

DUKE UNIVERSITY MEDICAL CENTER
CURRICULUM VITAE

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Education:

High School	Evanston Township High, Evanston IL	1961-1965	Diploma
College	Duke University, Durham, NC	1966-1970	B.A., Physics
Medical School	Baylor College of Medicine, Houston TX	1970-1973	M.D.

Scholarly societies: Alpha Omega Alpha

Professional training and academic career:

1974 -1974 6 month externship, cardiology, Royal Postgraduate Medical School, London
1974 -1975 Internship in Medicine, Duke University Medical Center
1975 -1977 Residency in Medicine, Duke University Medical Center
1977 -1978 Chief Resident in Medicine, Durham VAH, Duke University Medical Center
1978 -1980 Fellowship in Infectious Disease, Duke University Medical Center
1980 -1983 Instructor in Medicine, Durham VAH, Duke University Medical Center
1983 - 1993 Assistant Professor of Medicine, Duke University Medical Center
1984 - 2002 Director, Internal Medicine Residency Training Program, Duke University Medical Center
1985 - 2002 Founder, Co-Director, Med/Ped Residency Training Program, Duke University Medical Center
1993 -1998 Associate Professor of Medicine & Infectious Disease, Duke University Medical Center
1999 - Present Professor of Medicine & Infectious Disease, Duke University Medical Center
1985 -1989 Director, Graduate Medical Education, Duke University Medical Center
1989 -1990 Associate Dean of GME, Duke University Medical Center
1992 - 2002 Founder, Co-Director, Med/Psych Residency Training Program, Duke University Medical Center
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2005- 2012 Director, Infectious Disease Research, Duke Clinical Research Institute
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Bibliography:

Peer-Reviewed Manuscripts:

1. Eknoyan G, **Corey GR**, Loomis J, Suki WN, Martinez-Maldonado M. Lithium-induced diabetes insipidus: Effects on urinary cyclic AMP excretion and renal tissue adenylate cyclase activity. Clin Res 21:524, 1974.
2. Durack DT, **Corey GR**, Perfect JR: Trimethoprim-sulfamethoxazole vs ampicillin in the treatment of experimental meningitis due to *Streptococcus pneumoniae*. Rev Inf Dis 1982 Mar-Apr;4:311-314. PMID:6981157
3. Mulrow CD, **Corey GR**: A painful swollen arm in a young woman. NC Med J 44:217-218, 1983. PMID:6574328
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5. Mulrow C, JT Brown, WB Lide, **GR Corey**: Herpetic Whitlow. NC Med J 44:312-313, 1983. PMID:6575265
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8. Moorman JR, **Corey GR**: Distended neck veins. NC Med J 44:562-563, 1983. PMID:6579373
9. Svetkey LP, **Corey GR**: A chronically red eye. NC Med J 44:629-630, 1983. PMID:6580532
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13. Frazier LM, **Corey GR**: Acute bacterial sinusitis. NC Med J 47:115-117, 1986. PMID:3457281
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17. **Corey R**, Hla KM. Major and massive hemoptysis: A reassessment of conservative management. *Am J Med Sci* 294-302:1987. PMID:3425580.
18. Gould B, **Corey R**. Fever with a dissecting aorta aneurysm. *NC Med J* 48:574-576, 1987. PMID:3480425.
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21. Wall TC, Peyton RB, **Corey GR**: Gonococcal Endocarditis: A New Look At An Old Disease. *Medicine* 68: 375-380, 1989. PMID:2509857
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 42. A Single-Dose of Oritavancin (ORI) Is Comparable to 7-10 Days of Vancomycin (VAN) in the Treatment of Acute Bacterial Skin and Skin Structure Infections (ABSSSI): the SOLO II Study. **R. Corey**, A. Perez, G. Moeck, H. Jiang, S. Good, SOLO II Investigators – ICAAC 2013
 43. In-Hospital and One Year Mortality in Patients Undergoing Early Surgery for Prosthetic Valve Endocarditis... therapy in the overall cohort. Tahaniyat Lalani, MBBS, MHS, Vivian Chu, MD, Lawrence Park, PhD, E Cecchi, MD, **G. Ralph Corey**, Emanuele Durante-Mangoni, Vance Fowler, Jr, MD MHS, David Gordon, Paolo Grossi, Margaret Hannan, MBBCh, MSc, PhD, Bruno Hoen, MD, Patricia ... – ID Week 2013
 44. In-Hospital and One Year Mortality in Patients Undergoing Early Surgery for Prosthetic Valve

- Endocarditis. Tahaniyat Lalani, MBBS, MHS ; Vivian Chu, MD ; Lawrence Park, PhD ; E Cecchi, MD ; **G. Ralph Corey**; Emanuele Durante-Mangoni ; Vance Fowler, Jr, MD MHS ; David Gordon ; Paolo Grossi ; Margaret Hannan, MBBCh, MSc, PhD ; Bruno Hoen, MD ; Patricia Munoz ; Hussien Rizk, MD ; Souha Kanj, MD, FIDSA ; Christine Selton-Suty ; Daniel J. Sexton, MD, FIDSA; Denis Spelman, MBBS FRACP FRCPA MPH ; Veronica Ravasio, MD ; Marie-Françoise Tripodi, MD ; Andrew Wang, MD – ID Week 2013.
45. Concordance Between Early and Late Clinical Response with a Single Dose of Oritavancin in the SOLO Studies. **G. R. Corey**, S. Good, H. Jiang, G. Moeck, M. Wikler, SOLO I and SOLO II Investigators – ICAAC 2014
 46. Efficacy and Safety Outcomes by Subgroups in Studies of a Single Dose of Oritavancin for the Treatment of Acute Bacterial Skin and Skin Structure Infections (ABSSSI). **G. R. Corey**, S. Good, H. Jiang, G. Moeck, M. Wikler – ICAAC 2014
 47. Phase 3 Clinical Isolates with Reduced Susceptibility to Vancomycin Remain Susceptible to Telavancin. J. I. Smart, **G. Corey**, A. F. Shorr, M. E. Stryjewski, W. Wang, S. L. Barriere – ICAAC 2014
 48. Interim Analysis of Ceftaroline Fosamil for the Treatment of Staphylococcus aureus Bacteremia. V. G. Fowler, Jr, H. Chambers, D. P. Levine, P. Cole, A. Jandourek, H. D. Friedland, **G. R. Corey** – ICAAC 2014
 49. The SOLO Studies: A Single-Dose of Oritavancin (ORI) Compared to 7–10 Days of Vancomycin (VAN) in the Treatment of Acute Bacterial Skin and Skin Structure Infections (ABSSSI) **Ralph Corey, MD**, Matthew Wikler, MD, FIDSA, Greg Moeck, Hai Jiang, Samantha Good And Solo I And II Investigators – ID Week 2014
 50. Evaluation of Health-Related Quality of Life (HRQL) in ABSSSI Patients after Antibiotic Discontinuation in a Phase 3 Trial. **Corey R¹**, Gupta K², Henry E³, McGinnis E⁴, Cammarata S⁴
 51. Ceftaroline Fosamil (CPT-F) in Patients with Acute Bacterial Skin and Skin Structure Infections (ABSSSI) with Systemic Inflammatory Signs: Results Across 3 Pivotal Studies Using q8h or q12h. Poster presented at ICAAC 9/19/15.
 52. Randomized, double-blind, multicenter phase 2 study to evaluate efficacy and safety of intravenous Iclaprim (ICL) versus Vancomycin in the treatment of hospital-acquired, ventilator-associated, or health-care-associate pneumonia suspected or confirmed caused by gram-positive pathogens. Poster presented at ID Week 10/9/15.
 53. Cessation of spread of lesion and absence of fever at 72 hours in complicated skin and skin structure infection (cSSSI): Reanalysis of the combined ASSIST phase III studies comparing Iclaprim (ICL) and Linezolid (LZD). Poster presented at ID Week 10/9/15.
 54. In vitro activity of eravacycline and comparators against Acinetobacter baumannii, including carbapenem-resistant strains, and Stenotrophomonas maltophilia isolated from patients in the US. Doi Y, **Corey GR**, Morrissey I, Grossman T, Luepke K, Scoble P, Sutcliffe J. Poster presented at ASM Microbe 2016 Boston, MA.
 55. In vitro activity of eravacycline and comparators against Enterobacteriaceae, including strains resistant to carbapenems or 3rd/4th generation cephalosporins in the US. Doi Y, **Corey GR**, Morrissey I, Grossman T, Luepke K, Scoble P, Sutcliffe J. Poster presented at ASM Microbe 2016 Boston, MA.
 56. Eravacycline In Vitro Activity Against Clinical Isolates Obtained from Genitourinary (GU) and Gastrointestinal (GI) Sources from Patients in the United States. **Corey GR**, Doi Y, Morrissey I, Grossman T, Olesky M, Patel H, Sutcliffe J. Poster presented at ASM Microbe 2016 Boston, MA.

57. *In vitro* global surveillance of eravacycline and comparators against *Staphylococcus* spp. And *Enterococcus* spp. Over a three-year period (2013-15). Basetti M, **Corey GR**, Doi Y, Morrissey I, Grossman T, Olesky M, Sutcliffe J. Poster presented at ID Week 2016, New Orleans, LA.
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Submitted Abstracts:

Editorials, position, and background papers:

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2. Telithromycin. Annals of Internal Medicine, March 2006, (144) 447-448.
3. Reply to Solnick et al. Ralph Corey; Martin E. Stryjewski. Clinical Infectious Diseases 2015; doi: 10.101093/cid/civ372. PMID: 25956892.
4. Vancomycin-resistant Enterococcus faecium prosthetic valve endocarditis treated with oritavancin: a case report and review of the literature. Erin R. Feeney, Jennifer A Johnson, Greg Moeck, Samantha Good, G. Ralph Corey.

Consultant appointments: Durham Regional Hospital, Durham NC (Consultative staff) 1996 - 2007
 Duke University Medical Center, Durham NC (Active staff), 1983-present
 Durham Veterans Administration Hospital, Durham, NC 2008- present
 Federal Prison in Butner, NC (Consultative staff) 2001-2003

Advisory Boards & Committees /Consultant

Vicuron	Cerexa / Forest/Actavis	Synereca
Inhibitex	Polymedix	Theravance
Cubist – Chair	Rib-X/Melinta	Paratek
ISCVID	Cempra	SC Pharma
Medacorp	Durata	Tetraphase
Clinical Advisors	Nabriva	Arsanis
Innocol	Ampliphi	Basilea
Merck	AstraZeneca	Bayer
Pfizer	Astellas	Bio2
Johnson and Johnson	Achaogen	Inimex
Inimex	Contrafect	Medtronic
GSK	Gilead	Motif
Trius	Dr. Reddy’s Lab	
The Medicines Company	Seachaid	

Grand Round / Presentations

October 2005 – Medicine Grand Rounds at Duke Medical Center

November 2005 – Grand Rounds at UVa on Leishmania

Indiana University – 2005 – Staphylococcus bacteremia

Mt Sinai, NY –2007 - Global Health

University of Nebraska – Global Health

Internations Society of Cardiovascular Infectious Diseases

ICAAC – multiple presentations

IDSA – multiple presentations

Visiting Professor – MGH, Washington U, IU, Neb, Universidade Federal do Espirito SantoFES, Hospital

Clinicas, Barcelona, Beijing Hospital, Beijing, Sun Yat Sen Medical Center,Taiwan, Mt. Sinai, NY

Professional awards and special recognitions:

Housestaff Teaching Award, 1978

Senior Staff Teaching Award, 1982

Family Medicine Teaching Award, 1983

Basic Sciences Teaching Award, 1996

Housestaff Teaching Award, 1999

Robert J. Glaser Clinical Stars Program, WU, 2001

Arthur E. Palumbo Award, Duke 2001

Distinguished Alumni Award, Duke 2004

Duke University Research Mentoring Award, Duke 2010

2012 Friendship Award (State Administration of Foreign Experts Affairs, Peoples Republic of China)

Presented by Premier of PRC Wen

2014 Walter E. Stamm Mentor Award, presented by the Infectious Diseases Society of America

(IDSA) annual meeting

2015 Alumnus of the Year, Baylor College of Medicine

Organizations and participation:

Fellow, American College of Physicians

Fellow, Infectious Diseases Society of America

Member, Nominations Committee

International Society of Cardiovascular Infections Diseases

Subcommittee on Scientific Projects

Editorial Board: *Clinical Infectious Diseases*

Reviewer: *Clinical Infectious Diseases*

Chest

Journal of the American Society of Tropical Medicine and Hygiene

Journal of the American Medical Association

American Journal of Cardiology

Up to Date Electronic Journal

Antimicrobial agents and chemotherapy

Minority International Research Training Program
Association of Program Directors in Internal Medicine 1984-2002
Member Academic Council 2000, 2001

Clinical Responsibilities

Attending, Infectious Diseases Division Consult Service, Durham VAH 2 months per year
Attending, General Medicine, Durham VAH 1 month per year
Facilitator, Morning Report, 100 times per year
Weekly Infectious Diseases Clinic, Duke Hospital

Teaching/Mentoring responsibilities:

Having stepped down as the Program Director of the Internal Medicine Residency Training Program after 18 years, I then focused my efforts on directing clinical research at the Duke Clinical Research Institute as well as participating in Infectious Disease rounds (2 months per year) as well as General Medicine rounds (1 month per year), caring for patients in the Infectious Disease clinic and establishing a Center for Global Health. All of these efforts involve teaching and mentoring housestaff.

My work at the DCRI focused on multi-center, international trials. With the help of four fellows (sequentially) who were training in clinical research techniques we direct these trials from their inception (protocol development) to their completion and presentation. All of this requires a tremendous amount of time and effort both for the trials and for the mentoring and sub-study development necessary for fellow experience.

Infectious Disease rounds involved students, residents, and fellows where further teaching and mentoring can and does occur. This effort does involve a considerable amount of my time but results in the stimulation of housestaff and the creation of clinical research projects. Clinic likewise often involves fellows and the solving of problems and answering of questions through literature searches.

Finally, my work in the Global Health arena blossomed. Not only did I provide lectures for the first year medical students but in addition we have been able to send over 300 residents overseas for 3 month rotations at sites that I have established. Finally, I have been able to obtain agreements for endowments worth over 9 million dollars and am now the Director of the Hubert/Yeargan Center for Global Health. This Center focuses on the training of global health fellows who hopefully one day would develop careers in global health and basic science research. It also supports the research with service that is undertaken in Africa and South America.

Contribution to Science

1. My original research efforts targeted *S. aureus* bacteremia (SAB). With the help of 3 interns we focused on defining uncomplicated and complicated bacteremia we attempted to identify criteria which would allow abbreviated therapy. Investigating the value of transesophageal echocardiography, the

importance of follow-up blood cultures, the risk of both intra- and extra-vascular prosthetic material, the frequency of infected thrombophlebitis and prolonged bacteremia in patients with central lines, and the accuracy of defining recurrence using pulsed-field gel electrophoresis we were able to create an algorithm to assist clinicians with this frequent and important decision. In addition, we were able to study many other important issues such as risk of catheter salvage in patients with SAB, the outcome of patients on dialysis who acquired SAB, the importance of SAB in post-median-sternotomy patients, the influence of age, diabetes, and neutropenia on the outcome of SAB, inoculum effect on outcomes, attachment force differences between bacteremia producing and colonizing *S. aureus*, and clonal differences in the risk of complications (e.g. IE) of SAB.

- a. Rosen, AB, Fowler, VG, Jr., **Corey, GR**, Downs, SM, Biddle, AK, Li, J, Jollis, JG. Cost-effectiveness of transesophageal echocardiography to determine the duration of therapy for intravascular catheter-associated *Staphylococcus aureus* bacteremia. *Annals of Internal Medicine*. 130(10): 810-20, May 18, 1999. PMID:10366370.
 - b. Fowler VG Jr. Sakoulas G. McIntyre LM. Meka VG. Arbeit RD. Cabell CH. Stryjewski ME. Eliopoulos GM. Reller LB. **Corey GR**. Jones T. Lucindo N. Yeaman MR. Bayer AS. Persistent bacteremia due to methicillin-resistant *Staphylococcus aureus* infection is associated with agr dysfunction and low-level in vitro resistance to thrombin-induced platelet microbicidal protein. [Journal Article. Research Support, U.S. Gov't, P.H.S.] *Journal of Infectious Diseases*. 190(6):1140-9, 2004 Sep 15. PMID:15319865.
 - c. Chamis, AL, Cabell, CH, Peterson, GE, **Corey, GR**, Sorrentino, RA, Ryan, T, Reller LB, Fowler, VG Jr. *Staphylococcus aureus* bacteremia in patients with permanent pacemakers or implantable cardioverter-defibrillators. *Circulation*. 104(9): 1029-33, Aug. 28, 2001. PMID:11524397.
 - d. Fowler, Vance G. Jr MD, MHS; Olsen, Maren K. PhD; **Corey, G. Ralph MD**; Woods, Christopher W. MD, MPH; Cabell, Christopher H. MD; Reller, L. Barth MD; Cheng, Allen C. MB, BS; Dudley, Tara MS; Oddone, Eugene Z. MD, MHS Clinical Identifiers of Complicated *Staphylococcus aureus* Bacteremia. *Archives of Internal Medicine*. 163(17):2006-2072, September 22, 2003. PMID:14504120.
2. Continuing the work on *S. aureus* (with Vance Fowler) I then created the International Collaboration on Endocarditis (ICE). Again with the help of residents/fellows (e.g. Vivian Chu) this rapidly growing clinical research collaboration, funded primarily with good will of the 300+ investigators, focused on the changing epidemiology of IE as well as the important clinical problems such as the importance of early surgery, the risk of valve replacement in patients suffering from embolic strokes, the risk of renal failure, the frequency of IE in infants and children, the epidemiology, clinical characteristics and outcome in a variety of pathogens causing IE (e.g. enterococcus, HACEK, gram negative bacilli, and candida), and the management of prosthetic valve IE.
- a. Wang A., Athan E., Pappas P., Fowler V., Olaison L., Pare C., Almirante B., Munoz P., Rizzi M., Naber C., Logar M., Tattevin P., Iarussi D., Seton-Suty C., Jones S., Casabe J., Morris A., **Corey GR**, Cabell CH. International Collaboration on Endocarditis-Pro prospective Cohort Study Investigators. Contemporary clinical profile and outcome of prosthetic valve endocarditis. *JAMA* 2007 Mar 28;297(12):1354-61. PMID:17392239.

- b. Chu, Vivian H. MD Cabell, Christopher H. MD; Benjamin, Daniel K. Jr MD, MPH, PhD; Kuniholm, Erin F. MD, MPH; Fowler, Vance G. Jr MD, MHS; Engemann, John MD; Sexton, Daniel J. MD; **Corey, GR** MD; Wang, Andrew MD. Early Predictors of In-Hospital Death in Infective Endocarditis . *Circulation* 109(14):1745-1749, April 13, 2004.
 - c. Chu VH. Cabell CH. Abrutyn E. **Corey** GR. Hoen B. Miro JM. Olaison L. Stryjewski ME. Pappas P. Anstrom KJ. Eykyn S. Habib G. Benito N. Fowler VG Jr. International Collaboration on Endocarditis Merged Database Study Group. Native valve endocarditis due to coagulase-negative staphylococci: report of 99 episodes from the International Collaboration on Endocarditis Merged Database. *Clinical Infectious Diseases*. 39(10):1527-30, 2004 Nov 15. PMID:15546091.
 - d. McDonald JR. Olaison L. Anderson DJ. Hoen B. Miro JM. Eykyn S. Abrutyn E. Fowler VG Jr. Habib G. Selton-Suty C. Pappas PA. Cabell CH. **Corey** GR. Marco F. Sexton DJ. Enterococcal endocarditis: 107 cases from the international collaboration on endocarditis merged database. [Comparative Study. Journal Article. Multicenter Study. Research Support, N.I.H., Extramural. Research Support, Non-U.S. Gov't. Research Support, U.S. Gov't, P.H.S.] *American Journal of Medicine*. 118(7):759-66, 2005 Jul. PMID:15989910.
 - e. Anderson DJ. Olaison L. McDonald JR. Miro JM. Hoen B. Selton-Suty C. Doco-Lecompte T. Abrutyn E. Habib G. Eykyn S. Pappas PA. Fowler VG. Sexton DJ. Almela M. **Corey GR**. Cabell CH. Enterococcal prosthetic valve infective endocarditis: report of 45 episodes from the International Collaboration on Endocarditis-merged database. *European Journal of Clinical Microbiology & Infectious Diseases*. 24(10):665-70, 2005 Oct. PMID:16244853.
3. In 2002 I moved to the Duke Clinical Research Institute as director of infectious diseases research. As a result my focus shifted to the design, management and outcome of large clinical trials involving new antibiotics/immunoglobulins, vaccines in patients with skin and skin structure infections (both treatment and prevention), device infection prevention trials (pacemakers and intravascular umbrellas), pneumonia (both community and hospital acquired), blood stream infections, etc. Seminal trials involving daptomycin, telavancin, ceftaroline, tefibazumab, fusidic acid, solithromycin, anti-staphylococcal vaccine, tedizolid, and oritavancin.
- a. Fowler VG Jr. Boucher HW. **Corey** GR. Abrutyn E. Karchmer AW. Rupp ME. Levine DP. Chambers HF. Tally FP. Vigiiani GA. Cabell CH. Link AS. DeMeyer I. Filler SG. Zervos M. Cook P. Parsonnet J. Bernstein JM. Price CS. Forrest GN. Fatkenheuer G. Gareca M. Rehm SJ. Brodt HR. Tice A. Cosgrove SE. S. aureus Endocarditis and Bacteremia Study Group. Daptomycin versus standard therapy for bacteremia and endocarditis caused by *Staphylococcus aureus*. *N Eng J Med* 2006 Aug 17; 355(7):653-65. PMID:16914701.
 - b. **Corey GR**, Good S, Jiang H, Moeck G, Wikler M, Green S, Manos P, Keech R, Singh R, Heller B, Bubnova N, O'Riordan W for SOLO II Investigators. Single-dose Oritavancin compared to 7-10 days of Vancomycin in the Treatment of Gram-Positive Acute Bacterial Skin and Skin Structure Infections: the SOLO II Non-inferiority study. *Clin Inf Dis*. 2014 Oct 6. pii: ciu778. [Epub ahead of print] PMID: 25294250.
 - c. Bennett-Guerrero E, Pappas T, Koulton W, Fleshman J, Lin M, Garg J, Mark D, Marcet J, Remzi F, George V, Newland K and **Corey GR**, for the Swipe-2 Trial Group. Gentamicin-

Collagen Sponge for Infection Prophylaxis in Colorectal Surgery. New England Journal of Medicine. 363(11):1038-49, 2010 Sep 9. PMID:20825316.

4. During my entire career I have focused on mentoring young potential clinical researchers. Nearly half my publications are written by these incredibly talented physicians, most of whom have gone on to be successful independent researchers. As a result I have won mentoring awards from Duke University and the Infectious Diseases Society of America.

Clinical Research

Principal Investigator, DCRI

1. Fast I with Theravance, Inc
2. Fast II with Theravance, Inc
3. Assure with Theravance, Inc
4. Atlas I with Theravance, Inc
5. Atlas II with Theravance, Inc
6. Attain I with Theravance, Inc
7. Attain II with Theravance, Inc
8. TD1792 with Theravance, Inc
9. Fever Study with Inhibitex, Inc
10. Blood Stream Infection with Inhibitex
11. Surgical Wound Infection Prevention, Innocoll
 - a. Swipe I
12. Surgical Wound Infection Prevention, Innocoll
 - a. Swipe 2
13. Surgical Wound Infection Prevention, Dr. Reddy's Lab
14. Solo I ABSSSI Trial, The Medicines Company
15. Solo II ABSSSI Trial, The Medicines Company
16. Canvas I ABSSSI trial, Cerexa
17. Canvas II ABSSSI trial, Cerexa
18. Fusidic Acid ABSSSI trial, Cempra
19. Solithromycin CAP trial I, Cempra
20. Solithromycin CAP trial II, Cempra
21. Daptomycin bacteremia trial, Cubist
22. Tedizolid skin trial, Trius
23. Zepher trial, Pfizer
24. GSK 322 ABSSSI trial, GSK
25. Staph vaccine trial, Merck
26. ANGEL Trial – pulmonary embolism prevention – BiO2 Medical
27. WRAPPIT Trial – pacemaker infection prevention – Medtronic

Present Clinical Research Endeavors by Dr. Corey

1. Staph Aureus Bacteremia Group
2. International Collaboration on Endocarditis

3. Numerous clinical trial involving patients with skin, lung, bloodstream and joint infections.
4. Education/Mentoring: As a result of my position as Vice-Chair of Education and Global Health for the Department of Medicine I enjoy finding new ways to train physicians on the wards and in the outpatient clinics as well as in the clinical research arena. Global Health continues to consume time and energy as we continue our research and educational efforts in Kenya, Tanzania, Rwanda, Nicaragua, Brazil, Haiti, China, Thailand, Sri Lanka, India, and the Indian Health Service. In addition, we have developed a GH residency/fellowship pathway where residents and fellows obtain a masters in GH as well as spending 9 months overseas.