

**SHAWKAT Q. LAFI** (Hailat)

**Professor of  
Epidemiology & Biostatistics**  
Faculty of Veterinary Medicine  
Jordan University of Science and Technology  
Irbid-Jordan

**PERSONAL DETAILS**

Date and Place of Birth: October 2, 1956; Bait-Ras, Irbid, Jordan.  
Citizenship: Jordan.  
Permanent Address: Jordan University of Science and Technology, Faculty of Veterinary Medicine, Irbid, P.O. Box 3030, Jordan.  
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Marital Status: Married, Wife (Nahla Subhi Al-Bayyari (MPH) Child and Maternity Health Care, Lecturer at Al-Balqa University), **three Children** (Ra'ed, 21; Omar, 19 and Marah, 14 years old).

**EDUCATION**

**Arab Funds Scholarship for Distinguished Researchers:** (Aristotle University of Thessaloniki, School of Veterinary Medicine, Greece, 2010-2011. Research Project: "An Experimental Field Study of Ovine and Caprine Toxoplasmosis".

**Fulbright Scholar,** Georgia Small Ruminant Research and Extension Center, Fort Valley State University, Fort Valley, GA 31030, USA for the academic year 2003-2004. Research project: "A prospective epidemiological study of the effects of somatic cell count on milk production and soft cheese yield in dairy goat milk".

- **Ph.D.** College of Veterinary Medicine, Michigan State University, East Lansing, Michigan, USA. (Major, **Quantitative Epidemiology & Herd Health**; minor, **Biostatistics**; support area, **Agricultural Economics**), 1986 to 1989.
- **M.P.H.** Master of Public Health, School of Public Health, The University of Michigan, Ann Arbor, Michigan, USA. (Major, **Quantitative Epidemiology**; minor, **Biostatistics**), 1983 to 1985.
- **D.V.M.** Doctor of Veterinary Medicine, Faculty of Veterinary Medicine, Aristotle University, Thessaloniki, Greece, 1976 to 1982.
- Greek Language Institute, Aristotle University, Thessaloniki, Greece, 1975 to 1976.
- Irbid Secondary High School, 1972 to 1975.

## LANGUAGES

Arabic	Native language
Greek	Reading, writing and speaking (very good)
English	Reading, writing and speaking (very good)

## PROFESSIONAL & EXPERIENCE SKILLS

### Data analysis on international and national levels:

1. National Animal Health Monitoring System (**NAHMS**), Michigan State University, USA, 1987-1989 (using **SYSTAT** Statistical Package).
2. The first who used principle components and factor analysis in veterinary epidemiological studies (see *Preventive Veterinary Medicine*, **13**: 261-275, 1992).
3. Descriptive and Analytical Statistical Study of Parallel Program at Jordan University of Science and Technology, Jordan, 2000-2001 (using SPSS).
4. Jarash Governorate socio-economic survey, Jordan, 2004-2005 (using SPSS).
5. Conducting several workshops as an expert on using the SPSS Package (Versions 9-20) in data analyses through the consultative centers at Jordan university of Science and Technology and Al-Hashemiah University, Jordan (**Syllabus is the last page of this CV**)
6. Teaching advanced courses of Biostatistics and Analytical Epidemiology for graduate students at the Faculties of Veterinary Medicine, Allied Health and Nursing at Jordan University of Science and Technology, Jordan.

## ADMINISTRATION EXPERIENCES

### September 2000 to September 2002

Head, Department of Pathology and Animal Health, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

### September 1998 to September 2000

Assistant Dean, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

### September 1995 to September 2000

Director of the Veterinary Health Center, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

### February 2000 to present

Professor, Herd Health and Preventive Veterinary Medicine, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

### February 1995 to February 2000

Associate Professor, Herd Health and Preventive Veterinary Medicine, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

**January 1990 to February 1995**

Assistant Professor, Herd Health and Preventive Veterinary Medicine, Faculty of Veterinary Medicine, Jordan University of Science and Technology, Irbid-Jordan.

**Fall, 1989:** Postdoctoral research fellow in Veterinary Epidemiology, Division of Epidemiology, College of Veterinary Medicine, Michigan State University, East Lansing, Michigan, USA.

**1988-1989:** Instructor, Division of Epidemiology, College of Veterinary Medicine, Michigan State University, East Lansing, Michigan, USA. (VM 544, Veterinary Epidemiology, 4 credits, taught 1/4 of course).

**1986-1988:** Research Assistant, Division of Epidemiology, College of Veterinary Medicine, Michigan State University, East Lansing, Michigan, USA (Data analyses and field studies).

**1983-1985:** Graduate student, Department of Epidemiology, School of Public Health, The University of Michigan, Ann Arbor, Michigan, USA (Data analyses and field studies).

**1982-1983:** Clinical Veterinarian, Jordan Livestock & Poultry Company, Amman, Jordan

**TEACHING RESPONSIBILITIES**

Faculty of Veterinary Medicine

Animal Physiology (VM: 221; 2 times).

Herd health and preventive Veterinary Medicine (VM: 464, 3 credits; 11 times).

Livestock management (VM: 311, 2 credits; 12 times).

Animal husbandry (VM: 222, 3 credits; 12 times).

Theriogenology I (Rep. Physiology, VM:581, 3 credits; 4 times).

Theriogenology II (Gyne. Obst. And A.I. VM: 582, 5 credits 3 times)

Clinical Training (Theriogenology VM: 591, 3 credits; 7 times)

Biostatistics (**Master** VM: 711 and VM: 718, 2 credits each; 18 times)

Analytical Vet. Epidemiology (**Master** VM: 728 and VM: 729, 2 credits each 18 times)

Faculty of Agricultural Sciences

Animal diseases (Diseases of the Rep. System, AS: 436, 3 credits; 2 times).

Beef cattle management  
And production (AS: 433, 3 credits; 1 time).

#### Faculty of Nursing & Allied Health

Analytical Epidemiology & Biostatistics (**Master**-Faculty of Nursing, NU 784, 3 credits; 6 times)  
Biostatistics (**Master**-Faculty of Allied Health, AH:717, 2 credits; 2 times)

Allied Health Sciences Institute, Irbid, Jordan.

Epidemiology & infectious diseases (2 credits, 5 times)

#### **PROFESSIONAL ORGANIZATIONS**

Member of Greek Veterinary Medical Association.	1982 to 1987
Member of Jordanian Veterinary Medical Association.	1982 to present
Member of the New York Academy of Sciences.	1995 to present

#### **SCHOLARSHIPS, HONORS AND AWARDS**

- **Jordan Armed Forces** Competitive Scholarship, Jordan 1975-1981.
- **Aristotle Competitive Fellowship**, Aristotle University, Thessaloniki, Greece 1978-1982.
- **Showman Award** for Young Arab Scientists (on the Arab World level) "Veterinary and Agricultural Prize", 1995.
- **Fulbright Scholar**, Georgia Small Ruminant Research and Extension Center, Fort Valley State University, Fort Valley, GA 31030, USA for the academic year 2003-2004.
- **Arab Fund Award for Distinguished Scholars**, 2010-2011 (one year in Greece, Aristotle University of Thessaloniki).

#### **REVIEWING COMMITTEES**

**Reviewer for Preventive Veterinary Medicine Journal (ELSEVIER SCIENCE), Amsterdam, the Netherlands. January 15, 1998 to January 15, 2010.**

**Reviewer of several applications “national and international” promotions for the ranks of associate and full professor.**

### **ACADEMIC ADVISING COMMITTEES**

Master Thesis Adviser: Master of Public Health (M.P.H). Nahla S. Al-Bayyari, Faculty of Medicine, Department of Community Medicine, 1994. (Thesis Title: The Pattern Of Intra-Uterine Fetal Growth For Normal Singleton Pregnancies In Irbid City).

Master Thesis Adviser: Master of Theriogenology, Abdel-Rahman Talafha, Faculty of Veterinary Medicine, Department of Veterinary Clinical Sciences, 1999. (Thesis Title: Studies on Rectal Palpation, Ultrasonography and Biological Test for Pregnancy Diagnosis in Arabian Mares).

Master Thesis Adviser: Master of Science in Nursing, Nabila Sh. Al-jad'a, Faculty of Nursing, Jordan University of Science and Technology, 2000 (Thesis Title: Health Promoting Lifestyle Practices Among Pregnant Jordanian Women).

Master Thesis Adviser: Master of Science in Veterinary Epidemiology, Amer Younes Ahmed Saleh, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2001 (Thesis Title: Epidemiological Studies On Foot And Mouth Disease In Sheep In Jordan).

Master Thesis Adviser: Master of Science in Veterinary Epidemiology, Abeer Husein Talafha, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2001 (Thesis Title: Epidemiological And Microbiological Studies Of Brucellosis In Sheep In Northern Jordan).

Master Thesis Adviser: Master of Theriogenology, Shaker N. Aldohni, Faculty of Veterinary Medicine, Department of Veterinary Clinical Sciences, 2001. (Thesis Title: Some Studies on Infectious Causes of Cattle Infertility in Jordan).

Master Thesis Adviser: Master of Science in Nursing, Nawal Abou-Aboud, Faculty of Nursing, Jordan University of Science and Technology, 2002 (Thesis Title: Descriptive Study Of Diabetes Care Profile of Jordanian Patients with Type 2 Diabetes).

Master Thesis Adviser: Master of Science in Food Hygiene, Raed Mosa Zourob, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2002 (Thesis Title: Studies on Some Food Poisoning Organisms in Milk and Its Products in Northern Jordan)

Master Thesis Adviser: Master of Science in Veterinary Epidemiology, Waleed Ali Eilokour, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2003 (Thesis Title: Isolation and Identification of Foot and Mouth Disease Virus from Cattle in Jordan)

Master Thesis Adviser: Master of Science in Veterinary Microbiology & Epidemiology, Aster Yohannes, Faculty of Veterinary Medicine, Jordan University of Science and Technology, June, 2003 (Thesis Title: Clinical and Sub-Clinical Bovine Mastitis In Primiparus Dairy Heifers in Jordan).

Master Thesis Adviser: Master of Science in Veterinary Epidemiology, Assadullah Samadi, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2010 (Thesis Title: Incidence rate and risk factors associated with the occurrence of ovine and caprine Brucellosis in Mafraq region of Jordan).

Master Thesis Adviser: Master of Science in Veterinary Epidemiology, Mohammed Abdal Haleem Abudalbouh, Faculty of Veterinary Medicine, Jordan University of Science and Technology, 2010 (Thesis Title: Incidence rate and risk factors associated with the occurrence of Toxoplasmosis in sheep and goats in Mafraq region of Jordan)

### **COMMITTEES ON NATIONAL LEVEL**

National Scientific Committee for Agriculture and Veterinary Medicine, Ministry of Higher Education, 2009-2010.

National Scientific Committee for Identifying Research Areas of National Priorities in Agriculture and Veterinary Medicine. Jordanian Higher Council for Research and Development, 2009 -2010.

### **COMMITTEES ON THE UNIVERSITY LEVEL**

1991-1992                      Representative of the Faculty of Veterinary Medicine to the University Council.

1995 to present              University Laboratories and Library supplies.

1991 and 1998                Representative of the Faculty of Veterinary Medicine to the University Council.

### **COMMITTEES ON THE FACULTY LEVEL**

1991, 1994 & 1998        Chairman of the committee of Student Affairs

1991 to 1998                Chairman of the committee of the library, equipments and faculty supplies.  
1992 to present              Member of the Faculty Council representing the Department of Veterinary Clinical Sciences.

### **COMMITTEES ON THE DEPARTMENT LEVEL**

1993 to present              Member of the Department of Clinical Veterinary Sciences Council.

1992 to present              Member of the Scientific Research Committee.

## RESEARCH INTERESTS

1. Developing and implementing quantitative epidemiologic and economic methods that can be applied to livestock reproductive and productive diseases and human health delivery systems.
2. Deriving solutions to epidemiologic problems with multi-functional etiologies (animals and humans) and evaluating the economic effects of these problems.

## PUBLICATIONS

### Published in Refereed, International, Specialized & Indexed Journal Articles:

1. ND Giadinis, V Psychas, Z Polizopoulou, E Papadopoulos, N Papaioannou, Ath Komnenou, A-L Thomas, EJ Petridou, M Kritsepi-Konstantinou, **SQ Lafi** and GD Brellou. Acute coenurosis of dairy sheep from 11 flocks in Greece. (in press, 2011) *New Zealand Veterinary Journal*.
2. Nektarios D. Giadinis, Symeon Symeoudaki, Elias Papadopoulos, **Shawkat Q. Lafi**, Harilaos Karatzias. Possible risk factors for cryptosporidiosis in diarrhoeic goat kids and lambs in Cyprus and comparison of 2 techniques for diagnosis. (in press, 2011) *Tropical Animal Health and Production*.
3. N. Panousis, Ch. Brozos, I. Karagiannis, N. Giadinis, **S. Lafi**, M. Kritsepi. Evaluation of Precision Xceed® meter as an on-site monitor of blood beta-hydroxybutyric acid and glucose concentrations for detecting pregnancy toxemia and ketosis in dairy sheep. (in press 2011) *Research in Veterinary Science*.
4. Mohamad A. Abu-Dalbouh, Mustafa M. Ababneh, Nektarios D. Giadinis, **Shawkat Q. Lafi**. Ovine and caprine toxoplasmosis (*Toxoplasma gondii*) in aborted animals in Jordanian goat and sheep flocks. *Tropical Animal Health and Production*, **44**: 49-54, 2012.
5. Nikolaos N, Kritsepi M, Karagiannis I, Kalaitzakis E, **Lafi S**, Brozos CH. Evaluation of Precision Xceed® for on-site monitoring of blood  $\beta$ -hydroxybutyric acid and glucose in dairy cows. *Journal of the Hellenic Veterinary Medical Society*, **62**: 109-117, 2011.
6. D. Giadinis, N. Panousis, E. J. Petridou, V. I. Siarkou, **S. Q. Lafi**, k. Pourliotis, E. Hatzopoulou, G.C. Fthenakis. Selenium, vitamin E and vitamin A blood concentrations in dairy sheep flocks with increased or low clinical mastitis incidence. *Small Ruminant Research*, **95**: 193-196, 2011.
7. Mohamad A. Abu-Dalbouh, Mustafa M. Ababneh, Nektarios D. Giadinis and **Shawkat Q. Lafi**. Ovine and Caprine Toxoplasmosis (*Toxoplasma gondii*). *Iranian Journal of Veterinary Science and Technology*, **2**: 61-76, 2010.

8. Assadullah Samadi, Mustafa M. Ababneh, N. D. Giadinis and **S. Q. Lafi**. Ovine and Caprine Brucellosis (*Brucella melitensis*) in Aborted Animals in Jordanian Sheep and Goat Flocks. *Veterinary Medicine International*, Volume 2010, Article ID 458695, 7 pages, doi:10.4061, 2010.
9. Assadullah Samadi, M M K. Ababneh, N.D. Giadinis, **S. Q. Lafi**. Ovine and Caprine brucellosis (*Brucella melitensis*). CAB reviews: *Perspective in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 5, 042, 1-14, 2010.
10. **Lafi , S. Q.**, Abdelsalam Q. Talafha, Nektarios Giadinis, Emmanouil Kalaitzakis, Konstantinos Pourliotis, Nikolaos Panousis A., Factors affecting the reproductive performance of Awassi sheep flocks in north-east of Jordan: An epidemiological study. *Tropical Animal Health and Production*. **41**: 1755-1764, 2009.
11. Talafha, A., Q., **S. Q. Lafi** , M.M. Ababneh. The effect of estrus synchronization treatment on somatic cell count of transitional-anestrus Awassi ewes' milk. *Tropical Animal Health and Production*. **41**: 161-170, 2009.
12. Talafha, A., Q., **S. Q. Lafi** , M.M. Ababneh. The effect of estrus synchronization treatment on somatic cell count of transitional-anestrus local-Damascus cross breed goats' milk. *Tropical Animal Health and Production*. **40**: 185-192, 2008.
13. Giadinis, N. D, Papadopoulos, E., **Lafi, S. Q.**, Panousis, N. Papazahariadou, M, Karatzias, H. Efficacy of halofuginone lactate for the treatment and prevention of cryptosporidiosis in goat kids: An extensive field trial. *Small Ruminant Research* **76**:195-200, 2008.
14. Giadinis, N. D, Papadopoulos, E., Panousis, N. Papazahariadou, M, **Lafi, S. Q**, Karatzias, H. Effect of halofuginone lactate on treatment and prevention of lamb cryptosporidiosis: An extensive field trial. *Journal of Veterinary Pharmacology & Therapeutics*. **30**: (6) 578-582, 2007.
15. Giadinis, N. D, Filiusis, G., **Lafi, S.Q.**, Panousis, N., Pourliotis, K., Bojkovski, J., Karatzias, H. Field Evaluation of an ORF vaccine in sheep and goat flocks with high neonatal mortality. *Veterinaski Glasnik*. **61**: (5-6) 303-312, 2007.
16. **Lafi, S. Q.** Use of somatic cell counts and California Mastitis Test results from udder halves milk samples to detect sub-clinical intra-mammary infection in Awassi sheep. *Small Ruminant Research*. **62**: (2) 83-86, 2006.
17. Abeer H. Al-Talafhah, **Lafi, S. Q.** Yasser Al-Tarazi. Epidemiology of brucellosis in Awassi sheep in Northern Jordan. *Preventive Veterinary Medicine*. **60**: 297-306, 2003.



18. Ahmed, A.E.H., **Lafi, S. Q.**, El-Okour, W.A. Isolation and serotyping of foot and mouth disease virus from cattle in Jordan. 3<sup>rd</sup> International Scientific Conference, Mansoura, Egypt, April 29-30, 2003. pp 169-181.
19. **Lafi, S.Q.** , N. Hailat and Falah Shidaifa. Reproductive Performance of Awassi sheep in the Northern Badia of Jordan. *Journal Egyptian Veterinary Medical Association*. **61**: 379-386, 2001.
20. **Lafi, S. Q.** and Hassan, M. N. The Mast-O-Test and Mastop-H<sup>®</sup> in identifying and treatment of sub-clinical bovine mastitis in dairy cattle. *American Holistic Veterinary Medical Association*. **18** (4): 25-29, 2000.
21. **Lafi, S. Q.** Al-Majali, A. M., Rousan, M. D. and Alawneh, J. M. Epidemiological studies of clinical and sub clinical ovine mastitis in Awassi Sheep in Northern Jordan. *Preventive Veterinary Medicine*. **33**: 171-181, 1998.
22. **Lafi, S. Q.** and N. Q. Hailat. Bovine and ovine mastitis in Dhuleil Valley of Jordan. *Veterinariski Arhiv*. **68** (2): 51-57, 1998.
23. Nabil Hailat, Suleiman Al-Kalil, Ahmad Alkofahi, **Shawkat Q. Lafi**, Falah Al-Ani, Ali Al-Darraji and Ziad Bataineh. Effect of *Nigella Sativa* extracts on antibody response of rats vaccinated with Brucella vaccine (REV-1). *Pharmaceutical Biology*. **35** (3): 217-222, 1998.
24. **Lafi, S. Q.** and Hailat, N. Q. Incidence and antibiotic sensitivity of bacteria causing bovine and ovine clinical mastitis in Jordan. *Pakistan Veterinary Journal*. **18**: 88-94, 1998.
25. Nabil Hailat, Al-Darraji A., **Shawkat Q. Lafi**, Barakat S., Al-Ani, F., Magreby H., Al-Qudah, K., Gharaibeh, S., Rousan M, and Al-Smadi , M. Pathology of the rumen in goats caused by plastic foreign bodies in Jordan with reference to its prevalence and evidence of partial degradation. *Small Ruminant Research*, **166**: 1-7, 1998.
26. Hailat, N. Q. and **Lafi, S. Q.** A deficiency in the slow moving immunoglobulin in Awassi sheep. *Turkish Journal of Veterinary & Animal Sciences*, **21**:1-3, 1998.
27. **Lafi, S. Q.**, Khamas, W. A., Hailat, N. Q., Al-Darraji, A. M. and Fathalla, M. A. Vaginal cytology in small ruminants. *Indian Veterinary Journal* **74**: 662-665, 1997.
28. **Lafi, S. Q.**, Al-Darraji, A. M., Hailat, N .Q. and Fathalla, M. Ovine freemartinism. *Indian Veterinary Journal*, **74**: 339-340, 1997.
29. Hailat, N., **Lafi, S.**, Al-Darraji, A., El-Maghrabi, H., Al-Ani, F., and Fathalla, M. Fetal anasarca in Awassi sheep. *Australian Veterinary Journal*, **75**: 257-259, 1997.

30. **Lafi, S.** and Fathalla, M. Artificial insemination in Awassi ewes using fresh diluted semen. *Indian Veterinary Journal*, **74**: 223-225, 1997.
31. N. Hailat, A. Al-Darraji, **S.Q. Lafi** and Z.Al-Bateineh. Sheep pulmonary adenomatosis associated with syncytial cells and intranuclear inclusion bodies. *The Cancer Journal*, **10**: 121-124, 1997.
32. Hailat, N., **Lafi, S.Q.**, AL-Darraji, A. and Al-Ani, F. Equine babesiosis associated with strenuous exercise: clinical and pathological studies in Jordan. *Veterinary Parasitology*, **69**: 1-8, 1997.
33. Hailat, N. Q., **Lafi, S. Q.** Al-Darraji, A. m., Al-Ani, F. and Fathalla, M. A. Ovine fetal maceration. *Small Ruminant Research*, **25**: 89-91, 1997.
34. N. Hailat, S. Nouh, A.Al-Darraji, **S. Lafi**, F. Al-Ani and A. Al-Majali. Prevalence and pathology of foreign body (plastics) in Awassi sheep in Jordan, *Small Ruminant*, **24**: 43-48, 1996.
35. Bateineh, Z. M., Hailat, N., **Lafi, S.**, and Bani Hani, I. Ultrastructural Morphology of the Dorsal Lobe of the Prostate Gland In Cadmium and Zink Treated Rats. *Proceedings of microscopy and microanalysis, Microscopy Society of America, 54th Annual Meeting*. pp. 746-747. 1996.
36. Hailat, N., **Lafi, S.**, Bateineh, Z., Al-Rawashdeh. O. and Al-Bagdadi, F. Comparative ultrastructural study of camel, cow and horse Neutrophil. *Proceedings of microscopy and microanalysis, Microscopy Society of America, 54th Annual Meeting*. pp. 932-933. 1996.
37. Hailat, N., Fathalla, M., **Lafi, S.** and Al-Rawashdeh, O. Unusual multiple abnormalities in a bovine reproductive tract. *Bovine Practitioner*, **30**: 85-86, 1996
38. Hailat, N., **Lafi, S. Q.**, Al-Sahli, A., Abu-Basha, E. and Fathalla, M. Twin foetal Maceration in a cow associated with persistent corpus luteum and closed cervix. *Bovine Practitioner*, **30**: 83-84, 1996.
39. Hailat, N., **Lafi, S.** and Fathalla, M. Traumatic hepatitis in an Awassi sheep associated with septicaemia. *Pakistan Veterinary Journal*, **16**: 50-51, 1996.
40. Hailat, N., **Lafi, S.**, Al-Darraji, A. and Fathalla, M. Bilateral ovarian hematoma in a heifer. *Indian Veterinary Journal*, **73**: 791-792, 1996.

41. Al-Rawashdeh, O.F., **Lafi, S.Q.**, Abdul-Aziz, T.A., Hailat, N.Q., EreifiJ, K.I. and Nour,A.Y.M. Effect of feed deprivation on blood levels of Glucose,  $\beta$ -hydroxybutyric acid, Triglycerides, Cholesterol, Body Weight and Yolk Sac Weight in one-day-old Broiler Chicks. *Acta Veterinaria*, **45**: 175-186, 1995.
42. Hailat, N., Al-Rawashdeh, O., **Lafi, S.** and Zorah, K. Significant changes in some blood parameters in severely emaciated sheep associated with rumen impaction by plastic objects: a clinical perspective. *Journal of Egyptian Veterinary Medical Association*. **55**: 353-360, 1995.
43. Al-Rawashdeh, O., **Lafi, S.**, Abdul-Aziz, T., Hailat, N.Q. and Ereifej, K.I. Effects of starvation on serum levels of calcium, phosphorous, uric acid and creatinine in newly hatched broiler chicks. *Indian Journal of Animal Sciences*, **65** (10):1081-1085, 1995.
44. **Lafi, S. Q.**, Al-Rawashdeh, O. F., Hailat, N. Q. and Fathalla M. Reproductive and production performance of Friesian dairy cattle in Jordan. *Preventive Veterinary Medicine*, **22**: 227-234, 1995.
45. Hailat, N. Q., Bateineh, Z., **Lafi, S. Q.**, Raweily, E., Aqel, M., Al-Katib, M. and Hanash, S. Effect of *Nigella Sativa* volatile oil on jurkat T cell leukemia cell line polypeptides. *International Journal of Pharmacognosy*, **33**: 21-24, 1995.
46. **Lafi, S.Q.**, Al-Rawashdeh, O.F., Ereifej, K.I. and Hailat N.Q. Incidence of clinical mastitis and prevalence of sub-clinical udder infections in Jordan dairy cattle. *Preventive Veterinary Medicine*, **18**: 89-98, 1994.
47. Al-Rawashdeh, O.F., Abdul-Aziz, T.A., **Lafi, S. Q.** and Hailat, N. Q. Blood ketone body ( $\beta$ -hydroxybutyric acid) in chickens of different ages. *Indian Journal of Animal Sciences*. **64**: 50-51, 1994.
48. Hailat, N., Al-Rawashdeh, O., **Lafi, S.Q.** and Al-Bateineh, Z. An outbreak of sheep pox associated with unusual winter conditions in Jordan. *Tropical Animal Health And Production*, **26**: 79-80, 1994.
49. **Lafi, S.Q.**, Al-Rawashdeh, O.F., Na'was. T and Hailat, N.Q. National cross-sectional study of mastitis in Jordan dairy cattle. *Tropical Animal Health and Production*, **26**:168-173, 1994.
50. Hailat, N., Bateineh, Z., **Lafi, S.** and Al-Bagdadi, F. Comparative ultra structural study of camel, cow and horse basophile. *Proceedings of the 52nd annual meeting of the electron microscopy society of America*, PP. 202-204, 1994.
51. Hailat, N., Fathalla, M., **Lafi, S.** and Al-Rawashdeh, O. Sudden death of a heifer caused by bleeding from the reticular vein. *Canadian Veterinary Journal*, **34**: 698, 1993.

52. **Lafi, S. Q.** and Kaneene, J. B. An explanation of the use of principal-components analysis to detect and correct for multicollinearity. *Preventive Veterinary Medicine*, **13**: 261-275, 1992.
53. **Lafi, S. Q.** and Kaneene, J. B. Epidemiologic and economic study of the repeat breeder syndrome in Michigan dairy cattle: I. Epidemiological Modeling. *Preventive Veterinary Medicine*, **14**: 87-98, 1992.
54. **Lafi, S. Q.**, Kaneene, J. B., Black, J. R. and Lloyd, J.W. Epidemiologic and economic study of the repeat breeder syndrome in Michigan dairy cattle: II. Economic Modeling. *Preventive Veterinary Medicine*, **14**: 99-114, 1992.
55. **Lafi, S. Q.**, Kaneene, J. B. and Tasker, J.B. Predicting Medical College Admission Test (MCAT) Scores using Graduate Record Examination (GRE) Scores. *Journal of Veterinary Medical Education*, **17**: 38-45, 1990.
56. **Lafi, S. Q.** and Kaneene, J. B. Risk factors and associated economic effects of the repeat breeder syndrome in dairy cattle. *Veterinary Bulletin*, **58**:891-903, 1988.

#### **OTHER PUBLICATIONS**

Kaneene, J.B., Hurd, H.S., Miller A. and Lafi, S.Q. **The National Animal Health Monitoring System In Michigan, USA, Round 2, technical report, 1990.**

#### **CONFERENCES, SCIENTIFIC PRESENTATIONS & ABSTRACTS.**

1. 2<sup>nd</sup> Pan-Hellenic Congress of Food Animals, Hygiene and Safety, organized by the Greek Veterinary Society, in Thessaloniki from 18 - 20 March 2011. Keynote Lecture: Epidemiological studies of ovine and caprine toxoplasmosis and brucellosis in north-east Jordan.
2. 1<sup>st</sup> Consulting Workshop for Team of Experts of Avian and Pandemic Influenza. Cairo, Egypt, 3-7 June 2007. Organized by WHO.
3. 6<sup>th</sup> International Sheep Veterinary Congress, Hersonisos, Crete, Greece, July 17-21, 2005. Keynote lecture: **Use of somatic cell counts and California Mastitis Test results from udder halves milk samples to detect sub-clinical intra-mammary infection in Awassi sheep.**
4. Bacterial Contamination of Animal Feeds and the Human Health Consequences, Centers for Disease Control and Prevention, Atlanta, Georgia, USA. January 23, 2004.

5. Occasional Lecturer Program (Fulbright Program), Michigan State University Visit, USA November 24-27, 2003, seminar presentation for the Faculty members and Graduate Students “Epidemiological studies conducted in Jordan with emphasis on Ovine Brucellosis”.
6. Member of the scientific committee of the **6<sup>th</sup> International Sheep Congress, Hersonissos**, Crete, Greece, 14-17 June 2005.
7. **Lafi** Shawkat Q. Hailat and Turki I. Al-Suleiman (Obaidat), “Descriptive and Analytical Statistical Study of Parallel Program at Jordan University of Science and Technology”, Proceedings of the 23rd Conference on Registration and Admission at Arab Universities (ARAB-ACRAO), Amman- Jordan, April 2002.
8. **Lafi**, S.Q., N. Hailat and Falah Shidaifa. Reproductive Performance of Awassi sheep in the Northern Badia of Jordan. The 25 Arab Veterinary Conferences, Cairo, Egypt, 6-9 of May 2001. (Presentation and paper).
9. **Lafi**, S. Q. International Symposium on Prospects for Sustainable Dairy Sector in the Mediterranean. Hammamet-Tunisia, October 26-28, 2000. (Presentation: The Mast-O-Test and Mastop-H® in identifying and treatment of sub-clinical bovine mastitis in dairy cattle).
10. **The 1<sup>st</sup> International Conference on Sheep and Goat Diseases and Productivity**, Jordan University of Science and Technology, Faculty of Veterinary Medicine, Irbid-Jordan, October 23-25, 1999. (**Conference Secretary**).
11. **Lafi**, S. Q. and Hailat, N. Incidence and antibiotic sensitivity of bacteria causing bovine and ovine clinical mastitis in Jordan. The 24<sup>th</sup> Arab Veterinary Conference, Cairo, Egypt, 8-12 of May 1999. (Presentation and paper)
12. **The 4<sup>th</sup> Conference of the OFFICE INTERNATIONAL DES EPIZOOTIES (OIE)** Regional Commission for the Middle East, Amman-Jordan, 22-25 September 1997, as an observer.
13. **Lafi**, S.Q. and Fathalla. Artificial insemination in Awassi sheep using fresh diluted semen. *The 23 Arab Veterinary Conference*, Cairo, Egypt, 22- 27 of March 1997. (Presentation and paper).
14. **Lafi**, S. Q. Al-Majali, A. M., Rousan, M. D. and Alawneh, J. M. Epidemiological studies of clinical and subclinical ovine mastitis in Awassi Sheep in Northern Jordan. *2nd Jordanian Agricultural Conference*, Irbid, Jordan, april 29-30, 1997.
15. Nabil Hailat, A. Al-Darraji and **Lafi**, S. Q. Effects of plastic bags on the animal and human health, The 8th Arab Conference of Biological Sciences, Amman-Jordan. 1997. (**Presentation and Abstract**).

16. Dubai International Equine Symposium, Dubai, United Arab Emirates, 27-30 March 1996. (Attendance).
17. **Lafi, S.Q.**, Al-Rawashdeh, O. and Fathalla, M. Reproduction and production of Friesian dairy cattle in Jordan. *The 22 Arab Veterinary Conferences*, Cairo, Egypt, 19-23 of March, 1995. (**Presentation and paper**).
18. **Lafi, S.Q.**, Al-Rawashdeh, O. and Al-Sheyyab, Y. The Prevalence and causes of Mastitis in Jordan dairy cattle. *4th scientific meeting for the Jordanian Veterinary Medical Association*, Irbid, May 15, 1993. (**Presentation and Abstract**).
19. **Lafi, S.**, Al-Rawashdeh, O. and Al-Sheyyab, Y. The influence of heat stress and season of calving on conception rate and on milk production in Jordan dairy cattle. *1st scientific meeting for the Jordanian Veterinary Medical Association*, December 17-18, 1991. Jordan University of Science and Technology, Irbid-Jordan. (**Presentation and Abstract**).
20. **Lafi, S.Q.** and Al-Sheyyab, Y. Reproductive and production management of imported Friesian cows in Jordan, *Dairy Herds Cooperation of Irbid, Jordan* October 19,1990. (**Presentation and Abstract**).
21. **Lafi, S.Q.** and Kaneene, J.B. Economic analysis of repeat breeder cow syndrome and other related diseases. *70th Annual Research Workers in Animal Disease Conference*, November 6-7, 1989, Chicago, Illinois, USA. (**Presentation and Abstract**).
22. **Lafi, S.Q.** and Kaneene, J.B. Epidemiological modeling of repeat breeder cow syndrome in Michigan dairy cattle. *70th Annual Research Workers in Animal Disease Conference*, November 6-7, 1989, Chicago, Illinois, USA. (**Presentation and Abstract**).
23. **Lafi, S.Q.** and Kaneene, J.B. Multicollinearity problem in veterinary epidemiology research. *70th Annual Research Workers in Animal Disease Conference*, November 6-7, 1989, Chicago, Illinois, USA. (**Presentation and Abstract**).
24. **Lafi, S.Q.** and Kaneene, J.B. Application of factor analysis and path model in studying risk factors associated with the occurrence of repeat breeder cow syndrome in dairy cattle. *69th Annual Research Workers in Animal Disease Conference*, November 14-15, 1988, Chicago, Illinois, USA. (**Presentation and Abstract**).

## RESEARCH GRANTS

1. Hailat N. Q., Al-Qudah , K., **Lafi, S. Q.**, Khamas W. A., Shidafat, F., Al-Atar, M. Improving and Sustaining Veterinary Education, Services and Research in Jordan. Higher Education Development Fund (HEDF) World Bank (**\$625,000.00**) 2002-2005.
2. **Lafi S. Q.**, Hailat N. Q., Shidafat, F., Ababneh, M, A. Improving Awassi Sheep Productivity by using Frozen Semen in Jordan, Egypt and Palestinian Authority. Project number INT/01/K02/A/95/99. United Nation Development Program (**\$110,000.00**), 2002-

2005.

3. **Lafi, S. Q.** (Leader), Orhan, A., Al-Qudah, K. and Ijaz, A. Identification and Remedies of Constraints in Dairy Herds and Productivity. The Higher Council for Science and Technology, Jordan (JD 30,000). 2000-2002; JD 1 = \$1.42.
4. **Lafi, S. Q. (Leader)**, Ijaz, A., Orhan, A., Medhet F., and Al-Darraji, A. Jordan Badia Research and Development Program (JD 22,500). 1999-20029.
5. **Lafi, S. Q.** (Leader), Babaker Al-Haj Ali and Qamer Y. Saleh. Epidemiological studies on foot and mouth disease in sheep in Jordan (JD 2,950) No 158/2000. Deanship of Scientific Research, Jordan University of Science and Technology.
6. **Lafi, S.Q. (Leader)** and Fathalla, M. Artificial Insemination in Awassi Sheep (JD 530) No. 33/95. Deanship of Scientific Research, Jordan University of Science and Technology.
7. Al-Darraji, A., Hailat, N., Al-Ani, F. and **Lafi, S.Q.** The effect of experimentally induced plastic ingestion on the health states of Awassi Sheep (JD 5,000) No. 39/95. Deanship of Scientific Research, Jordan University of Science and Technology.
8. Al-Rawashdeh, O., **Lafi, S.Q.**, Ereifej, K. and Al-Sheyyab, Y. Subclinical Ketosis: prevalence, economic impact and associations with reproductive diseases and production in Jordan dairy Holstein- Friesian cows. (JD 3,000) No.12/91. Deanship of Scientific Research, Jordan University of Science and Technology.
9. **Lafi, S.Q. (Leader)**, Al-Rawashdeh, O.F., Ereifej, K., Al-Sheyyab, Y. and Hailat. N. The epidemiological and the economic modeling of reproductive and production diseases in Jordan dairy cattle. I. The case of mastitis. (JD 3,000) No. 21/91. Deanship of Scientific Research, Jordan University of Science and Technology.
10. **Lafi, S.Q. (Leader)**, Al-Rawashdeh, O.F. and Ereifej, K. Farm Planning and decision making process of the repeat breeder cow syndrome in Jordan dairy cattle. (JD 3,000) No.9/91. Deanship of Scientific Research, Jordan University of Science and Technology.
11. Ijaz Ahmed, **Lafi, S. Q.** and Abdel-Rahman Talafha. Studies on Rectal Palpation, Ultrasonography, and Biological Tests for Pregnancy Diagnosis in Arabian Mares.(JD 6,200) No. 31/98. Deanship of Scientific Research, Jordan University of Science and Technology.
12. **Lafi, S. Q. (Leader)** and Ijaz Ahmed. Puerperium Clinical and Sub-Clinical Mastitis in primiparous Awassi Sheep in Jordan (JD 2,300) No. 78/99. Deanship of Scientific Research, Jordan University of Science and Technology.

## REFERENCES

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مواضيع دورة تحليل البيانات إحصائياً باستعمال برنامج الإحصاء SPSS  
أ.د. شوكت لافي هيلات

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1. Introduction to Applied Statistics, Applications, Definitions and Types.
2. Variables (Nominal, Scale, Ordinal, Interval and Ration).
3. Samples techniques and distributions
4. Questionnaire; variables classification and Coding.
5. SPSS (Data Files, Entry, Correction, Print, Edit, Delete Variables, Delete Cases, Copy and Move, View, Insert Variable and Case, Go to Case, Find Variable and Case, Sort Variable, Split and Merge Files...etc).
6. Data Transformation and Normalization.
7. Analyses of Nominal Variables (Chi-Squared and measurement agreement tests).
8. Quantitative Variables (Explore, Normality Tests, Graphics; histogram, Pie etc).
9. Testing the Hypotheses, T-Test (One sample, Two Independent Samples, Paired Samples).
10. Analysis of Variance (ANOVA); One, Two and Three Ways Analysis of Variance).
11. Linear Correlation Analysis (Partial, Pearson),
12. Linear Regression (Simple, Multiple and Stepwise).
13. Spearman and all the (Non-Parametric Tests).
14. Spearman and all the (Non-Parametric Tests).
15. Non-Parametric Statistical Tests.
16. Logistic Regression (Simple, Multiple and Stepwise).
17. Univariate and multivariate GLM

18. Analysis of Repeated Measures (GLM)
19. Cluster, principle components and factor analysis
20. Case study (survey example)