

NLM Training Programs

- Woods Hole Medical Informatics Course
 - 1 week intensive
- Extramural informatics training grants
 - some have joint programs with Schools of Library and Information Science
- Individual informatics fellowships
 - at LHC, NCBI, and Extramural (in revision now)

NLM Training Programs

- NLM and NN/LM “CE” Courses
 - Short courses: PubMed, TOXNET, etc.; HSR courses; new Bioinformatics and UMLS courses
- Associate Fellowship Program
 - ALA-accredited MLS required
 - 1st yr at NLM
 - optional 2nd year at another site

What Health Information Professionals Do

(*What CMLs/Informationists Do or Should Do??)

- Identify and meet individual information needs*
- Build information resources, services, tools, and infrastructure*
- Train people to use or to build information resources, services, tools, and infrastructure*
- Do outreach to increase awareness and use of resources and services
- Conduct research and evaluation on any of the above
- Lead and manage people engaged in any of the above
- Contribute to the development of institutional and public policies related to any of the above

Current NLM Training Program Emphases

	Woods Hole course	Extramural training grants	Individual fellowships
Identify/meet individual info. needs	--	--	--
Build info. resources , tools, infrastructure	X	X	X
Train	X	--	--
Do outreach	X	--	--
Conduct research and evaluation	--	X	X
Lead/Manage	X	X	sometimes
Contribute to policy	X	sometimes	sometimes

Current NLM Training Program Emphases

	CE courses	Associate Fellowship (1st y)	Associate Fellowship (2nd y)
Identify/meet individual info. needs	X	--	sometimes
Build info. Resources, tools, infrastructure	X	X	sometimes
Train	X	X	sometimes
Do outreach	--	X	sometimes
Conduct research and evaluation	--	X	sometimes
Lead/Manage	--	X	X
Contribute to policy	--	X	sometimes



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Cancer Medicine ^{e.}5

Bast Kufe Pollock Weichselbaum Holland Frei

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Clinical Features

Renal cell carcinoma can present with a multiplicity of clinical manifestations ranging from the classic presenting triad of hematuria, pain, and palpable renal mass to more obscure symptoms such as those of paraneoplastic syndromes ([Table 105.1](#)). The classic triad usually indicates patients with far-advanced disease, and it is seen in less than 10% at presentation. More commonly, renal tumors are discovered incidentally during the course of various diagnostic studies.

Bottom Line

- Existing NLM training programs serve important purposes, but are not well-suited to training clinical informationists
- In the short term, 2nd year Associate Fellowships, and possibly new Individual Informatics Fellowships and/or demonstration project grants can be used to train small numbers
- A new program would be needed to support training of larger numbers if that proves desirable