Information Technology Services - Medicine Monthly Report February 1999

Highlights and milestones

- A document imaging system to process several million pages of medical insurance forms went operational on Monday February 22
- The MEDLINE system, the 3rd most used system in the School behind email and the web, was upgraded in March 1 to be entirely Y2K compliant.
- In response to the closing of the Microcenter's hardware repair unit, ITS-Med developed a partnership with Advanced Office Systems to provide coordinated hardware and software repair for our clients.
- The EMPAC interfaces passed the Project X Integration Test.
- Phase I of the Student Affairs Systems Y2K remedation project was completed.
- The pilot Y2K evaluation of biomedical equipment was completed.
- ITS-Med completed its second annual performance appraisal, using a revised web-based 360-degree feedback system and new, streamlined appraisal tools, in a collaboration with Human Resources and Schoonover Associates.
- Electronic mail volume and web usage have increased by over 60% from a year ago.
- Use of AS/400 applications remains steady.
- Use of OVID databases has declined by 11% since last year.
- The Help Desk received more problem reports for Netscape Mail (46% more than 90-day average) and remote access (94% more than 90-day average).
- Turnaround time limits were achieved for 71% of work orders.
- Two-hundred forty-three work orders were put on delay, an increase of 135% from the 90-day average.
- Billable work orders decreased by 19%, to 64.2% of all work orders this month.



Information Technology Services-Medicine Monthly Report February 1999

Applications	this month	Feb-98 % c	<u>hange</u>
AS/400 applications	9,065	8,984	1%
CINAHL	296	740	-60%
Biosis	890	958	-7%
Clinical Reporting System (CRS)	251	511	-51%
accesses per user per month	5.2	8	-35%
Current Contents*	1,167	2,994	-61%
Electronic mail (# messages sent)	1,114,538	889,649	25%
messages per user per day	6.3	4.6	37%
HealthSTAR	320	800	-60%
MEDLINE	17,081	19,258	-11%
searches per active user per month	5.4	8.3	-35%
Psychinfo	1,466	-	-
Medical Center World Wide Web			
Medical Center home page	98,913	61,745	60%
Hospital home page	10,475	2,138	390%
School of Medicine home page	12,550	9,118	38%
Medical Library home page	13,793	16,026	-14%
*Dasis version discontinued as of 7/09 automat	io saamahas na langan inaludad		

^{*}Basis version discontinued as of 7/98, automatic searches no longer included.

Help Desk calls		change from
	this month	90 day average
Total calls	2,930	3%
Calls per day	147	3%
% of ITS-Med clients using Help Desk	33%	-15%
# of Yale affiliates using Web page	1,321	18%
% of calls rolling over to answering service	0.1%	-99%
Types of calls		
Call transfer	317	22%
Complaint	25	67%
Information request	661	12%
Remote access	94	24%
Netscape Mail	84	42%
ITS-Med services	77	120%
Problem report	1409	8%
Netscape Mail	186	46%
Remote access	157	94%
Eudora	147	-15%
Operating system	137	1%
Printer	133	-19%
Status inquiry	159	16%
Departments overcalling		

Psychiatry, Internal Medicine, Orthopaedics & Rehabilitation, Pediatrics OPS, ITS-Central, Child Study Center, HHMI, Cell Biology

of connections

Departments undercalling

NetMenu workstations

Library

	this month
Type of application	(MedMenu)

Type of application	(MedMenu)	Feb 1998 (NetMenu)	% change
Total	39,027	31,831	23%
connections from Library	94%		
connections from outside Library	6%		

Background information		Schools of
	Hospital	Medicine & Nursing
Personal computers as of 8/98	2,100	6,800
Electronic mail users as of 8/98	1,700	6,320
Networked computers as of 1/99	1,700	4,633
Full-time faculty, 1998-99	-	1,765
Medical & graduate students, 1998-99	-	869
Residents & postdocs, 1998-99	460	1,048
Full-time staff, 1998-99	3,440	2,332
Nursing staff, 1998-99	1,540	-
Number of beds, 1998-99	900	-

	•	change from
ITS-Med clients	this month	last month
Core network service	4,477	1%
Machine-only service	1,030	1%
Email-only service	527	9%
On-campus dial-up service	101	6%
Scheduling	1,234	2%
Remote access	1,240	8%
Workgroup computing	93	50%

Work orders			Turnar	ound met	
		change from		change from	
	this month	90 day average	this month	last month	
Tasks added	1402	18%	-	-	
Tasks completed	1371	12%	88%	-6%	
Delayed work orders	243	135%	-	-	
Billable work orders	64.2%	-19%	-	-	
Normal priority	80%	4%	89%	-8%	
Emergency priority	20%	-15%	86%	1%	
Problem reports	296	2%	97%	0%	
Operating system	90	36%	99%	-1%	
Printer	56	-8%	96%	-4%	
Network access problem	50	6%	98%	-2%	
New services	863	38%	80%	-15%	
Netscape Mail	209	553%	81%	-19%	
Microsoft Mail conversion	122	23%	84%	-13%	
Remote access	113	69%	92%	-3%	
Service cancellations	23	-30%	90%	5%	
Departments over-ordering	Facilities, OPS, EPH, Internal Medicine				
Departments under-ordering	Anesthesiology, Child Study Center, Genetics, ITS-Med, ITS-Central				

Hospital NetMenu # of connections

this month	Feb-98	% change
9,979	36,428	-73%
92	361	-75%

Overall usage for selected databases

	<u>Jan-98</u>	Feb-98	Mar-98	Apr-98	May-98	Jun-98	Jul-98	Aug-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99
<u>Summary</u>														
AS/400 applications	10,249	8,984	9,831	9,730	9,772	12,915	14,459	10,497	10,613	10,852	7,888	7,192	9,816	9,065
Clinical Reporting System (CRS)	595	511	555	500	449	561	314	368	372	345	554	310	563	251
OVID sessions	18,931	19,258	20,620	20,905	15,843	16,120	16,859	13,935	17,604	20,025	20,100	13,798	16,111	17,081
Medical Center Web server	954,720	974,557	1,072,451	1,052,005	997,452	1,011,068	1,002,890	1,040,921	1,220,255	1,376,407	1,376,407	1,352,920	1,545,299	1,568,689
Electronic mail messages sent	788,285	883,649	875,834	1,103,450	949,851	777,328	772,938	568,329	782,760	899,060	1,297,225	1,316,891	1,286,579	1,486,051
Details: AS/400 applications														
Animal Care and Use Committee	93	80	107	70	137	129	83	129	124	136	169	141	57	164
Business Management Systems	84	79	76	96	70	123	115	105	120	122	100	106	96	89
Clinical G/L Interface	7	3	0	10	8	23	26	18	10	10	14	2	18	8
Clinical Information	7	1	7	2	11	3	3	5	4	0	1	0	4	1
Clinical Information - Reports	3	2	0	3	4	4	3	3	1	2	0	1	1	1
Diagnostic Laboratory	226	232	272	287	355	259	350	275	216	286	229	218	309	226
Graduate and Continuing Education	60	53	60	64	3	69	65	53	60	72	58	48	59	65
Grants and Contracts	402	385	316	291	70	325	388	338	372	442	396	295	380	375
Grants and Contracts - Reports	59	38	13	15	54	18	10	21	32	125	59	27	28	25
Human Investigation Committee	75	89	91	86	39	82	69	67	82	70	66	88	105	111
Human Resources (CHR) - Inquiry	38	31	50	34	252	55	68	65	67	43	41	41	52	69
Human Resources (CHR) - Merit	45	24	19 7	340	1,988	1,209	301	58	62	48	35	22	14	32
Human Resources (CHR) - Reports	6 94	78	64	31 44	74 61	27 52	12 35	27	47	53	37	29	29	7 34
Human Resources - General Human Resources - Inquiry	2,806	2,623	2,694	2,688	1,861	3,468	4,072	3,222	3,340	3,738	2626	2,358	3,313	2950
Human Resources - Inquiry Human Resources - Profiles	4,820	3,753	4,400	4,052	3,415	5,699	7,614	4,579	4,698	4,463	3193	2,633	3,974	3608
Human Resources - Promes Human Resources - Reports	312	310	262	244	253	178	188	297	214	167	144	170	286	212
Internal Medicine	74	27	4	1	0	6	19	13	12	31	17	57	56	25
MED5 - Reports	1	2	1	1	0	1	2	3	1	2	1	2	7	1
Office of Public Information		-	-		-	-	-					11	10	25
Physician Associates Program	27	55	14	21	16	3	5	0	1	19	15	20	40	28
Space Inventory System	41	23	39	29	64	23	15	76	179	68	63	35	44	32
Student Research	43	32	44	1	0	57	7	38	13	43	7	5	66	21
Student Systems	404	464	516	455	21	484	409	479	322	285	132	313	356	340
Support Services	93	97	140	148	386	137	175	161	179	173	141	131	117	207
System Administration	128	229	245	441	537	213	100	162	152	139	72	150	106	176
Yale Animal Resource Center	259	233	324	236	51	262	323	295	293	298	272	286	281	231
Other/Miscellaneous	42	38	66	40	42	6	2	7	8	17	0	3	6	2
Details: Electronic mail														
Electronic mail total	788,285	883,649	875,834	1,103,450	949,851	777,328	772,938	568,329	782,760	899,060	1,297,225	1,316,891	1,286,579	1,486,051
PMDF	570,473	653,982	633,034	800,676	678,282	600,109	600,849	568,329	782,760	899,060	1,297,225	1,316,891	1,286,579	1,486,051
email.med.yale.edu *Usage for email.med.yale.edu and estimated usa	217,812 age within MS Mail no	229,667 est offices was add	242,800 ded to total usas	302,774 e as of 8/97.	271,569	177,219	172,089	not avail*	not avail*					
				.										
Details: OVID														
Biosis							559	499	1,289	945	919	1,363	714	890
CINAHL							194	150	312	472	390	216	238	296
Compendex							158	90	162	141	122	89	221	182
Curent Contents				• • • •			1,281	1,209	1,485	2,289	1,012	884	1,179	1167
Full-Text Journal Collections	2,241	2,486	2,645	2,839		2,528	3,028	2,079	2,790	1,763	7,050	1,785	3,515	4090
HAPI							35	24	71	81	76	23	44	58
HealthStar							285	191	254	390	397	254	303	320
MEDLINE back files							8,172 7,215	6,552 2,044	7,768 6,747	7,466	6,468 5,437	4,927 4,646	6,004	6163 5691
MEDLINE back files PsychInfo							925	913	1,306	6,086 1,868	2,163	4,646 1,495	5,326 1,328	1466
access method: telnet sessions	11.239	10.584	10.850	9,938	7,597	7,330	6,909	5,910	7,270	6,862	5033	3,830	4,503	4,296
access method: teinet sessions access method: Web sessions	7,367	8,272	9,486	9,938 10,760	7,826	8,181	9,361	7,472	9,962	12,796	14453	9,618	11,096	12,295
access method: Z39.50	331	407	297	218	432	628	591	552	9,962	371	646	353	525	495
access method. Z37.30	100	407	291	210	432	020	371	332	41/	3/1	040	333	323	473

Medical Center Web usage report, February 1999

Top 10 pages accessed by Yale users

this year	<u>last year</u>
Medical Center	Medical Center
MedMenu	Medical Library
EPH Library	MedMenu
Medical Library	School of Medicine
School of Medicine	Desktop Support
Desktop Support	EPH Library
Server search	Server search
Medical Library's Internet search page	Medical Library's In

ry's Internet search page

Find a person Find a person

Keck DNA Sequencing FTP access Y-Axis (Medical Student Website)

Server total	Feb-99 1,568,689	<u>Feb-98</u> 974,557	% change 61%
Who connected			
Yale	414,963	252,090	65%
other US educational institutions	139,431	115,941	20%
US government & military	13,171	9,216	43%
US commercial institutions	240,229	189,325	27%
US non-profit organizations	15,259	8,341	83%
Major online service providers	173,103	101,794	70%
International	179,427	130,703	37%
# of unique hosts connecting	125,440	85,585	47%
Medical Center	98,913	61,745	60%
Yale-New Haven Hospital	10,475	2,138	390%
School of Medicine	12,550	9,118	38%
School of Nursing	1,831	1,207	52%
Major resources			
Admissions, School of Medicine	-	-	-
CAIM style manual	109,510	74696	47%
Computing page	1,100	768	43%
Core research facilities page	421	346	22%
Education page	340	256	33%
Emerging Infections Information Network	1,601	2,305	-31%
Find a person	3,134	2,004	56%
Find a physician	1,141	732	56%
Medical Library	13,793	16,026	-14%
MedMenu	35,682	7,193	-
Mission: Community Service	316	253	25%
Mission: Education	1,028	732	40%
Mission: Patient Care	522	343	52%
Mission: Research	1,365	1,121	22%
Scientific Affairs and Grant & Contrac Adminis	995	768	30%
Yale Faculty Practice	1,071	702	53%
Service departments			
Biomedical Communications	512	475	8%
C/AIM	5,107	4,686	9%
Center for Cell Imaging	742	594	25%
Copy Center	142	146	-3%
Desktop Support	3,841	2,224	73%
Help Desk	213	137	55%
Systems Support	473	255	85%

Top 10 pages accessed by external users

this year	<u>last year</u>
Center for Advanced Instructional Media	Center for Advanced Instructional Media
Medical Center page	Medical Center page
Yale-New Haven Hospital Clinical Workstation	School of Medicine
School of Medicine	Server search
Medical Library	Yale-New Haven Hospital Clinical Worksta
Server search	Medical Library
School of Medicine's admissions viewbook	School of Medicine's admissions viewbook
Academic departments page	Child Study Center's Autism/PDD Clinic
Yale Heart Book	Academic departments page
Medical Library's Selected Internet Resources database	Medical Library's Selected Internet Resourc

	<u>Feb-99</u>	Feb-98	% change
Academic Departments**			
Anesthesiology	246	391	-37%
BBS	1,222	798	53%
Boyer Center for Molecular Medicine	759	541	40%
Cancer Center	1,141	604	89%
Cell Biology	1,516	625	143%
Cellular & Molecular Physiology	430	367	17%
Child Study Center	1,790	615	191%
Comparative Medicine	175	87	101%
Dermatology	1,146	515	123%
Diagnostic Radiology	601	665	-10%
Epidemiology & Public Health	4,448	1,892	135%
Genetics	858	754	14%
History of Medicine	347	146	138%
Immunobiolog	656	372	76%
Internal Medicin	834	502	66%
Laboratory Medicine	464	232	100%
Neurobiology	875	657	33%
Neurology	654	417	57%
Neuroscience Program	569	310	84%
Neurosurgery	337	206	64%
Obstetrics & Gynecology	448	271	65%
Ophthalmology	1,437	506	184%
Orthopaedics & Rehabilitation	477	123	288%
Pathology	1,168	1,103	6%
Pediatrics	733	418	75%
Pharmacology	491	309	59%
Physician Associate Program	1,202	752	60%
Psychiatry	1,344	914	47%
Surgery	187	179	4%
Therapeutic Radiology	258	100	158%

^{**}Molecular Biochemistry & Biophysics and the Center for Medical Informatics are not listed because they reside on other servers.

Details for NetMenu Medical Library usage February-99

Profession		total # of co	nnections		total # of connections				total # of connections			
Detail Extension 190	Application	Feb-99	Feb-98	% change		Feb-99	Feb-98	% change		Feb-99	Feb-98	% change
Marchan Marc					Medical Education				Other Resources			
Manuma	Electronic textbooks	590	0	-	Neuroanatomy Review	17	15	13%	GenBank	29	4	-
Mester Methods 10 1	Harrison's	326	-	-	Neuron Model: Tutorial	3	3	-	GPO	23	-	-
Mechanish 70	MAXX	-	-	-	Neuron Model: Current Clamp	-	6	-	Grant Resources	19	-	-
Mechanish 70	Medical Letter on Drugs and Therap.	50	_	-	Neuron Model: Voltage Clamp	-	1	_	GroupWise	10	-	_
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Cardiace Perfusion Imaging: PI - - - Books in Print 67 8 738% NIH-Creates Guide 30 - - - Cardiacher Action Imaging: PI - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -		4	21	-81%	Biomed Email	15,543	11,225	38%	NEXIS-LEXIS	290	64	353%
Cardiolpracis Imaging: Pl	Cardiac MRI	2	9	-78%	Biosis	83	11	655%	NIH-Consensus-Dev-Statements	4	-	-
Cacinidoracic Image Quiz	Cardiac Perfusion Imaging: SP	-	2	-	Books in Print	67	8	738%	NIH-Grants/Guide	30	-	-
Cancer	Cardiac Perfusion Imaging: Pl	-	-	-	Britannica Online	29	4	625%	NLM Locator	20	-	-
Concise Atlas - Cardiothoracic 3 10 -70% CIAO: Columbia Int'l Affairs Online 1 - - OMIM 59 - - Concise Altas - Chest - 2 2 CINAHI 72 8 800% OSI-ROM 16 - - - - CORDIA - - CHINGIAL Intellectoratory 17 - - Other 82 - - Concise Altas - Carlane 48 - OVID 9377 42.84 11% - Concise Altas - Carlane 48 - OVID 9377 42.84 11% - Command 48 - OVID 9977 42.84 11% - Command 48 - Command Command 48 - Command Compandex 40 - Pact Server 25 PPDR 55 - - PPDR 55 - 1375% Enthrough and any	Cardiothoracic Image Quiz	6	10	-40%	Bulldog Access	31	6	417%	NO	19	-	-
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Concise Altas - Externities	Concise Atlas - Cardiothoracic	3	10	-70%	CIAO: Columbia Int'l Affairs Online	1	-	-	OMIM	59	-	-
Concise Altas - Extremities	Concise Altas - Chest	_	2	_	CINAHL	72	8	800%	OSH-ROM	16	_	_
Concise Altas - Head & Neck - 60 - Cochrane 48 - - OVID 9,377 4,284 119% Corne evaluations 13 - - Community of Science 95 12 692% Pantent Search 2,75 3,00 -% Cornail Nerves - 48 - Compendex 40 - - Pentent Search 26 - - Educational Software 188 - - Compendex 16 - - PDR 55 - 137% - Educational Software 188 - - Congressional Universe 16 - - PDR - 137% - - - - 137% - - - - 137% - - - - - - - - - - - - - - - - - - - - -		_	_	_			_	_			_	_
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Educational Software		-	48	_	•							_
EPR Review		188		_	•		_				_	1375%
EPS Review - 1 - Current Contents 58 20 190% Phone Books 59 4 1375% Extremities Quiz 8 8 0% Current Disagnoses 343 - - Physican Data Query 24 6 300% Forebrain (Syracuse) - 9 - Diagnostic Imaging 24 - - POPLINE 21 - - Gross Anatomy Review 41 37 11% DIRLINE 0 - - PopUnest-Direct 45 - - HARP (Histological Anatomy Review 41 37 DIRLINE DIRLINE 0 - - ProQuest-Direct 45 45 - - Head and Neviene 2 41 - EBEMR 30 - - PubMed (NCB) 11 2 - - - - - - - - - - - - - - -				-62%				600%				137370
Extremities Quiz 8 8 0% Current Diagnoses 343		-										1375%
Forebrain (Syracuse)							20	17070				
Gross Anatomy Review	_	0		070	•		-	-				
HARP (Histological Anatomy Review) 2 - - Dissertation Abstracts 24 - - PsycINFO 72 74 -3% Head and Neuroanatomy Quiz - 41 - EBMR 30 - - PubMed (NCBI) 112 - - Head Quiz 25 87 -71% EconLit 4 - Research Workstation 29 - - Histology Quizbank 8 1 70% Electronic Journals 1,920 2 8627% Residents Reprints 12 - - Histology Video Review 2 10 - Electronic Textbooks 710 2 Selected Internet Resources (SIR) 792 - - HyperBRAIN 11 - - EPIC 17 - Sciocifile 9 - - HyperBELL 1 3 9 79% ERAS - 1 - Surgical Pathology 28 - - -		41	-	110/			-	-				
Head and Neuroanatomy Quiz 41	•						-	-				
Head Quiz 25 87 -71% EconLit 4 Research Workstation 29 Histology Quizbank 8 1 700% Electronic Journals 1,920 22 8627% Residents' Reprints 12 Histology Video Review 2 10 Electronic Textbooks 710 Selected Internet Resources (SIR) 792 HyperBRAIN 11 Entrez 48 Sociofile 9 HyperCELL 5 EPIC 17 Statistical UNIVerse 21 HyperCELL 1 30 -97% ERAS 1 Surgical Pathology 28 HyperCELL 3 8 -89% ERAS 1 Surgical Pathology 28 <t< td=""><td></td><td>2</td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>•</td><td></td><td></td><td></td></t<>		2					-	-	•			
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	MacBaby	8	10	-20%	FREIDA	23	22	5%	WilsonWeb	24	-	-
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Details for NetMenu Hospital usage February-99

		onnections	۵,		total # of connections		•
Application	<u>Feb-99</u>	<u>Feb-98</u>	% change	Application	<u>Feb-99</u>	<u>Feb-98</u>	% change
Hospital information systems	4,671	22,113	-79%	Full text and factual databases	416	1,469	-72%
CCSS	2,837	11,286	-75%	AIDS/Drugs/Trials/Line-Bioethic	=	0	-
ChartView	23	591	-96%	Delineation of Clinical Privileges	2	9	-
Clinical laboratory	1,711	8,945	-81%	Electronic Journals	-	0	-
Diagnostic Imaging	14	171	-92%	Harrison's	57	236	-76%
EPIC	44	484	-91%	Infection Control Manual	-	0	-
Electronic Signature (ESA)	31	462	-93%	JCAHO Accreditation Manual	6	75	-92%
Surgical Pathology	11	174	-94%	Little Brown Handbooks	26	128	-80%
				Merck Manual	14	45	-69%
Bibliographic databases and				Micromedex	237	719	-67%
search tools	3,678	1,207	205%	New England Journal of Medicine	39	123	-68%
CINAHL	11	104	-89%	Nursing Procedures Manual	-	0	-
Current Contents	-	0	-	Red Book on Pediatric Infections	2	22	-91%
Health Planning and Admin.	12	38	-68%	Rosen's Emergency Medicine	4	21	-81%
HealthSTAR-OVID	-	0	-	STAT!-Reference	23	62	-63%
INTERNET	3,541	-	-	YNHH Formulary	-	0	-
MEDLINE	104	1,014	-90%	YNHH Documents	-	0	-
Yale Library Catalog (ORBIS)	10	51	-80%	YNHH Physician Phone Book	6	29	-
Word processing & utilities	328	1,020	-68%	Email/news/networks	843	10,304	-92%
Clinical Workstation locations	17	56	-70%	Biomed Email	183	973	-81%
Format disk	8	21	-62%	DEC RAD Telnet	=	-	-
Virus scan	8	27	-	Find People at YNHH/Yale	=	0	-
Wordperfect	295	916	-68%	GroupWise Email	260	1,915	-86%
				GroupWise Webaccess	400	7,416	-95%
Procedure recorders	37	293	-87%				
ED	1	14	-	Clinical Assistance	6	22	-
Medicine	14	63	-78%	Coag Advisor	6	22	-