

Interlibrary Loan Patterns in DOCLINE Fiscal Year 2005

Medical Library Association 2007
Philadelphia, PA

Maria Elizabeth Collins
National Library of Medicine, NIH/HHS



Scope of Journal Use Study

- FY 2005: Oct 1, 2004 – Sept 30, 2005
- Journal **title** use by biomedical libraries
- Journal **article** use
- Use through interlibrary loan only
 - Not use within the library
 - Not personal subscriptions

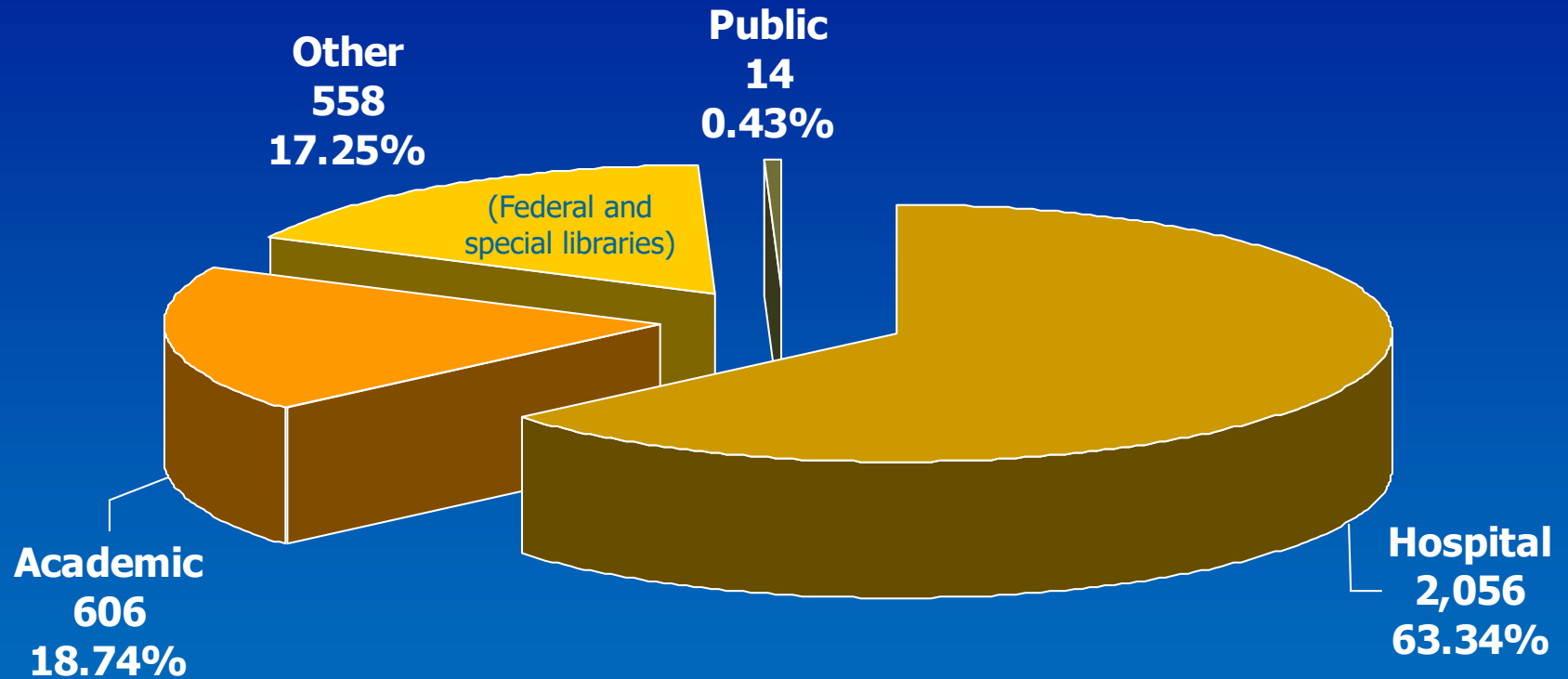


DOCLINE

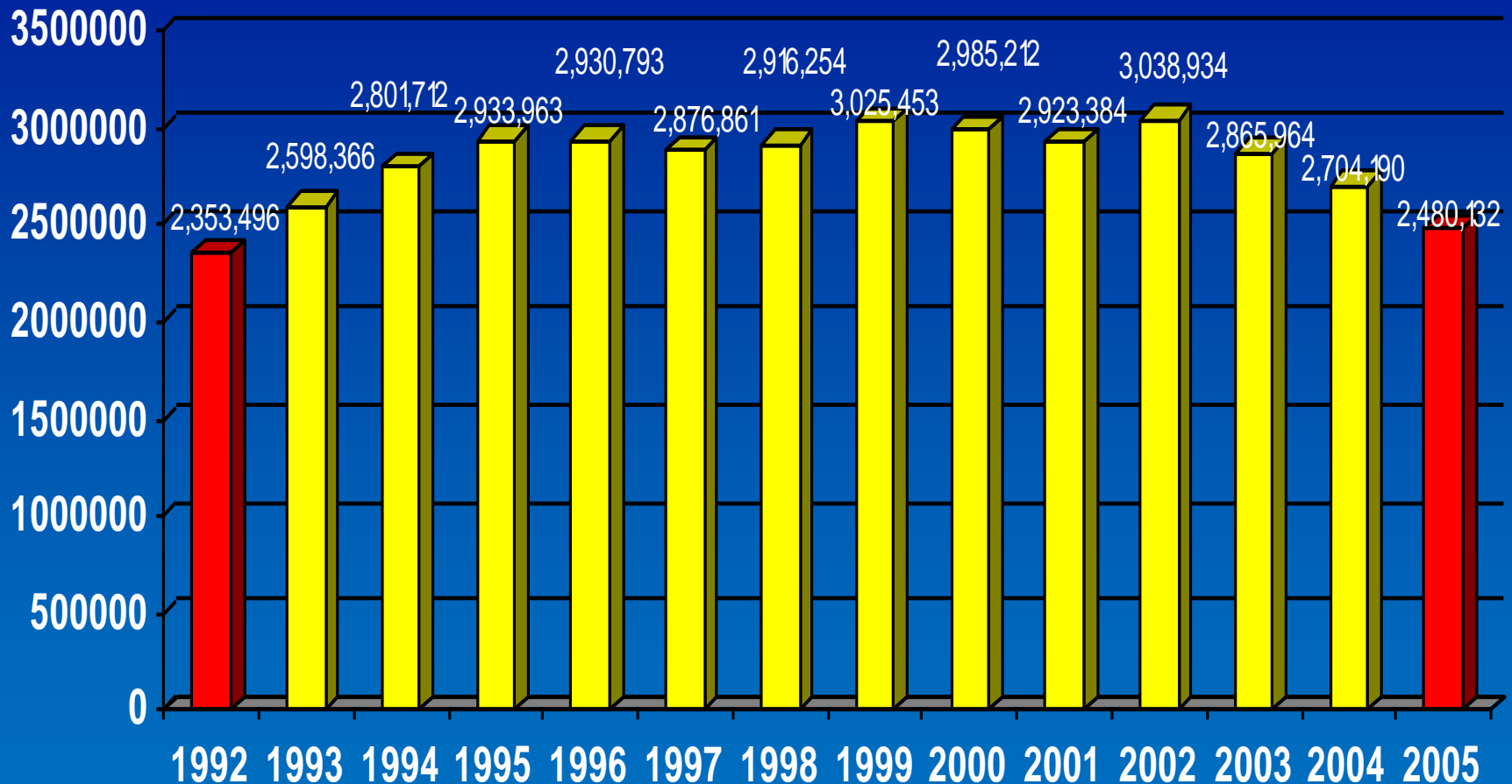
- ILL request routing and referral system
- Launched in 1985
- 3,234 libraries participating in 2005
 - 2,861 US libraries
 - 325 Canadian libraries
 - 48 international libraries
- 2.48 million requests in FY2005
- Fill rate: 91.2%
- Average number of routes to complete ILL: 1.2



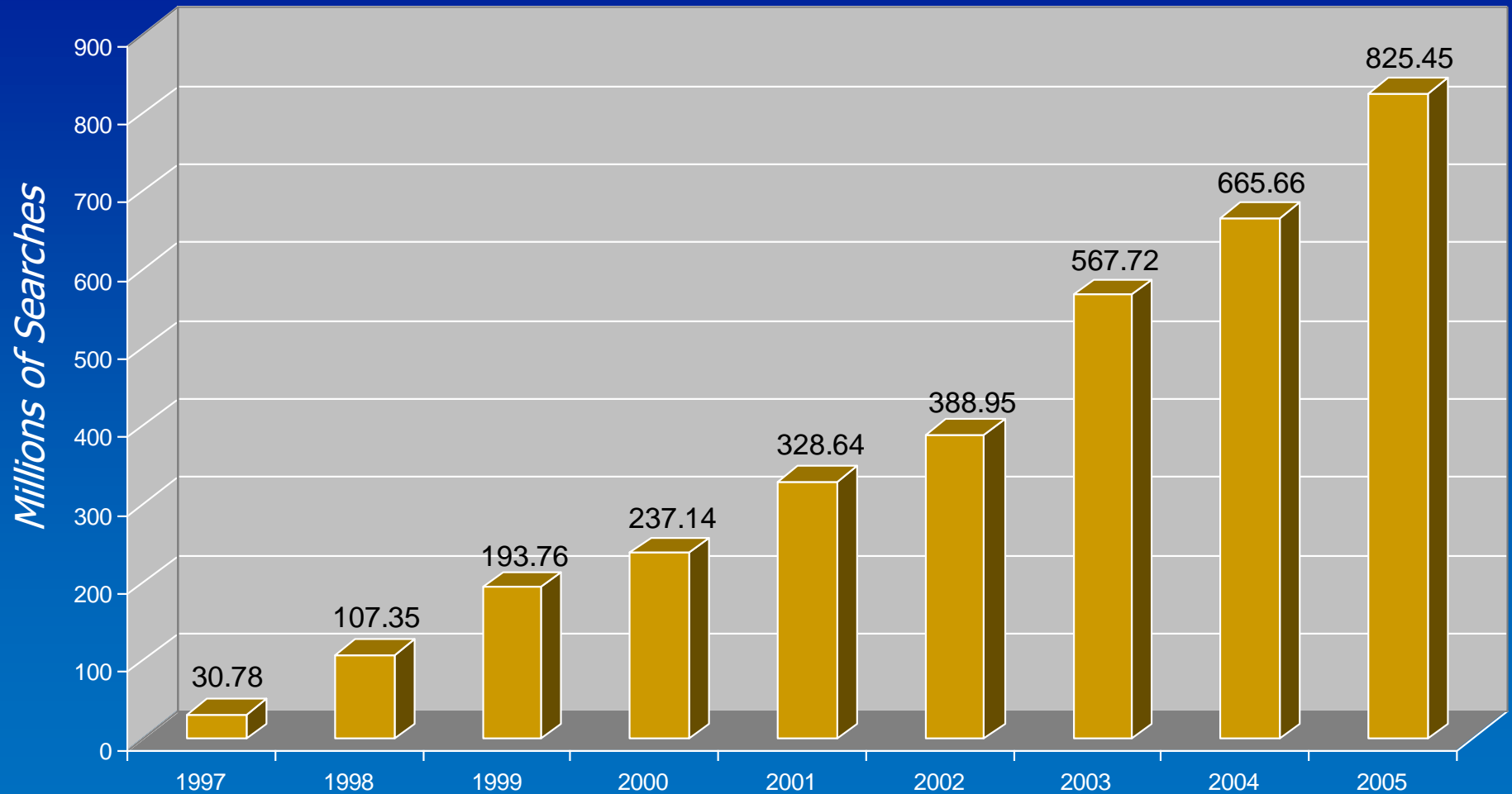
Type of Libraries



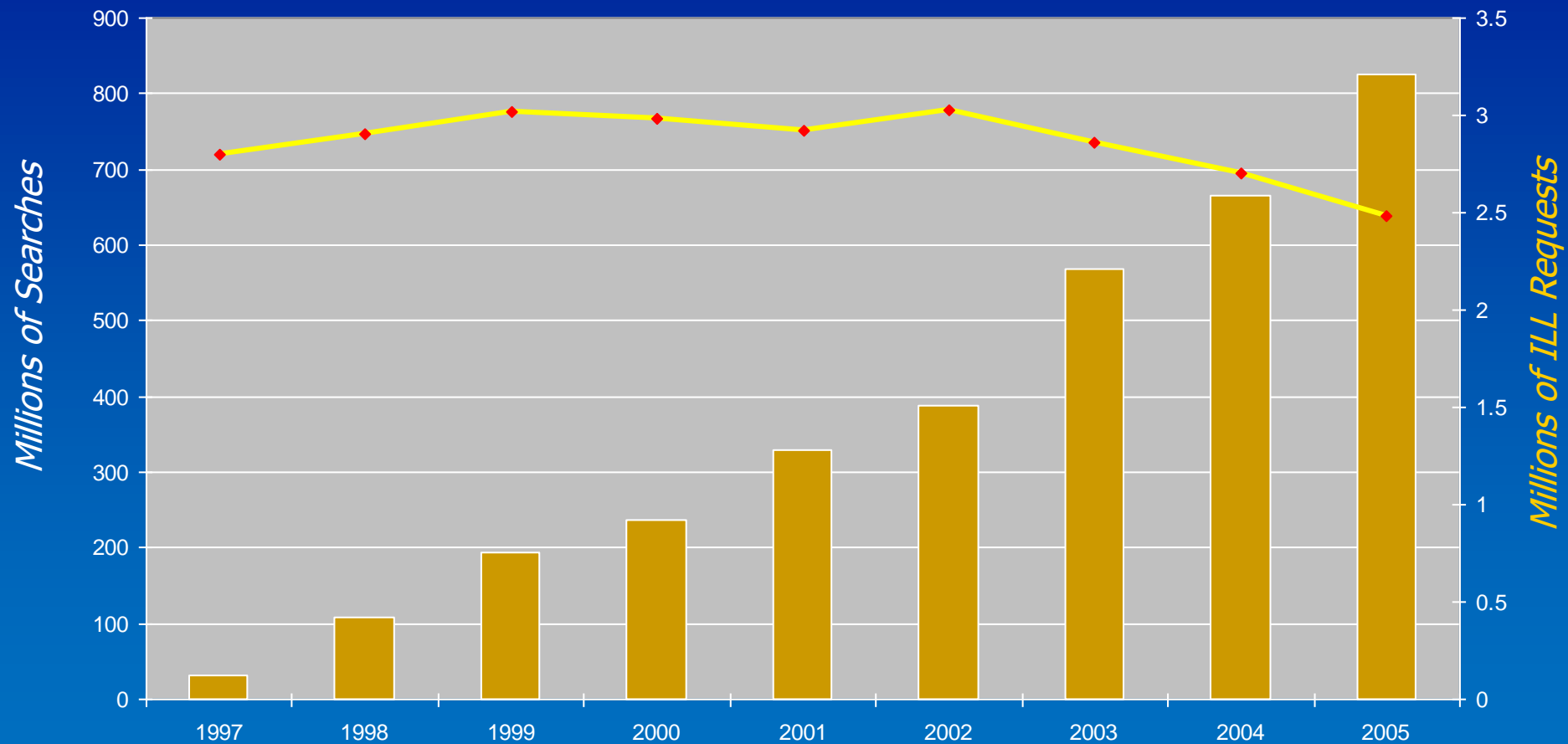
ILL Requests



PubMed Searches



PubMed Searching vs. ILL Requests



Methodology

- ILL transaction data from DOCLINE
- 2.22 million filled article requests analyzed
- Supplemental journal and article bibliographic data from:
 - NLM citation system for PubMed – DCMS
 - NLM ILS – Voyager
 - NLM Serials Extract File - SEF
- Summary data downloaded to Microsoft Excel to produce charts and graphs



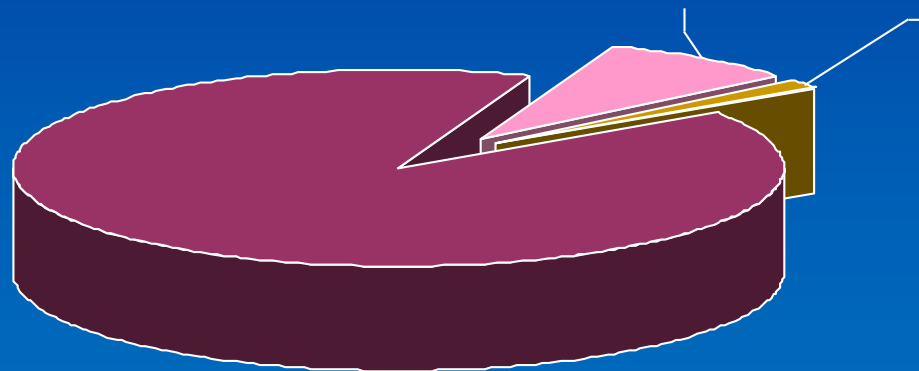
All DOCLINE Requests

**Total: 2.48 million
requests**

**Filled
Journal
Requests
90%**

**Unfilled
Journal
Requests
8%**

**Non-
Journal
Requests
(filled and
unfilled)
2%**



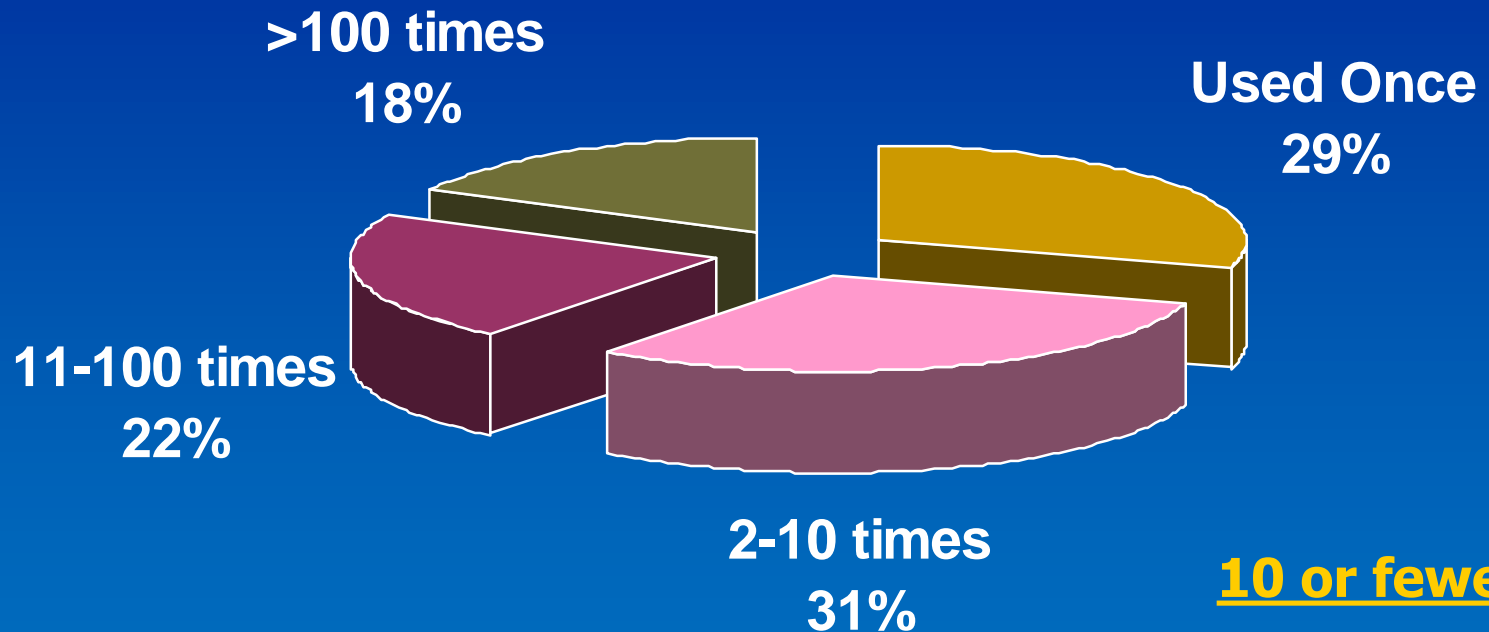
Serials

- 124,000 serial titles in NLM's catalog
 - 26,000 serial titles held only in Network libraries (not at NLM)
- 44,680 are currently published serials that are likely to have articles
- 3,065 libraries reporting holdings
- 1,440,878 serial holdings reported



Journal Title Use

21,258 Journal titles used



10 or fewer times:

2005: 60%

1992: 58%



Top Requested Journal Titles

■ New England Journal of Medicine 1928 -	6,556
■ JAMA 1896 -	6,320
■ Obstetrics and Gynecology 1953-	6,000
■ Nursing Times 1905 -	5,379
■ Lancet 1823 -	5,264
■ Academic Emergency Medicine 1994 -	5,155
■ Obesity Surgery 1991 -	5,118
■ Clinical Orthopaedics and Related Research 1963-	5,084
■ Annals of the New York Academy of Sciences 1877 -	4,820
■ Spine 1976 -	4,777
■ American Journal of Obstetrics and Gynecology 1920 -	4,146
■ Annals of Pharmacotherapy 1992 -	4,047
■ Expert Opinion on Pharmacotherapy 1999 -	3,971
■ Journal of Clinical Psychiatry 1978 -	3,962
■ Journal of Advanced Nursing 1976 -	3,938



New England Journal of Medicine

- Owned by 2,745 libraries
- Requested 6,556 times
- Requested by 1,475 different libraries
 - 1,301 of these libraries own the title (88%)
- Filled 6,208 times
- Filled by 1,382 different libraries
- Why ordering: Lacking the issue



NEJM: Requests by Pub Year

■ 2005: 505	7.70%	■ 1995: 49	0.75%
■ 2004: 592	9.03%	■ 1994: 108	1.65%
■ 2003: 110	1.68%	■ 1993: 103	1.57%
■ 2002: 105	1.60%	■ 1992: 289	4.41%
■ 2001: 104	1.59%	■ 1991: 373	5.69%
■ 2000: 88	1.34%	■ 1990: 190	2.90%
■ 1999: 60	0.92%	■ 1989: 254	3.87%
■ 1998: 54	0.82%	■ 1988: 227	3.46%
■ 1997: 45	0.69%	■ 1987: 169	2.58%
■ 1996: 78	1.19%	■ 1986: 209	3.19% 57%



Journal Titles – Requests Not Filled

■ Scientific World Journal (e) 2000-	574
■ Studies in Health Technology and Informatics 1991-	379
■ CNS Spectrums 1996-	318
■ Methods in Molecular Medicine 1996-	316
■ Expert Opinion in Pharmacotherapy 1999-	314
■ Annals of the New York Academy of Sciences 1877-	279
■ Current Drug Targets. Inflammation and Allergy 2002-	265
■ Asia Pacific Journal of Clinical Nutrition 1992-	256
■ Expert Review of Anti-Infective Therapy 2003-	251
■ Expert Review of Cardiovascular Therapy 2003-	220
■ Surgical Technology International 1991-	219
■ Clinical Gastroenterology and Hepatology 2003-	211
■ Methods in Molecular Biology (NJ) 1984-	207
■ Advance for Nurse Practitioners 1993-	203
■ American Journal of Clinical Pathology 1931-	200

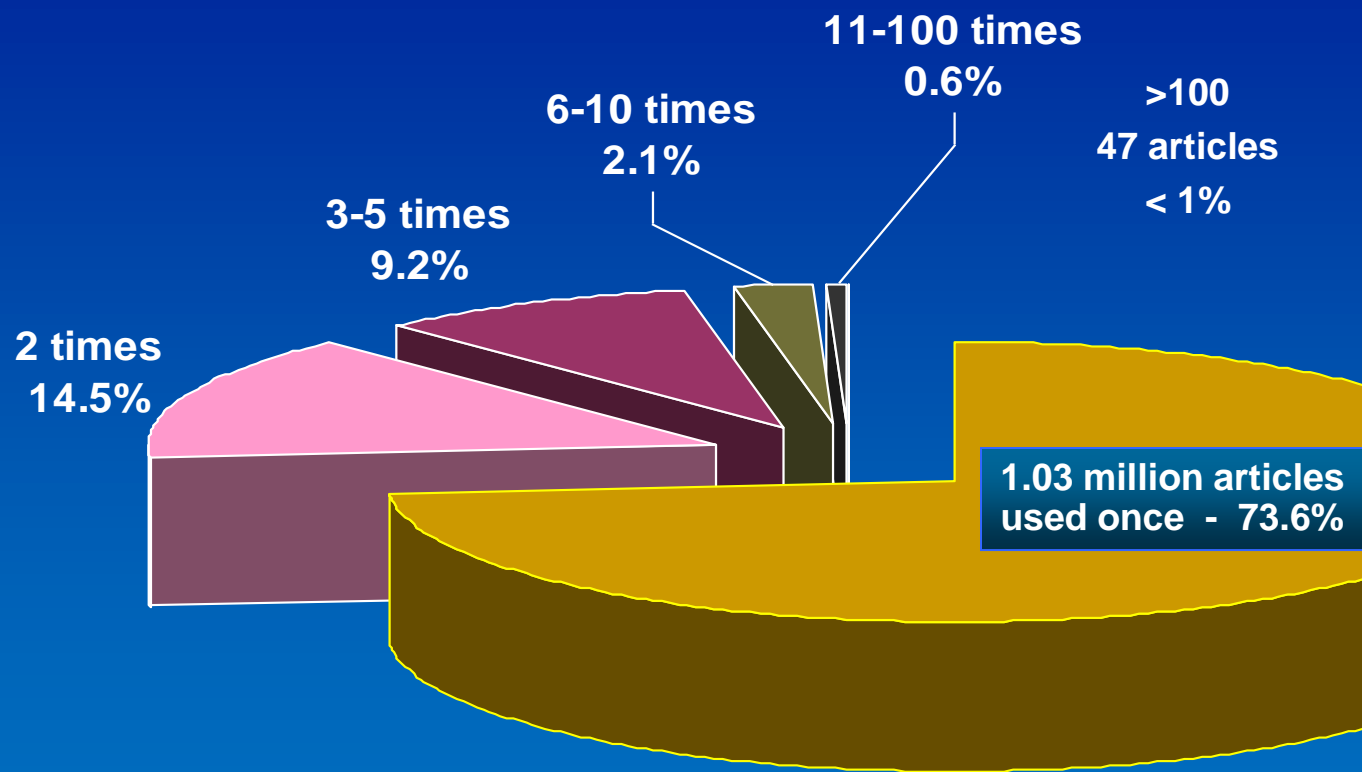


Journals Cited in PubMed

- 2,225,350 filled requests analyzed
- 1,991,073 requests for **articles** in PubMed
 - 89.4% filled articles cited in PubMed
- 21,258 journal **titles** used to fill requests
- 9,966 of those **titles** are cited in PubMed



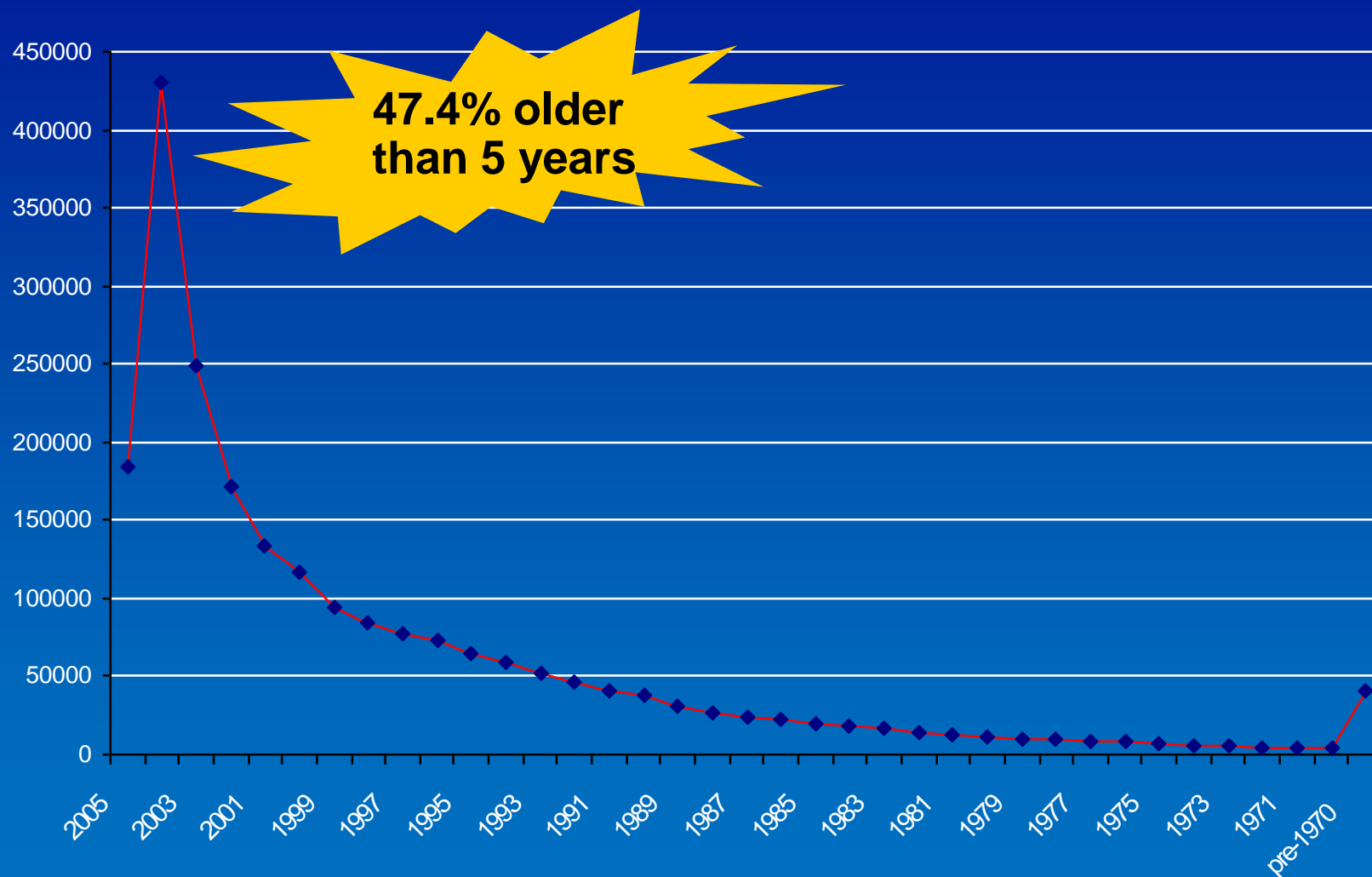
Individual Article Use



1.4 million articles used to fill 2.22 million requests



Date Distribution of Article Requests



Date Distribution Comparison

FY 1992

- 25 years: 95%
- 10 years: 85%
- 5 years: 67%

FY 2005

- 25 years: 95.1%
- 10 years: 72.7%
- 5 years: 52.5%

New England Journal of Medicine 20 years: 57%



Other Characteristics of Articles

- PubMed
 - 89.4% of articles supplied were cited in PubMed
- Language
 - 94.3% were from English language journals
 - 2.7% were from journals that contained no English articles
- Publication
 - 89.9% were from journals that are currently published



Journals with articles filled > 100 times

- Fertility and sterility (2 articles)
- Obstetrical & gynecological survey
- Journal of the American College of Cardiology
- Annals of surgery
- Academic emergency medicine (4 articles)
- Journal of critical care
- Journal of ultrasound in medicine
- Seminars in reproductive medicine
- Endocrine practice (2 articles)
- Obstetrics and gynecology (20 articles)
- Resuscitation (2 articles)
- Treatment guidelines from the Medical Letter
- Journal of emergency Medicine
- American journal of obstetrics and gynecology (5 articles)
- Nature Medicine
- Journal of psychiatric research
- Human reproduction
- Lancet



In Summary

- Volume of ILL has not increased over 1992, with a peak of 3 million in 2002
- Use of PubMed increased from 30 million searches **per year** in 1997 to over 2 million **per day** in 2005
- In 2005, Medical Libraries:
 - Filled 2.22 million ILL requests
 - Used 21,258 different titles
 - Used 1.4 million different articles



Articles Used to Fill

- 73.6% were used only once
- 97% used 5 or fewer times
- 47 articles were used > 100 times
- 89.4% are cited in PubMed
- 52.6% published within latest 5 years
- Most articles requested are English language



More Information

- Study published in the Journal of Medical Library Association
 - J Med Libr Assoc. 2007 April; 95(2): 189–194.
- [Full-text available](#) in PubMed Central

