

Research Report, 2000-2004

**Faculty of Health Sciences
American University of Beirut**

April 18, 2005

Note: Year refers to the academic year from July 1 to June 30. All amounts are expressed in U.S. dollars.

TABLE OF CONTENTS

Executive Summary	4
Table 1: Funding Sources, 2000-2004	4
Table 2: Summary of Publications, 2000-2004	4
Introduction	5
Research Funds and Grants	6
Table 3: Faculty Research Grants, 2000-2004	6
Publications	6
Table 4.a.: Summary of Publications, 2000-2004	7
Table 4.b.: Summary of Conferences/ Presentations/ Others, 2000-2004	7
Table 4.c.: Summary of Publications in Journals, 2000-2004	7
Table 5.a.: Number of Publications by Department, 2003-2004	8
Table 5.b.: Summary of Conferences/ Presentations/ Others, 2003-2004	8
Table 5.c.: Summary of Publications in Journals by Department, 2003-2004	8
Table 6.a.: Number of Publications by Department, 2002-2003	9
Table 6.b.: Summary of Conferences/ Presentations/ Others, 2002-2003	9
Table 6.c.: Summary of Publications in Journals by Department, 2002-2003	9
Table 7.a.: Number of Publications by Department, 2001-2002	10
Table 7.b.: Summary of Conferences/ Presentations/ Others, 2001-2002	10
Table 7.c.: Summary of Publications in Journals by Department, 2001-2002	10
Table 8.a.: Number of Publications by Department, 2000-2001	11
Table 8.b.: Summary of Conferences/ Presentations/ Others, 2000-2001	11
Table 8.c.: Summary of Publications in Journals by Department, 2000-2001	11
Table 9: Distributions of Publications with Co-authorship Outside FHS and Inside FHS	12
Table 10: Distribution of Publications with Co-authorship Outside FHS	12

Appendices	13
Appendix A: Journal Quality	13
Appendix B: URB Guidelines and Evaluation Forms	17
Appendix C: Sponsored Research Grants 2003-2004	21
Appendix D: Sponsored Research Grants 2002-2003	23
Appendix E: Sponsored Research Grants 2001-2002	25
Appendix F: Sponsored Research Grants 2000-2001	27

EXECUTIVE SUMMARY

Between the academic years 2000-2001 to 2003-2004, the Faculty of Health Sciences has obtained 94% of its sponsored research grants from international and regional sources (Table 1). Over the four academic years, the percentage of the total amount of funding has increased by 17% for international and regional organizations. The percentage of the total funding for local agencies has decreased by 15% between the years 2000-2001 and 2003-2004. Concerning the University Research Board funding, after beginning with a share of 2.2%, it decreased by half in the following three years and remained comparatively stable thereafter.

Table 1: Summary of Funding by Source, 2000-2004

Funding Source	Amount (US Dollars)
International/Regional	8,186,654
Local agencies	441,664
URB	94,149

The research output of the Faculty of Health Sciences during the academic years 2000-2001 to 2003-2004 is itemized in Table 2. Between the four academic years, publications in refereed journals has increased by 114.8%, and the percentage of refereed journal articles as proportion of the total number of publications has risen by 26%. Oral and poster presentations have increased by 155% during the same time frame, while other publications, such as graduate theses, have increased by 267%.

Table 2: Summary of Publications, 2000-2004

Type of Publication	Number
Refereed journal publications	181
Non refereed journal publications	1
Books	5
Edited books	2
Research reports	24
Oral or poster presentations	140
Others (e.g. graduate theses)	30

With respect to co-operative faculty research activities, between the academic years 2000-2001 and 2003-2004, co-authorship within one department at FHS has increased by 19.7%, co-authorship across the five departments has increased by 11.6% and co-authorship with outside institutions has decreased by 40.9%. The proportion of publications with FHS faculty as lead author has increased by 19.1%.

INTRODUCTION

The Faculty of Health Sciences (FHS) Research Committee (RC) is pleased to present the second Research Report for FHS, covering the past four academic years, 2000-2001 to 2003-2004. This is a regular report published by the RC on an annual basis. The report contains numeric data on FHS research activities and outputs, with a focus on sponsored research and journal publications. The data may be used to monitor progress towards achieving the research objectives listed below:

1. Increase the quality and quantity of research publications
2. Sustain collaborative and interdisciplinary research
3. Sustain regional scholarship
4. Maintain the amount of sponsored research

Currently, FHS consists of five departments: Environmental Health, Epidemiology and Population Health, Health Behavior and Education, Health Management and Policy, and Medical Laboratory Technology. The report includes measurable outcomes on the research objectives for FHS as a whole and by department. With respect to research output, the quantity and type, but not the quality, of publications are provided. Owing to the diverse nature of its disciplines, FHS does not have its own system by which the quality of journals is assessed. A partial list of the journals in which FHS faculty have published during the past three academic years is included as Appendix A. Appendix A also includes the most recent Impact Factor, ranking of journals within the disciplines as defined by the Institute for Scientific Information (ISI), and a provisional ranking of journals.

During the past year, FHS RC prepared written procedures for University Research Board (URB) proposal evaluations and launched its own website. A copy of the RC guidelines for evaluating URB proposals and the evaluation form is included in Appendix B.

The RC would like to acknowledge the contributions of Mrs. Ruba Ismail-Hamadeh, Mr. Khalil Asmar and Ms. Ghada Saad in preparing this report.

Research Committee, 2003-2004

Marwan Khawaja, *Chairperson*

Rima Habib

Robin Heath

Mirou Jana

Mona Kanaan

Hala Tamim

RESEARCH GRANTS

The FHS has been successful in forming multi-investigator, multi-disciplinary research teams that attracted substantial extramural funding. The overall amount of funds increased from 1.0 million to 2.5 million between the academic years 2000-2001 and 2002-2004. A summary of the amount of funds per year is displayed in Table 3. Appendices C, D, E and F show an itemized list by year of faculty research grants.

Table 3: Faculty Research Grants, 2000-2004

Source	2000-2001		2001-2002		2002-2003		2003-2004	
	Amount	%	Amount	%	Amount	%	Amount	%
Sponsored Research								
International Agencies	911,750	80.8	2,446,651	92.6	2,312,072	97.7	2,516,181	97.3
Local Agencies	191,730	17.0	175,662	6.6	28,626	1.2	45,646	1.8
URB	24,400	2.2	20,000	0.8	25,249	1.1	24,500	0.9
Total	1,127,880	100.0	2,642,313	100.0	2,365,947	100.0	2,586,327	100.0

PUBLICATIONS

Table 4 shows a detailed distribution of the number of different publications, as well as dissemination of research output in conferences, by academic year whereas Tables 5 through 8 show a distribution by year and department within FHS. The total number of publications of all types increased by almost 92% between the academic years 2000-2001 and 2003-2004. The items published in refereed journals increased by 115% over the four academic years. Presentations of research findings at international conferences increased by 155% over the same period. These figures reflect clear increases in both research activity and productivity. Productivity of a full-time faculty member (FTE-research) increased significantly on average from 1.1 articles in 2000-2001 to 2.1 articles in 2003-2004.

Table 4.a: Summary of Publications, 2000-2004

Publication Type	2003-2004	2002-2003	2001-2002	2000-2001
Publications in refereed journals	58	59	37	27
Publications in non-refereed journals	0	0	0	1
Book	1	1	2	1
Edited book	0	0	2	0
Book chapter	4	8	4	2
Research reports (published)	5	8	3	8
Total	68	76	48	39

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 4.b: Summary of Conferences/ Presentations/ Others, 2000-2004

Publications from Conferences/ Presentations/Others	2003-2004	2002-2003	2001-2002	2000-2001
Oral presentations/ conference papers/ posters	51	38	31	20
Others: graduate thesis/projects	11	13	3	3
Total	62	51	34	23

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 4.c: Summary of Publications in Journals, 2000-2004

Publications in Journals	2003-2004	2002-2003	2001-2002	2000-2001
Articles	47	54	34	22
Letter/book review/brief report	11	5	3	6
Total	58	59	37	28
Total FTE (research)*	22.50	21.00	19.00	19.25
Article per FTE (research)	2.1	2.6	1.8	1.1

* Refers to 'research active' faculty which includes all full time faculty of professorial rank, as well as those lecturers and instructors who are involved in research programs and projects.

Table 5.a: Number of Publications by Department, 2003-2004

Publication Type	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Publications in refereed Journals	7	38	9	3	2
Publications in non-refereed journals	0	0	0	0	0
Book	0	1	0	0	0
Edited book	0	0	0	0	0
Book chapter	0	4	0	0	0
Reports (published)	0	4	0	1	0
Total	7	47	9	4	2

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 5.b: Summary of Conferences/ Presentations/ Others, 2003-2004

Publications from Conferences/ Presentations/Others	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Oral presentations/ conference papers/ posters/abstracts	3	27	13	5	3
Others: graduate thesis/projects	3	7	0	0	0
Total	6	34	13	5	3

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 5.c: Number of Publications in Journals by Department, 2003-2004

Publications in Journals	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Articles	7	29	7	3	2
Letter/book review/brief report	0	9	2	0	0
Total	7	38	9	3	2
Total FTE (research)*	5.00	8.00	5.50	2.00	2.00
Article per FTE (research)	1.4	3.6	1.3	1.5	1.0

* Refers to 'research active' faculty which includes all full time faculty of professorial rank, as well as those lecturers and instructors who are involved in research programs and projects.

Table 6.a: Number of Publications by Department, 2002-2003

Publication Type	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Publications in refereed Journals	16	37	6	3	3
Publications in non-refereed journals	0	0	0	0	0
Book	0	0	1	0	0
Edited book	0	0	0	0	0
Book chapter	1	7	0	0	0
Reports (published)	0	6	0	2	0
Total	17	50	7	5	3

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments hence the larger numbers (the totals are the numbers of every type of publication).

Table 6.b: Summary of Conferences/ Presentations/ Others, 2002-2003

Publications from Conferences/ Presentations/Others	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Oral presentations/ conference papers/ posters/abstracts	8	16	14	0	0
Others: graduate thesis/projects	2	9	2	0	0
Total	10	25	16	0	0

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments hence the larger numbers (the totals are the numbers of every type of publication).

Table 6.c: Number of Publications in Journals by Department, 2002-2003

Publications in Journals	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Articles	16	33	6	2	3
Letter /book review/brief report	0	4	0	1	0
Total	16	37	6	3	3
Total FTE (research)*	4.00	8.50	4.50	2.00	2.00
Article per FTE (research)	4.0	3.9	1.3	1.0	1.5

* Refers to 'research active' faculty which includes all full time faculty of professorial rank, as well as those lecturers and instructors who are involved in research programs and projects.

Table 7.a: Number of Publications by Department, 2001-2002

Publication Type	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Publications in refereed journals	18	16	7	3	6
Publications in non-refereed journals	0	0	0	0	0
Book	0	2	0	0	0
Edited book	0	2	0	0	0
Book chapter	1	3	0	0	0
Reports (published)	3	0	0	0	0
Total	22	23	7	3	6

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 7.b: Summary of Conferences/ Presentations/ Others, 2001-2002

Publications from Conferences/ Presentations/Others	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Oral presentations/ conference papers/ posters/abstracts	4	14	12	0	1
Others: graduate thesis/projects	0	2	1	0	0
Total	4	16	13	0	1

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 7.c: Number of Publications in Journals by Department, 2001-2002

Publications in Journals	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Articles	17	15	6	3	5
Letter / book review/ brief report	1	1	1	0	1
Total	18	16	7	3	6
Total FTE (research)*	6.00	6.50	3.50	1.00	2.00
Article per FTE (research)	2.8	2.3	1.7	3.0	2.5

* Refers to 'research active' faculty which includes all full time faculty of professorial rank, as well as those lecturers and instructors who are involved in research programs and projects.

Table 8.a: Number of Publications by Department, 2000-2001

Publication Type	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Publications in refereed Journals	9	14	2	3	0
Publications in non-refereed journals	0	0	0	1	0
Book	0	1	0	0	0
Edited book	0	0	0	0	0
Book chapter	1	1	0	0	0
Reports (published)	5	1	1	1	0
Total	15	17	3	5	0

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 8.b: Summary of Conferences/ Presentations/ Others, 2000-2001

Publications from Conferences/ Presentations/Others	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Oral presentations/ conference papers/ posters/abstracts	7	6	5	2	0
Others: graduate thesis/projects	0	3	0	0	0
Total	7	9	5	2	0

Note: Duplicate articles might be published by authors from different departments within FHS and were added in all corresponding departments, hence the larger numbers (the totals are the numbers of every type of publication).

Table 8.c: Number of Publications in Journals by Department, 2000-2001

Publications in Journals	Environmental Health	Epidemiology & Population Health	Health Behavior & Education	Health Management & Policy	Medical Laboratory Technology
Articles	9	9	2	3	0
Letter/book review/brief report	0	5	0	1	0
Total	9	14	2	4	0
Total FTE (research)*	6.00	7.00	3.25	2.00	1.00
Article per FTE (research)	1.5	1.3	0.6	1.5	0.0

* Refers to 'research active' faculty which includes all full time faculty of professorial rank, as well as those lecturers and instructors who are involved in research programs and projects.

Tables 9 and 10 describe the range of interdisciplinary and collaborative research produced by FHS as evidenced by co-authorship between FHS departments and with outside institutions from the academic years 2000-2001 to 2003-2004. Out of the total journal publications, the proportion of publications co-authored (1) within one department at FHS has increased from 14.8% to 34.5%, (2) across the five departments has increased from 7.4% to 19.0%, and (3) with outside institutions has decreased from 92.6% to 51.7%. The proportion of publications with FHS faculty as lead author has increased from 46.4% to 65.5%.

Table 9: Distribution of Journal Publications by Co-authorship

Academic Year	% Co-Authorship within one department at FHS	% Co-Authorship across departments within FHS	% Co-Authorship outside FHS	% Lead Author from FHS
2003-2004	34.5	19.0	63.8	65.5
2002-2003	18.2	12.7	74.5	62.7
2001-2002	8.6	31.4	82.9	56.8
2000-2001	14.8	7.4	92.6	46.4

Table 10: Distribution of Journal Publications with Co-authorship from Outside FHS

Academic Year	% Co-authorship within other Faculties at AUB	% Co-authorship with national researchers	% Co-authorship with regional researchers	% Co-authorship with international researchers
2003-2004	35.1	56.8	8.1	43.2
2002-2003	40.7	17.6	5.9	27.8
2001-2002	34.3	29.4	9.4	18.8
2000-2001	33.3	44.4	0.0	29.6

APPENDIX A

Journal quality

Currently, FHS does not have its own ranking of journals in terms of quality of publication. Members of FHS are increasingly publishing in reputable international journals as judged by the Impact Factor or the rank of journal in subject as classified by the Institute for Scientific Information (ISI). The Impact Factor is one measure of ranking, evaluating and comparing journals. It is an index of the number of times an ‘average article’ in a journal has been cited in a particular year. There are variations between disciplines, and journals should therefore be viewed in the context of their particular field. The Rank in Subject column represents the journal’s ranking in its field, and the last column shows our provisional ranking of journals. The following table shows a partial list of international journals publishing papers by faculty members over the past three years.

Table A1: List of Journals Publishing Research Works by FHS, 2000-2004

Journal Title	Impact Factor	Subject	Rank in Subject	FHS Ranking
Acta Ophthalmologica Scandinavia	1.124	Ophthalmology	21/41	A
Addiction	2.877	Substance abuse	1/19	A+
Addictive Behaviors	1.584	Psychology, Clinical	17/83	A
American Heart Journal	3.300	Cardiac & Cardiovascular Systems	10/70	A
American Journal of Cardiology	3.059	Cardiac & Cardiovascular Systems	14/70	A
American Journal Emergency Medicine	1.489	Emergency Medicine	3/11	A
American Journal of Epidemiology	4.486	Public, Environmental & Occupational Health	3/89	A+
American Journal of Hematology	1.667	Hematology	32/62	A
American Journal of Industrial Medicine	1.542	Public, Environmental & Occupational Health	36/89	A
American Journal of Infection Control	1.782	Infectious Diseases	24/41	A
American Journal of Medical Genetics	2.603	Genetics & Heredity	54/120	A
American Journal of Perinatology	0.859	Pediatrics	42/68	B
American Journal of Public Health	3.363	Public, Environmental & Occupational Health	6/89	A+
Annals of Epidemiology	2.345	Public, Environmental & Occupational Health	15/89	A
Annals of Tropical Medicine & Parasitology	1.010	Parasitology	12/21	A
Birth – Issues in Perinatal Care	1.709	Nursing	1/31	A+
BJOG: An International Journal of Obstetrics and Gynecology	1.991	Obstetrics and Gynecology	12/53	A
British Medical Journal	7.209	Medicine, General & internal	6/102	A+
Bulletin of Environmental Contamination & Toxicology	0.599	Environmental Sciences	100/131	B

Bulletin of the World Health Organization	2.442	Public, Environmental & Occupational Health	14/89	A
Canadian Journal of Cardiology	1.369	Cardiac & Cardiovascular Systems	34/70	A
Cardiology	1.127	Cardiac & Cardiovascular Systems	41/70	A
Cell Transplantation	2.327	Cell Biology	78/156	A
Clinical and Diagnostic Laboratory Immunology	1.809	Microbiology	43/84	A
Clinical Cardiology	1.221	Cardiac & Cardiovascular Systems	35/70	A
Clinical Chemistry	5.538	Medical Laboratory Technology	1/26	A+
Clinical Laboratory Hematology	0.669	Hematology	53/62	B
Clinical Microbiology & Infection	2.238	Infectious Diseases	15/41	A
Communications in Numerical Methods in Engineering	0.450	Engineering, Multidisciplinary	26/63	A
Contraception	1.571	Obstetrics & Gynecology	20/53	A
Current Controlled Trials in Cardiovascular Medicine	3.125	Cardiac & Cardiovascular Systems	13/70	A
Current Microbiology	1.125	Microbiology	58/84	B
Diagnostic Microbiology of Infectious Diseases	2.032	Infectious Diseases	16/41	A
Ecology of Food and Nutrition	0.150	Nutrition & Dietetics	51/53	C
Environmental Management	0.875	Environmental Sciences	71/131	A
Environmental Pollution	2.002	Environmental Sciences	17/131	A
Environmental Technology	0.563	Environmental Sciences	107/131	B
Environment & Urbanization	0.508	Urban Studies	14/28	A
Epidemiology & Infection	1.509	Public, Environmental & Occupational Health	37/89	A
European Journal of Clinical Microbiology & Infectious Diseases	1.477	Microbiology	51/84	B
European Journal of Epidemiology	0.971	Public, Environmental & Occupational Health	58/89	B
European Journal of Public Health	1.281	Public, Environmental & Occupational Health	45/89	A
Eye	1.308	Ophthalmology	18/41	A
Gerontology	1.600	Geriatrics & Gerontology	15/27	A
Headache	2.470	Clinical Neurobiology	37/135	A
Health Communication	0.889	Communication	8/44	A
Health Policy	0.754	Health Policy and Services	26/38	B

Health Policy & Planning	1.145	Health Policy and Services	14/38	A
Humor: International Journal of Humor Research	0.515	Psychology, multidisciplinary	58/101	A
International Dental Journal	0.531	Dentistry, Oral Surgery & Medicine	43/46	C
International Journal of Cardiology	1.892	Cardiac & Cardiovascular Systems	28/70	A
International Journal of Eating Disorders	1.540	Nutrition & Dietetics	24/53	A
International Journal of Environmental Health Research	0.588	Public, Environmental & Occupational Health	76/89	B
International Journal of Epidemiology	3.289	Public, Environmental & Occupational Health	7/89	A+
International Journal of Gynecology & Obstetrics	0.800	Obstetrics & Gynecology	40/53	B
International Journal of Health Services	0.802	Health care Sciences & Services	35/53	B
International Journal of STD and AIDS	1.359	Infectious Diseases	29/41	B
International Journal of Water Resources Development	0.203	Water Resources	51/55	C
International Migration	0.308	Demography	15/18	B
Journal of Adolescent Health	1.674	Public, Environmental & Occupational Health	33/89	A
Journal of Environmental Health	0.341	Environmental Sciences	122/131	C
Journal of American College of Nutrition	2.979	Nutrition and Dietetics	7/53	A
Journal of the American College Health	1.468	Education & Educational Research	5/92	A+
Journal of the American Statistical Association	2.123	Statistics & Probability	5/75	A+
Journal of Asthma	1.000	Allergy	9/15	A
Journal of Biosocial Sciences	0.686	Social Sciences, Biomedical	14/25	A
Journal of Clinical Epidemiology	2.227	Public Environmental & Occupational Health	19/89	A
Journal of Clinical Virology	2.020	Virology	15/23	B
Journal of Dairy Science	2.139	Agriculture, Dairy & Animal Sciences	2/41	A+
Journal of Environmental Monitoring & Assessment	0.651	Environmental Sciences	87/131	B
Journal of Epidemiology & Community Health	2.332	Public, Environmental & Occupational Health	16/89	A
Journal of Epidemiology & Infection	1.501	Infectious Diseases	27/41	B
Journal of Environmental Management	0.624	Environmental Sciences	89/131	B
Journal of Infection	1.221	Infectious Diseases	31/41	B

Journal of Nursing Administration	0.855	Nursing	11/31	A
Journal of Perinatal Medicine	0.790	Pediatrics	45/68	B
Journal of Professional Issues in Engineering Education & Practice	0.134	Engineering, Multidisciplinary	53/63	B
Journal of Psychosomatic Obstetrics & Gynecology	0.818	Obstetrics & Gynecology	37/53	B
Journal of Rural Health	0.537	Public, Environmental & Occupational Health	80/89	C
Journal of Skeletal Radiology	0.821	Radiology, Nuclear Medicine & Medical Imaging	64/83	B
Journal of Thrombosis and Haemostasis	0.000	Hematology	61/62	C
Journal of Thrombosis & Thrombolysis	1.066	Hematology	48/62	B
Medical & Pediatric Oncology	1.737	Pediatrics	13/68	A
Neurotoxicology	1.856	Neurosciences	114/198	A
Nursing Outlook	1.169	Nursing	3/31	A+
Lancet	18.316	Medicine, General & Internal	3/102	A+
Obesity Research	3.409	Nutrition & Dietetics	4/53	A+
Occupational and Environmental Medicine	1.847	Public, Environmental & Occupational Health	28/89	A
Ocean & Coastal Management	0.337	Water Resources	47/55	B
Open Economics Review	0.195	Economics	152/169	C
Pediatric & Perinatal Epidemiology	1.725	Pediatrics	18/68	A
Population	0.635	Demography	10/18	A
Prenatal Diagnostics	1.475	Obstetrics & Gynecology	23/53	A
Scandinavian Journal of Infectious Diseases	1.117	Infectious Diseases	33/41	B
Science of the Total Environment	1.455	Environmental Sciences	36/131	A
Social Science & Medicine	1.983	Social Sciences, Biomedical	3/25	A
Social Science Research	0.909	Social Sciences, Interdisciplinary	24/55	A
Studies in Family Planning	1.049	Demography	8/18	A
Thrombosis & Haemostasis	4.950	Hematology	8/62	A
Transfusion & Apheresis Science	0.853	Hematology	50/62	B
Transportation Research Part D	0.911	Transportation Science & Technology	3/21	A

Source: The Institute for Scientific Information, *Journal Citation Report* (2003).

APPENDIX B

**American University of Beirut
Faculty of Health Sciences
Research Committee
Guidelines for Proposal Evaluation**

According to the University Research Board's (URB) policy guidelines for faculty research grants, the Faculty Research Committee (FRC) must review, evaluate and approve all grant applications. The following describes the process of review and evaluation of proposals followed by the FRC.

1. All applications must meet the eligibility (and other) requirements of faculty research grants as stipulated in the URB Guidelines of April 17, 2003.
2. All applications should include the Office of Grants and Contracts URB cover sheet signed by the Department Chairperson, and a covering letter addressed to the FRC Chairperson.
3. There are no forms required for applications to URB grants, but proposals must be typewritten (preferably in MS word), and must include the following items.
 - a. Covering page, including title of the proposed project, applicant's name and email address, departmental affiliation, and total amount requested.
 - b. Summary of project of no more than one page.
 - c. Project description of no more than 10 pages (double spaced).
The description may include the objectives and significance of the project, materials and methods of analysis, relation to current research in the field (a concise literature review).
 - d. Bibliography
 - e. Itemized budget and work plan
 - f. Statement of any current or potential funding sources (with amounts requested).
 - g. CV of main investigator
4. The original and 5 copies of each complete application must be submitted to the Chairperson of the FRC two weeks prior to the deadline set by the URB.
5. The Chairperson of the FRC screens each application to determine eligibility and to ensure that it meets the minimal requirements as described in the URB written guidelines and the FRC instructions as described above. Incomplete proposals will be rejected or returned to the PI for minor revisions.
6. After the initial screening by the FRC, investigators may be asked to submit an electronic version of their proposals to the Chairperson of the FRC.
7. Two members of the FRC will be designated as principal internal reviewers of each proposal and will complete the FRC standardized Evaluation Form prior to the Committee deliberation.

8. The FRC will seek the opinion of at least one external reviewer to (anonymously) evaluate each proposal according to the FRC Evaluation Form, and to give an overall evaluation score of the application (1. Strongly recommended, 2. Highly recommended, 3. Recommended, or 4. Non recommended). The chairperson of the FRC will select external reviewers in consultation with members of the FRC
9. All members of the FRC will review all proposals and participate in the deliberations of each one (other than their own, if any).
10. The FRC, after discussing the reviewers' comments, will ask the investigator to respond to the reviewers' concerns and submit a revised (preferably electronic) version of the proposal.
11. The FRC will study the revised version of the proposal in light of the reviewers' comments and will assign a priority score based on (1) the reviewers' recommendations, (2) the track record of the investigator, and (3) an anonymous voting by all members of the FRC, excluding those who are submitting proposals as PIs.

**American University of Beirut
Faculty of Health Sciences
Research Committee
Evaluation of Research Proposals**

Reviewer: _____

Title of Proposal: _____

Investigator: _____

Department: _____

Please write your evaluation of the proposal according to the items listed below. You may send us your review by electronic mail to mk36@aub.edu.lb. Thank you.

.....

1. **Research question:** Is the statement of the problem clear enough to be summarized? Is there a well-defined rationale (theoretical/practical) for undertaking the study?

2. **Originality/State of the art:** Is the study novel in terms of approach or theory? Does the proposal reflect command of current body of knowledge in the field?

3. **Theoretical framework/Literature review:** Does the problem ‘sit’ within a conceptual framework or theory? Does the research question build on previous research? Is review of the literature selective (critical)? Are major concepts clearly defined? Are hypotheses (if any) clearly stated?

4. **Research design:** Is the design adequate given the stated problem? Are methods of data collection, sampling procedures, method of evaluation/analysis clearly identified? Are they suitable? Any discussion regarding reliability/validity of measures selected (if appropriate)?

5. **Significance/Importance:** Does investigator identify the significance of the problem? Is the statement convincing? Usefulness for policy/intervention and/or public health? Significance to the field? Potential for publications?

6. **Ethical/Political considerations:** Any discussion of ethical issues – if relevant? IRB review?

7. **Feasibility:** Are the plans realistic/achievable? Does investigator have access to data and/or subjects? Is timetable realistic? **(For internal reviewers)** Does investigator have necessary competence/experience to undertake the study?

8. Budget: Is budget about right (i.e., reasonable), given the purpose of the study?
Is it itemized?

9. General comments:

Overall evaluation: __1. Highly recommended
__2. Strongly recommended
__3. Recommended
__4. Not recommended

APPENDIX C

Sponsored Research Grants, 2003-2004

Title	Funding Org.	Investigator	Contract Start Date	Contract End Date	Budget
<u>Sponsored Research Projects – International Agencies:</u>					
Public positions towards Framework Convention of Tobacco Control-related tobacco control policies in Lebanon	IDRC	Afifi	1-Aug-04	30-Apr-05	\$ 7,542
Understanding Water, Understanding Health	IDRC	Nuwayhid	19-Jul-04	18-Jul-05	\$ 11,290
Support for the RHWG	Ford Foundation	Zurayk	1-Jun-04	31-May-06	\$ 200,000
Effect of recent-diesel ban in Beirut on children's respiratory health: an analysis of hospital records.	WHO-EMRO	El-Zein	1-Nov-03	31-Dec-04	\$ 4,300
Charting of the Med. Child Report	Gaslini Foundation	Khawaja	Aug-03	Till funds expire	\$ 4,182
Exploring potential impact of preconceptional care including folic acid supplementation on pregnancy outcomes in three countries of the middle east	UCLA	Tamim	15-Jun-03	31-May-05	\$ 16,000
Therapeutic Decisions at Menopause	Harvard School of Public Health	Khawaja, Deeb	1-Mar-03	31-Aug-05	\$ 58,967
Strengthening Teaching, Research & Community Outreach Capacities at FHS	Ford Foundation	Zurayk	1-Jan-03	31-Dec-05	\$ 430,000
Population Displacement, Impoverishment and Urban Health in the Outskirts of Beirut	Mellon Foundation	Khawaja	1-Jan-03	31-Dec-05	\$ 260,000
A situational Analysis of the Delivery of Reproductive Health Services within Primary Health Care Centers in Impoverished suburbs of Beirut	Population Council	El-Kak, Ramadan	1-Mar-03	31-Dec-04	\$ 35,000
Mental Health of immigrant Youth Exposed to War	Center for Addiction and Mental Health - Canada	Deeb	1-Apr-02	31-Dec-03	\$ 8,127
Tobacco Control Policies	IDRC-Canada	Afifi	1-Jan-02	30-Jun-04	\$ 133,001
Health Consequences of Pop Change in ME	Wellcome Trust	Zurayk	1-May-01	30-Sep-06	\$ 957,773
Work Environment & Neuro Behavioral Performance of Children	ILO	Nuwayhid	1-Apr-01	31-Dec-03	\$ 19,800 *
Health Consequences of Population Change in Beirut	Mellon Foundation	Zurayk	1-Jan-01	30-Sep-04	\$ 390,000
Strengthening Teaching/Research at FHS	Ford Foundation	Zurayk	1-Oct-99	30-Sep-03	\$ 400,000 *

Reproductive Health	Population Council	Zurayk	15-Oct-98	30-Dec-03	\$ 46,750 *
War Impact on Families	EEC	Sibai	1-Sep-96	30-Sep-99 (till funds end)	\$ 98,450 *
<u>Sponsored Research Projects – Local Agencies:</u>					
Survey of Outdoor Levels of Randon in Lebanon	Safadi Foundation	Habib	1-May-04	1-May-06	\$ 11,830
Understanding Physicians' Reimbursement Schemes: the Situation at PHC centers in Leb.	Italian Embassy	Kassak	18-Dec-03	18-Jul-04	\$ 29,150
Risk Factors for Hepatocellular Carcinoma in Lebanon	LNCSR	Ramia	15-May-02	15-Nov-03	\$ 4,666
<u>URB:</u>					
Efficacy of nicotine replacement therapy for smoking cessation in Lebanon		Jabbour	1-Oct-03	30-Sep-04	\$ 8,000
Climate change health impact		El-Zein	1-Oct-03	30-Sep-04	\$ 6,000
Household detergents		Habib	1-Oct-03	30-Sep-04	\$ 6,000
Socioeconomic status & household tasks among the elderly		Zohry	1-Oct-03	30-Sep-04	\$ 4,500

* Not included in the budget in table 3, page 6.

APPENDIX D

Sponsored Research Grants, 2002-2003

Title	Funding Organization	Investigator	Contract Start Date	Contract End Date	Budget
<u>Sponsored Research Projects – International Agencies:</u>					
Charting of the Med. Child Report	Gaslini Foundation	Khawaja	1-Aug-03	Open	\$3,360
Exploring potential impact of preconceptional care including folic acid supplementation on pregnancy outcomes in three countries of the Middle East	UCLA	Tamim	15-Jun-03	31-May-05	\$16,000
Therapeutic Decisions at Menopause	Harvard School of Public Health	Khawaja, Deeb	1-Mar-03	31-Aug-04	\$58,967
Strengthening Teaching, Research & Community Outreach Capacities at FHS	Ford Foundation	Zurayk	1-Jan-03	31-Dec-05	\$430,000
Population Displacement, Impoverishment and Urban Health in the Outskirts of Beirut	Mellon Foundation	Khawaja	1-Jan-03	31-Dec-05	\$260,000
A situational Analysis of the Delivery of Reproductive Health Services within Primary Health Care Centers in Impoverished suburbs of Beirut	Population Council	El-Kak, Ramadan	1-Jan-03	30-Nov-04	\$25,000
Sanitary Survey of Marjaayoun Area in South Lebanon	ESCWA	Jurdi	4-Dec-02	4-Mar-03	\$10,044
Mental Health of immigrant Youth Exposed to War	Center for Addiction and Mental Health	Deeb	1-Apr-02	30-Jun-03	\$8,127
Tobacco Control Policies	IDRC-Canada	Afifi	1-Jan-02	30-Jun-04	\$133,001
Health Consequences of Pop Change in the Middle East	Wellcome Trust	Zurayk	1-May-01	31-Dec-04	\$957,773
Work Environment & Neuro Behavioral Performance of Children	ILO	Nuwayhid	1-Apr-01	31-Dec-03	\$19,800
Health Consequences of Population Change in Beirut	Mellon Foundation	Zurayk	1-Jan-01	30-Sep-04	\$390,000
Strengthening Teaching/Research at FHS	Ford Foundation	Zurayk	1-Oct-99	30-Sep-03	\$400,000 *
Reproductive Health	Population Council	Zurayk	15-Oct-98	31-Dec-03	\$46,750 *
War Impact on Families	EEC	Sibai	1-Sep-96	Open	\$98,450 *
<u>Sponsored Research Projects – Local Agencies:</u>					
Understanding Physicians Reimbursement Schemes	Italian Embassy	Mohammad-Ali	15-Oct-02	15-Mar-03	\$11,300
Risk Factors for Hepatocellular Carcinoma in Lebanon	LNCSR	Ramia	15-May-02	16-May-03	\$4,666

Women's Experience of Childbirth in Lebanon	UNICEF	Shediac/ Affifi	15-Jan-98	Open	\$8,160
Behavioral Risk Factors among University Students	UNICEF	Sibai	1-Dec-98	Open	\$4,500
<u>URB:</u>					
Assessment of Trauma Care at AUB.MC-Extension.		Tamim	1-Oct-02	30-Sep-03	\$6,173
Child Labor in selected urban communities of Beirut.		Makhoul	1-Oct-02	30-Sep-03	\$7,826
The long term health consequences of Argileh use: A case-control study of long cancer and incident coronary heart disease		Jabbour	1-Oct-02	30-Sep-03	\$5,000
Women & Work in Lebanon.		Habib	1-Oct-02	30-Sep-03	\$6,250

* Not included in the budget in table 3, page 6.

APPENDIX E

Sponsored research grants, 2001-2002

Title	Funding Organization	Investigator	Contract Start Date	Contract End Date	Budget
<u>Sponsored Research Projects – International Agencies:</u>					
Mental Health of immigrant Youth Exposed to War	Center for Addiction and Mental Health – Canada	Deeb	01-Apr-02	30-Jun-03	\$8,127
Tobacco Control Policies	IDRC-Canada	Afifi	01-Jan-02	31-Dec-03	\$133,001
Health Consequences of Pop Change in ME	Wellcome Trust	Zurayk	1-May-01	30-Apr-04	\$957, 773
Work Environment & Neuro Behavioral Performance of Children	ILO	Nuwayhid	1-Apr-01	31-Dec-03	\$19,800
Health Consequences of Population Change in Beirut	Mellon Foundation	Zurayk	1-Jan-01	31-Dec-03	\$390,000
Locus of Control	Three Tees International	Heath	1-Oct-00	28-Feb-02	\$23,450
Strengthening Teaching/Research at FHS	Ford Foundation	Zurayk	1-Oct-99	30-Sep-03	\$400,000
Health Promotion among University Students in Lebanon	MEAwards	Shediac/Afifi	1-Jul-99	31-Dec-01	\$17,750
Reproductive Health	Population Council	Zurayk	15-Oct-98	31-Dec-03	\$46,750
Population & Reproductive Health	Mellon Foundation	Zurayk/Deeb	1-Jan-95	31-Dec-01	\$450,000
War Impact on Families	EEC	Sibai	1-Sep-96	Open	\$98,450 *
<u>Sponsored Research Projects – Local Agencies:</u>					
Risk Factors for Hepatocellular Carcinoma in Lebanon	LNCSR	Ramia	15-May-02	16-May-03	\$4,666
Infection Hepatitis Viruses in 3 Lebanon High Risk Groups	LNCSR	Ramia	1-Mar-01	30-Jun-02	\$6,667
Seroprevalence of HTLV-1 in Blood Donors in Lebanon	LNCSR	Tamim	19-Feb-01	31-Jul-02	\$6,667
Role of Media in Educating Awareness about Health in Lebanon	LNCSR	Afifi	1-Feb-01	30-Jun-02	\$5,000
Burden of Disease	WHO	Nuwayhid/ Sibai	1-Dec-99	31-Dec-01	\$148,162
Behavioral Risk Factors among University Students	UNICEF	Sibai	1-Dec-98	till funds end	\$4,500
<u>URB:</u>					
Climate-Change Health Impacts in Lebanon and the Middle East		El-Zein	1-Oct-01	30-Sep-02	\$7,300
The Influence of Reading Direction on Aesthetic Preference		Heath	1-Oct-01	30-Sep-02	\$6,400

Consanguineous Marriages & Their Impact on Fertility & Infant & Child Mortality in Selected Arab Countries	Saxena	1-Oct-01	30-Sep-02	\$6,300
Assessment of Trauma Care at AUB.MC-Extension	Tamim	1-Oct-01	30-Sep-02	0

* Not included in the budget in table 3, page 6.

APPENDIX F

Sponsored Research Grants, 2000-2001

Title	Funding Organization	Investigator	Contract Start Date	Contract End Date	Budget
<u>Sponsored Research Projects – International Agencies:</u>					
Health Consequences of Pop Change in ME	Wellcome Trust	Zurayk	1-May-01	30-Apr-04	\$957, 773 *
Work Environment & Neuro Behavioral Performance of Children	ILO	Nuwayhid	1-Apr-01	31-Dec-03	\$19,800
	IDRC-Canada	Nuwayhid	8-Jan-01	30-Sep-01	\$14,000
Potential Lead Poisoning					
Health Consequences of Population Change in Beirut	Mellon Foundation	Zurayk	1-Jan-01	31-Dec-03	\$390,000
Locus of Control	Three Tees International	Heath	1-Oct-00	28-Feb-02	\$23,450
Strengthening Teaching/Research at FHS	Ford Foundation	Zurayk	1-Oct-99	30-Sep-03	\$400,000
Health Promotion among University Students in Lebanon	MEAwards	Shediac/ Afifi	1-Jul-99	31-Dec-01	\$17,750
	Population Council	Zurayk	15-Oct-98	31-Dec-03	\$46,750
Reproductive Health War Impact on Families	EEC	Sibai	1-Sep-96	Open	\$98,450 *
<u>Sponsored Research Projects – Local Agencies:</u>					
Infection Hepatitis Viruses in 3 Lebanon High Risk Groups	LNCSR	Ramia	1-Mar-01	30-Jun-02	\$6,667
Seroprevalence of HTLV-1 in Blood Donors in Lebanon	LNCSR	Tamim	19-Feb-01	31-Jul-02	\$6,667
Role of Media in Educating Awareness about Health in Lebanon	LNCSR	Afifi	1-Feb-01	30-Jun-02	\$5,000
Occupational Injuries in Lebanon	WHO	Nuwayhid	1-Sep-00	31-Aug-01	\$3,930
Investigation of Exposure rate to Hepatitis B & C Virus	LNCSR	Ramia	1-Mar-00	28-Feb-01	\$5,333
Burden of Disease	WHO	Nuwayhid/ Sibai	1-Dec-99	31-Dec-01	\$148,162
Behavioral Risk Factors among University Students	UNICEF	Sibai	1-Dec-98	till funds end	\$4,500

Situational Analysis of Health Human Resources	LNCSR	Kassak	1-Jul-98	30-Jun-00	\$3,311
Women's Experience of Childbirth in Lebanon	UNICEF	Shediac/ Afifi	15-Jan-98	till funds end	\$8,160
<u>URB:</u>					
The Economic and Social Burden of Work-Related Injuries		Nuwayhid	1-Oct-00	30-Sep-01	\$6,000
Hepatitis C Virus Infection in Lebanese Patients with B- cell non-Hodgkin's Lymphoma		Ramia	1-Oct-00	30-Sep-01	\$5,000
Assessment of Trauma Care at AUB.MC		Tamim	1-Oct-00	30-Sep-01	\$5,000
Death Certification in Lebanon : completeness of data reporting and temporal trends 1974-1998		Sibai	1-Oct-00	30-Sep-01	\$4,400
A Comparative Study of the Demographic & Health Situation in Selected Arab Countries		Saxena	1-Oct-00	30-Sep-01	\$4,000
Lebanese Amber-Extension		Jurdi/Milki	1-Oct-00	30-Sep-01	0
Reading Direction and the Perception of Facial Effect- Extension		Heath	1-Oct-00	30-Sep-01	0
Exposure of Dentists to Mercury in Lebanon-Extension		Harakeh	1-Oct-00	30-Sep-01	0

* Not included in the budget in table 3, page 6.