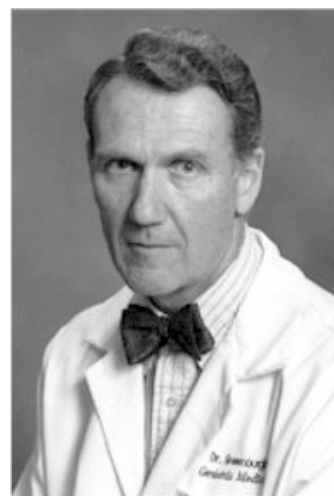


William Greenough, M. D.

Dr. Greenough, an international expert in infectious disease and a member of the Division of Geriatric Medicine at Johns Hopkins School of Medicine, has been a co-investigator on the Hospital at Home project since its inception. He has been an active member of the clinical investigation from the outset, participating in decisions on which diseases to treat, criteria for admission to the program, and methods to track clinical outcomes. During the pilot phase of Hospital at Home, Dr. Greenough joined Drs. Leff and Burton in providing in-the-home care for patients admitted to the program.



Dr. Greenough is a member of the Division of Geriatric Medicine responsible for the Ventilator Rehabilitation Unit of the Johns Hopkins Bayview Care Center, as well as subacute and long-term care. He consults on serious and complex wounds with the Wound Care Team of this facility and has a background in infectious diseases and fluid and electrolyte management. His research interests focuses on oral rehydration therapy, malnutrition, and wound care in the elderly. He has deep experience in taking low-cost advanced diagnostics and therapeutics to underserved population at their homes and neighborhoods and carries this to his participation in the Hospital at Home Program.

Dr. Greenough was a staff associate of the National Heart Institute of the National Institute of Health; Chief of Clinical Research, as well as Scientific Director at the Cholera Research Laboratory in Dhaka, Bangladesh; Chief of the Infectious Disease Division in the Department of Medicine of the Johns Hopkins University; Director of the Robert Wood Foundation Clinical Scholar's Program at Johns Hopkins for three years and later Director of the International Centre for Diarrheal Disease Research, Bangladesh. In addition, he was an Associate Editor of Infection and Immunity and Editor-in-Chief of the Journal of Diarrheal Disease, Bangladesh.

BIOSKETCH

NAME	POSITION TITLE
William B. Greenough III, M.D.	Professor of Medicine Johns Hopkins University

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training*).

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Amherst College, Amherst, Mass.	B.A.	1953	Chemistry
Harvard Medical School, Boston, Mass	M.D.	1957	Medicine

Positions and Honors List:

1962-1967	USPHS, Senior Surgeon assigned to the Cholera Research Laboratory, Dhaka, Bangladesh (1962-65) then to NHI (1965-67)
1967-1969	Assistant Professor of Medicine, Johns Hopkins University Assistant Chief of Medicine, Baltimore City Hospitals
1969-1983	Associate Professor of Medicine and Microbiology, Johns Hopkins University
1970-1976	Chief, Infectious Diseases Division, Johns Hopkins Hospital

1977-1979	Scientific Director, Cholera Research Laboratory, Dhaka, Bangladesh
1979-1985	Director, International Centre for Diarrhoeal Disease Research, Bangladesh
1984-present	Professor of Medicine, Johns Hopkins University
1985-present	Member of Division of Geriatric Medicine, Johns Hopkins University at the Johns Hopkins Bayview Medical Center
1986-present	Professor of International Health, Johns Hopkins University School Bloomberg School of Public Health
1983	King Faisal International Prize In Medicine Awarded with Drs. M. Feld and J. Fordtran for advances in G.I. Physiology and discovery of mechanism of action of Cholera toxin.
1984	Maurice Pate Prize (UNICEF, Global Award ICDDR,B)
2001	Howard Florey Memorial Lecture University of Adelaide, Australia

Experience: Member Bacteriology and Mycology Study Section, NIAID/NIH 1972-74
Chairman, 1974-76
Editor-in-Chief, Journal of Diarrhoeal Disease Research, 1983-85
President and Founding Trustee, International Child Health Foundation, 1986-94, 1997-present
Chairman Board of Trustees, Child Health Foundation, 1994-95
Chairman International Centre for Diarrhoeal Disease Research, Bangladesh
Endowment Fund Committee, 1995-present

Representative Publications:

1. Greenough WB III, Gordon RS Jr., Rosenberg IS, Davies BI, Benenson AS. "Tetracycline in the treatment of cholera". *Lancet*. i:355-357 (1964).
2. Greenough WB III, Crespín SR, Steinberg D. "Infusion of long-chain fatty acid anions by continuous flow centrifugation". *J Clin Invest*. 48:1923-1933 (1969).
3. Carpenter CCJ, Greenough WB III. "Response of canine duodenum to intraluminal challenge with cholera exotoxin". *J Clin Invest*. 47:2600-2607 (1968).
4. Greenough WB III, Pierce NF, Vaughan M. "Titration of cholera enterotoxin and antitoxin in isolated fat cells". *J Infect Dis*. 121:S110-113 (1970).
5. Van Heyningen WE, Carpenter CCJ, Pierce NF, Greenough WB III. "Deactivation of cholera toxin by ganglioside". *J Infect Dis*. 124:415-418 (1971).
6. Zieve PD, Pierce NF, Greenough WB III. "Stimulation of glycogenolysis by purified cholera enterotoxin in disrupted cells". *Johns Hopkins Med J*. 129:299-303 (1971).
7. Al Awqati Q, Wallace CK, Greenough WB III. "Stimulation of intestinal secretion in vitro by culture filtrates of E. Coli". *J Infect Dis*. 125:300-303 (1972).
8. Field M, Fromm E, Al Awqati Q, Greenough WB III. "Effect of cholera enterotoxin on ion transport across ileal mucosa". *J. Clin Invest*. 51:796:804 (1972).
9. Al Awqati Q, Greenough WB III. "Prostaglandins inhibit intestinal sodium transport". *Nature (New Biol)*. 238:26 (1972).
10. Crespín SR, Greenough WB III. Steinberg D. "Stimulation of insulin secretion by long-chain fatty acids: a direct pancreatic effect". *J Clin Invest*. 52:1979-1984 (1973).
11. Hewlett EI, Guerrant RL, Evans DJ, Greenough WB III. "Adenyl cyclase in rat fat cells: stimulation by toxins of Vibrio cholera and Escherichia coli". *Nature*. 249:371-373 (1974).
12. Ganguly U, Greenough WB III. "Stimulation of epinephrine-sensitive fat cell adenylate cyclase by cytosol: effect of cholera toxin". *Proc Nat Acad Sci. (USA)* 72:3561-3564 (1975).
13. Stoll BJ, Greenough WB III, Huq I, et al. "Binding of intraluminal toxin in cholera: trial of GM 1 ganglioside charcoal". *Lancet* ii:888-891 (1980).
14. Molla AM, Hossain M, Sarker SA, Molla A, Greenough WB III. "Rice-powder electrolyte solution as oral therapy in diarrhoea due to Vibrio Cholerae and Escherichia coli". *Lancet* i:317-319 (1982).
15. Glass RJ, Holmgren J, Kran MR, Hossain KMB, Huq I, Greenough WB III. "A randomized controlled trial of the blocking effects of B subunit in family members of patients with cholera". *J Infect Dis*.

- 149:495-500 (1984).
16. Molla AM, Ahmed SM, Greenough WB III. "Rice-based oral rehydration solution decreases the stool volume in acute diarrhoea". *Bull Wld Hlth Org.* 63(4):751-756 (1985).
 17. Bender BS, Bennett R, Laughon B, Greenough WB III, Gaydos C, Sears SD, Formas MS, Bartlett JG. "Is Clostridium difficile endemic in chronic care facilities?". *Lancet.* ii:11-13 (1986).
 18. Molla AM, Molla A, Rohde JE, Greenough WB III. "Turning off the diarrhea: the role of food and ORS". *J Ped Gastro & Nutr.* 8:81-84 (1989).
 19. Rybolt AH, Bennett RG, Laughton BE, Thomas DR, Greenough WB III, Bartlett JG. "Protein losing enteropathy associated with Clostridium difficile infection". *The Lancet I:(8651):1353-1355* (June 17, 1989).
 20. Bari A, Rahman A, Molla A, Greenough WB III. "Rice-based oral rehydration solution shown to be better than glucose-ORS as treatment of non-dysenteric diarrhoea in children in rural Bangladesh". *J Diarrhoeal Dis Res.* 7 (1&2): 1-7 (March & June 1989).
 21. Bennett RG, Greenough WB III. "C.difficile diarrhea: a common and overlooked nursing home infection". *Geriatrics.* 45;9:77-87 (Sept 1990).
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 23. Greenough WB III. Khin-Maung U. Oral Rehydration Therapy. In: *Diarrheal Diseases*, ed: Michael Field, New York Elsevier, 21:485-499 (1991).
 24. Khin-Maung U, Greenough WB III. "Cereal-based oral rehydration therapy. I. Clinical Studies". *J Ped.* 118; (Sup):S72-S79 (1991).
 25. Greenough WB III, Khin-Maung U. "Cereal-based rehydration therapy. II. Strategic issues for its implementation in national diarrheal disease control programs". *J Pediatrics.* (Sup):S80-S85 (Apr 1991).
 26. Gloth FM III, Lindsay JM, Zelesnick LB, Greenough WB III. "Can vitamin D deficiency produce an unusual pain syndrome?" *Arch Intern Med* 151:1662-64 (Aug 1991).
 27. Murphy S, Denman S, Bennett RG, Greenough WB III, Lindsay J, Zelesnick LB. "Methicillin-resistant Staphylococcus aureus colonization in a long-term care facility". *JAGS* 40;No 3"PP 213-217 (Mar 1992).
 28. Bennett RG, Beamer BA, Greenough WB III, Lindenbaum J, Bartlett JG. "Colonisation with digoxin-reducing strains of Eubacterium lentum and Clostridium difficile infection in nursing home patients". *J Dia Dis Res.* 10(2):87-92 Jun 1992).
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 34. Molla AM, Bari A, Greenough WB III. "Rice oral rehydration solution hastens recovery from dysentery". *J Diarrhoeal Dis Res.* 13(1):8-11 (March 1995).
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- hydrotherapy versus standard care for incontinent hospitalized patients". J Am Geriatr Soc 46:569-576 (1998).
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