

## CURRICULUM VITAE

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### **PART I: General Information**

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**Place of Birth:** Boston, Mass.

### **Education:**

1958 A.B., Harvard College  
1962 M.D., Northwestern University. Medical School

### **Postdoctoral Training:**

1962-1963 Intern in Medicine, Stanford University Hospital, Medicine, Stanford University Hospital  
1963-1966 Resident in Radiology, Massachusetts General Hospital

### **Licensure and Certification:**

1967 Board Certification in Radiology, American Board of Radiology  
1974 Board Certification in Nuclear Medicine  
1974 American Board of Nuclear Medicine

### **Academic Appointments:**

1969 Instructor in Radiology, Harvard Medical School, Boston, MA  
1972-1975 Assistant Professor of Radiology, Harvard Medical School, Boston, MA  
1974-1976 Associate Chairman for Curriculum, Division of Medical Sciences, Harvard University, Boston, MA  
1975-2005 Associate Professor of Radiology, Radiology, Beth Israel Deaconess Medical Center, Boston, MA

**Hospital or Affiliated Institution Appointments:**

- 1969-1972 Assistant Radiologist, Radiology Service, Massachusetts General Hospital, Boston, MA
- 1976-1979 Associate Radiologist, Massachusetts General Hospital
- 1979-1996 Staff Radiologist, Division of Nuclear Medicine, Department of Radiology, Beth Israel Hospital
- 1996- Staff Radiologist, Division of Nuclear Medicine, Department of Radiology, Beth Israel Deaconess Medical Center (East)

**Hospital and Health Care Organization Clinical Service Responsibilities:**

- 1969-1972 Radiologist, Radiology Service, Massachusetts General Hospital
- 1979-1996 Radiologist, Division of Nuclear Medicine, Department of Radiology, Beth Israel Hospital
- 1996- Radiologist, Division of Nuclear Medicine, Department of Radiology, Beth Israel Deaconess Medical Center (East)

**Major Administrative Responsibilities:**

- 1969-1979 Director, Radiology Research, Department of Radiology, Massachusetts General Hospital
- 1979- Director, Division of Nuclear Medicine, Department of Radiology, Beth Israel Hospital

**Major Committee Assignments:**

- 1979- Radiation Safety, Chairperson, Beth Israel Deaconess Medical Center (East)
- 1979- Radioactive Drug Research, Chairperson, Beth Israel Hospital and Beth Israel Deaconess Medical Center

**Professional Societies:**

- 1967- Radiological Society of North America, Member
- 1969- American College of Radiology, Member
- 1974- Society of Nuclear Medicine, Member
- 1974- American College of Nuclear Medicine, Member

**Awards and Honors:**

- 1966 Advanced Academic Fellow, James Picker Foundation
- 1969 Scholar Award in Radiological Research, James Picker Foundation
- 1991 Fulbright Senior Faculty Scholar, Hebrew University, Jerusalem

## **Part II: Research, Teaching, and Clinical Contributions**

### **A. Narrative report of Research, Teaching, and Clinical Contributions**

My major research efforts have focused on the application of computers in radiology. After analyzing delays in radiology reporting, I described a solution to this serious problem based on rapid access to dictated radiology reports via telephone (RTAS). RTAS, and similar systems sold by several vendors are now installed in virtually every hospital in the country. Before the introduction of RTAS, radiology reports typically were not available to referring clinicians for days and often a week or longer after dictation, because of delays in typing, radiologist review, signing, distribution of the paper copy etc. As soon as a report was dictated in RTAS however, it became available to the referring physicians.

Because of the detailed management data provided by RTAS, it became the first introduction to radiology information systems, which have become widespread in many Radiology Departments. RTAS usage has spread from radiology to medical records, pathology, cardiology and other areas of medicine where dictation is used. The system concept also became rapidly applied to non medical applications. The RTAS patents for which I am an inventor, first described what is now widely known as voice mail, and these patents have been licensed to several large voice mail vendors.

In 1981, our Division of Nuclear Medicine became the first to implement teleradiology on a routine basis for reading radiology studies when on call, and to send studies from remote sites for interpretation.

In 1986, we were the first medical imaging department to integrate a fully digital filmless department (PACS).

In 1992, we were the first imaging department to utilize the internet for study transmission of oncall studies. In 1996, we were the first to use high speed cable modems for this purpose.<sup>1</sup>

#### **1. Local Contributions –**

##### **a. Graduate Courses**

1966-1979

Resident teaching in a clinical setting, Massachusetts General Hospital.  
Residents, 12/yr. Contact Time, 16 hrs/wk. Prep time 2 hr/wk.

1966-1979

Post Doctoral Research Fellows teaching, Massachusetts General Hospital.

1979-1996

Resident teaching in a clinical setting,  
Beth Israel Hospital.  
Residents, 14/yr. Contact Time 30 hrs/wk.  
Prep time 4hrs/wk.

1996-

Resident Teaching in a clinical setting.

1997- Beth Israel Deaconess Medical Center

Residents, 14/yr. Contact Time, 30hrs/wk.

Prep time 4 hrs/wk.

b. Local Invited Teaching presentations (grand rounds, seminars, etc.)

1979

Three to four grand rounds/yr. at local hospitals.

1979-

Conference leader of daily nuclear medicine teaching rounds at Beth Israel Hospital.

1980-1998

Participant in Harvard Joint Program in Nuclear  
Medicine post-graduate course.

2004-

Nashoba Valley Medical Center

Continuing Education Program Teacher

"New Advances and Capabilities in Nuclear Medicine"

1. Description of Clinical Practice

Nuclear Medicine, Four sites of clinical practice.

-BIDMC East Campus inpatient

-BIDMC Shapiro Center

-West Campus

-BIDMC Needham, Department of Nuclear Medicine.

2. Patient Load and Complexity.

We have four clinical sites, integrated within an all digital department. We were the first (1986) to integrate a filmless fully digital division of medical imaging and to practice teleradiology (1982). Because of our early computerized management of images, workflow and reporting, we have been able to build the largest clinical nuclear medicine department in the Boston area. Currently we perform about 50 studies per day, including the latest antibody scans, PET/CT scans and lymphoscintigraphy. Because of at home cable access to studies by attending nuclear medicine physicians and an onsite technologist 24 hours/day, we are the only nuclear medicine department in the area to offer immediate 24 hour service with interpretations, so that emergency studies can be rapidly dispatched.

## B. Funding Information

1990-1994 P.I., U.S. Government, Role of RNA in In Vitro Gene Transcription  
1994- P.I., B.I. Hospital Radiological Foundation, Nucleic Acids Involved in Pol 1 In Vitro Transcription  
2006- P.I., Cardinal Health, Use of PET/CT in the Detection of Coronary Artery Inflammation  
2006- P.I., BIDMC Radiological Foundation, Study to Correlate Known Sites of Coronary Artery Inflammation with FDG Uptake on PET/CT Scan

## C. Report of Other (Non-Funded) Activities

P.I. Evaluation of diagnostic strategies in Radiology  
P.I. Computers in medical imaging  
Co-investigator Quantitative SPECT  
Co-investigator Ga-67 scanning in the evaluation of lymphoma.  
P.I. Regulation of in vitro eukaryotic transcription  
P.I. Picture archiving communication and storage systems in medical imaging

## D. Report of Teaching

### 1. Local contributions

#### b. Graduate Medical Courses

1966-	<u>Resident Teaching in a Clinical Setting</u>		<i>contact time</i>	<i>prep time</i>
	Attending	12 Resident	16 hours/week for 1 week(s)	2 hours/week for 1 week(s)
1966- 1979-	<u>Post Doctoral Research Fellow Teaching</u> <u>Resident Teaching in a Clinical Setting</u>		<i>contact time</i>	<i>prep time</i>
	Attending	14 Resident	30 hours/week for 1 week(s)	4 hours/week for 1 week(s)
1996- 1997-	<u>Resident Teaching in a Clinical Setting</u> <u>Resident Teaching in a Clinical Setting</u>		<i>contact time</i>	<i>prep time</i>
	Attending	14 Resident	30 hours/week for 1 week(s)	4 hours/week for 1 week(s)

### **c. Local Invited Presentations**

#### **Conference Leader of Nuc. Med**

1979- Gerald M. Kolodny, Beth Israel Hospital

#### **Participant in Harvard JPNM**

1980-1998 Gerald M. Kolodny, Beth Israel Hospital

#### **Three to Four Grand Rounds/Yr.**

1979- Gerald M. Kolodny, Local Hospitals

### **d. Continuing Medical Education Courses**

1980-1998 Harvard JPNM Annual post graduate course.

2004 New Advances and Capabilities in Nuclear Medicine  
Conference Leader: 0 participants, 4 hours contact time per day, no prep time reported

### **f. Leadership Roles**

1979-2004 Director, Division of Nuclear Medicine, Beth Israel Deaconess Medical Center (East)  
Responsibility: Supervise clinical and teaching program for JPNM nuclear medicine fellows and BIDMC radiology residents

## **2. Regional, national, or international contributions**

### **a. Invited Presentations**

#### **International**

1992-2007 Lectures and resident teaching, Rambam Medical Center [*Visiting Professorship*]

## **3. Description of Teaching Award(s) Received**

1999 Recognition for Making an Exemplary Commitment to Resident Education.  
BIDMC Radiology Residents

2001 Recognition for making an exemplary commitment to resident education.  
BIDMC Radiology Residents

#### **4. Description of major curriculum offerings, teaching cases or innovative educational programs developed**

1992- Educational Program  
Developed Passport Program- Harvard Medical School Joint Program in Nuclear Medicine.

1992- Teaching Cases  
Developed Passport Program- HMS JPNM.

### **Part III: Bibliography**

#### **Original Articles**

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6. Kolodny GM. Patterns of protein synthesis in the HeLa cancer cell. *Am J Roentgenol Radium Ther Nucl Med.* 1969;105(4):746-55.
7. Kolodny GM, Gross PR. Changes in patterns of protein synthesis during the mammalian cell cycle. *Exp Cell Res.* 1969;56(1):117-21.
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