

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
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NAME Rashid L Bashshur	POSITION TITLE Director of Telemedicine University of Michigan Health System		
eRA COMMONS USER NAME (credential, e.g., agency login) bashshur			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
American University of Beirut, Lebanon	B.A.	1954	Sociology & Psychology
American University of Beirut, Lebanon	M.A.	1956	Sociology
University of Michigan, Ann Arbor, MI	Ph.D.	1962	Sociology

A. Personal Statement

Since the early 1970's, I have been a catalyst for the development and evaluation of telemedicine systems in the U.S. and elsewhere. While at the National Academy of Sciences (Institute of Medicine) from 1970 to 1972, I was consultant to the Office of Economic Opportunity on the use of telecommunications to support rural health programs. I organized the first two national meetings/workshops on telemedicine, whose proceedings were published as *Telemedicine: Exploration in the Use of Telecommunications in Health Care* (1975). In the late 1970's, I was commissioned by the Indian Health Service and NASA to report on STARPAHC (Space Technology Applied to Rural Papago Health Care), published as *Technology Serves the People* (1981) by the Government Printing Office.

I have published extensively on telemedicine; I maintain an active speaking schedule, and I have worked with policy-makers at institutional, national and international levels. I was co-founder of the *Telemedicine Journal*, a multidisciplinary peer-reviewed journal, and Editor-in-Chief from 1995 to 2005, now Editor-in-Chief Emeritus. I was senior editor with Jay Sanders and Gary Shannon of, *Telemedicine: Theory and Practice* (1997) published by Charles Thomas. Most recently, I co-authored *The History of Telemedicine, Evolution, Context and Transformation*, with Gary Shannon, published by Mary Ann Liebert in 2009 with support from The National Library of Medicine.

I have served as scientific program chair of the American Telemedicine Association (ATA) Annual Meeting, 1997, and co-chair in 1998, 1999 and 2000. On May 2000, I was elected president to the ATA for a two-year term, now President-Emeritus. I was senior editor of three reports on telemedicine that were submitted to the U.S. Congress, 1994, 1995, and 2001.

In January 2000, I chaired a WHO "International Consultation" in Geneva aimed at developing a global strategy for telemedicine / telehealth / telematics. In August 2001, I co-chaired the International State-of-the-Art Symposium on Telemedicine/Telehealth, which was co-sponsored by the University of Michigan Health System and the World Health Organization, and supported by numerous federal agencies and private organizations. In May 2004, I chaired the Second International Conference on Future directions for Telemedicine, also supported by several federal agencies and private organizations. The proceedings from both conferences were published in the *Telemedicine and eHealth* journal. In May 2012, I convened a special symposium on the Sustaining and Realizing the Promise of Telemedicine. The proceedings were published in the *Telemedicine and eHealth* journal.

B. Positions and Honors

Positions and Employment

- 1968-2004 Associate Professor, Acting Chairman, Professor, Professor, Emeritus, Health Management and Policy, School of Public Health, University of Michigan, Ann Arbor
1970-1972 Staff Associate, Medical Care Organization and Evaluation, Institute of Medicine, National

Academy of Sciences, Washington, DC
1998-2013 Executive Director, Telemedicine, University of Michigan Health System, Ann Arbor.
Now Senior Advisor.

Other Experience and Professional Memberships

American Telemedicine Association
1997-2000 Chair then co-Chair (Scientific Program Committee)
1997-2000 Board of Directors
2000&2001 President
2002 - President Emeritus
2008 - Chairman, Accreditation Committee

Honors

1977 Group Achievement Award, from NASA for my work on STARPAHC in Arizona.
1995 Special Appreciation for Contributions to the Airlie House Conference on Telemedicine Policy, Eastman Kodak.
1999 Founders Award, Arizona Telemedicine Program, Tucson, Arizona.
2000 Invited keynote speaker in Brazil and Saudi Arabia
2001 Authentic Telemedicine Pioneer, UMHS-WHO joint symposium, Ann Arbor, Michigan.
2001 Invited keynote speaker in Argentina and UK
2002 Invited keynote speaker in Dubai
2004 Invited keynote speaker in Mexico, Dominican Republic, and Sweden
2005 Invited keynote speaker in Venezuela
2007 Invited keynote speaker in France
2010 Leadership Award, Partners HealthCare System, Boston Massachusetts
2013 President's Leadership Award, American Telemedicine Association

C. Selected Peer-reviewed Publications (Selected from 47 peer-reviewed publications)

Most relevant to the current application

1. **Rashid L. Bashshur** and Patricia A. Armstrong. Telemedicine: A New Mode for the Delivery of Health Care. *Inquiry*, September 1976: 233-244
2. **Rashid L. Bashshur** and Joseph Lovett. An Assessment of Telemedicine: Results of the Initial Experience. *Aviation, Space and Environmental Medicine*, January 1977: 65-70
3. **Rashid L. Bashshur**. Public Acceptance of Telemedicine in a Rural Community. *Biosciences Communications*, January 1978: 17-38
4. Joseph Lovett and **Rashid L. Bashshur**. Telemedicine in the U.S.A., An Overview. *Telecommunications Policy*, 1979. 3(1): 3-14
5. **Rashid L. Bashshur**. Telemedicine Effects: Cost, Quality and Access. *Journal of Medical Systems*, 1995. (19(2): 1-11
6. **Rashid L. Bashshur**. On the Definition and Evaluation of Telemedicine. *Telemedicine Journal*, 1995. 1(1): 19-29
7. **Rashid L. Bashshur**. Critical Issues in Telemedicine. *Telemedicine Journal*, 1997. 3(2): 113-126
8. **Rashid L. Bashshur**. Rethinking the Evaluation and Priorities in Telemedicine. *Telemedicine Journal*, 1998. 4(1): 1-4
9. **Rashid Bashshur**, Gary Shannon and Timothy Reardon. Telemedicine, A New Healthcare Delivery System. *Annual Review of Public Health*, Volume 21, 1999. 613-637.

10. **Rashid L. Bashshur.** Editorial: Telemedicine Nomenclature: What Does It Mean? *Telemedicine Journal*, 2000. 6(1): 1-3
11. **Rashid L. Bashshur.** Where We Are in Telemedicine/Telehealth, and Where We Go from Here. *Telemedicine Journal*, 2001. 7(4): 273-277
12. **Rashid L Bashshur**, Gary W Shannon, et al. National Telemedicine Initiatives: Essential to Healthcare Reform. *Telemedicine and e-Health*, 2009 15(6). 1-11
13. **Rashid Bashshur** and Gary Shannon, *History of Telemedicine*, Mary Ann Liebert, 2009.
14. **Rashid Bashshur**, Gary Shannon, Elizabeth Krupinski, Jim Grigsby. Taxonomy of Telemedicine, *Telemedicine and e-Health*, 2011 (17(6). 484-499.
15. **Rashid L Bashshur** and Gary W Shannon. Invited Paper: Telemedicine as a Modality of Health Care Delivery and its Implications: *Encyclopedia of Cyber Behavior*, 2012. 620-633.
16. **Rashid Bahshur**, Gary Shannon, and Elizabeth Krupinski, Sustaining and Realizing the Promise of Telemedicine, *Telemedicine and eHealth*, 2013, 19(5). 339-343.
17. **Rashid Bashshur**, Compelling Issues in Telemedicine, *Telemedicine and eHealth*, 2013, 19(5). 330-332-

D. Research Support

1R13 LM 011263-01 Bashshur (PI) 01/12 to 8/30/12 National Library of Medicine

Best Practices in Telemedicine Symposium-Workshop

The goal of this project is to address a national need for up-to-date reliable and authoritative guidelines for the optimal implementation of telemedicine systems in various contexts.

Role: Principal Investigator