hypertensive Nephropathy. *Kidney International*. 78 (3):303-9.

- 2010, Scott NG, Ripperger-Suhler J, **Rajab MH**, Kjar D. Factors Associated with Atomoxetine Efficacy for Treatment of Attention-Deficit/Hyperactivity Disorder in Children and Adolescents. *Journal of Child Adolescent Psychopharmacology*. 20(3): 197-203.
- 2010, Phisitkul S, Khanna A, Simoni J, Broglio KR, Sheather S, **Rajab MH**, Wesson DE. Amelioration of Metabolic Acidosis in Patients with Low GFR Reduced Kidney Endothelin Production and Kidney Injury, and Better Preserved GFR. *Kidney International*. 77(7):617-23.
- 2010, Elkins G, Cook T, Dove J, Markova D, Marcus JD, Meyer T, **Rajab MH**, Perfect M. Perceived Stress Among Nursing and Administration Staff Related to Accreditation. *Clinical Nursing Research*;19(4):376-86.
- 2010, Bahadur Y, Al Husaini H, **Rajab MH**, Jazieh A. Guidelines: The epidemiology of lung cancer in the Kingdom of Saudi Arabia. *Ann Thorac Med*, 5 (5): 5-7.
- 2010, Al-Jazairy S, **Rajab MH**, Juurlink B, and Al-Kattan K. Al-Faisal University College of Medicine Annual Report 2009-2010. June.
- 2010, **Rajab MH**, and Cowan M. H1N1 Flu Vaccine: Promising Initial Results for Pregnant Women. *Alfaisal University Magazine*. Jan, 1 (1): 13-14.
- **Ganguly, P.K.**, Ahmed, AS et al. Diabetes, Stroke and Hyperhomocysteinemia: the Missing Link in Horizons in Neuroscience Research, Volume 5 by Nova publishers, New York, USA, 2011
- Clark, T.A., Maddaford, T.G., Tappia, P., Heyliger, C., **Ganguly, P.K.**, Pierce, G. Restoration of cardiomyocyte function in streptozotocin-induced diabetic rats after treatment with vanadate in a tea decoction. *Current Pharmaceutical and Biotechnology*, **Volume 11, Number 8, December** , 906-910, 2010

- **Ganguly, P., Khraibi, A., Juurlink, B.** Medical education in cardiovascular sciences: accommodating a research-driven curriculum. *CV network* 9 (2): 15-17, 2010.
- Cowan, M., Arain, N.N., Assale, T.S.A, Assi, A.H., Albar, R.A., **Ganguly, P.K.** Student-centered integrated anatomy resource sessions at Alfaisal University. *Anatomical Sciences Education* 3:272-275, 2010
- **Ganguly P.K.** Neuropeptide Y level in hypothalamus of experimental diabetic rats: correlation with sympathetic activity and body weight. *International Journal of General Medicine*, 3: 321-325, 2010
- **Ganguly, P.K.** Teaching and learning of anatomy in the 21st century: direction and the strategies. *The Open Medical Education Journal*, 3: 5-10, 2010
- **Bibi Kulsoom**, Breast cancer pattern and chemotherapy response--an institutional study in Pakistan. *Afsar NA, Kulsoom B, Mateen A, Ahmed S, Tahseen M, Ahmed A. Asian Pac J Cancer Prev.* 2010;11(3):825-30, 2010, Original Article, Peer-reviewed, editorially reviewed
- **Nasir Ali Afsar**, Breast cancer pattern and chemotherapy response--an institutional study in Pakistan. *Afsar NA, Kulsoom B, Mateen A, Ahmed S, Tahseen M, Ahmed A. Asian Pac J Cancer Prev.* 2010;11(3):825-30, Original Article, Peer-reviewed, editorially reviewed, 2010.
- **Abiola Catherine Senok**, Trafficking of methicillin-resistant staphylococci and co-colonization with vancomycin-resistant enterococci., Published article, Peer reviewed, 2011.

11. Honors and awards

- **Paul Ganguly**, Life Member-International Academy of Cardiovascular Sciences
- **Paul Ganguly**, Students' appreciation-Correcting text book errors, 4 joint publications, summer research in Canada.

- **Nasir Ali Afsar** , Travel Grant for the Invited lecture in Basic Sciences Section at 9th Shaukat Khanum Memorial Cancer Symposium, November 26-28, 2010 at Lahore, Pakistan. The grant was partly covered by the organizing committee of the symposium.
- **Muhammed Al-Zoghaibi**, an adjunct faculty at Alfaisal University College of Medicine with the rank of Associate Professor of Physiology has been awarded the Custodian of the Two Holy Mosques Abdullah Bin Abdul Aziz International Award for Translation for his translation from English of “Physiology” textbook by Dr. Linda Costanzo.
- **Al Sebae M.**, a third year medical student, was invited to speak at the Young Investigators Symposium at the Experimental Biology Meeting. This is a great honor since only 13 other young investigators were asked to speak at this symposium.

12. Conference Presentation

1. **Ganguly P.** 2011. Diabetes and hyperhomocysteinemia-Invited speaker in *4th World International Conference of Academy of Cardiovascular Sciences*, Ahmedabad, India, February 1-6, 2011
2. **Juurlink B.H.J.** “Phytochemicals, anti-oxidant genes, MAP kinases and nutrigenomics”. Keynote Lecture at the BioCumbreMonterrey2010 conference in Monterrey, Mexico November 18, 2010.
3. Mazi W., D. Abdullah, G. Gasem, N. Helali, **A. Senok.** Reduction of healthcare-associated infections after implementation of bundle programs in a tertiary care teaching hospital in Saudi Arabia. To be presented at the 21st European Congress of Clinical Microbiology and 27th International Congress of Chemotherapy, 7-10 May, Milan Italy
4. Mazi W., **A. Senok**, D. Abdullah, S. Al Khaldy. Sustaining hand-hygiene compliance following implementation of the World Health Organization Hand Hygiene Improvement Strategy in a tertiary hospital in Saudi Arabia. To be

presented at the 21st European Congress of Clinical Microbiology and 27th International Congress of Chemotherapy, 7-10 May, Milan Italy

5. **Senok S.** Determinants of spike frequency adaptation in vibrissal types I and II slowly adapting mechanoreceptors. Physiological Society, UK, July 11-14.
6. **Yu T.** and Y. Yoon. Control of Mitochondrial Biogenesis by Mitochondrial Dynamics. 22nd Enzyme Mechanisms Conference. January 2-6, 2011. St. Pete Beach, Florida, USA.
10. **Yu T.** and Y. Yoon. High glucose increase reactive oxygen species production through the calcium and MAP kinase-mediated activation of Mitochondrial fission. Gordon Research Conference on Enzymes, Coenzymes, Metabolic Pathways. July 18-23, 2010. Waterville, New Hampshire, USA.

13. Research Proposals

Submitted

1. **S. Senok and R. De Meersman.** Investigating the Use of Auditory Brainwave Entrainment to Alleviate the Effects of Acute Sleep Deprivation in Young Adults. KACST
2. **Ali Amin Khraibi (PI), Tianzheng Yu, and Bernhard H.J. Juurlink.** Role of Relaxin and Nitric Oxide (NO) in Renal Adaptations During Pregnancy. KACST
3. **M. Al-Zoghaibi, A.A. Khraibi, T. Yu, and B.H.J. Juurlink.** Role of relaxin, IL-1 α and TNF- α cytokine expression and activation of Na⁺-K⁺-ATPase and NHE-3 transporters. KACST
4. **P. Kvietys** and A. Hawwari. Role of T cells in LPS-induced lung inflammation and dysfunction. KACST
5. H. Abad, R. Ahmed, E. Alsharaeh, I. Ilyas, S. Azhar, A. Almajid, **B.H.J. Juurlink** and M. Goosen. Surface modification of titanium & titanium alloys

for enhanced bone growth & tissue adhesion in orthopedic & dental applications. KACST

14. Proposals Approved (*Not yet funded*)

1. **Paul Ganguly**, Grant N. Pierce and Bram Ramjiwan. Joint Grant application (Alfaisal University and St. Boniface Hospital and Research Centre) KACST, 1.8 million SR.
2. **T Yu (PI), A. Khraibi, B. Juurlink**. KACST –The Long-Term Comprehensive National Plan for Science, Technology and Innovation. Mitochondrial Dynamics in Diabetic Nephropathy, KACST, 1,966,400 SR.
3. **A. Yaquinnuddin**. KACST - The Long-Term Comprehensive National Plan for Science, Technology and Innovation. Identification of Novel diagnostic and prognostic markers for bladder cancer through whole genome methylation profiling, KACST SR 1.3 million.
4. **A. Yaquinnuddin**. KACST - The Long-Term Comprehensive National Plan for Science, Technology and Innovation. Using Micro-RNAs as Biomarkers for Diagnosing Prostate Cancers SR 1.6 million. (
5. **Bernhard H.J. Juurlink and Ali A. Khraibi**. Phase 2 Protein Induction, Sirt1 and Gluconeogenesis. KACST, Budget: SAR 1,088,525.
6. **Ali A. Khraibi**, Wesam Kurdi and **Bernhard H.J. Juurlink**. Renal and Cardiovascular Adaptations to Hypertensive Pregnancy. KACST, Budget: SAR 2,166,000.
7. **Tianzheng Yu(PI), Ali Amin Khraibi, Mohammed Alzoghaibi**, and Li Wang. Mitochondrial Fission and Pancreatic β -Cell Apoptosis in Type 2 Diabetes. KACST.

15. Student's Research and Presentations

1. **Ahmed Adi** presented “Role of CNS IRS2 signaling in mediating the chronic effects of leptin on glucose regulation” at the XVII International Symposium

on Drugs Affecting Lipid Metabolism (DALM) held at Doha, Qatar, March 14-16, 2011. His abstract was chosen as one of the top 5 submitted.

2. **Al Sebae M.**, L. Xiang, E.K. Jones, and R.L. Hester. 2011. Exercise training improves insulin resistance and the functional vasodilatation in non-exercising muscle in obese Zucker rats. To be presented at the Experimental Biology Meeting, Washington, DC, April 9-13.
3. **Alshammari, A. A. Nurhussien, M. Abou Saleh and S. Obeidat (S. AlJazairy and M.H. Rajab.** Effectiveness of an innovative community-based breast cancer awareness workshop presented at the Leiden International Medical Student Conference, March 26, 2011. Their abstract was recognized as one of the top 15 out of the total of 750 abstracts submitted. *(S. Al Jazairy and M.H. Rajab were also involved in this study)*
4. 2011 , **AlShammari A, Abrar Al-Dahlawi A, Nurhussen A , Al-Jazairy S, Obeidat S, Rajab MH.** Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. Accepted for presentation at the International Medical Students conference, March 18-22, Leiden. (Awarded among Top 15 best abstracts).
5. 2011, **AlShammari A, Obeidat S, Nurhussen A, Abu Saleh M, Al-Dahlawi A, Al-Jazairy S, Erfan N and Rajab MH.** Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. *Medical Science Educator*, Vol. 21(1S) 131.
6. 2010, **Chamsi AT, Shuqair A, Khani A, Alras A, Abbasi H, Ahmad N, Nazmi A, Al-Tuhaifi T** and Rajab MH, Prevalence of Child Abuse in the Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February
7. 2010, **Al-Sibae ME, Alturkmani HJ, Obeidat M, Shamia A, Alkukhun A, Anwer M, Shareef M** and Rajab MH. Applying Personal Assistant Services in the Kingdom of Saudi Arabia. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.

8. 2010, **Awaad A**, Rajab MH. Cancer Epidemiology in Arab America. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
9. 2010, **Obeidat S, AlShammari A, AbuSaleh M, Nurhussan A**, Rajab MH. Awareness of Breast Cancer among the Educated Population in Riyadh, Saudi Arabia. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
10. 2010, **Obeidat M, Al-Sibae M, Alturkmani H, Shamia A, Anwer M**, Rajab MH. Applying Personal assistant Services in the Kingdom of Saudi Arabia. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
11. 2010, **Inayah AT, AlAmoudi A, Abu-Zaid AM, Awad A, AlMakadma B, Anindo M**, Rajab MH. Awareness about Alzheimer's Disease in the Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
12. 2010, **Inayah AT, Awad A, AlAmoudi A, Abu-Zaid AM, Anindo I**, and Rajab MH. Alzheimer's Disease Awareness in Riyadh Community. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
13. 2010, **Nassan M, Anwer M, Abouammoh M, Alshenawy W**, and Rajab MH. Impact of Marital Status on Academic Performance of Medical Students. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
14. 2010, **Adi A, Nassan M, Awaad A, Al-Yafi N** and Rajab MH. Prevalence of Obesity in Renal Dysfunction (RD) Adults Residing in Riyadh Community. Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*

15. 2010 , **Al Mahmoud AF, Abuzaid A, Abbrar M, Nurhussen A, Al-Amoudi A**, Rajab MH. Impact of early Islamic Era on Medical Accountability. . Alfaisal University, College of Medicine. *Presented at the First Research Day-Student Poster Competition. April.*
16. 2010, **AlShammari A, Abrar Al-Dahlawi A, Nurhussen A , Al-Jazairy S, Obeidat S, Abu Saleh, Hesham M, Al Khashan A**, and Rajab MH. Effectiveness of an Innovative Community-Based Breast Cancer Awareness Workshop. Alfaisal University, College of Medicine. April.
17. 2010, **Aman Inaya, Abu-Zaid A, Al-Jazairy S**, and Rajab MH. Caring For Alzheimer's Disease Patient: Providing The Best Care While Maintaining Own Well-Being Workshop. Planning stages. Alfaisal University, College of Medicine.
18. 2010, **AlKhani A, Al-Shammari A, Nazmi S, Abusaleh M**, Rajab MH, Al-Kattan W and Ganguly P. Assessment System at the College of Medicine, Alfaisal University. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
19. 2010, **Adi AH, Nassan MK, Khusheim MS, Awaad AY, Al-Hamdani A, Al-Yafi MN** and Rajab MH. Prevalence of Obesity in Renal Dysfunction (RD) Adults Residing in Riyadh Community. 7th GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.
20. 2010, **AlShammari A**, Rajab MH. Effectiveness of an Innovative Community-Based Lung Cancer Awareness Workshop. *Presented at the 5th Second International Thoracic Oncology.* November 4. Alfaisaliah Hotel, Riyadh.
21. 2010, **Obeidat S, AlShammari A, AlMahmoud A, Mathbout M, Abu Saleh M, Nurhussen A, Alkurdi Y, AlMasoud W** and Rajab MH. Prevalence of Breast Cancer in the Dariya Region of Riyadh, Saudi Arabia. 7th

GCC Medical Students Conference, King Abdul Aziz University, Jeddah, KSA, 13-16 February.

22. Cowan, M.M., Hamweyah, K.M., Sabbagh, MD, Swaid, A., **Alkattan, A.K.**, Ganguly, P.K. Persistent bilateral sciatic arteries: a rare finding of clinical importance. *International Journal of Angiology*, 19:e43-e44, 2010

16. Other

1. Allen C, Song J, **Rajab MH**, Spiekerman M, Wilson D, Bryant W. Correlation of Fasting and Oral Glucose Tolerance Test-Based Surrogate Measures of Insulin Sensitivity in an Obese Pediatric Population. *Journal of Clinical Endocrinology and Metabolism. In preparation*, 2011.
2. Chavez A, Coffield S, **Rajab, MH**. Incidence of Prostate cancer in men treated with Phosphodiesterase type 5 inhibitors. *BJU international*. Submitted, 2011.
3. **Shoukat Ali Arain**, “Pattern of histological findings in chronic hepatitis C with alanine transaminase levels below twice the normal value” is published in Feb 2011 (JPMA 61:264; 2011)
4. **Dileep K. Rohra**, Representation of less-developed countries in Pharmacology journals: an online survey of corresponding authors, Original article, Peer-reviewed,
5. **Dileep K. Rohra**, Let us start to develop our own international journals, Invited Editorial, Reviewed by board of editors
6. **Dileep K. Rohra** , Quantitative and qualitative analysis of Pubmed-indexed biomedical publications in Oman from years 2005-2009, Original article, Peer-reviewed
7. **Dileep K. Rohra** , Obstetric outcome of teenage pregnancies in three tertiary care hospitals of Pakistan, Original article, Peer-reviewed

8. **Khaled Alkattan**, Internal External Science, Kuwait University, 20 June 2010.

Other Activities

- **Paul Ganguly**, Setting up examination (MCQ, SAQ, OSPE and OSCE)-100 hours
- **Paul Ganguly**, Invigilations-20 hours
- **Paul Ganguly**, Markings (Semesters 1 and 3 plus 2)-100 hours
- **Paul Ganguly**, Students' educational development at the office
- **Paul Ganguly**, Resource sessions-100 hours
- **Paul Ganguly**, Assessment-50 hours
- **Paul Ganguly**, Curriculum development-100 hours
- **Paul Ganguly**, coordinator Research Colloquium, Alfaisal University
- **Paul Ganguly**, coordinator Student exchange program (summer research) with St. Boniface Hospital Research Centre, Canada
- **Paul Ganguly**, coordinator Dissection Hall Activities-100 hours
- **Dr. Moni Nader**, approved research project at KFSHRC (#2100026).
- **Dr. Moni Nader**, approved Adjunct Scientist position at KFSHRC.
- **Dr. Moni Nader**, Approved MSc project at the Lebanese University, Lebanon.
- **Dr. Moni Nader**, Director of the College of Medicine Biomedical Research Seminar Series (CoM-BRSS)
- **Dr. Moni Nader**, In charge of setting up the Research Laboratories at the College of Medicine
- **Dr. Moni Nader**, Member of the American Physiological Society.

VI Facilities

1. Laboratories

A. Teaching in the Anatomy Lab

Integrated resource sessions for anatomy lab were continued as part of the College of Medicine integrated course at Alfaisal University in the academic year 2010-2011. The dry (imaging, histology, surface anatomy, osteology, plastinated specimens, embryology, anatomical models and self-directed learning questions) and wet (cadaveric, prosection examination and dissection) laboratories occurred simultaneously, twice per week in 2-hour sessions. In the wet laboratory, about 10 students initially met in an initial tutorial session with the instructor to review and dissect the laboratory material related to the theme of the integrated course for about 1 hour per week. These 10 students then met with the rest of the students (approximately 90 in number) in small groups for 15-30 minutes to tutor and review the material in the laboratory. In the dry laboratory, students were given diagrams, self-directed questions, anatomical models, plastinated specimens, histological slides, radiological pictures and videos to review in small groups. An instructor is initially present to provide objectives and organization and then the remainder of the time is spent as student-centered tutorials. Figure 1 shows the organization of these structured laboratory sessions. In order to understand the efficacy of our system, a structured questionnaire was given to first year students to assess their perception of the effect of the integrated resource sessions (IRS) in their outcome of their knowledge, skill and attitude in the musculoskeletal and cardiovascular blocks. We use on line MOODLE (modular object-oriented dynamic learning environment) for these questionnaire and the answers were anonymous and on voluntary basis. The questionnaire survey indicates that the first-year students experienced an increase in knowledge and comfort in self-directed learning and point to positive changes in the perceptions of behavior towards this peer-teaching environment. Forty students were given a structured questionnaire in the musculoskeletal block that was based on knowledge, skill and attitude. The majority of students felt that the student-centered approach to learning was valuable to enhance the above criteria for medical education.

B. Research in the Anatomy Lab

The Alfaisal College of Medicine, less than three years old, follows a problem-based, self-directed curriculum, in which anatomy is taught using a wide range of state-of-the-art modalities. The curriculum also allows the students to appreciate the recent trends in medical research and abnormal findings. A student-centered dissection of cadavers allows one to strengthen critical thinking and problem solving while mastering the dissection skill. For example, when the students dissect a body to explore the structures around the hip joint under the direct supervision of the faculties, they are regularly challenged by the secondary questions dealing with a) function of the structures b) embryological origin c) clinical importance. The students are encouraged to find out the problem associated with the structures including the vasculature around the hip joint. In addition, on a routine dissection the students found abnormal structures such as the presence of bilateral persistent sciatic artery in both thighs of a female body and provided evidence that this artery runs along with the sciatic nerve supplying the back of the thigh and finally joins the popliteal artery near the knee. The profunda femoral artery was completely absent bilaterally. The observation strengthens the view that sciatic artery plays a major role in providing blood supply to the lower limb in utero and its existence after birth may have significant educational as well clinical importance. Thus the cadaveric dissection was interesting as it allows the student to think the secondary questions around the existence of sciatic artery and opens up research opportunity. On a routine dissection, the students also found abdominal aneurysm, collateral anastomosis due to extensive venous thrombosis and absence of a structure such as kidney or presence of double inferior vena cava. The faculties of College of Medicine encourage students to publish these abnormal structures relevant to medical literature.

2. Common Research Laboratory Facility

In early 2009 we started to develop a common research lab for the faculty at Alfaisal University. A number of pieces of equipment were purchased and then we were informed that there were no monies available for research. Recently we were informed that a budget was developed for research at Alfaisal University. Room S3-59 has been identified as the research

space. Permission was finally obtained to move equipment that had been in storage for the past 3 years into S3-59. We are in the final stages of obtaining quotations for equipment that will turn S3-59 into a functioning cellular and molecular biology research laboratory accessible to Alfaisal faculty and students.

VII Collaborations

1. PHMI

Partners Harvard Medical International (PHMI) www.phmi.partners.org a subsidiary of **Harvard Medical School** has collaborated with Alfaisal on the development of the curriculum, design of the facilities, organization of the administrative structure and development of the faculty. The continuous communication between the COM and PHMI has provided the support and implementations needed in the direction of success.

Our affiliation with PHMI has contributed to our curriculum, faculty development and student evaluation. We have worked closely to ensure high standards to best serve our college. PHMI faculty members visit us on a bi-annual basis to conduct two faculty development courses that are given to our potential adjunct faculty from our affiliated hospital King Faisal Specialist Hospital and Research Center. The courses vary in duration from (3-5) days. Upon completion from the workshops PHMI contributes to the credentialing committee that decides faculty appointment rankings.

Throughout the year PHMI faculty members formulated continuous conference calls in order to maintain communication and updates to our curriculum progress and to students' advancements. In addition, they constructed meetings where they physically assess our system and hear our student's feedback last meeting they visited us in November 2009.

2. KFSH&RC

We Have a partnership with King Faisal Specialist Hospital & Research Centre www.kfshrc.edu.sa, a tertiary care hospital that is highly respected worldwide. This partnership

will involve recruitment of faculty members and will provide opportunities for student training and internships.

Alfaisal has incorporated a couple of workshops on Medical Education directed by PHMI representatives and local faculty catering to King Faisal Specialist Hospital & Research Center clinicians and executive members seeking to join our team as part-time faculty.

The collaboration between KFSH&RC and the COM consists of various terms from such as, granting clinicians from the hospital academic appointments and teaching privileges at the College of Medicine. In advanced stages, the hospital provides our students with the in hospital training and bedside teachings. In addition the hospital has provided several classrooms dedicated for the COM that will be utilized during the later stages of teaching which require the students to conduct PBLs at the hospital. The COM faculty will also benefit from the research center resources and facilities in order to conduct their research as a joint staff appointment at the Research Center.

3. Security Forces Hospital

College of Medicine has drafted an agreement with Security Forces Hospital www.sfh.med.sa in 2007. S.F.H is one of the leading Health Care Providers in the Kingdom of Saudi Arabia that provides high quality and safe primary, secondary and applicable tertiary health care services through effective leadership, effective utilization of resources, strong teamwork and continuous education supported by advanced health and information technologies. Alfaisal and S.F.H have been engaged in discussions with respect to S.F.H becoming one of the affiliated hospitals of Alfaisal's College of Medicine and, in connection therewith, to develop an academic concept and plan for the College of Medicine and the respective contributions of for both to the College. Alfaisal and S.F.H wish to establish a framework within which both will continue their dialogue with a view to negotiating and entering into a binding Joint Development and Support Agreement. The college is working on activating the in 2012.

4. RAND

RAND and Alfaisal College of Medicine had formed an agreement to perform and cooperate research and development activities that will enhance health research programming, capacity, and recognition for the Alfaisal College of Medicine while at the same time furthering the intellectual interests of RAND Health. RAND Health and Alfaisal College of Medicine agree that they would like to collaborate with each other in developing a working relationship across various areas of health research and development. This agreement will provide insights, support, and a dedicated partner in building a high-quality health services research program to address a broad spectrum of health policy challenges facing the Kingdom of Saudi Arabia and the broader of Middle East region. Such a partnership will serve the missions of both Alfaisal College of Medicine and RAND Health.

RAND Health and Alfaisal University College of Medicine agreement was signed at RAND Head Office in Santa Monica, CA on November 2nd 2009 by Alfaisal University, College of Medicine, represented by Dr. Khaled Alkattan Dean College of Medicine, Acting Vice President for Advancement and RAND Corporation, represented by Michael Rich, Executive Vice President. The purpose of this agreement is to perform and cooperate research and development activities that will enhance health research programming, capacity, and recognition for Alfaisal College of Medicine while at the same time furthering the intellectual interests of RAND Health. RAND Health and Alfaisal College of Medicine agree that they would like to collaborate with each other in developing a working relationship across various areas of health research and development. This agreement will provide insights, support, and a dedicated partner in building a high-quality health services research program to address a broad spectrum of health policy challenges facing the Kingdom of Saudi Arabia and the broader of Middle East region. Such a partnership will serve the missions of both Alfaisal College of Medicine and RAND Health.

5. Adolescence Society

Establish the first Saudi Adolescence Society in Riyadh, similar to all adolescence societies around the world for the benefit of the society in collaboration with KFSH&RC.

6. Queen Marry Agreement

The College of Medicine and Queen Marry drafted an MOU to pave the way for (Biomedical Science program) from QM to continue the MBBS program at Alfaisal. With an aim to achieve this objective, twenty qualified Biomedical Science degree students with a minimum 2.2 degree will be joining Queen Mary. The number of guaranteed places to the Alfaisal MBBS will vary from year to year, but will not fall below ten.

7. Drafted Agreements

An agreement was drafted aiming at having an affiliation between Alfaisal University COM and other hospitals such as King Saud Medical Complex, Prince Salman Hospital and King Fahad Medical City.

VIII Proposed Graduate Programs

1. A proposal for Alfaisal/KFSH&RC Master's & Doctoral Programs in Biomedical Sciences (*approved by UQU that it meets the requirements for graduate programs in Saudi Arabia as outlined by the Council for Higher Education, and in final stages of MOHE approval*).

These are joint graduate programs between College of Medicine, College of Science and General Studies, and College of Engineering, in collaboration with KFSHRC.

2. A proposal for a Master of Science Degree Program in Genetic Counseling in collaboration with KFSHRC (*approved by UQU that it meets the requirements for graduate programs in Saudi Arabia as outlined by the Council for Higher Education*)

Genetic Counseling Program is a program designed to train interested individuals to become a genetic counselor. This program will prepare graduate students for employment in the Kingdom to be highly qualified as genetic counselors. The program is designed to meet the current and future needs of the health care system and provide didactic instruction in molecular genetics, cytogenetic, biochemical genetics, counseling theory and other related clinical subjects pertaining to genetic counseling.

3. A proposal for a Master of Science Degree Program in Radiological and Imaging Sciences in collaboration with KFSHRC (*reviewed by UQU and currently being revised*)