

INDICATORS OF THE PROJECT  
AND  
USEFUL INFORMATION SHOWING HOSPITAL ACTIVITIES

THE BACH MAI HOSPITAL PROJECT  
FOR FUNCTIONAL ENHANCEMENT

October 2001, Hanoi, Vietnam

Monitoring of these data are conducted based on the agreement between Director General, Bach Mai Hospital and Director General, Bureau of International Cooperation, International Medical Center of Japan, which was contracted in October 1999, and modified in March 2001 (Cf. R/D, PDM, modified PDM), followed by the approval of the Ministry of Health and JICA headquarters.

Indicators and data are classified as follows:

A: Most important indicators to evaluate the project purpose

B: Indicators to evaluate outputs, and useful data showing hospital activities

The project has been implemented in collaboration among the Bach Mai Hospital, JICA and the Ministry of Health in Vietnam. These organizations are providing inputs to achieve the project purpose and overall goal. The indicators are set up to evaluate the outputs due to the input of the above organizations to the project.

Indicators are not means to evaluate the output due to the input of JICA only.

**PDM Indicators**

	<b>Indicators</b>	<b>1999</b>	<b>2000</b>	<b>~June 2001</b>
A	Patient's satisfaction test			82.21 Scores
A	Rate of nosocomial infection	9.60%		1)
A	Results of quality control			99.75%
A	Results of nursing care test			87.00%
A	No. of computer operators		67	127
A	Operation ratio of ME	92%	92%	94%
A	No. of people accessed to the library*	219	282	623
A	Questionnaire to outpatients asking impression of BMH			2)
A	Reliability of provincial hospital staff on BMH			81.7 Scores
A	No. of reply to referral cases		735	305
A	No. of trainees	1578	3094	1646
B	No. of medical staff members trained in BMH and working in medical institutions in the North	1578	3094	1646
B	Average length of stay	12.2	11.7	13.27
B	No. of diploma acquisition	10	11	6
B	No. of missing medical record※		4000	2386
B	No. of inspected and checked ME	21	23	27
B	successful ratio of repair	92.00%	92.90%	94.20%
B	Average annual income per bed	19,832,000VND	27,012,000VND	
B	Average annual income per staff	9,600,000VND	9,960,000VND	10,320,000VND
B	Amount of uncollected hospital fee	1,862,671,100VND	2,911,916,135VND	914,281,451VND
B	Total No. of laboratory examination (Biochemistry)	426,506	499,828	597,793
B	No. of training courses	45	70	26
B	No. of trainers dispatched from BMH to provincial and lower level institutions	216	375	128

A: Most important indicators to evaluate the project purpose, B: Indicators to evaluate outputs, and useful data showing hospital activities

1) under investigation, 2) soon to be investigated, \* Average per month

※ No. of medical record still in clinical departments at the moment of investigation

## 看護分野における指標

### 1. 患者の満足度調査 **Patient Satisfaction Test**

トータルケアシンポジウムの調査表を使用。

満足度 平均 スコア : 82.21

**Average score: 82.21**

### 2. 看護婦の技術 試験

#### The result of "Nursing Skill Examination"

Date: 2001/Oct/18

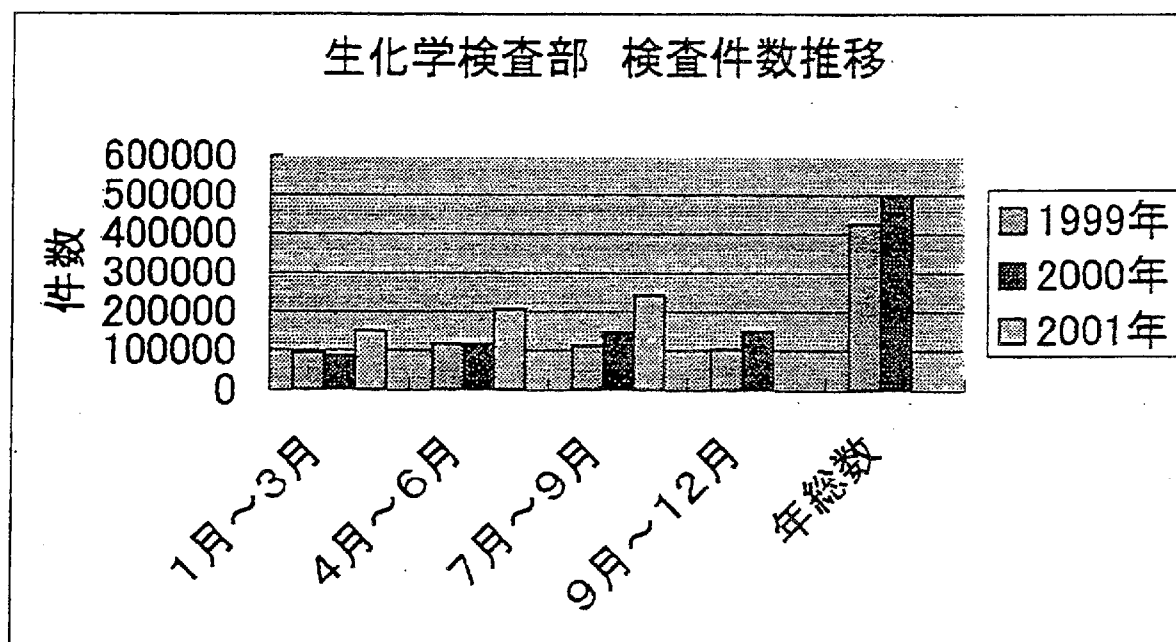
Target ward : GI Dept

No	Item of Skill	Score of Supervision 1	Score of Supervision 2	Average Score/ Full marks	Score / 100
1	Blood transfusion	38/40	38/40	38/40	95
2	Drop Intravenous	40/46	40/46	40/46	87
3	Medication	18/20	16/20	17/20	85
4	Measurement of Blood pressure	29/30	28/30	28.5/30	95
5	Assistance for collection of gastric juice	16/26	17/26	16.5/26	63.5
6	Abdominocentesis	28/34	30/34	29/34	85
7	Obtaining blood specimens	30/34	31/34	30.5/34	89.7
8	Measurement of body temperature	17/18	15/18	16/18	88.9
9	Measurement of pulse	17/18	17/18	17/18	94.4

Average: 87.0

## Result of quality control

2001年 4半期別 生化学検査部統計					
	1月～3月	4月～6月	7月～9月	10月～12月	年間合計
①検査総数	149,926	205,876	241,991		597,793
入院	86,308	116,296	131,013		333,617
外来	63,618	89,580	110,978		264,176
②精度管理件数	4,535	6,987	8,256		19,778
③再検率 (%)	1.0	1.0	1.0		
④外部からの検査依頼件数	1月～9月 1,350件				



### 2) 精度管理指標について

精度管理の評価法として、日常管理血清を測定して得られた値が管理指票内に入った項目の割合 (%) を求めた。

精度管理評価率： 99.75 (%)

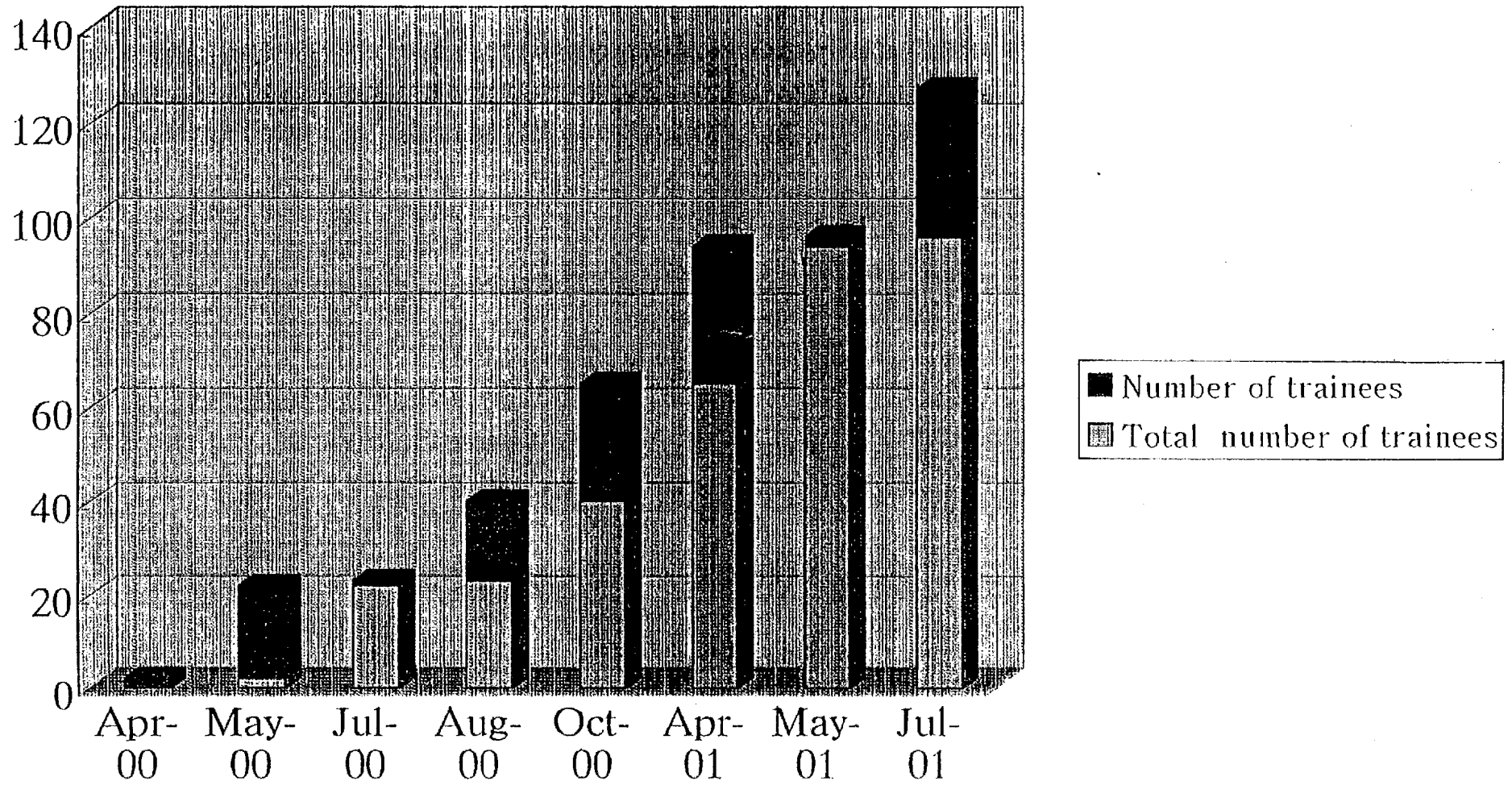
(参考として精度管理限界を超える要因として最も高いのは蒸留水の純度低下によるCa値への影響が多い。)

以上、検査室管理指標として提示いたします。

Evaluation of quality control:

**Rate successful result to total No, tested      99.75%**

Total Number of Computer Trainees at VITTI Project



PDM INDICATORS  
MEDICAL EQUIPMENT MANAGEMENT

Bach Mai Hospital  
Medical Equipment Department  
Eng. Bui Xuan Vinh

1. Operating Ratio of Medical Equipment

1) Jan.-Aug.2000: **92%**

Working: 92%

Out of order: 6%

Repairing: 2%

2) Jan.-Dec.2000: **92%**

Working: 92%

Out of order: 6%

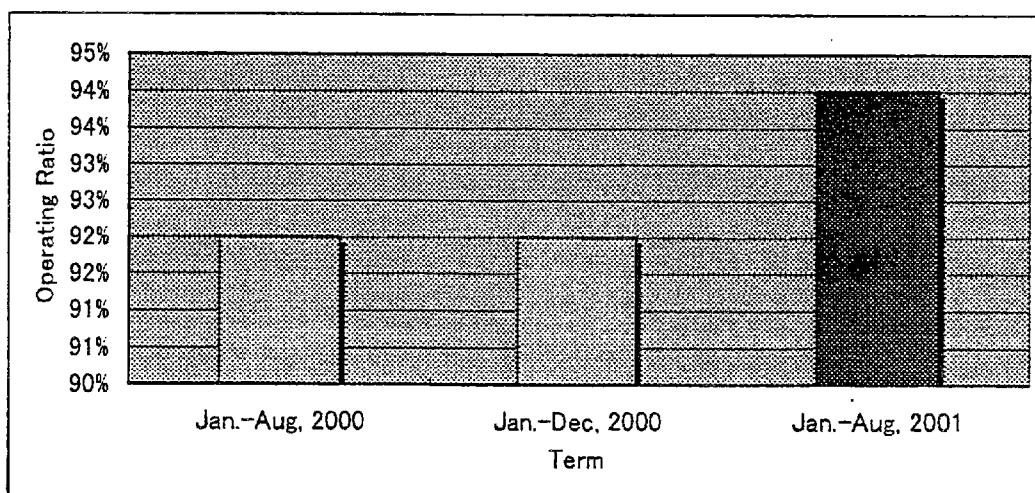
Repairing: 2%

3) Jan.-Aug.2001: **94%**

Working: 94%

Out of order: 4%

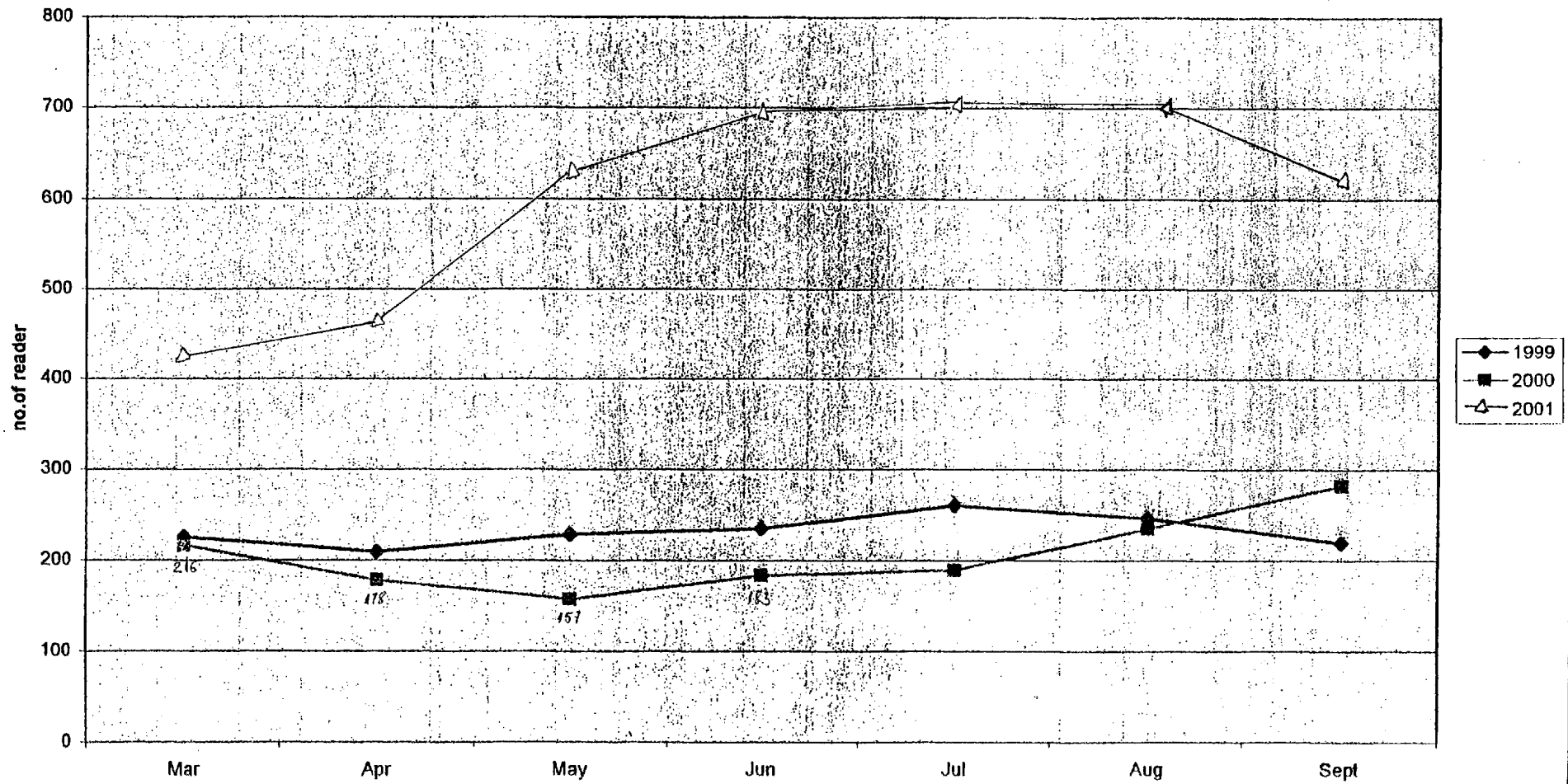
Repairing: 2%



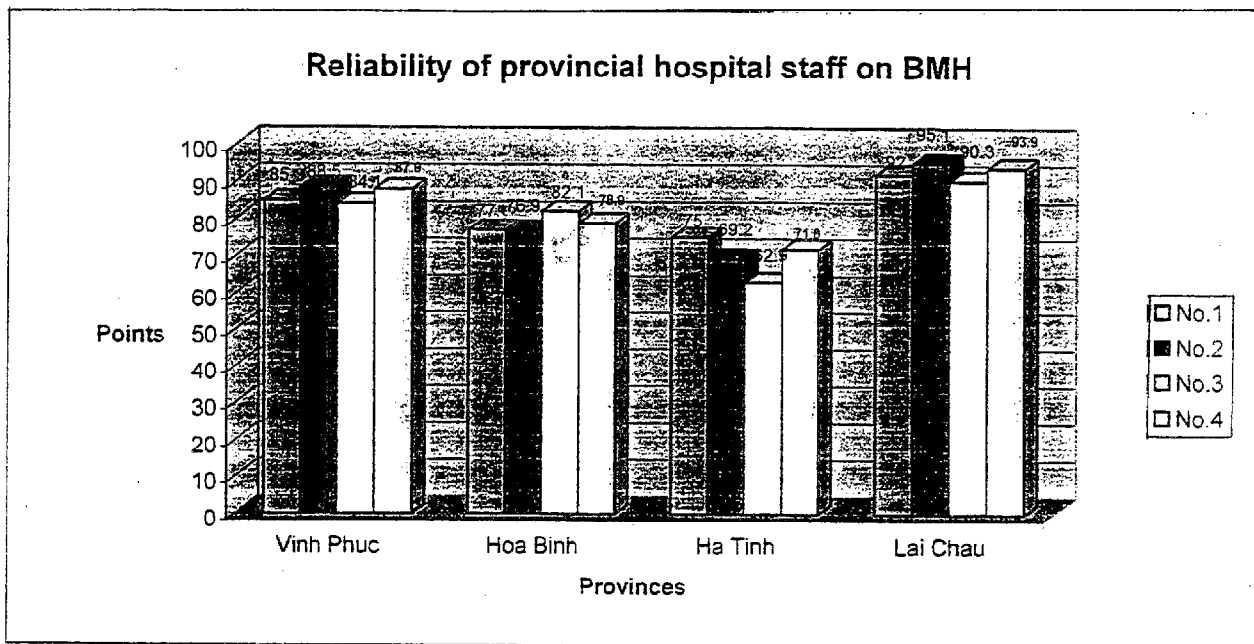
- \* Many kinds of equipment were provided by Japanese Grant Aid, and all of them have no problems.
- \* One staff of medical equipment maintenance had trained in Japan mainly for the equipment which is used in the new building. This is very good program for keeping good condition of the equipment.

# NO.OF READER IN LIBRARY

(from March to September 1999, 2000, 2001)



**Indicator: Reliability of the inhabitants -2  
(Reliability of provincial hospital staff on Bach Mai**



**Questions**

Hospital	No.1	No.2	No.3	No.4	Average
Vinh Phuc	85	77	75	92	82.3
Hoa Binh	88.5	76.9	69.2	91.5	81.5
Ha Tinh	84.1	82.1	62.9	90.3	79.9
Lai Chau	87.9	78.9	71.8	93.9	83.1
					81.7

The scores were converted into 100 points

**Questions**

No.1: Do you think that Bach Mai Hospital is a reliable hospital?

No.2: What do you think of the medical care level in Bach Mai hospital?

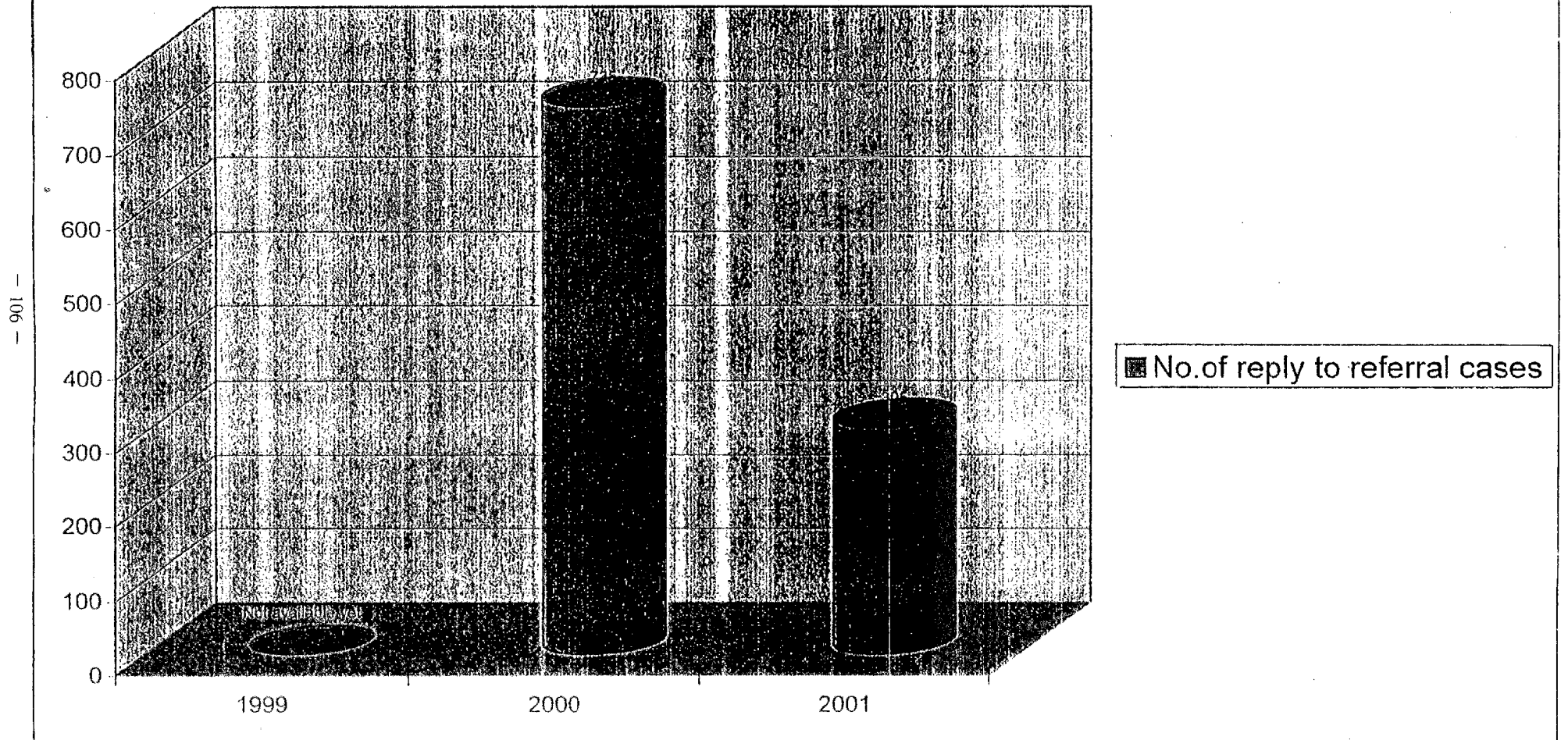
No.3: Do you think that Bach Mai Hospital is contributing to the health of your province?

No.4: Do you want to take training in Bach Mai hospital?

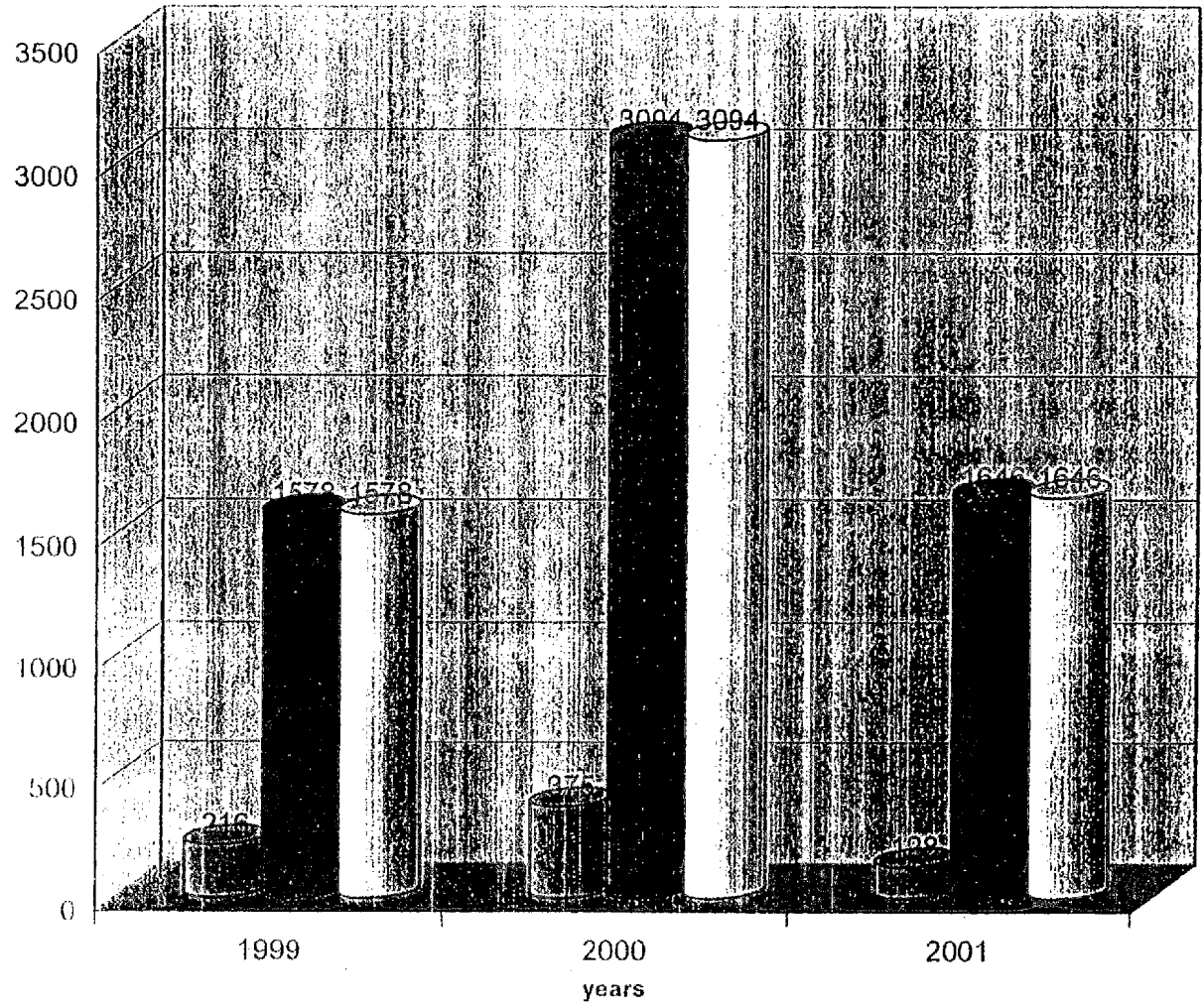


# NUMBER OF REPLY TO REFERRAL CASES

(from 1999 to the first 6 months of the year 2001)



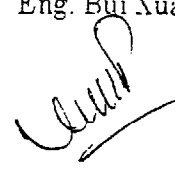
**DOHA ACTIVITY OF BACH MAI HOSPITAL**  
 (from 1999 to the first 6 months of the year 2001)



- ▨ No. of trainers dispatched from BMH to provincial and lower level institutions
- No. of medical staff who were trained in BMH are working in medical institutions in the North
- No. of trainees

PDM INDICATORS  
MEDICAL EQUIPMENT MANAGEMENT

Bach Mai Hospital  
Medical Equipment Department  
Eng. Bui Xuan Vinh

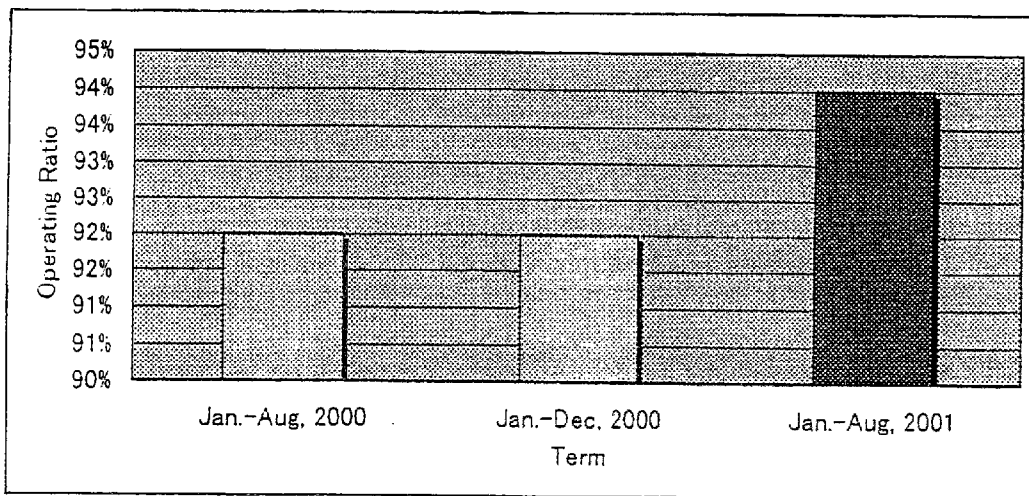


1. Operating Ratio of Medical Equipment

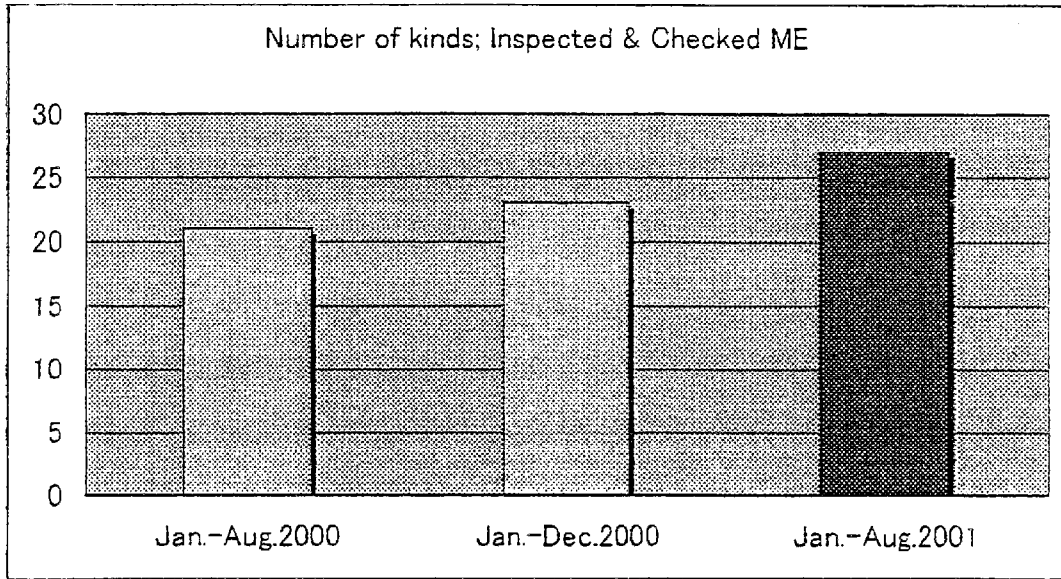
1) Jan.-Aug.2000: **92%**  
Working: 92%  
Out of order: 6%  
Repairing: 2%

2) Jan.-Dec.2000: **92%**  
Working: 92%  
Out of order: 6%  
Repairing: 2%

3) Jan.-Aug.2001: **94%**  
Working: 94%  
Out of order: 4%  
Repairing: 2%

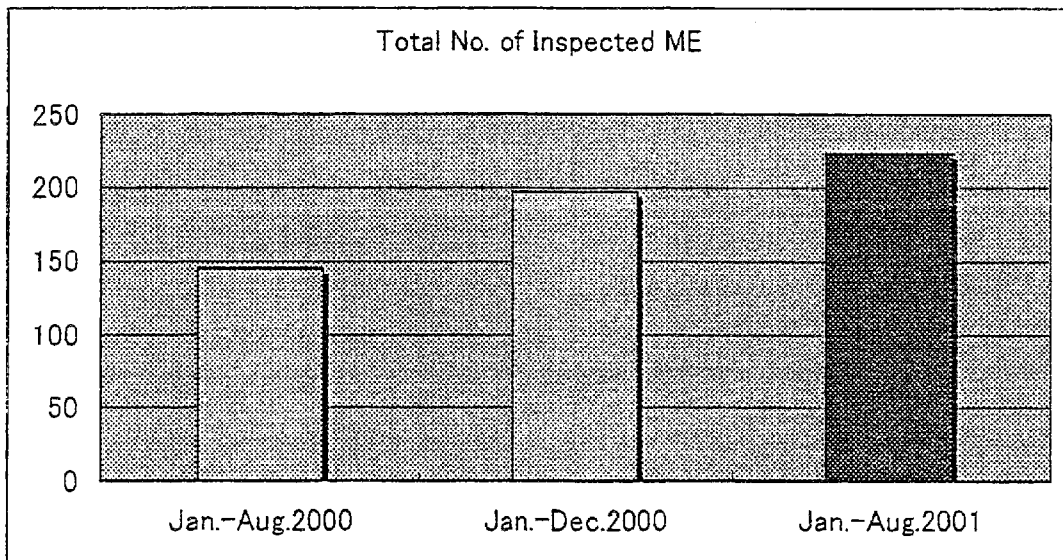


- \* Many kinds of equipment were provided by Japanese Grant Aid, and all of them have no problems.
- \* One staff of medical equipment maintenance had trained in Japan mainly for the equipment which is used in the new building. This is very good program for keeping good condition of the equipment.



2-2. Total Number of Inspected ME

- 1) Jan.-Aug.2000: *145* (Monthly average: 18.1)
- 2) Jan.-Dec.2000: *197* (Monthly average: 16.4)
- 3) Jan.-Aug.2001: *223* (Monthly average: 27.9)

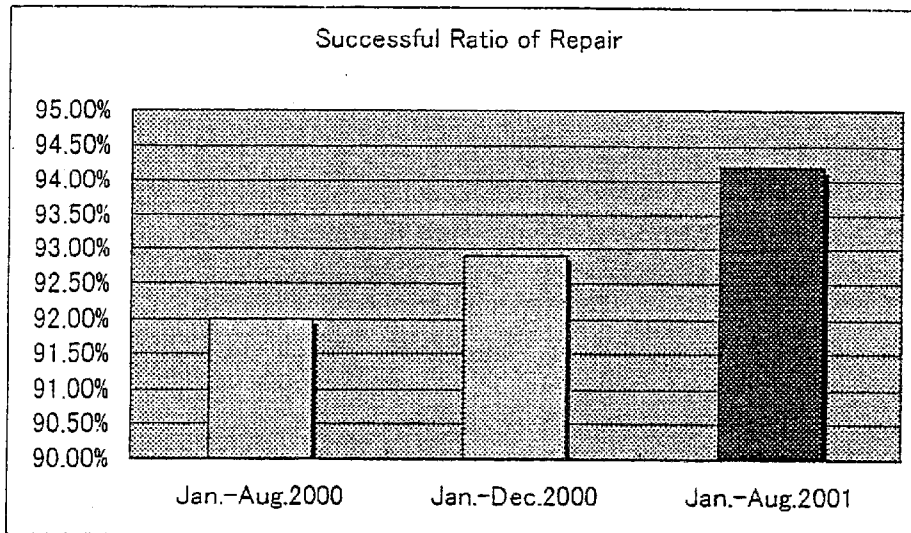


### 3. Successful Ratio of Repair

1) Jan.-Aug.2000: 92.0%

2) Jan.-Dec.2000: 92.9%

3) Jan.-Aug.2001: 94.2%



#### <Contents>

1) Jan.- Aug. 2000: 92.0%

No. of request to repair: 916

No. of finish to repair: 843

Remain: 25

Waiting for spare parts: 48

2) Jan.- Dec. 2000: 92.9%

No. of request to repair: 1113

No. of finish to repair: 1034

Remain: 30

Waiting for spare parts: 49

3) Jan.- Aug.2001: 94.2%

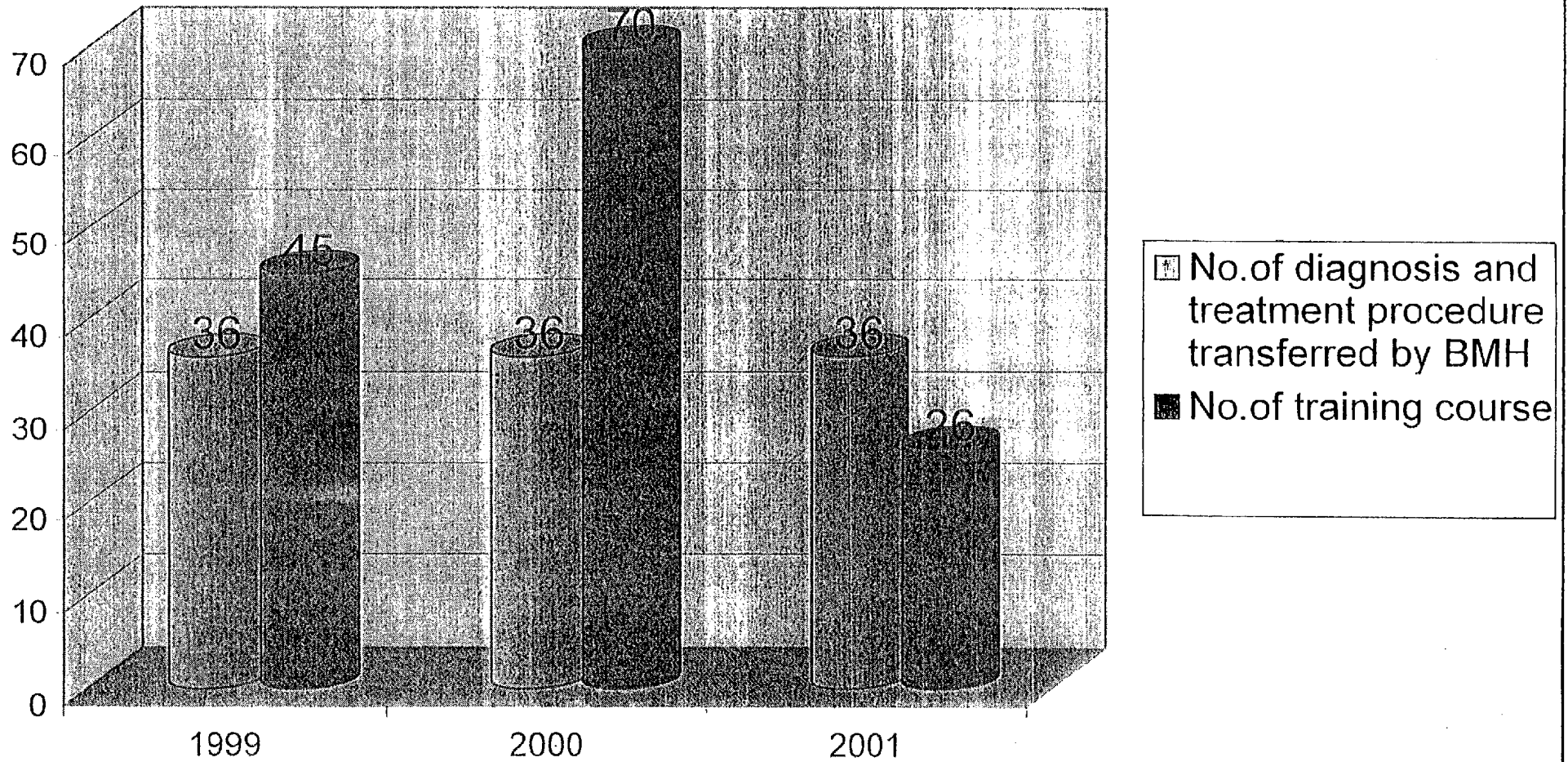
No. of request to repair: 498

No. of finish to repair: 469

Remain: 13

Waiting for spare parts: 16

**NO. TRAINING COURSE AND  
NO. OF DIAGNOSIS AND TREATMENT TRANSFERRED BY BMH**  
(from 1999 to the first 6 months of the year 2001)



バックマイ病院プロジェクト検査室管理指標

Indicators of laboratory management

バックマイ病院プロジェクト

検査室管理

短期専門家 貝沼 裕昭

I. 検査室管理指標

- 1) 生化学検査部統計
- 2) 精度管理評価率

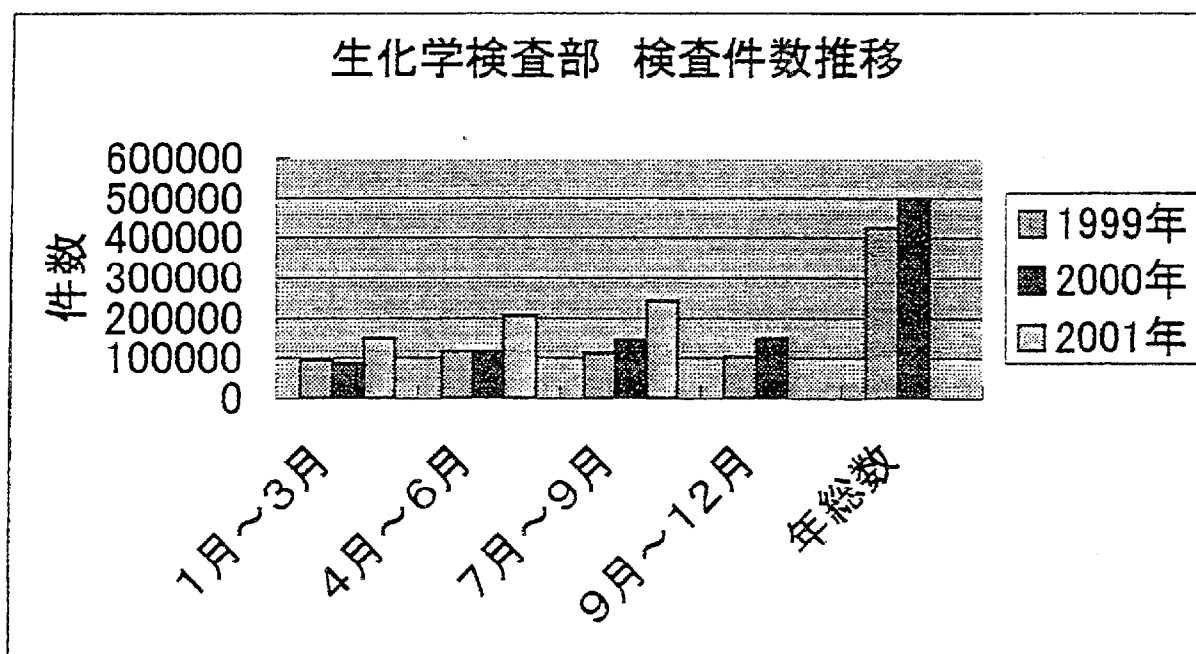
II. 指標内容

- 1) 生化学検査部統計
  - ① 検査件数 (総数、入院・外来別)
  - ② 精度管理件数
  - ③ 再検査率
  - ④ 外部からの検査依頼件数

1999年 4半期別 生化学検査部統計					
	1月～3月	4月～6月	7月～9月	10月～12月	年間合計
①検査総数	95,452	117,296	111,721	102,037	426,506
入院	60,431	70,089	68,926	67,691	267,137
外来	35,021	47,207	42,795	34,346	159,369
②精度管理件数					
③再検査率 (%)					
④外部からの検査依頼件数					

2000年 4半期別 生化学検査部統計					
	1月～3月	4月～6月	7月～9月	10月～12月	年間合計
①検査総数	86,377	116,643	146,651	150,157	499,828
入院	50,597	61,239	73,298	76,721	261,855
外来	35,780	55,404	73,353	73,436	237,973
②精度管理件数	2,545	2,834	2,700	3,150	11,229
③再検査率 (%)			4.0	4.0	
④ 外部から検査依頼件数			90		

2001年 4半期別 生化学検査部統計					
	1月～3月	4月～6月	7月～9月	10月～12月	年間合計
①検査総数	149,926	205,876	241,991		597,793
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②精度管理件数	4,535	6,987	8,256		19,778
③再検率 (%)	1.0	1.0	1.0		
④外部からの検査依頼件数	1月～9月 1,350件				



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精度管理の評価法として、日常管理血清を測定して得られた値が管理指票内に入った項目の割合 (%) を求めた。

精度管理評価率： 99.75 (%)

(参考として精度管理限界を超える要因として最も高いのは蒸留水の純度低下によるCa値への影響が多い。)

以上、検査室管理指標として提示いたします。



## List of the distributed medical books & magazines

( Up to October, 2001 )

### 1. List of the distributed medical book

No. of book	Allocation	Date delivery
88 books	BMH library	14.Mar.01
11 books	BMH library	14.Mar.01
<i>Total: 99 books</i>		

### 2. List of the distributed magazine ( from Mar to Sept., 2001 )

Magazine name	No of issue
1. New England Journal of medicine	35 issues
2. The lancet	37 issues
3. Pediatric	6 issues
4. The journal of allergy and clinical immunology	12 issues
5. Gastroenterologic Clinique et Biologique	6 issues
6. Journal of Hepatology	8 issues
<i>Total :</i>	104 issues

### 3. List of the distributed medical books from JICA short-term Expert

No. of book	Allocation	Date delivery	Name Of expert
8 books	BMH library	18.Dec.00	Mr. Konosaki, Dr.Havashi, Dr. Matsushita
40 books	BMH library	1.Aug.00	Dr. Kuratsuji, Dr. Matsueda, Dr. Hayashi Dr. Kimura, Ms. Miyoshi
3 books	GPD/BMH	17.Aug.01	Dr.Koide
<i>Total : 51 books</i>			

### 4. List of the distributed Vietnamese medical book in JFY in 1999 & 2000

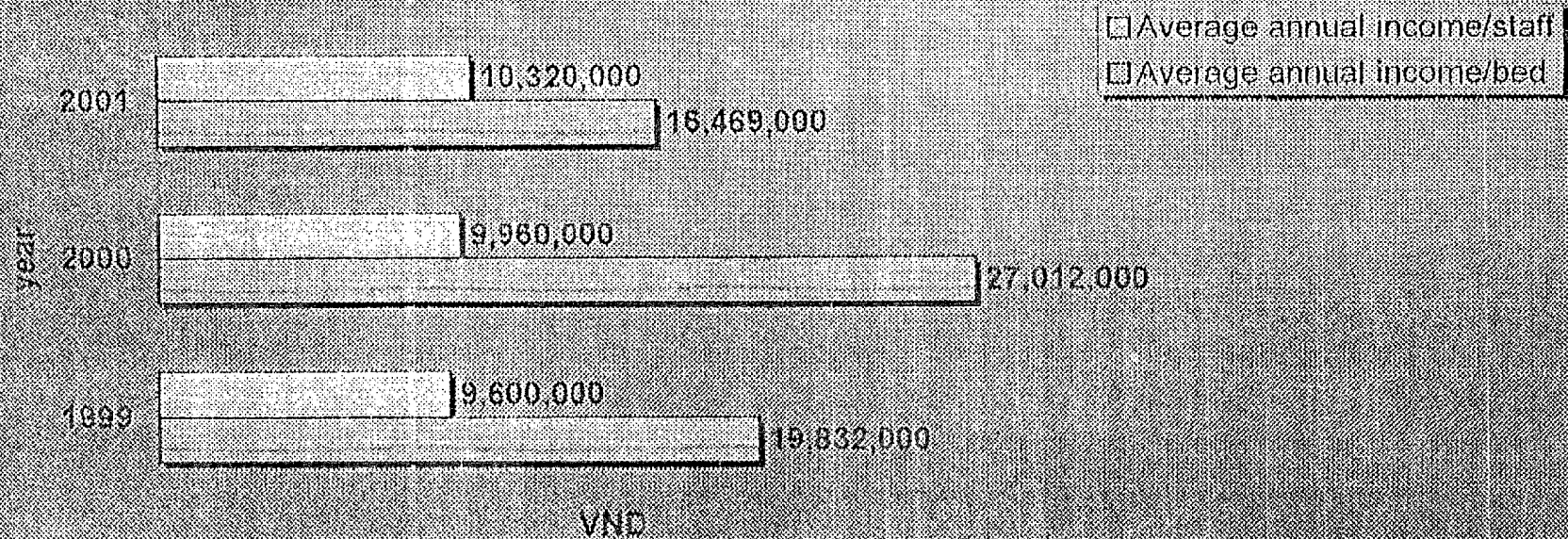
No of book	Allocation	Date delivery	Remark
6 books	DOHA/ BMH	11.Oct.00	
174 books	BMH library	9.Nov.00	
27 books	BMH library	9.Nov.01	Computer books
50 books	BMH library	23.Mar.01	
<i>Total : 257 books</i>			

### 5. List of the distributed Vietnamese medical book to the provincial hospital

No of book	Allocation	Date delivery	Remark
107 books	Ha Tinh Provincial Hospital	6.Oct.00	
273 books	Vinh Phuc Provincial Hospital	28.Nov.00	
4,088 books	Provincial Hospital	29.Mar.01	1 set (146 books) X 28 provincial hospital
<i>Total : 4,468 books</i>			

# FINANCIAL SITUATION OF BACH MAI HOSPITAL

(from 1999 to the first 6 months of the year 2001)



院内教育研修会

時間、期間：02/2001～07/2001

**In hospital training for nursing staff**

研修生の総数：776 人

研修会の回数：10 回

No	期間	研修会名	担当者	研修生数
1	04/02～05/02/2001	院内感染対策	院内教育委員会	39
2	07/02/2001	患者看護計画の立案	鈴木（看護管理 専門家）	65
3	26/03～27/04/2001	HIV 患者の看護及びその防止方法	院内教育委員会	407
4	18/06～29/06/2001	幾つかの病気に対する栄養制度	院内教育委員会	140
5	06/06/2001	薬剤安全取扱	院内教育委員会	58
6	12/07～12/08/2001	救急患者看護（2 回に分ける）	院内教育委員会	07
7	16/07～16/10/2001	看護婦管理業務	院内教育委員会	03
8	24/07/2001	日、月、年報告書と統計票の書き方	院内教育委員会	51
9	06/2001	新病棟の施設の取扱	岡田（施設専門 家）	32

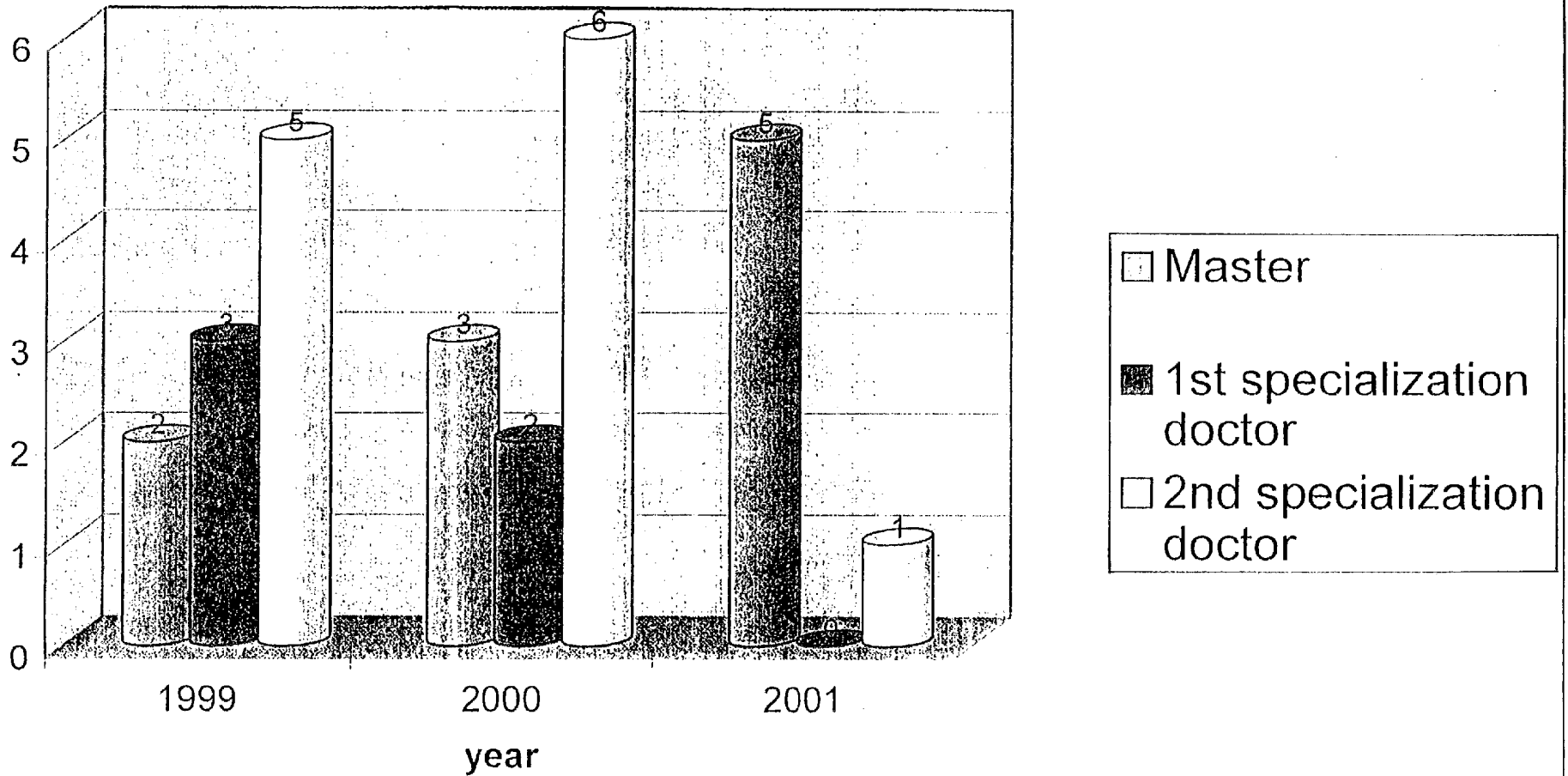
その他

No	期間	研修名	担当者	研修生数
1	2/4～30/4/2001	ICU 患者看護	チョーライ病院のトレーニング リサーチ部門	01
2	12/7～12/8/2001	ICU 患者看護	チョーライ病院のトレーニング リサーチ部門	01
3	22/3～24/3/2001	Study trip (ICU 及 び看護管理)	チョーライ病院のトレーニング リサーチ部門	04
4	2/10～4/10/2001	患者看護質の向上の セミナー	チョーライ病院のトレーニング リサーチ部門	03

院内教育小委員会会長

# NO.OF MASTER AND SPECIALIZATION DOCTOR

(from 1999 to the first 6 months of the year 2001)



## Training of medical staff

研修人数 data はGDP より

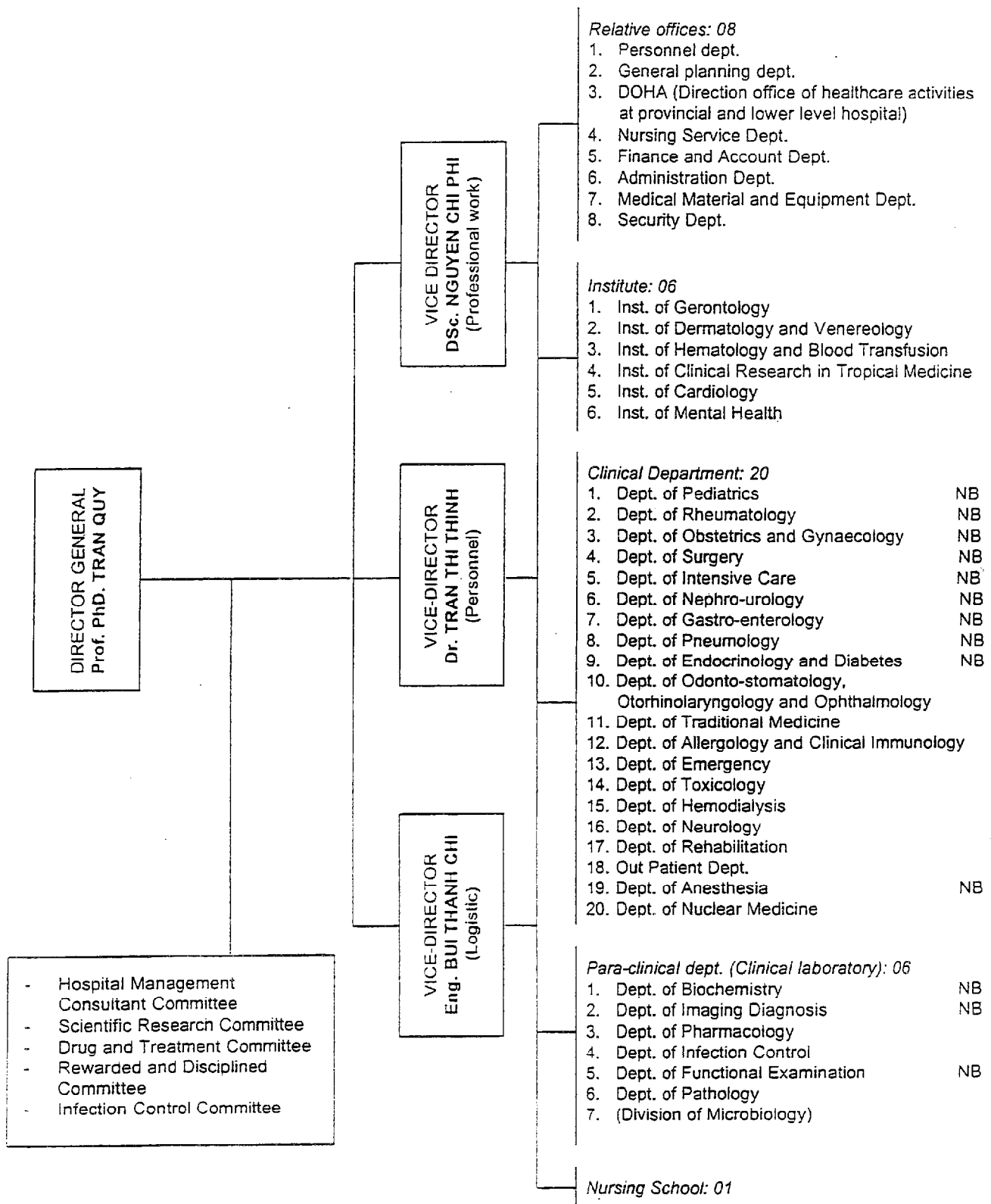
↓ 研修対象	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
医療学校	180	180	180	180	185	185	300	295	300	300
看護大学								100	50	50
医科大学	900	900	900	880	850	840	800	900	950	800
マスター	30	40	50	50	50	52	80	100	150	150
1級	100	120	125	150	200	225	200	233	223	250
2級	30	30	32	32	35	39	50	50	50	50
研究生	10	11	11	12	15	18	20	61	60	62

## Scientific reports

研究レポートに関して

提出先	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
病院	46	82	77	92	75	80	74	84	80	150
保険省	7	10	10	11	7	10	24	24	24	26
国家				2	2	2	6	6	6	8
ハイテクノロジー応用					4	5	5	6	10	10

## ORGANIZATION AND MANAGEMENT CHART OF THE BACH MAI HOSPITAL



NB: New Building

October 2001

## Financial Situation

< 予算と病院収支に関して >

### 1. 年間予算

#### 1-1. 年間予算の推移 (執行額)

単位：千円

	1995年度	1996年度	1997年度	1998年度	1999年度	2000年度
収入	236,113	357,115	366,446	430,191	502,071	741,949
保健省予算	166,984	226,015	203,810	197,976	193,682	292,755
医療収入	69,129	131,099	162,636	232,215	308,390	449,194
支出	210,533	363,520	389,252	458,549	501,943	736,713
収支差	25,580	△6,045	△22,805	△28,358	128	5,236

#### 1-2. 保健省予算の推移

単位：VND

年度	保健省予算	執行額
1999年度	250億 VND	245億 VND
2000年度	320億 VND	341億 VND

### 2. 貧困者対策費用： 288億 VND

貧困者対策費用として、2000年度は288億 VNDが計上され執行されている。今年度は更に増加する見込みである。

### 3. 病院収入の推移と新病棟の影響について

旧病棟も新病棟も入院費については大きな差はないが、新病棟の設備がよいこととベッド数が増加したことにより患者が増え、それに伴って病院の収入が増加した。

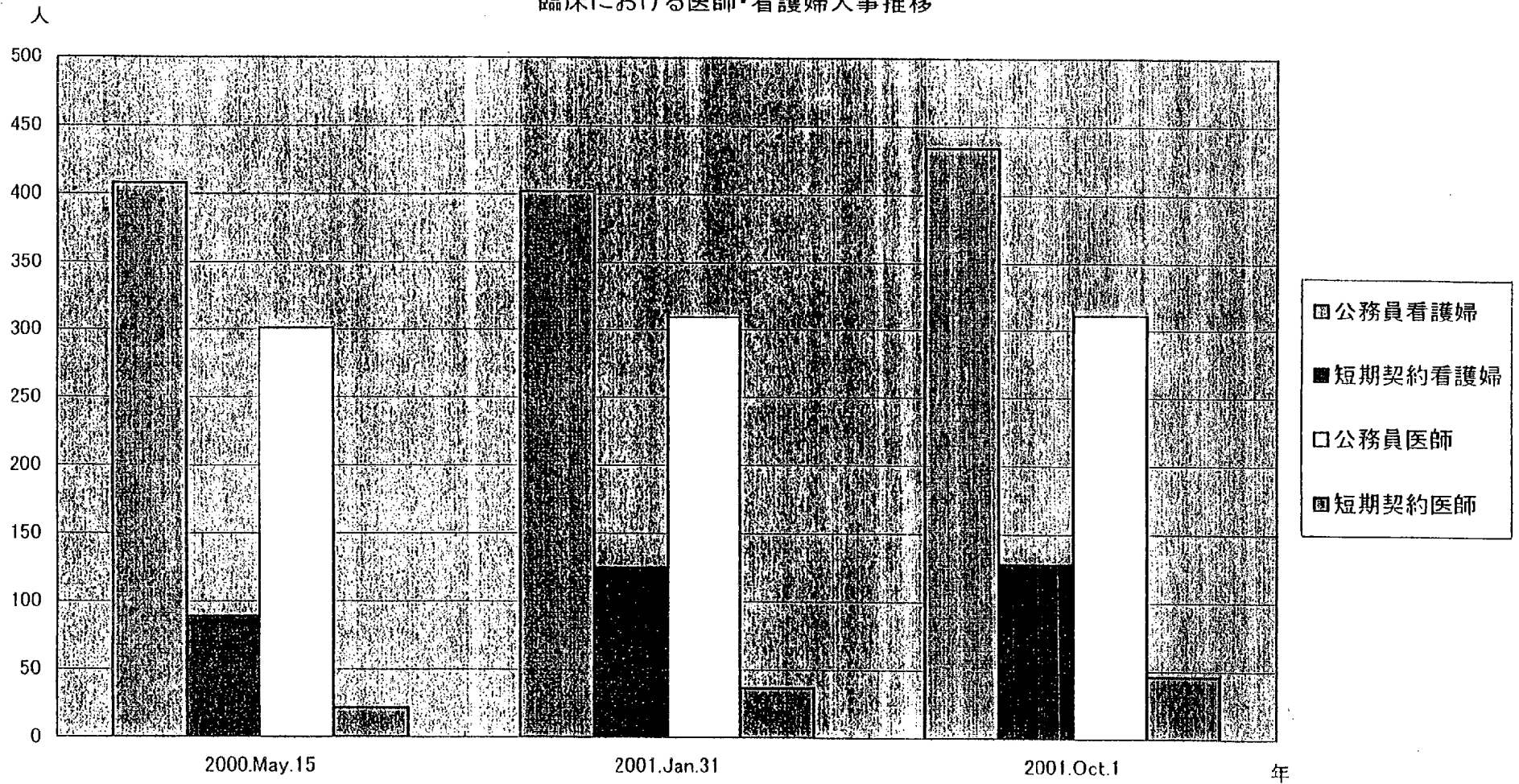
< 今後の予定 >

専門家派遣予定：杉本 孝生 短期専門家 (財団法人九州産業衛生協会)

派遣予定期間：2001年12月16日～12月30日

以上

臨床における医師・看護婦人事推移



注1: 1999年4月 看護婦総数405名、助産婦23名  
 注2: 2001年1月31日 短期契約看護婦に、技術者も含む



Personnel Situation (1999)

STAFF OF BACHMAI HOSPITAL

NO	POSITION	BELONG TO HOSPITAL	BELONG TO HANOI MEDICAL UNIVERSITY	TOTAL
1	Professor	7	32	39
2	Doctor of science, PhD	28	15	43
3	Master	40	36	76
4	1 <sup>st</sup> level specialist	34	9	43
5	2 <sup>nd</sup> level specialist	152	12	164
6	Medical doctor	109	17	126
7	1st level pharmacist	1		1
8	2nd level pharmacist	19		19
9	Pharmacist	12		12
10	B.A	25	5	30
11	Other graduates	69		69
12	Nurse ( 4 years)	4		4
13	Technican	89	17	106
14	Nurse	400	1	401
15	Nurse - Mid wife	23		23
16	Pharmaceutical technican	10		10
17	High school pharmacist	5		5
18	Druggist	15		15
19	Ward orderly	194	1	195
20	Other technican	44		44
21	Expert	6		6
22	Officer	4		4
23	Others	122	2	124
<b>Total</b>		<b>1412</b>	<b>147</b>	<b>1559</b>

## Personnel Situation (2001)

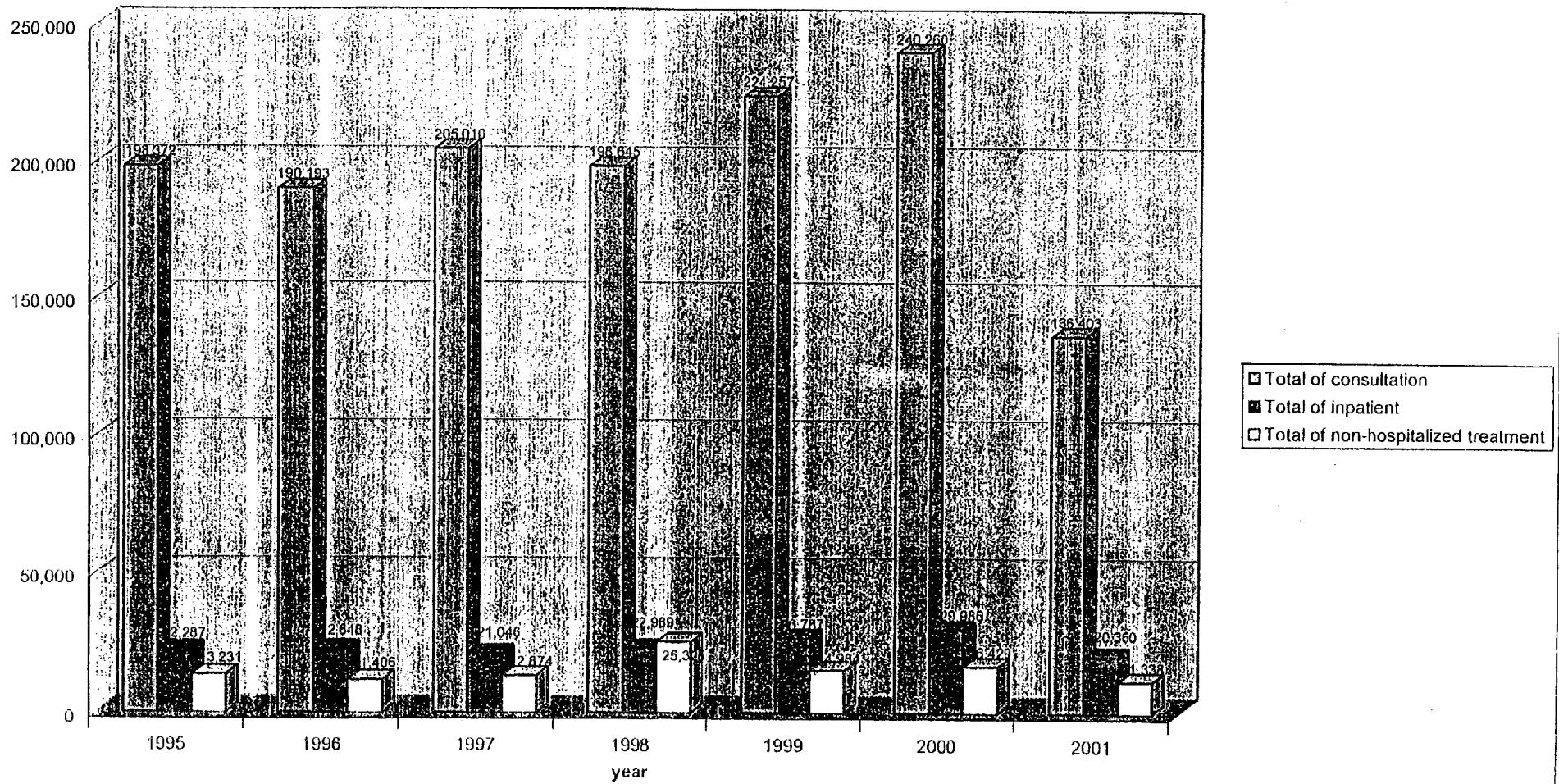
医療スタッフ人事配置 2001年10月1日 現在

No.	部門名	総数	公務員					その他 の人	総数	短期契約					見習い 看護婦	
			医師	看護婦	技術者	助産婦	看護助手			医師	看護婦	技術者	助産婦	看護助手		その他 の人
1	ダイレクターボード	2	1					1	0							
2	労働組合	1	1						0							
3	人事部	4	2					2	0							
4	GPD	20	9	4				7	8	1	3					4
5	財務部	44	1	3				40	12							12
6	機材部	24						24	10							10
7	庶務部	105						18	87						18	7
8	警備部	33						33	8							8
9	内部医療センター	4	1	3					0							
10	看護部	6		6					0							
11	DOHA	2	2						3	2	1					
12	医療学校	12		5			1	6	0							
13	皮膚科研究所	86	28	26	4		11	17	12	1	1			4	6	
14	老人研究所	41	15	16			5	5	13	3	6			2	2	
15	血液・輸血研究所	79	20	15	27		7	9	23	3	6	6		7	1	5
16	熱帯病臨床研究所	100	27	46	10		13	4	11	3	3			5		
17	循環器研究所	55	20	27			8		27	7	18			1	1	7
18	精神研究所	30	7	17			5	1	3		1			1	1	
19	外采	42	13	22			7		9	1	6			2		
20	ICU	20	3	12			4	1	21		18	1		2		8
21	消化器	24	15	7			2		12	3	8			1		1
22	呼吸器科	22	8	11	1		2		7	1	5			1		
23	腎泌尿器科	26	9	16			1		6		4			2		
24	内分泌科	21	7	11			3		3		3					
25	リウマチ科	21	9	10			2		3		2			1		
26	小児科	32	12	17			3		4	1	3					
27	東方治療科	25	8	10			4	3	2	1	1					1
28	産婦人科	55	15	13	2	18	7		3	1	2					1
29	外科	47	11	27	3		6		10		6			4		
30	歯科	56	26	24	4		2		8	4	1			3		
31	アレルギー科	25	8	9	2		4	2	3	1	2					
32	神経科	52	14	29			9		6	3	2			1		
33	リハビリ	25	5	8	6		3	3	4	1		2		1		
34	核医学部	22	8	5	2		2	5	1					1		5
35	中毒対策科	19	5	12			2		10	2	7				1	
36	人工透析科	25	7	12	2			4	9	3	5			1		6
37	手術室	32	5	15	8		4		12	2	6			3	1	6
38	救急部	17	3	10			4		13	5	8					
39	機能診断室	11	3	7			1		5		4			1		
40	薬剤科	55					12	43	0							
41	生化学	28	6	5	9		3	5	10	2	3	1		1	3	
42	画像	28	5	3	13		6	1	2	1		1				
43	病理解剖科	14	3		7		1	3	2	1		1				
44	院内感染対策科	32	1	1			20	10	25	2	6			13	4	1
	合計	1423	343	464	100	18	182	316	345	55	141	12		76	61	41

公務員:給料は保健省より  
 短期契約:給料は病院負担  
 見習:給料 無し

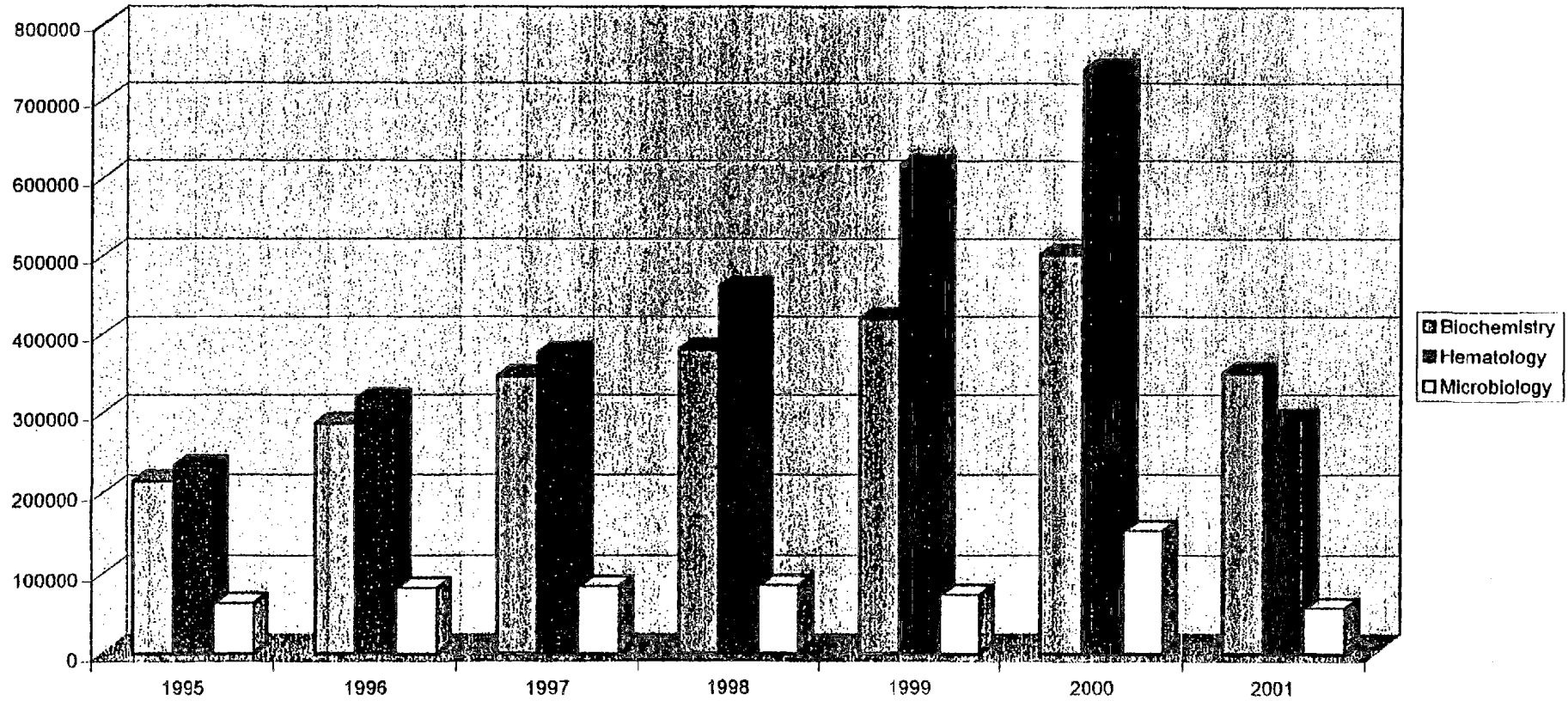
# CONSULTATION AND TREATMENT ACTIVITY

(from 1999 to the first 6 months of the year 2001)



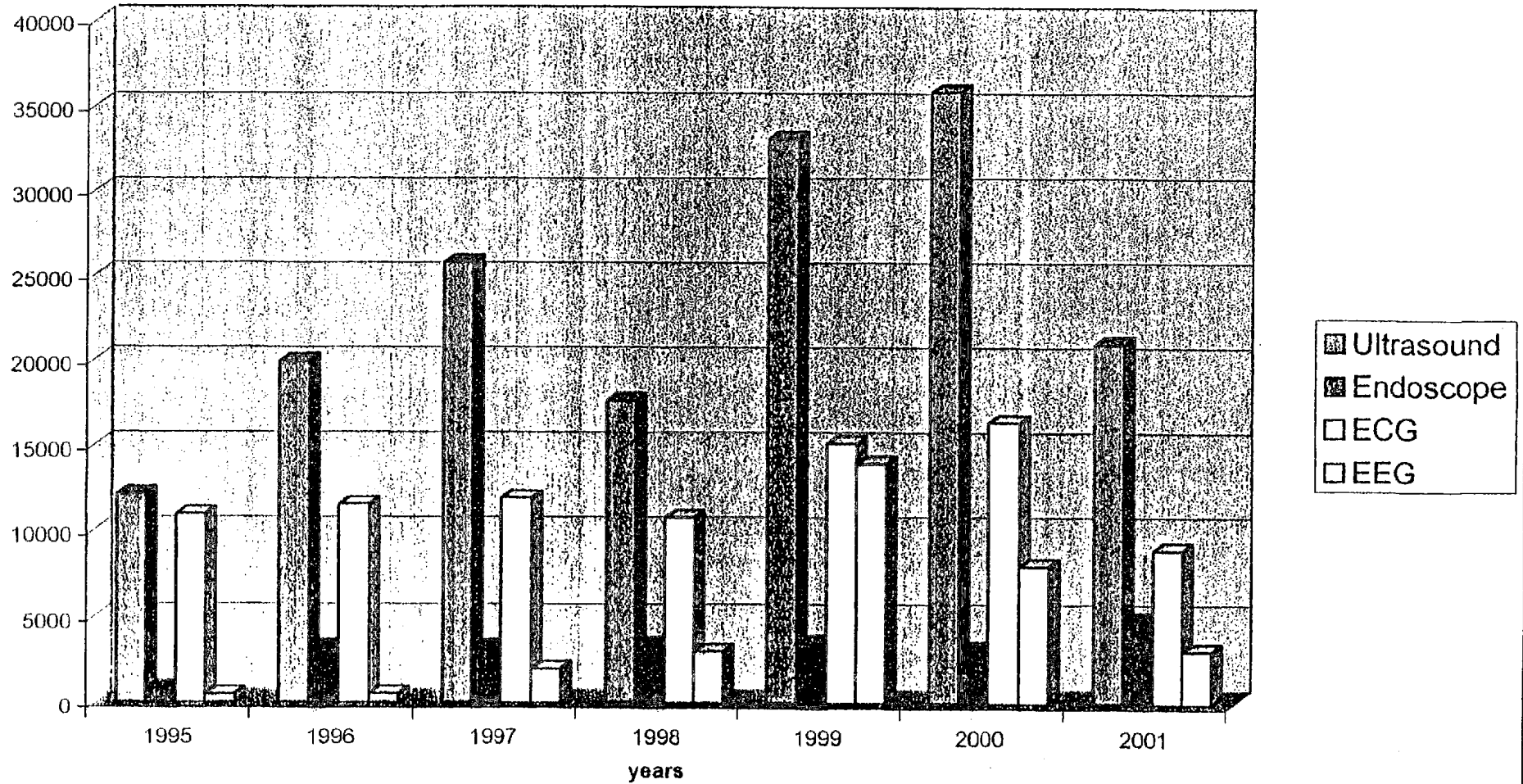
# PARA-CLINICAL EXAMINATION ACTIVITY

(from 1995 to the half of the year 2001)



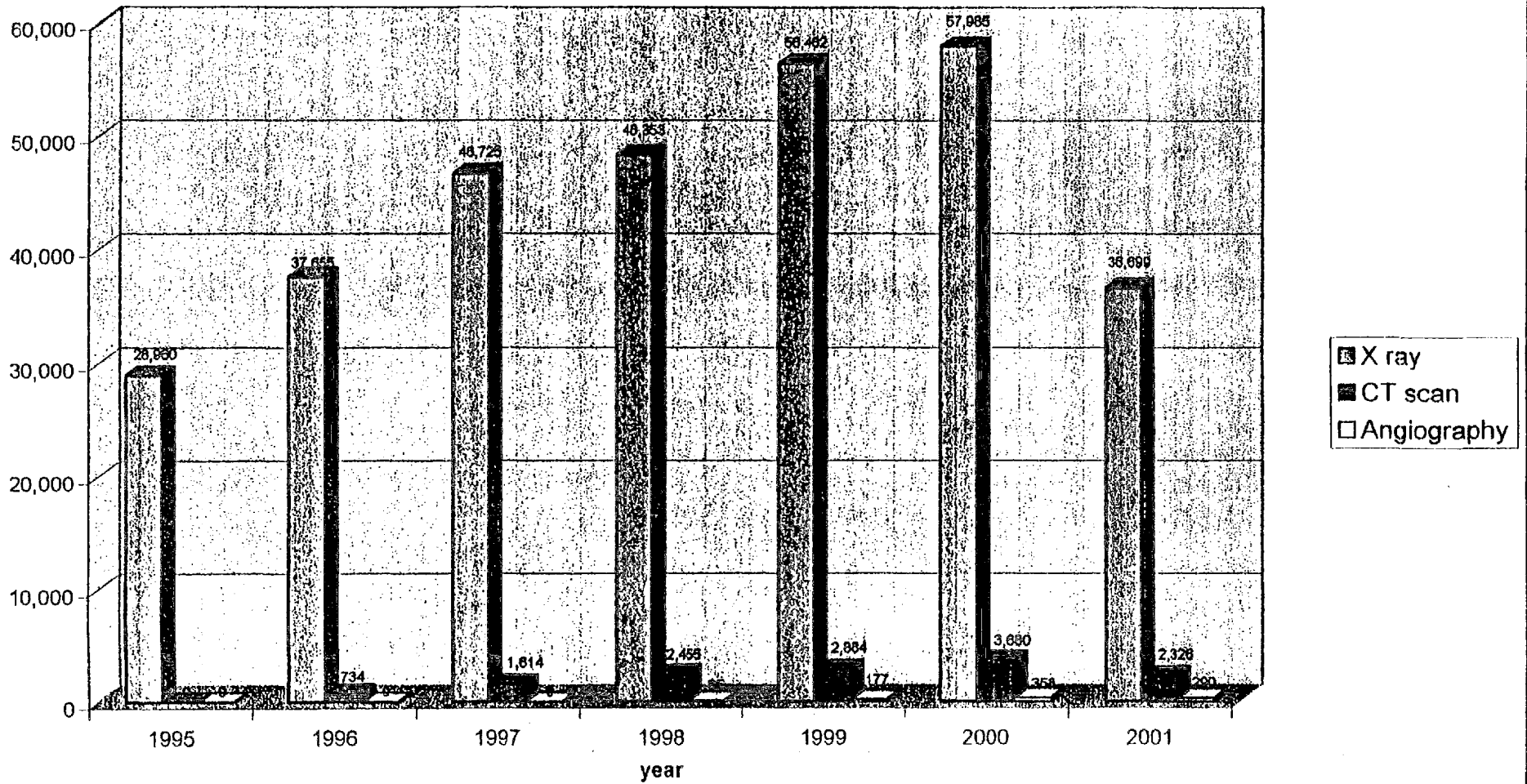
# FUNCTIONAL EXAMINATION ACTIVITY

(from 1995 to the half of the year 2001)



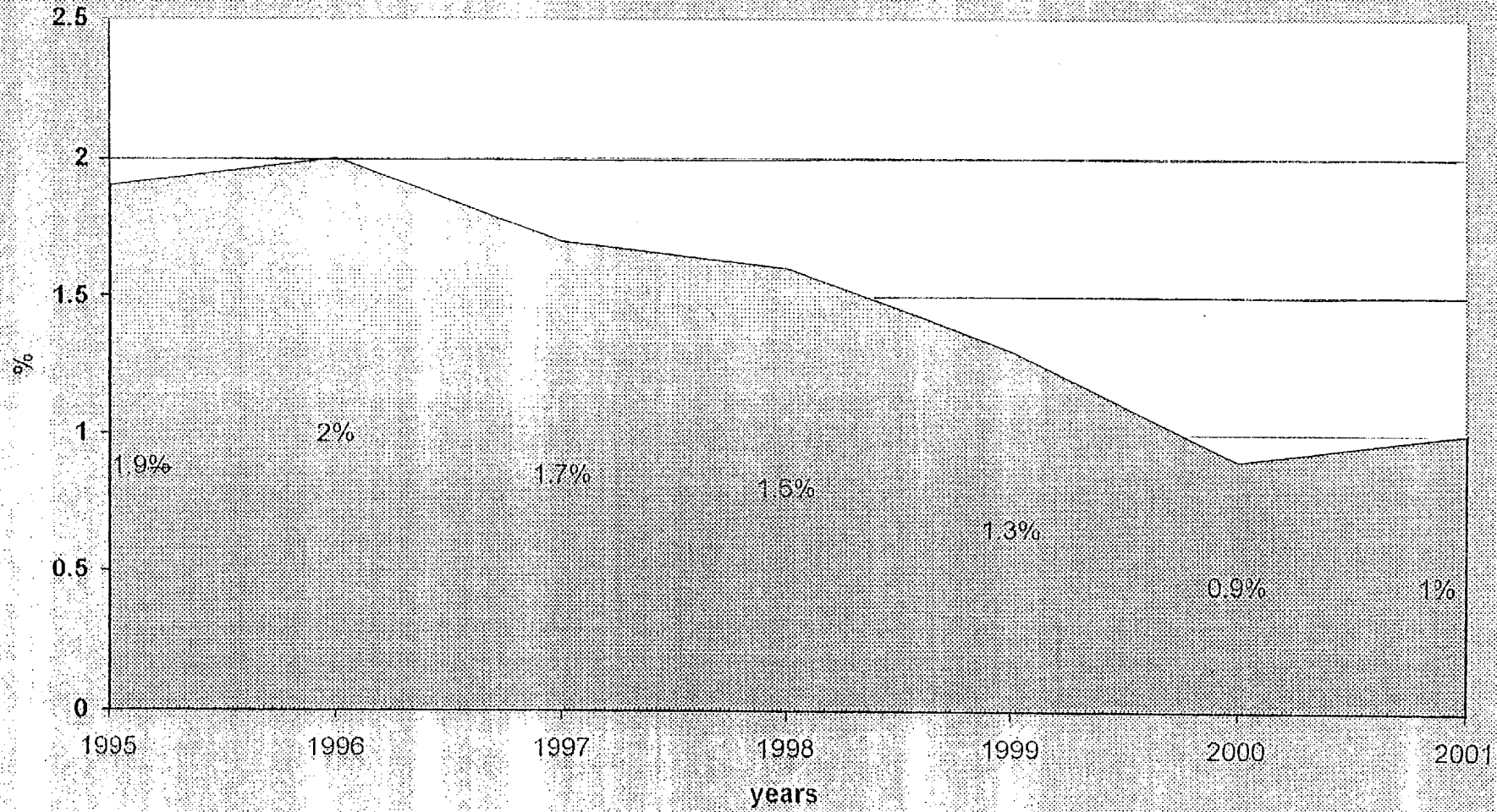
# IMAGING DIAGNOSTIC ACTIVITY

(from 1996 to the first 6 months of the year 2001)



# MORTALITY RATE

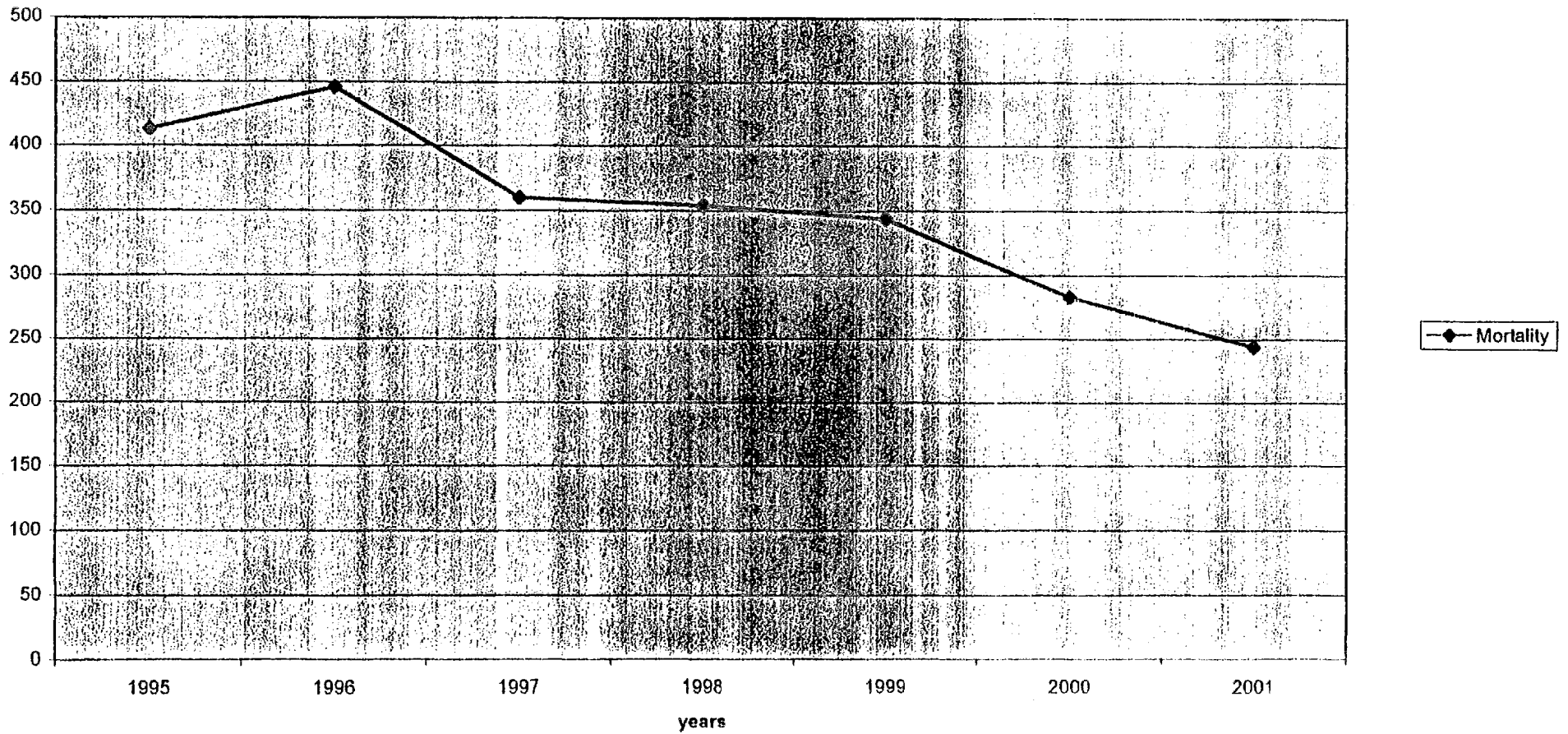
(From 1995 to the first 6 months of the year 2001)





# MORTALITY SITUATION

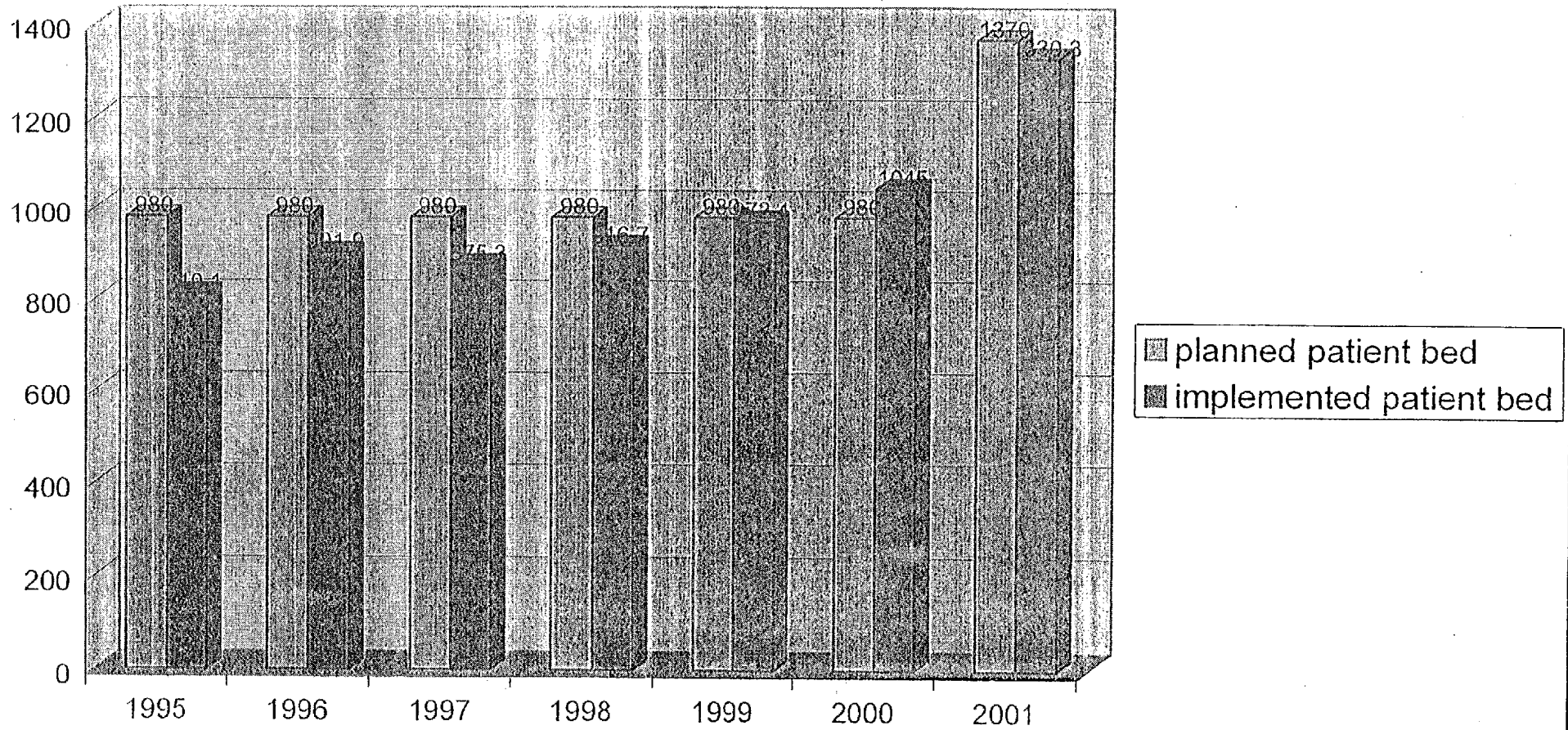
(from 1995 to the half of the year 2001)





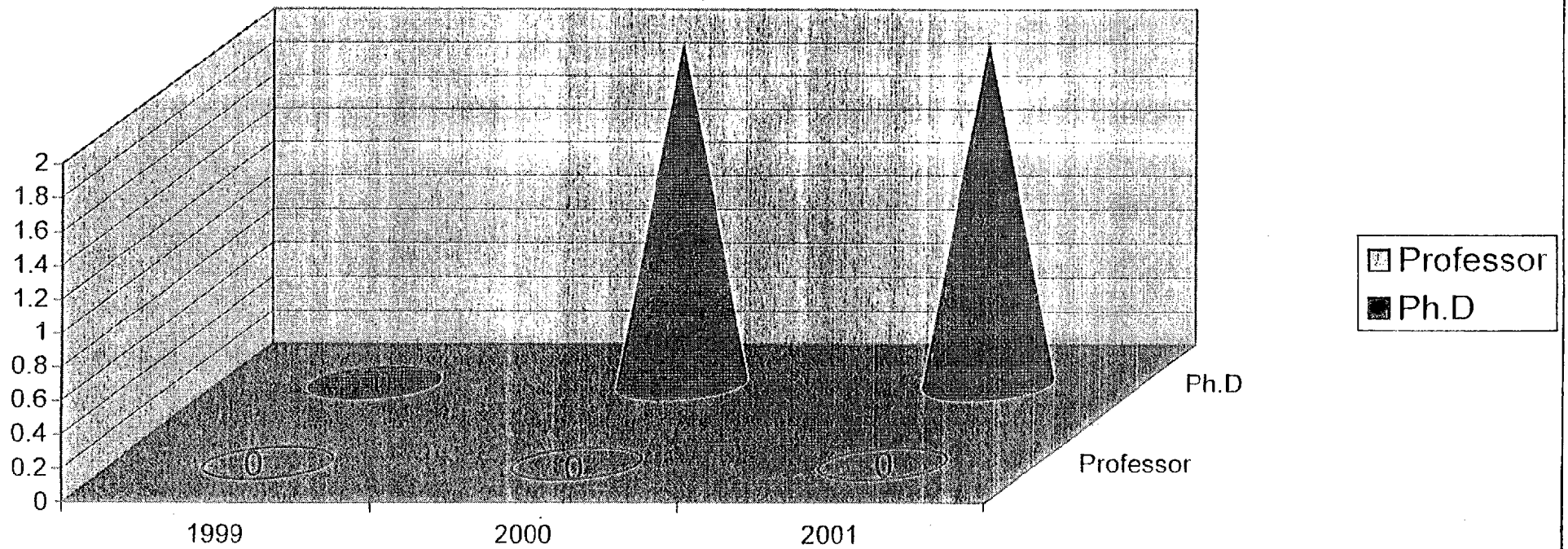
# BED OCCUPANCY

(from 1995 to the first 6 months of the year 2001)



# NO.OF PROFESSOR AND DOCTOR OF SCIENCE (from 1999 to the first 6 months of the year 2001)

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**Indicators: Basic information and Activities of Clinical Department  
Department of Gastroenterology**

		1999	2000	2001 (~June)
1	No. of bed	35	35	50
2	No. of doctors	23	25	24
3	No. of nurses	17	18	16
4	Bed occupancy rate	163.5%	188.3%	135.6%
5	Mortality rate	0.8%	0.9%	1.1%
6	No. of out-patients			
7	No. of in-patients	1,342	1,571	789
8	No. of referred cases from other hospitals	18	23	12
9	No. of scientific papers	13	14	13
10	No. of training courses	4	2	3
11	No. of trainees	45	40	70
12	No. of journal club	7	9	8

**Clinical Procedures of Department (Institute) Dept. Inst.): Gastroenterology**

Please describe information of leading procedures following the example

		1999		2000		2001(11 June)	
	Procedures	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform
\$	Example; Cardiac echogram						
1	Fibroscopy	2678		3,000		1,559	
2	Coloscopy	173		265		202	
3	ERCP	59		64		30	
4	Echoendoscopy	71		65		41	
5	Echoultrasound	2,932		3,200		2,560	
6	Polypectomy	8		7		3	
7	Hemostasix	42		38		22	
8	Eso variceal ligation	39		41		21	
9	Laparoscopy	68		72		62	
10	Hepatic biopsy	28		32		19	
11	Percutaneous transhepatic cholangiogram	15		18		6	
12	Needle aspiration	163		156		52	
13	Abcess aspiration	81		75		43	

**Indicators: Basic information and Activities of Clinical Department  
Department of Pediatrics**

		1999	2000	2001 (~June)
1	No. of bed	40	40	50
2	No. of doctors	11	12	14
3	No. of nurses	20	20	20
4	Bed occupancy rate	103.0%	102.0%	110.0%
5	Mortality rate	0.83%	1.1%	1.05%
6	No. of out-patients	12,851	10,368	8,315
7	No. of in-patients	1,232	1,346	938
8	No. of referred cases from other hospitals			
9	No. of scientific papers	2	3	1
10	No. of training courses	0	1	0
11	No. of trainees	0	32	0
12	No. of journal club	7	18	9

**Clinical Procedures of Department (Institute) Dept. Inst.): Pediatrics**

Plases describe information of leading procedures following the example

	Procedures	1999		2000		2001(□June)	
		Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform
\$	Example; Cardiac echogram						
1	Cardiac echogram			172	3	226	3
2	ECG			314	8	358	8
3	Lumbar puncture					94	14
4	Intubation					4	4
5	Invasive-non invasive ventilator					8	6
6							
7							
8							
9							
10							

**Indicators: Basic information and Activities of Clinical Department  
Department of Emergency medicine**

		1999	2000	2001 (~June)
1	No. of bed			20
2	No. of doctors			10
3	No. of nurses			17
4	Bed occupancy rate			194.2%
5	Mortality rate			1.59%
6	No. of out-patients			1,383
7	No. of in-patients			6,795
8	No. of referred cases from other hospitals			279 (esp: trauma patients, tuberculosis)
9	No. of scientific papers			20
10	No. of training courses			40
11	No. of trainees			7
12	No. of journal club			30

Note: Emergency Medicine Department was set up on March 2001

**Clinical Procedures of Department (Institute) Dept. Inst.): Emergency Medicine**

Plases describe information of leading procedures following the example

		1999		2000		2001(June)	
	Procedures	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform
\$	Example; Cardiac echogram					2,000	8
1	Chest Xray						
2	Electric shock (defibrilation)					300	10
3	Electrocardiography					3,000	10
4	Blood gas analyser					250	10
5	Artificial ventilation					300	10
6	Intubation					380	10
7	Urgent Tracheostomia					30	10
8	Pace maker Internal-External					8	External:10 Internal:8
9	Gastrofibroscopy-stasis					30	2
10	Bronchoscopy+lavage					10	1
11	Chest tube					50	10
12	Thoracotomia					2	0



**Indicators: Basic information and Activities of Clinical Department  
Department of ICU**

		1999 *	2000	2001 (~June)
1	No. of bed	16	16	30
2	No. of doctors	13	10	6
3	No. of nurses	39	18	29
4	Bed occupancy rate	152.7%	119.2%	71.3%
5	Mortality rate	9.1%	8.67%	15.0%
6	No. of out-patients	679	594	222
7	No. of in-patients	647	563	141
8	No. of referred cases from other hospitals	233	217	221
9	No. of scientific papers	9		
10	No. of training courses	21		
11	No. of trainees	579		
12	No. of journal club	50	50	25

\* Emergency room in OPD is included

**Clinical Procedures of Department (Institute) Dept. (Inst.): ICU**

Please describe information of leading procedures following the example

		1999 ※		2000		2001(□June)	
	Procedures	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform
\$	Example; Cardiac echogram						
1	Ventilation	1,014	13	457	10	252	6
2	Catheterization	279	13	205	10	139	6
3	Intubation	293	13	247	10	133	6
4	Tracheotomy	116	13	82	10	51	6
5	Chest tube	108	13	31	10	45	6
6	Bedside Chest X ray	1,125	13	1,094	10	649	6
7	Bronchoscopy	99	2	60	2		2
8	Gastroscopy	103	2	73	2		2
9	Temporary Pacemaker	5	13	4	10	1	6
10	Cardiac, abdomen echogram	600	1		1		1

※ Activities of Emergency room in OPD are included

**Indicators: Basic information and Activities of Clinical Department  
Institute of Tropical Medicine**

		1999	2000	2001 (~June)
1	No. of bed	100	120	120
2	No. of doctors	27	27	28
3	No. of nurses	44	42	45
4	Bed occupancy rate	51.96%	85.0%	109.9%
5	Mortality rate	2.63%	1.74%	2.19%
6	No. of out-patients	4,481	5,670	2,125
7	No. of in-patients	2,616	2,569	1,625
8	No. of referred cases from other hospitals	~62%	~70%	~68%
9	No. of scientific papers	12	10	6
10	No. of training courses			
11	No. of trainees			
12	No. of journal club	8	6	3

**Clinical Procedures of Department (Institute) Dept. Inst.): Tropical Medicine/ Infectious Diseases**

Please describe information of leading procedures following the example

		1999		2000		2001(I, June)	
	Procedures	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform	Total No. performed	No. of Doctors who can perform
\$	Example; Cardiac echogram						
1	Echogram	2,458	5	2,645	6	1,432	6
2	ECG	236	7	218	7	108	6
3	CD4, CD8 count	250	3	300	3	250	3
4	Lumbar puncture	1,236	20	1,361	22	721	22
5	Pleuralcentesis						
6	Laparoscentesis						
7	Liver biopsy	12	3	15	3	2	3
8							
9							
10							