

JACK D. SOBEL, M.D.

ACADEMIC OFFICE:

Harper University Hospital
Division of Infectious Diseases
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PATIENT OFFICE:

3730 Woodward – Ste 200
Detroit, MI 48201
313-966-7601 – office

PERSONAL DATA:

October 3, 1942
Married - Audrey, 1965
Children - Lauren
 Ryan
 Adam

EDUCATION:

1965 MBBCh Degree, University of the Witwatersrand, Johannesburg, South Africa

POSTGRADUATE TRAINING:

01/66 - 06/66 Intern in Internal Medicine, Johannesburg General Hospital, Johannesburg, South Africa
07/66 - 12/66 Intern in Surgery, Johannesburg General Hospital, Johannesburg, South Africa
01/67 - 09/67 Medical Officer, South African Defense Force
10/67 - 06/68 Resident in Pediatrics, Johannesburg Children's Hospital, Johannesburg, South Africa
1968 - 1970 Resident in Internal Medicine, Baragwanath Hospital, Johannesburg, South Africa
01/71 - 06/71 Resident in Cardiology, Rambam University Hospital, Haifa, Israel
07/71 - 12/72 Resident in Internal Medicine, Rambam University Hospital, Haifa, Israel
1976 - 1977 Research Fellow in Infectious Diseases, Laboratory of Clinical Investigation, National Institute of Allergic and Infectious Diseases, NIH, Bethesda, MD
1977 - 1978 Fellow in Infectious Diseases, The Medical College of Pennsylvania, Philadelphia, PA

FACULTY APPOINTMENTS:

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1973 - 1976 Assistant Professor of Medicine, Full-Time Lecturer, Department of Internal Medicine, Technion School of Medicine, Haifa, Israel

1978 - 1979 Assistant Professor of Medicine, The Medical College of Pennsylvania, Philadelphia, PA

1981 - 1985 Associate Professor of Medicine, Division of Infectious Diseases, The Medical College of Pennsylvania, Philadelphia, PA

1985 - Present Professor of Medicine, Department of Internal Medicine, Wayne State University School of Medicine, Detroit, MI

1987 - Present Professor, Department of Immunology and Microbiology, Wayne State University School of Medicine, Detroit, MI

1989 - Present Professor, Department of Obstetrics and Gynecology, Wayne State University School of Medicine, Detroit, MI

2008 – Present Distinguished Professor of Medicine, Department of Internal Medicine, Wayne State University School of Medicine, Detroit, MI

2009 – Present Associate Chairman for Research, Department of Internal Medicine

HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS:

1978 - 1979 Section Chief, Infectious Diseases, VA Hospital, Philadelphia, PA

1979 - 1981 Chief, Infectious Diseases, Rambam Medical Center, Technion Medical School, Haifa, Israel

1985 - Present Chief, Infectious Diseases, Hutzel Hospital, Detroit, MI

1985 - Present Chief, Division of Infectious Diseases, Wayne State University School of Medicine, Detroit, MI

1987 - Present Chief, Infectious Diseases, Harper Hospital, Detroit, MI

MAJOR PROFESSIONAL SOCIETIES:

Fellow, American College of Physicians, 1983

Fellow, American Society of Infectious Diseases, 1987

Member, American Society of Microbiology, 1976

Member, American Federation of Clinical Research, 1986

Member, Wayne County Medical Society & Michigan State Medical Society, 1986

Member, American Medical Association, 1986

Member, Michigan Infectious Diseases Society, 1985

Member, National Institutes of Health Alumni Association, 1988

Member, Mycosis Study Group (MSG), NIAD, National Institutes of Health, 1991

Member, International Society for Human and Animal Mycology (ISHAM), 1991

President, Michigan Infectious Diseases Society, 1997 - 1999

Member, Infectious Diseases Society of America, National State President's Committee, 1998-present

Member, Infectious Diseases Society of America, Practice guidelines Committee, 1999-

Present

Member, International Society for the Study of Vulvovaginal Disease (ISSUD), 2007-present

MEDICAL LICENSURE:

Licensure - States of Maryland, Pennsylvania and Michigan

BOARD CERTIFICATION:

Fellow, College of Physicians South Africa, 1970

Member, Royal College of Physicians of the United Kingdom, 1970

Diplomate, American Board of Internal Medicine, 1978

Diplomate, Infectious Diseases, 1982

HONORS/AWARDS:

Graduated from Medical School, University of Witwatersrand with honors.

Suzman Gold Medal (1970) awarded to the most outstanding medical resident performance in the Fellow of the College of Physicians (South Africa) examination (Boards to Internal Medicine).

Golden Apple Award from third year class. Award for best clinical teacher in Medical School Clinical Faculty for third year, The Medical College of Pennsylvania (1979).

Medical House Staff Annual Award for Excellence in Clinical Teaching (1984/1985). The Medical College of Pennsylvania

Distinguished Faculty Award, Department of Internal Medicine (1986/1987), Wayne State University

2004 School of Medicine Teaching Award

Nomination to the Provost's Office WSU Distinguished Faculty Fellowship, 2004

Best Doctors in America Award, 1992, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008

Gershenson Distinguished Faculty Award, WSU, 2008

SERVICE:

Wayne State University/DMC:

1985-1988 V.A. Research and Development Committee (Deans representative)

1985-1995 Chairman, Pharmacy and Therapeutic Committee, Hutzel Hospital

1985-present Affiliated Internists Board of Directors (formally University Internists)

1985-1988 Detroit Medical Center IOAD

1986-present Michigan Infectious Diseases Society

1986 Chairman, WSU Search Committee for New Chairman of Department of Surgery

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- 1986 Member of Dean's Building Committee
- 1985-1988 Credentials Committee, Hutzel Hospital
- 1988-1990 Executive Committee DMC Joint Venture Laboratory
- 1988-1991 Advisory Committee Damon Laboratory
- 1989-present Promotion and Tenure Committee, Dept. of Medicine, WSU
- 1989-1990 Search Committee for Chairman Department of Obstet. Gynecol.
- 1991 Sabbatical Leave Committee, Wayne State University
- 1991 Chairman of Promotion and Tenure Committee, Department of Medicine, WSU
- 1991-1992 Chairman of the LCME, Department of Surgery Review Committee, WSU School of Medicine
- 1991-1994 Executive Committee of Faculty Senate, WSU School of Medicine
- 1991-1994 Executive Subcommittee on Faculty Tenure, WSU School of Medicine
- 1992-1994 Chairman, Executive Subcommittee on Year III & IV Curriculum
- 1992-1993 Chairman, Ad Hoc TB Committee for the Detroit Medical Center
- 1993-1994 Chairman, Search Committee for Pulmonary Division Chief, Department of Internal Medicine
- 1995-1996 Chairman, Educational Task Force on Year III & IV Curriculum
- 1998-2000 Search Committee for Chairman, Department of Dermatology
- 1998 Department of Surgery, Wayne State University, 5 Year Internal Review
- 2001 Wayne State University Task Force for Conflict of Interest in Research
- 2001-present Chair, Committee for Department of Internal Medicine Medical Records
- 2002-2003 CEO, University Research, Inc. (URNI)
- 2002-2003 Member, HIPAA Committee (WSU School of Medicine)
- 2002-2006 Chairman, Search Committee for Chief, Division of Hematology/Oncology
- 2005 Member, Immunology/Microbiology Departmental Review Committee
- 2004-2006 Member, Wayne State University School of Medicine Dean Search Committee
- 2006-2007 Member of the Wayne State University Clinical Trial Office (CTO) Committee (Chaired by N. Rossi)**
- 2006-2007 Member of the Department of Medicine – Medical Education Committee (Chaired by S. Badr)**
- 2006-2008 Member of ad hoc Committee WSU Task Force on Clinical Research (Chaired by J. Oliver)**
- 2006-2008 Member, Karmanos Cancer Institute Clinical Leadership Council**
- 2006-present Member, Research Committee, Department of Internal Medicine.**
- 2006-present Member, Detroit Medical Center Research Grant Committee**
- 2006-present Member, Clinical and Translational Science Award (CTSA) Planning and Strategic Committee (Chaired by M Diamond)**
- 2008-present Member, WSU Advisory Working Committee for CTSA**

SCHOLARLY SERVICE:

EDITORIAL BOARDS

- 1985-1989 Sexually Transmitted Diseases
1991-1993 Infection and Immunity
1991-Present Mycology Review
1994-Present Newsletter of Columbia University School of Public Health, Scientific studies of Alternative Medicine
1995-Present Associate Editor: Infectious Diseases in Obstetrics and Gynecology
2001-Present Editorial Board: Sexually Transmitted Infections
2001-Present Editorial Board: BioMed Central

CONSULTANT:

Centers for Disease Control and Prevention, Special Committee for recommending Guidelines for treatment of Sexually Transmitted Diseases, 1993 and 1997, 2000, 2009

JOURNAL REVIEWER (Ad Hoc)

American Journal of Medicine
American Journal of Obstetrics and Gynecology
Annals of Internal Medicine
Antimicrobial Agents and Chemotherapy
Infection and Immunity
Journal of Infectious Diseases
Medical Mycology
New England Journal of Medicine
Obstetrics and Gynecology
Reviews of Infectious Disease

TEACHING:

Mentoring (2008):

1. Zainab Shahid, M.D., Resident (2006-07)
2. Dr Orna Reichman, I.D./Gyn Fellow (2007-09)
3. Sarah Kabbani, M.D., Resident, (2008-09)
4. Teena Chopra, M.D, Fellow (2008-09)

2008 Lectures

1. I.D. Grand Rounds, Harper University Hosp, Detroit, MI, (Students, residents, fellows, attendings)
2. Infectious Diseases Clinical Consult Rounds, (Students, residents, fellows)
3. Infectious Disease Tutorial Lectures, (Residents and students)
4. Infectious Disease Research Conference, (Students, residents, fellows, attendings)

5. Grand Rounds, William Beaumont Hospital 1/31, (Students, residents, fellows, attendings)
6. Astellas Meeting, "Antifungals", Deerfield, IL (Astellas) 2/14, (ID attendings)
7. Hospitalist Lecture, "STDs", Detroit Receiving, 3/13, (Hospitalists)
8. 5th World Vaginitis Conference, "Research Advances in VVC", Turkey, 5/1
9. Ob/Gyn Society of Colombia "VVC and BV", Colombia 5/29
10. MSMS Lecture, "STD's", CME Symposium, Annual Update, 10/22, (Primary Care Physicians)
11. ICAAC/IDSA Meeting, Plenary Session, "Echinocandins", 10/25, (I.D. Specialists)
12. Lecture at Henry Ford Hospital, "Sexually Transmitted Diseases", Detroit, 11/6, (I.D. Faculty)
13. Lecture at the University of Mississippi, "Infectious Vaginitis", 11/7, (I.D. Physicians)
14. WSU New faculty orientation lecture, "Research Environment" 11/13, (General Junior Faculty)
15. NIH, Opening Plenary Session, "BV", 11/20, (Research specialists, Epidemiologists)
16. Didactic Lecture, "UTI", 11/24, Residents and interns

GRANTS, CONTRACTS AND OTHER FUNDING:

- | | |
|---------------------|---|
| 1982 - 1983 | Ketoconazole cyclical prophylaxis in prevention of Recurrent vulvovaginal candidiasis. Janssen Pharmaceutica - \$25,000. |
| 09/01/83 - 06/30/87 | Bacterial adherence in pathogenesis of urinary tract infections in elderly. National Institute of Aging - Program Project Grant, Philadelphia Geriatric Center, Medical College of Pennsylvania. P.I. Donald Kaye. - \$25,000/year x 3 years. |
| 1984 - 1985 | Maintenance prophylaxis in recurrent vulvovaginal candidiasis. Janssen Pharmaceutica - \$30,000. |
| 10/01/86 - 1988 | Double Blind Safety and Efficacy Evaluation of 0.8% and 1.6% Terconazole Cream vs. Placebo Cream for 3 days in patients with Vulvovaginal Candidiasis. Ortho Pharmaceuticals, Inc. - \$21,960. |
| 09/01/87 - 06/01/89 | Comparison of Oral Ketoconazole Tablets to Vaginal Clotrimazole Tablets in Chronic or Recurrent Vulvovaginal Candidiasis. Janssen Pharmaceuticals - \$40,000. |
| 10/07/87 - 03/01/89 | Itraconazole Capsules in the Treatment of Acute Vulvovaginal Candidiasis. Janssen Pharmaceuticals - \$21,735. |

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- 05/01/88 - 12/30/89 Double-blind study to compare the in vivo effects of monistat 7 vaginal cream and terazol 0.4% vaginal cream and placebo cream on vaginal flora in patients with vulvovaginal candidiasis. Ortho Pharmaceutical Corp. - \$65,595.
- 06/01/88 - 12/01/90 Clindamycin Vaginal Cream vs. Placebo Vaginal Cream in the Treatment of Bacterial Vagnosis. UpJohn Company - \$35,000.
- 01/01/90 - 12/01/90 Sch. 39,304 versus placebo, oral therapy of acute *candida* vaginitis. Schering Pharmaceuticals - \$60,000.
- 05/01/90 - 06/01/91 Evaluation of Intravaginal Metronidazole Gel vs. Intravaginal Sultrin Cream for the Treatment of Bacterial Vaginosis. Curatek Pharmaceuticals - \$22,500.
- 07/01/90 - 12/31/92 Double Blind Evaluation of Replens & Placebo in the Prevention of Recurrence of Bacterial Vaginosis. Columbia Research Laboratories - \$57,800.
- 12/01/90 - 12/31/91 Safety and Efficacy Comparison Study of a Saperconazole 60 mg Ovule or 120 Ovule vs Clotrimazole 500 mg Tablet. R.W. Johnson Pharmaceutical Research Institute - \$31,959.78.
- 01/01/91 - 12/31/91 Evaluation of Safety and Efficacy of Vagisil Cream in Women Having an Acute Yeast Infection. Combe Incorporated - \$15,000.
- 07/01/91 - 12/31/92 Open, Comparative Multi-centered study of Fluconazole versus Amphotericin B in the Treatment of Candidemia in Non-neutropenic Patients. Pfizer Pharmaceuticals - \$90,588.60.
- 10/01/91 - 09/30/93 A Randomized Double Blind Protocol comparing Amphotericin B with Flucytosine to Amphotericin B alone followed by a Comparison of Fluconazole and Itraconazole in the Treatment of Acute Cryptococcal meningitis. A Multicenter Trial of the AIDS Clinical Trials Group and the Mycoses Study Group. Janssen Research Foundation and The National Institute of Allergy and Infectious Diseases - \$106,932.00.
- 11/01/91 - 10/31/92 A Prospective Multicenter Randomized Comparison of Fluconazole and Placebo in the Treatment of Funguria. Pfizer Pharmaceuticals and Barton/Polansky Associates Inc. - \$51,662.00.

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- 06/05/91 - 02/28/92 Fluconazole versus Clotrimazole in the treatment of candidal vaginitis. Pfizer Pharmaceuticals - \$40,000.
- 10/01/91 HER Study, "HIV Epidemiological Cohort", Principal Investigators-P. Schuman, and JD Sobel, Centers for Disease Control, - \$1,100,000 annual budget.
- 05/01/92 - 04/30/93 Safety and Efficacy of 0.75% Metronidazole Vaginal Gel for the Treatment and Prevention of Recurrent Bacterial Vaginosis. Curatek Pharmaceuticals - \$24,503.
- 05/01/92 - 04/30/93 Double-Blind, Randomized, Comparative Study of Itraconazole and Fluconazole as Maintenance Therapy for Preventing Relapse of AIDS-Related Cryptococcal meningitis. Janssen Research Foundation - \$32,096.
- 09/01/92 - 08/31/93 Efficacy of Clindamycin vaginal cream prophylactic treatment regimen to prevent recurrent Bacterial Vaginosis - A Randomized, placebo-controlled trial. Upjohn Company - \$80,720.
- 10/01/92 - 09/30/93 Funguria Surveillance Project. Duke University Medical Center - \$12,500.
- 04/01/93 - 09/30/93 A Multi-Center prospective, randomized, double-blind parallel group comparison of the Clotrimazole 3-day treatment regimen (5 grams of Clotrimazole 2% cream daily for 3 days). Miles Inc. - \$19,540.
- 10/01/93 - 09/30/94
Renewed 10/01/94 - Candidiasis in HIV positive and matched HIV-negative women. HER Study Subcontract. Centers for Disease Control. P.I. J.D. Sobel, \$75,000/annum.
- 05/01/94 - 95 A Multicenter Study to evaluate the safety and efficacy of various doses of AR-121 in non-neutropenic patients with Candidemia. Argus Pharmaceuticals, Inc. P.I. J.D. Sobel - \$120,000.
- 12/01/94 - An open, comparative multicenter study of Fluconazole vs. Fluconazole plus Amphotericin B in the treatment of Candidemia and its consequences in non-neutropenic patients. Pfizer Research Laboratories, P.I. J.D. Sobel - \$39,237.
- 11/15/94 - 98 A randomized double blind Multicenter study comparing two dosing regimens of Fluconazole for the treatment of acute vaginal candidiasis in women with severe and/or recurrent infections. Pfizer Research

Laboratories, P.I. J.D. Sobel - \$17,417.

- 10/01/94 - 97 Efficacy of Clindamycin Vaginal Ovule (3 day treatment) versus Clindamycin vaginal cream (7 day treatment) in Bacterial Vaginosis. The UpJohn Company, P.I. J.D. Sobel - \$30,090.
- 08/95 - 98 A randomized, double blinded, placebo-controlled trial of the presumptive use of fluconazole in febrile intensive-care unit patients at risk for fungal infections. Pfizer, Inc., P.I. J.D. Sobel - \$65,062.50.
- 05/95 - 6/97 An open-label, two center study of the efficacy and safety of four dosing regimens of 5% boric acid vaginal gel for the treatment of symptomatic yeast vulvovaginitis. Curatek Pharmaceuticals, P.I. J.D. Sobel - \$14,712.
- 06/95 - 4/98 A randomized, double-blind, comparative trial of two doses of ambisome versus Amphotericin B followed by fluconazole in the treatment of acute cryptococcal meningitis in AIDS patients. Fujisawa U.S.A., Inc., P.I. J.D. Sobel - \$220,000.
- 12/96 - 98 A Phase IV Randomized Study of the use of fluconazole as chronic suppressive therapy versus episodic therapy in HIV-positive subjects with recurrent oropharyngeal candidiasis. Pfizer, Inc., P.I. J.D. Sobel - \$66,200.
- 03/96 - 98 An open comparative multicenter study of intravenous itraconazole followed by itraconazole oral solution versus intravenous fluconazole followed by oral fluconazole tablets in the treatment of candidemia in non-neutropenic patients. Janssen Pharmaceutica, Inc. P.I. J.D. Sobel - \$50,700.
- 04/96 - 97 Dose escalating and safety evaluations of topical clonidine in patients with vulvodynia. Curatek Pharmaceuticals, P.I. J.D. Sobel - \$16,263.00.
- 05/96 – 12/98 CAN-296 *Candida* Research, IGG International, Inc. P.I. J.D. Sobel - \$50,000.00.
- 04/97 -01 A randomized, double-blind multicenter study comparing fluconazole vs. placebo for the maintenance/prophylactic therapy of vaginal candidiasis in women with recurrent infections. Pfizer, Inc. P.I. J.D. Sobel - \$117,915.00.
- 6/98 - 6/99 Cromolyn-sodium 4% therapy of vulvovestibulitis in women Placebo Controlled. (Unfunded).

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- 10/99 - 00 Cromolyn-sodium 4% as therapy for pruritus vulvae. Persutti Laboratories, P.I. J.D. Sobel - \$50,000.00.
- 01/00 - 04 Metronidazole-gel in treatment of recurrent bacterial vaginosis. 3 M Pharmaceuticals, P.I. J.D. Sobel - \$400,000.00.
- 01/03- Team leader of NIAID/MSG Study Group for the Treatment of Fungal Infections in Non-Immunocompromised Hosts. Salary Support - \$75,000/annum.
- 2004-2005 Johnson & Johnson. Focused giving grant. PCR-based analysis of dynamic changes in vaginal bacteriophage and bacterial species in women with recurrent bacterial vaginosis. (\$80,000/yr x 2 yrs) P.I.
- 2004 Pfizer Research Award. An analysis of voriconazole resistance mechanisms using a high copy plasmid transformation system in *Candida albicans*. (\$20,000) P.I.
- 1/04 – 12/04 Rocheby Biomedical Corp. Ltd. Assessment of clinical performance SysCan3 ELISA and CamDea5 as aids in the diagnosis of VVC. (\$15,000) P.I.
- 4/04 – 5/05 PPD Development. LP Protocol #BT0300C1-300-USA. A multi-center, randomized, double-blind comparative safety and efficacy study of a single dose of 400 mg itraconazole given as 2 200 mg film-coated tablets vs. a single dose of 150 mg fluconazole. (\$11,116) P.I.
- 7/04 – 6/05 Pliva. PLD-118. Antifungal activity of PLD-118 against *Candida albicans*: conditions for susceptibility, synergy, and identification of resistance genes.. (\$51,000) P.I.
- 9/04 – 8/05 Abbott Research Group. Protocol #ARG604. A clinical study of treatment of symptomatic bacterial vaginosis with water works douching device versus non-treatment. (\$7,379) P.I.
- 8/04 – 7/06 Merck. Protocol #2-01-MK0991. A randomized double blind placebo controlled trial of caspofungin vs. placebo as prophylaxis of invasive candidiasis in high risk adults in the critical care. (\$61,258) P.I.
- 1/05-12/06 Presutti Laboratories. LLC T-500. A phase 3 randomized, multi-center, double-blind, double-dummy, placebo-controlled treatment trial of bacterial vaginosis with tinidazole oral tablets. (\$10,070) P.I.

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- 9/05 – 8/08 Michigan Development Corp MTTC. Microfluids PCR Diagnosis of Fungal Infections”. (\$955,257) P.I.
- 9/05 – 9/07 R03, Fujisawa Healthcare Inc, “A Phase 3 Randomized Double Blind Comparative Study” (\$46,250), Co-PI
- 8/06-8/07 “A randomized prospective single –blinded multicenter comparison study of the Water Works Douching Device versus a commercially available over-the-counter douching device for the reduction or abatement of perceived vaginal odor with or without complaints of discharge in women.”, (\$5,750), PI
- 7/06-12/06 “Non-toxic gel to treat vulvovaginal candidiasis”, (\$8,515), PI
- 9/07-9/08 Toltec Pharmaceuticals, “Infectious Diseases in Obstetrics and Gynecology”, (\$50,000), PI
- 10/07-9/09 Merck, “PCR based models to monitor the efficacy of prophylactic use of Caspofungin in high risk intensive care patients”, (\$72,800), PI
- 2/08-1/09 Anacor Pharmaceuticals, “Experimental Candida vaginitis in rats”, (\$15,888), PI
- 12/08 Merck, “Caspofungin for experimental vaginal candidiasis in rats”, (\$5,000)
- 1/09 Common Sense, “VS-Sense swab in diagnosis of vaginitis,” (\$10,000)
- 1/09 “PCR-Diagnosis of chlamydia infections in women with idiopathic vestibulitis and pseudoinflammatory ectopion”.

PUBLICATIONS:

Reports of Original Work

1. Sobel JD, Fanaroff A: Cytomegalovirus infection and elevated alkaline phosphatase. *Lancet*, September 1968.
2. Pimstone B, Sobel JD, Meyer E: Diencephalic syndrome of childhood - secretion of growth hormone. *J Pediatr* 76:886-889, 1970.
3. Sobel JD, Haim S, Shafir A, Gellei B: Cutaneous hyper-reactivity in Behcet's disease. *Dermatologica* 146:350-356, 1973.
4. Sobel JD, Tabori S, Tatarski I: Venous thrombosis and fibrinolysis in Behcet's diseases. *Dermatologica* 148:93-97, 1974. Chosen for review in *22nd Rheumatism Review*, 1975, and *Dermatology Digest*, 1974.
5. Sobel JD, Obedeau N, Merzbach D: NBT in the diagnosis of febrile patients (study of 300 patients). *S African Med J* 47:1407-1409, 1973.
6. Haim S, Sobel JD, Friedman R: Thrombophlebitis - a cardinal sign in Behcet's disease. *ACTA Dermatovener (Stockholm)* 54:299-301, 1974.
7. Sobel JD, Haim S: Fibrinolytic agent in the treatment of Behcet's disease. *La Revue de Medicine*, 1974.
8. Haim S, Sobel JD, Friedman R, Lichtig C: Histological and direct immunofluorescence study of cutaneous hyper-reactivity in Behcet's disease. *Br J Dermatol* 95:631-635, 1976.
9. Sobel JD, Haim S, Obedeau N, Meshulam T, Merzbach D: Polymorphonuclear leukocyte function in Behcet's disease. *J Clin Path* 30:35-353, 1976.
10. Haim S, Makori T, Sobel JD, Robinson E: Lymphocyte function in Behcet's disease. *Dermatologica* 53:34-37, 1976.
11. Sobel JD, Gallin JI: Polymorphonuclear and mononuclear cell chemoattractants elaborated by human skin fibroblasts. *J Clin Invest* 63:609-618, 1979.
12. Sobel JD, Tchao R, Bazzola J, Levison ME, Kaye D: Human vaginal multilayer tissue cultures - a new method for study. *In Vitro* 15:993-1000, 1979.

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13. Sobel JD, Levison ME, Kaye D: Role of menstrual cycle in bacterial adherence to vaginal epithelial cells. *Infect Immun* 32:194-197, 1981.
14. Sobel JD, Myers P, Levison ME, Kaye D: *C. albicans* adherence to vaginal epithelial cells. *J Infect Dis* 143:76-82, 1981.
15. Sobel JD, Kaye D, Levison ME: Comparison of bacterial and fungal adherence to exfoliative cells and tissue culture system. *Infect Immun* 35:697-701, 1982.
16. Sobel JD, Kaye D, Levison ME: BAY K 4999 - *in vitro* activity against enterobacteriaceae and pseudomonas. *Infect* 8:121-122, 1980.
17. Sobel JD, Hasman N, Reinartz G, Merzbach D: Pseudomonas cepacia contamination of chlorhexidine antiseptic. *Am J Med* 73:183-186, 1982.
18. Sobel JD, Vardi Y: Scanning electron microscopy study of pseudomonas adherence to rat bladder. *J Urol* 128:414-417, 1982.
19. Vardi Y, Sobel JD: *In vivo* adherence of *Pseudomonas aeruginosa* to rat bladder epithelium. *Proc Soc Exp Biol Med* 172:449-456, 1983.
20. Sobel JD, Muller G: Comparison of ketoconazole, BAY N7133, and BAY L9139 in the treatment of experimental vulvovaginitis. *Antimicrob Agents Chemother* 24:434-436, 1983.
21. Sobel JD, Obedeanu N: The effect of subinhibitory concentrations of ketoconazole on adherence of *Candida albicans*. *Eur J Clin Microbiol* 2:445-452, 1983.
22. Raz R, Merzbach D, Sobel JD, Finkelstein R: Absence of *S. saprophyticus* in urinary tract infections in Israel. *Israel J Med Sci* 19:566-567, 1983.
23. Sobel JD, Muller G: Ketoconazole prophylaxis in experimental vaginal candidiasis. *Antimicrob Agents Chemother* 25:281-282, 1984.
24. Sobel JD, Obedeanu N: Hydrophobicity and adherence of gram negative bacteria. *Ann Clin Lab Sci* 14:216-223, 1984.
25. Sobel JD, Muller G, Buckley H: Critical role of germination in the pathogenesis of experimental candidal vaginitis. *Infect Immun* 44:576-580, 1984.
26. Meshulam T, Obedeanu N, Merzbach D, Sobel JD: Phagocytosis of mucoid and nonmucoid

- pseudomonas. Clin Immunol Immunopath 32:151-165, 1984.
27. Sobel JD, Muller G: Comparison of itraconazole and ketoconazole in experimental vulvovaginal candidiasis. Antimicrob Agents Chemother 26:266-267, 1984.
 28. Sobel JD, Muller G: Vaginal cells susceptibility to adherence in pathogenesis of urinary tract infection in the elderly. Gerontol 38:682-685, 1984.
 29. Finkelstein R, Sobel JD, Nagler A, Merzbach D: *Staphylococcus aureus* bacteremia and endocarditis: comparison of nosocomial and community-acquired infection. J Med 193-210, 1984.
 30. Sobel JD: Management of recurrent vulvovaginal candidiasis with intermittent ketoconazole prophylaxis. Obstet Gynecol 65:435-440, 1985.
 31. Sobel JD, Muller G, McCormick JF: Experimental vaginal candidosis in rats. Sabouraudia 23:199-206, 1985.
 32. Sobel JD, Kaye D: Reduced uromucoid excretion in the elderly. J Infect Dis 152:653, 1985.
 33. Reinhart H, Muller G, Sobel JD: Specificity and mechanism of *in vitro* adherence of *Candida albicans*. Ann Am Lab Sci 15:406-413, 1985.
 34. Trumbore DJ, Sobel JD: Recurrent vulvovaginal candidiasis: Vaginal epithelial cell susceptibility to *Candida albicans* adherence. Obstet Gynecol 67:810-812, 1986.
 35. Sobel JD, Kaye D: Enhancement of *Escherichia coli* adherence to epithelial cells derived from estrogen stimulated rats. Infect Immun 53:53-56, 1986.
 36. Buckley HR, Daneo-Moore L, Ahrens JC, Sobel JD: Isolation of a germ-tube-forming revertant from *Candida albicans* B3111V6. Infect Immun 53:13-15, 1986.
 37. O'Conner MI, Sobel JD: Epidemiology of recurrent vulvovaginal candidiasis: identification and strain differentiation of *Candida albicans*. J Infect Dis 154:358-361, 1986.
 38. Edman J, Sobel JD: Zinc status in women with recurrent vulvovaginal candidiasis. Am J Obstet Gynecol 155:1082-1085, 1986.
 39. Sobel JD: Recurrent vulvovaginal candidiasis: a prospective study of the efficacy of maintenance ketoconazole therapy. N Engl J Med 315:1455-1458, 1986.

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40. Sobel JD, Kaye D: The role of bacterial adherence in urinary tract infections in the elderly. *J Gerontology* 42:29-32, 1987.
41. Sobel JD, Schmitt CA, Meriwether C: Clotrimazole treatment of recurrent chronic *Candida* vulvovaginitis. *Obstet Gynecol* 73:330-334, 1989.
42. Komshian SV, Uwaydah AK, Sobel JD, Crane LR: Fungemia caused by *Candida* species and *Torulopsis glabrata* in the hospitalized patient: Frequency, Characteristics, and Evaluation of Factors Influencing Outcome. *Rev Inf Dis* 11(3):379-390, 1989.
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