

CIRRICULUM VITAE

Date of Revision: October 17, 2020

Name: David Hesse, M.D.

Proposed for Promotion to: Associate Professor, Department of Urology, Clinical Track

Term: July 1, 2020 – June 30, 2025

School: Yale University School of Medicine

Reason for Promotion:

Education:

B.A. Brandeis University (General Science) 1979
M.D. University of New Mexico School of Medicine 1984

Career/Academic Appointments:

1984-85 Intern, General Surgery, The New York Hospital-Cornell Medical Center
1985-86 Junior Assistant Resident, General Surgery, The New York Hospital-Cornell Medical Center
1986-87 Clinical Research Fellow, Cornell University Medical College
1987-90 Resident, Urology, The New York Hospital-Cornell Medical Center, Memorial Sloan Kettering Cancer Center
1990-91 Chief Resident, Urology, The New York Hospital-Cornell Medical Center
1991-2013 Physician, The Urology Center, PC, New Haven, CT
1991-Present Attending Physician, Urology, Yale-New Haven Hospital
2013-18 Physician, Yale Medical Group, New Haven, CT
2018-Present Clinical Assistant Professor of Urology

Board Certification:

American Board of Urology, 1993, 2003, 2010

Professional Honors & Recognition

International/National/Regional

2011-17: Connecticut Magazine's Top Doctors
2007-08: Faculty Teaching Award, Dept. of Medicine, Hospital of St. Raphael, New Haven CT
1984: Lange Publication Scholarship Award
1984: Albuquerque Medical Society Scholarship Award
1984: Faculty Award for Excellence, The University of New Mexico School of Medicine
1983: Alpha Omega Alpha Honor Medical Society
1982: Recognition by Western Student Medical Research Forum for Meritorious Research

Grant/Clinical Trials History:

Current Grants

Agency:
ID# 2000025296
Title: Value of Digital Rectal Exam in the Clinical Setting
Role: Principal Investigator
Percent Effort: .05%
Project Period: June 2019 – Present

Agency:
I.D# 2000020868
Title: Nutrition and Prostate Cancer
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: May 2017- Present

Agency: HIC 2000024244
I.D. # EA8171
Title: Multiparametric MRI (mp MRI) for Preoperative Staging and Treatment Planning for Newly Diagnosed Prostate Cancer
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: October, 2019 – Present

Agency:
I.D. #1312013110
Title: Active Surveillance of the Small Renal Mass
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: January 2015 – Present

Past Grants

Agency:
I.D# 2000021905
Title: Comparison Between Open Radical Cystectomy vs Robotic Radical Cystectomy
Role: Principal Investigator
Percent Effort: .05%
Project Period: October 2017-November 2018

Agency:
I.D# 2000020822
Title: RALP (Robotic Assisted Laparoscopic Prostatectomy) Review
Role: Principal Investigator
Percent Effort: .05%
Project Period: May 2017-May 2018

Agency:

I.D# 1605017717

Title: Robot-Assisted Radical Cystectomy; Results from a Single Institution

Role: Principal Investigator

Percent Effort: .05%

Project Period: August 2016-August 2017

Agency:

I.D# 1609018370

Title: A Prospective Phase 2/3 Multi-Center Study of 18F-DCFPyl PET/CT Imaging in Patients with Prostate Cancer: Examination of Diagnostic Accuracy (OSPREY)

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: November 2016-August 2018

Agency:

I.D# 2000024006

Title: A Phase 3 Multi-Center Open-Label Study to Assess the Diagnostic Performance and Clinical Impact of 18F-DCFPyl PET/CT Imaging Results in Men with Suspected Recurrence of Prostate Cancer (CONDOR)

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: November 2018-October 2019

Agency:

I.D# 2000021905

Title: Comparison Between Open Radical Cystectomy vs Robotic Radical Cystectomy

Role: Principal Investigator

Percent Effort: .05%

Project Period: October 2017-November 2018

Agency:

I.D# 2000020822

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Role: Principal Investigator

Percent Effort: .05%

Project Period: May 2017-May 2018

Agency:

I.D# 1605017717

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Percent Effort: .05%

Project Period: August 2016-August 2017

Agency:

I.D# 1609018370

Title: A Prospective Phase 2/3 Multi-Center Study of 18F-DCFPyl PET/CT Imaging in Patients with Prostate Cancer: Examination of Diagnostic Accuracy (OSPREY)

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: November 2016-August 2018

Agency:

I.D# 2000024006

Title: A Phase 3 Multi-Center Open-Label Study to Assess the Diagnostic Performance and Clinical Impact of 18F-DCFPyl PET/CT Imaging Results in Men with Suspected Recurrence of Prostate Cancer (CONDOR)

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: November 2018-October 2019

Agency: Clarus Pharmaceuticals

I.D. # CLAR-12010

Title: Phase IV, Open Label Study of Oral Testosterone Undecanoate in Hypogonadal Men

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: July 2013 – July 2014

Agency: Clarus Pharmaceuticals

I.D. # CLAR-09700

Title: Phase 3, Open Label Study of Oral Testosterone Undecanoate in Hypogonadal Men

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: March 2012 – June 2013

Agency: Dendreon Corporation

I.D. # Proceed P10-3

Title: A registry of Sipuleucel-T Therapy in men with advanced prostate cancer

Role: Site Co-Investigator

Percent Effort: .05%

Project Period: May 2012 – July 2013

Agency: Auxilium Pharmaceutical

I.D. # AUX-CC-803

Title: Phase 3 – Double Blind Study of the safety and effectiveness of AA4500 in Men with Pteryonie's Disease

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: January, 2010 – March, 2012

Agency: Auxilium Pharmaceutical

I.D. # AUX-CC-802

Title: Phase 3 – Double Blind Study of the safety and effectiveness of AA4500 in Men with Peyronie’s Disease

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: January, 2011 – February 2012

Agency: Auxilium Pharmaceutical

I.D. # AUX-CC-801

Title: Phase 2 – Double Blind Study of the safety and effectiveness of AA4500 in Men with Peyronie’s Disease

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: January, 2008 – January, 2010

Agency: Clinipath Advisers, LLC

I.D. # CR-PF027

Title: Urine Sample Collection Study for Bladder Cancer

Role: Site Co-Investigator

Percent Effort: .05%

Project Period: June 2010 – November 2010

Agency: Spectrum Pharmaceutical

I.D. # SPI-153-08-01

Title: Efficacy or Orarelix in male patients with LUTS due to BPH

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: January, 2008 – December, 2008

Agency: Astellas Pharmaceutical

I.D.# 178-CL-060

Title: Urodynamics & Safety of YM178 in Males

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: January, 2007 – September, 2007

Agency: Auxilium Pharmaceutical

I.D. #THG-AUX

Title: “Phase 1 Developing Psychometrical Validates Scales to Measure Sexual Function in Relation to Peyronie’s Disease”

Role: Site Sub Investigator

Percent Effort: .05%

Project Period: March 2005- July 2005

Agency: Bayer Corporation
I.D. # BAY 38-9456
Title: 8 Week Study – Post Marketing Surveillance Study of Vardenafil
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: February, 2004 – November, 2004

Agency: Pfizer Corporation
I.D. #A1481179
Title: 8 Week Study – Viagra Post Marketing Study
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: May, 2004 – December, 2004

Agency: Eli Lilly & Company
I.D. #LVFN-1421-001-RG
Title: 3 Month Tadalafil vs. Placebo Trial
Role: Site Sub Investigator
Percent Effort: .05%
Project Period: May, 2003 – September, 2004

Pending
Agency: Department of Urology, Yale University
I.D. # HIC Pending
Title: Subset Analysis of Patients Treated with Robotic Assisted Radical Cystectomy
Role: Principal Investigator
Percent Effort: .05%
Project Period: June 2016 – Present

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated With Yale:

2008: University of New Mexico, Department of Surgery, Grand Rounds Lecture: “Robotics in Surgery”

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated With Yale

International/National

- 2019: Su, JJ, Choe, J, Xu, I, Martin, TV and **Hesse, DG**, “Can Post-Prostatectomy Cystogram Predict Urinary Incontinence?” American Urological Association Annual Meeting, Chicago, IL.
- 2018: Leung, CP, Rosoff, JS, Martin, TV, and **Hesse, DG**, “Robotic Cystectomy as an Alternative for Patients with Increased Comorbidity.” World Congress of Endourology, Paris France
- 2018 Leung, C, Rosoff, J, Martin, T, **Hesse, DG**: “NARUS 2018: Pushing the Envelope in the Surgical Treatment of Bladder Cancer” North American Robotic Urology Symposium, Las Vegas, NV

- 1990: **Hesse, DG**, Mininberg, DT, Witkin, SS: “Detection of Antisperm Antibodies in the Sera of Cryptorchid Boys”. Annual Meeting, The Section of Urology, The American Academy of Pediatrics, Boston, MA.
- 1989: **Hesse, DG**, Silen, ML, Felsen, D, Seniuk, S, Cerami, A, Lowry, SF, Vaughan, Jr., ED: “Persistent Kidney Tumor Necrosis Factor (TNF) Production in Chronic Endotoxemia is Associated with a Hypoosmotic Diuresis and Acute Renal Pathology”. Annual Meeting, American Urological Association, Dallas, TX.
- 1988: **Hesse, DG**, Silen, ML, Felsen, D, Moldawer, LL, Davatellis, GN, Cerami, A, Lowry, SF, Vaughan, Jr., ED “Local Renal Cachetia/Tumor Necrosis Factor (TNF) Production is Associated with Acute Renal Pathology in Chronic Endotoxemia”.
- 1987: **Hesse, DG**, Tracey, KJ, Fong, Y, Albert, JD, Legaspi, A, Barie, PS, Lowry, SF: “The Role of Endotoxin and Nutritional Support on the Peripheral Tissue Amino Acid Metabolism During Critical Illness”. Ninth Congress of the European Society of Parenteral and Enteral Nutrition, Barcelona, Spain.
- 1987: **Hesse, DG**, Tracey, KJ, Fong, Y, Manogue, KB, Lee, AT, Kuo, GC, Lowry, SF, Cerami, A: “Anti-cachectin / TNF Monoclonal Antibodies Prevent Lethal Bacteremic Shock in Baboons”. The International Conference on Tumor Necrosis Factor and Related Cytotoxins, Heidelberg, West Germany.
- 1983: **Hesse, DG**, Van-Epps, DE, Kirsch, AJ, Williams, Jr., RC: “Regulation of T-Lymphocyte Migration by a Suppressor Cell in Patients with Malignancy”. Annual Meeting, The Federation of American Societies for Experimental Biology, Chicago, IL.
- 1982: **Hesse, DG**, Van-Epps, DE and Williams, Jr., RC: “Depressed T-Lymphocyte Migration in Patients with Malignancy”. Annual Meeting, The Western Section, The American Federation for Clinical Research, Carmel, CA.

Regional

- 1993: **Hesse, DG**, Dean, RJ, DeVito RJ, Baskin, AM: “Experience with Neoadjuvant Hormonal Therapy in Patients Treated with Radical Prostatectomy”. Annual Meeting, The New England Section of The American Urological Association, Boston, MA.

Professional Service for Professional Organizations

Yale University Service:

- 2017-Present: Yale University Department of Urology, Program Evaluation Committee
2013 – 2016: Yale University, Department of Urology, Operations Committee
2003 – 2009: Yale-New Haven Hospital, Medical Board member

Public Service:

- 2018: Collaborator, Commissioned art project for Art space City Wide Open Studios Alternative Space at Yale West Campus, “An Experimental Laboratory for Healing”

- 2016: Lecturer, Cornell Scott Hill Health Center, Grand Rounds, "How to Diagnose Prostate Cancer".
- 2015: Lecturer, Movember Public Education Series, "Everything Men Want to Know about Male Urology".
- 2013-2015: Project Brotherhood, Prostate Screening Team, Yale-New Haven Hospital, St. Raphael's Campus
- 2014: Guest lecturer, Whitney Center Senior Center, "Everything You Wanted to Know About Urology But Were Afraid to Ask".

Bibliography:

Peer-Reviewed Original Research

1. **Hesse, D.G.**, Cole, D.J., Van Epps, D.E., and Williams Jr., R.C. Decreased T-lymphocyte Migration in Patients with Malignancy Mediated by a Suppressor Cell Population. *J. Clin. Invest.* 73:1078-1085, 1984.
2. Tracey, K.J., Lowry, S.F., Fahey, T.J., Fong, Y., **Hesse, D.G.**, Beutler, B., Manogue, K., Calvano, S.E., Wei, H., Albert, J.D., Cerami, A., and Shire, G.T. Cachectin/Tumor Necrosis Factor Induces Lethal Septic Shock and Stress Hormone Responses in the Dog. *Surg. Gynecol. Obstet.* 164:415-422, 1987.
3. Wei, H., Tracey, K., Manogue, K., Nguyen, H., Fong, Y., **Hesse, D.G.**, Beutler, B., Solomon, R., Cerami, A., and Lowry, S. Cachectin Mediates Suppressed Food Intake and Anemia During Chronic Administration. Presented at The Federation of American Societies for Experimental Biology, Washington, D.C., April 1987.
4. Manei, J. P., Fantini, G.A., Fong, Y., Albert, J.D., **Hesse, D.G.**, Tracey, K.J., and Lowry, S.F. Effect of Daily Submaximal Exercise on Cellular Membrane Function During Intravenous Refeeding in Normal Man. Presented at The 9th Congress of the European Society of Parenteral and Enteral Nutrition, Barcelona, Spain, September, 1987.
5. Fong, Y., Tracey, K.J., **Hesse, D.G.**, Albert, J.D., Legaspi, A., and S.F. Lowry. Submaximal Exercise as an Adjunct to Intravenous Refeeding. Presented at the 9th Congress of the European Society of Parenteral and Enteral Nutrition, Barcelona, Spain, September 1987.
6. Minei, J.P., Fantini, G.A., **Hesse, D.G.**, Shiono, S., Tracey, K.J., Fong, Y., Lowry, S.F. and Shires, G.T. Endotoxin Infusion in Human Volunteers: An Assessment of the Early Cellular Membrane Response. Presented at The Annual Meeting of the American College of Surgeons, San Francisco, California. October, 1987.
7. Rhyne, C.D., Calvano, S.E., Richardson, R.P., **Hesse, D.G.**, Tracey, K. J., Fong, Y., Lowry, S.F., and Antonacci, A.C. Functional Immune Consequences following in vivo Lipopolysaccharide (LPS) administration to Normal Human Subjects are Secondary to an Alteration of Antigen Presenting Cells. Presented at the Annual Meeting of the American College of Surgeons, San Francisco, California, October, 1987.
8. Fong, Y., Rosenbaum, M., Raman, G., **Hesse, D.G.**, Tracey, K.J., Matthews, D.E., Gertner, J., Fischman, D.A., and Lowry, S.F. Acute Effects of Growth Hormone on Protein Metabolism During Intravenous Refeeding. Presented at The annual Meeting of the American College of Surgeons, San Francisco, California. October, 1987.
9. Tracey, K.J., Fong, Y., **Hesse, D.G.**, Manogue, K.R., Lee, A.T., Kuo, G.C., Lowry, S.F. and Cerami, A. Anti-cachectin/TNF Monoclonal Antibodies Prevent Septic Shock During Lethal Bacteremia. *Nature* 330:662-664, 1987.

10. Fong, Y., **Hesse, D.G.**, Albert, J.D., Tracey, K.J., Legaspi, A., Brennan, M.F., and Lowry, S.F. Submaximal Exercise During Intravenous Feeding in Depleted Subjects. *Annals Surg.* 207:297-304, 1988.
11. **Hesse, D.G.**, and Lowry, S.F. Nutrition Support in the Surgical Patient. In: Ball, T.P. (ed). American Urological Association Update Series, Vol. VII, pp. 10-23, 1988.
12. Tracey, K.J., Wei, H., Fong, Y., **Hesse, D.G.** Mangoue, K. R., Nguyen, H.T., Cotran, R.S., Cerami, A., and Lowry, S.F. Cachectin/TNF Stimulates Cachexia, Anemia, and Inflammation. *J. Exp. Med.* 167:1211-1227, 1988.
13. Wolpe, S.D., Davatelis, G.N., Sherry, B., Beutler, B., **Hesse, D.G.**, Nguyen, H.T., Moldawer, L.L., Nathan, C.F., Lowry, S.F., and Cerami, A. Macrophages Secrete a Novel Heparin-Binding Protein Within Inflammatory and Neutrophil Chemokinetic Properties. *J. Exp. Med.* 167:570-581, 1988.
14. Meyer, J., Yurt, R.W., Duhaney, R., **Hesse, D.G.**, Tracey, K.J., Fong, Y., Richardson, D., Calvano, S., Dineen, P., Shires, G.T., Lowry, S.F. and David, J.M. Differential Neutrophil Activation Before and After Endotoxin Infusion in Enterally Versus Parenterally Fed Volunteers. *Surg. Gynecol. Obstet.* 167:501-509, 1988.
15. Meyer, J.D., Yurt, R.W., Duhaney, R., **Hesse, D.G.**, Tracey, K.J., Fong, Y., Verma, M., Shires, G.T., Dineen, P., Lowry, S.F. and Davis, J.M. Tumor Necrosis Factor Enhanced Leukotriene before Generation and Chemotaxis in Human Neutrophils. *Arch. Surg.* 123:1454-1458, 1988.
16. Silen, M.L., **Hesse, D.G.**, Felsen, D., Moldawer, L.L., Cerami, A., and Lowry, S.F. In vitro secretion of TNF by LPS Stimulated Newborn Rat Hepatic Macrophages is Reduced in Comparison to Adults. Presented at The Annual Meeting of the American College of Surgeons, Chicago, Illinois. October, 1988.
17. Tracey, K. J., Fong, Y., **Hesse, D.G.**, Manogue, K., Lee, A., Kuo, G.C., Calvano, S.E., Moldawer, L.L., Marano, M., Shires, G.T., Cerami, A., and Lowry, S.F. Cachectin/Tumor Necrosis Factor (TNF-alpha) Participates in the Metabolic Derangements Induced by Gram-negative Bacteremia. Presented at The Annual Meeting of the American College of Surgeons, Chicago, Illinois. October, 1988.
18. Fong, Y., Rosenbaum, M., Tracey, K.J., Raman, G., **Hesse, D.G.**, Matthews, D.E., Leibel, R.L., Gertner, J. M., Fischman, D.A. and Lowry, S.F. Recombinant Growth Hormone Enhances Muscle Myosin Heavy Chain mRNA Accumulation and Amino Acid Accrual in Humans. *Proc. Natl. Acad. Sci. U.S.A.* 86:3371-3374, 1989.
19. Silen, M.L., **Hesse, D.G.**, Felsen, D., Moldawer, L.L., Calvano, S.E., Seniuk, S., Cerami, A., and Lowry, S.F. Cachectin/Tumor Necrosis Factor Production by Fetal and Newborn Rat Hepatic Macrophages. *J. Pediatr. Surg.* 24:34-38, 1989.
20. Rosenbaum, M., Fong, Y., **Hesse, D.G.**, Tracey, K.J., Hurtz, R.L., Lowry, S.F., and Gertner, J.M. Intravenous Refeeding Blocks Growth Hormone (GH) Provoked Rises in Serum Free Fatty Acids and Blunting of Somatotroph Response to GH-releasing Hormones in Normal Man. *J. Clin. Endocrinol. Metab.* 69:310-316, 1989.
21. Richardson, R.P., Rhyne, C.D., Fong, Y., **Hesse, D.G.**, Tracey, K.J., Marano, M.A., Lowry, S.F., Antonacci, A.C., and Calvano, S.E. Peripheral Blood Leukocyte Kinetics Following in Vivo Lipopolysaccharide (LPS) Administration to Normal Human Subjects. Influence of Elicited Hormones and Cytokines. *Ann. Surg.* 210:239-245, 1989.
22. Fong, Y., Tracey, K.J., Moldawer, L.L., **Hesse, D.G.**, Manogue, K.B., Kenney, J.S., Lee, A.T., Kuo, G.C., Allison, A.C., Lowry, S.F., and Cerami, A. Antibodies to Cachectin/Tumor Necrosis Factor Reduces Interleukin 1 beta and Interleukin 6 Appearance During Lethal Bacteremia. *J. Exp. Med.* 170:1627-1633, 1989.

23. Fong, Y.M., Tracey, K.J., **Hesse, D.G.**, Albert, J.D., Barie, P.S., and Lowry, S.F. Influence of Enterectomy on Peripheral Tissue Glutamine Efflux in Critically Ill Patients. *Surgery* 107:321-326, 1990.
24. **Hesse, D.G.**, Dean, R.J., DeVito, R.J. and Baskin, A.M. Experience with Neoadjuvant Hormonal Therapy in Patients Treated with Radical Prostatectomy. Presented at The New England Section of The American Urological Association, Boston, Massachusetts. October, 1993.
25. Peschel, R.E., Robnett, T.J., **Hesse, D.G.**, King, C.R., Ennis, R.D., Schiff, P.B., and Wilson, L.D. PSA Based Review of Adjuvant and Salvage Radiation Therapy v Observation in Postoperative Prostate Cancer Patients. *Inter, J Cancer* 90: 29-36, 2000.
26. Renzulli, J.F. and **Hesse D.G.** A 45 Year old Woman with Xanthogranulomatous Cystitis, *Hospital Physician* 42: 50-52 2006
27. Wu, C.Q., Honig, S., Martin, T.V., and **Hesse, D.G.** Sexual Function in Men after Radical Cystectomy Differs in Men with Ileal Conduit Compared to Orthotopic Neobladder Urinary Diversion. Presented at The New England Section of The American Urological Association, Montreal, Canada. September, 2017
28. Wu, C.Q., Agochukwu, N.Q., Assi, R., and **Hesse, D.G.** The Difficult Catheter Placement: Can We Protect Hospitalized Patients from Iatrogenic Catheter Injury and Reduce Unnecessary Urology Consults? Presented at The New England Section of The American Urological Association, Montreal, Canada. September, 2017
29. Juan Javier- DesLoges, J.F., Syed, J.S, Leapman, M.S, Sprenkle, P.C, and **Hesse, D.G.** Association of system-wide integration of rectal swab culture and targeted antimicrobial prophylaxis with infectious complications after transrectal prostate biopsy. Presented at The World Congress of Endourology, Paris. France. September, 2018
30. Agochukwu NQ, Kilchevsky A, **Hesse, D.G.**, Primary Renal Large B-cell Lymphoma Imitating Invasive Renal Carcinoma With Inferior Vena Cava Tumor Thrombus. *Urol Case Rep.* 2018 May; 2018 Mar 27. PMID: 29785381

Chapters, Books and Reviews

31. **Hesse, D.G.**, Tracey, K.J., Fong, Y., Manogue, K.R., Palladino, M.A., Cerami, A., Shires, G.T., and Lowry, S.F. Cytokine Appearance in Human Endotoxemia and Primate Bacteremia. *Surg. Gynecol. Obstet.* 166:147-153, 1988.
32. Fong, Y., Rosenbaum, M., **Hesse, D.G.**, Tracey, K.J., Gertner, J., and Lowry, S.F. Influence of Substrate Background on Peripheral Tissue Responses to Growth Hormone. *J. Surg. Res.* 44:702-708, 1988.