

中目医学教育センター短期専門家派遣計画
 プロジェクト
 科目、課題：口腔科

- 1 学生の臨床実習を指導する
 2 住居医師の養成を指導する
 3 新しい技術の導入
 1 顎矯正外科の診断新技術 (術前測定、数字処理、模型設計)
 2 側頭下顎関節疾患の診断治療新技術
 3 頭面外科連合の下側頭骨凹及び頭蓋底腫瘍の切除

指導課題施行年月日 (予定) : 1997年6月--1997年7月 1998年11月--1998年12月
 質問者 (日本側) 氏名 : 応答者 (中国側) 氏名 :

課題の説明と理由 (或いは課題の目的)	課題の具体的な実施内容	課題遂行に必要な機器、器具など(携行器材)	課題遂行に必要な専門家 (長短期)の人数と期間	その他
中国医科大学日本語実習義塾卒業後、臨床医としての向上を促し、新しい技術の導入をさせる。	1 臨床実習学生指導 (1)中国側と実習大綱の改革に協力 (2)臨床実習能力試験方法の作成 2 住居医師の養成 (1)住居医師の訓練試験方法を作る (2)住居医師の科学研究能力訓練方法を作る	(30万円以内で携行器材は器材の名称、生産メーカー、規格、値段等の提出が必要である。	2名 1ヶ月ずつ	
	3 新しい技術の導入 1 顎矯正外科の診断新技術 (術前測定、数字処理、模型設計) 2 側頭下顎関節疾患の診断治療新技術 3 頭面外科連合の下側頭骨凹及び頭蓋底腫瘍の切除			
	4 教材修正			

中日医学教育センター臨床医家派遣計画

科目、課題：小児内科
 1 学生の臨床実習を指導する
 2 住院医師の養成を指導する
 3 新しい技術の導入
 1 小児と小児ファイバースコープの検査技術
 2 難治性癲癇の薬物動態の研究

指導課題施行年月日（予定）：1995年6月～1999年7月
 質問者（日本側）氏名：
 応答者（中国側）氏名：

課題の説明と理由 (或いは課題の目的)	課題の具体的な実施内容	課題遂行に必要な機器 , 器具など(携行器材)	課題遂行に必要な専門家 (長短期)の人数と期間	その他
中国医科大学日本語 卒業臨床実習 と卒業後住居向上と 成を促進し、新しい技 術を導 入する。	1 臨床実習生指導 (1)中国側と実習大綱の改革 に協力 (2)臨床実習能力試験方法の 作成 2 住院医師の養成 (1)住院医師の訓練試験方法 を作る (2)住院医師の科学研究能力 訓練方法を作る	(30万円以内で携行器 材は器材の名称、生産 メーカー、規格、値段等 の提出が必要である。	2名 各1ヶ月ずつ	
	3 新しい技術の導入 1 小児と小児ファイバースコープ の検査技術 2 難治性癲癇の薬物動態の研究			
4	教材修正			

付表

付表2 中田医学教育センター臨床医学教育プロジェクト最新医療技術の導入

1994.7草稿

1994.8修正

1994.10修正

年度 科別	1995.4--1996.3 第一年度	1996.4--1997.3 第二年度	1997.4--1998.3 第三年度	1998.4--1999.3 第四年度	1999.4--2000.4 第五年度
1 小児 内科	1 嬰兒小児の呼吸器 支那の検査技術				2 難治性癲癇の薬物選 択と癲癇治療中薬物動 態学の研究
2 耳鼻 咽喉 科	1 節食YAGレーザー 2 頸頸部腫瘍レーザー治療 3 睡眠一時停止症候群の 治療				
3 産婦 人科	1 産婦人科の悪性腫瘍 の診断治療の新しい技術 (晩期卵巣癌) 2 子宮内用子宮 頸癌切除術 3 子宮内服の切除術 機能性出血の治療				4 腹腔鏡で産婦人科 治療の新しい技術 5 子宮腔鏡で機能 性子宮出血の治療 6 超音波下で腫瘍管 の穿刺術(行)
4 中央 臨床 検査 室	1 PORT肝炎検査の新しい 進展 2 酵素検査の新しい進展 3 細胞学診断の新しい進展				
5 放射 線科	1 MIRD機能画像形成の 研究及びMIRD値、類 及腹部の応用 2 CT立体画像の技術				
6 泌尿 内科	1 ネフローゼ症候群の 凝固と繊維溶解の研究	2 細胞生物学を基礎として 糸球体腎炎の時各種粘着 因子の糸球体内の表示			
7 循環 内科	1 経皮心臓同期欠損の 治療術	2 心臓内超音波			
8 泌尿 外科	1 腹腔鏡で泌尿外科領域の 応用	2 経腎鏡腎盂内切開 (腎盂、尿管狭くなる)			
9 一般 外科	1 内視鏡で消化道疾病の 治療 2 腹腔鏡で消化管及び胆 の切除術	3 胸部大動脈腫外科治療 4 拡大腸胃十二指腸の切除 術 5 血管内視鏡治療			
10 精神 学	1 結構会谈実施技術 2 心理試験新技術 3 食事障害治療技術	4 認知一行為療法 5 森田療法			
11 超音 波		1 超音波内視鏡技術	2 251775の検査技術		

付表2の続き

年度 科別	1995 4--1996 3 第一年度	1996 4--1997 3 第二年度	1997 4--1998 3 第三年度	1998 4--1999 3 第四年度	1999 4--2000 4 第五年度
12消化 内科		1 PCR方法による検査 の新しい技術	2 内視鏡治療の新しい技術 3 胃粘膜の土細胞, 型細胞, G細胞の分離及び培養技術		
13神経 内科		1 組織化学病理(神経, 筋肉のATPase)	2 脳血管模型及び組織化学 研究 3 神経系統遺伝病臨床研究		
14麻酔 科		1 疼痛治療の新しい技術	2 救急及び後の治療		
15核医 学		1 心筋断層撮影定量分析法 2 断層CTの心臓血流現 象方法の成立と臨床応用	3 心筋CTの現像方法 4 冠CSEの定量分析及 び冠総研究の応用 5 核医学の最新技術		
16呼吸 内科			1 胸腔鏡の検査及び応用		
17血液 内科			1 末梢血幹細胞の移植技術 2 PCR法による急性白血病微小 残留病変の検査技術		
18整形 外科			1 全人工大腿関節置 換最新技術 2 脊椎外科の新進展		
19眼科			1 ガラス体の剥離及び網膜 脱落湿じりの手術治療		
20口腔 科			1 顎矯正外科の治療新手術 (術前測定の数値処理 数字より模型設計)	2 側頭下顎関節疾患の 診断治療新技術 3 頭面外科連合の下側 頭骨凹と顎蓋底腫瘍 治療	
21胸部 外科				1 胸腔鏡の臨床応用 2 気管代替物臨床応用	
22心臓 外科				1 左心補助循環 2 創傷性心機能検査技 術	
23内分 泌科				1 早期糖尿病腎症非 創傷性指標の探索 と研究 2 NIDDMとインスリン抵 抗の研究	3 中国老人骨質減少症 流行病学と病因の研究 4 甲状腺眼病の生物学 と免疫抗体の研究
24皮膚 科				1 PCR技術を用いた皮膚科 の診断及び治療指導	2 酵素の電子顕微鏡 技術
25神経 外科				1 海綿洞内腫瘍顕微 手術技術	2 脳移植実験室検査 技術

(MODIFIED VERSION)

Table THE DISTRIBUTION RATIO OF APPLYING EQUIPMENT

Currency: JPY1,000
November 2, 1994

China Medical University

No.	Implementation Time	Amount		CMU		HCJMEC		IH		Remarks
		Cost	%	Cost	%	Cost	%	Cost	%	
1.	1995 ~ 1996	149,940	23.73	17,860	2.83	85,480	13.53	46,600	7.37	
2.	1996 ~ 1997	114,660	18.15			88,560	14.02	26,100	4.13	
3.	1997 ~ 1998	136,750	21.64			90,450	14.31	46,300	7.33	
4.	1998 ~ 1999	116,000	18.36			74,200	11.75	41,800	6.61	
5.	1999 ~ 2000	114,500	18.12			72,350	11.45	42,150	6.67	
Total Amount:		631,850	100.00	17,860	2.83	411,040	65.06	202,950	32.11	

Remarks: 1. CMU - China Medical University
HCJMEC - Hospital Affiliated China-Japan Medical Education Center,
IH - First Hospital Affiliated CMU

2. Details, See Attached Equipment List (Modified)

EQUIPMENT LIST (Modified Version)

PROJECT OF CLINICAL MEDICINE EDUCATION IN CHINA-JAPAN MEDICAL EDUCATION CENTER

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost (JPY)		Distribution			Implementation Time (Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
I. GENERAL/COMMON TEACHING EQUIPMENT									
1.	Video Projection System	1 set	2,500,000	2,500,000			1	(1995)	
2.	Portable Video Projector	1 set	1,000,000	1,000,000		1		(1995)	
3.	Paper Copier	3 sets	2,700,000	8,100,000	1	1	1	(1995)	
4.	Computerized-Assist Teaching and Examination/Evaluation System	1 set	10,000,000	10,000,000	1			(1995)	
5.	Microcomputer with Printer	3 sets	500,000	1,500,000	1	1	1	(1995)	
6.	Japanese Word Processor	2 sets	490,000	980,000		1	1	(1995)	
7.	Individual Video Teaching Apparatus (30-seat)	30 sets	500,000	15,000,000			15	15	(1995)
8.	Computed Case Record Management System	1 set	22,000,000	22,000,000			1		(1997)
9.	Mini Bus	1 set	2,000,000	2,000,000	1				(1995)
II. BASIC TEACHING EQUIPMENT FOR RELATIVE SPECIALITIES									
1.	35mm Slide Projector	24 sets	170,000	4,080,000	6	9	9	(1995)	
2.	Overhead Projector	18 sets	130,000	2,340,000	2	8	8	(1995)	
3.	Personal Microcomputer	20 sets	400,000	8,000,000	2	7	11	(1995)	
4.	Demonstration Monitor/Recorder	20 sets	250,000	5,000,000	2	7	11	(1995)	
5.	Laser Pointer	20 sets	20,000	400,000	4	6	10	(1995)	
6.	Japanese Word Processor	12 sets	300,000	3,600,000		5	7	(1995)	
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Blood Drug Concentration Analyzer	1 set	6,500,000	6,500,000			1	(1995)	
2.	PCR Apparatus	1 set	1,800,000	1,800,000			1	(1995)	
3.	Chemistry Analyzer (>=150 tests/Hours)	1 set	12,000,000	12,000,000			1	(1998)	
4.	Microbiological Identification and Drug Sensitivity System	1 set	12,000,000	12,000,000			1	(1997)	
5.	Fluorescence Spectrophotometer	1 set	2,500,000	2,500,000			1	(1998)	
6.	UV/VIS Spectrophotometer	1 set	1,500,000	1,500,000			1	(1995)	
7.	Automatic Coagulation Analyzer	1 set	4,500,000	4,500,000			1	(1996)	
8.	Binocular Microscope	30 sets	230,000	6,900,000			30	(1997)	
9.	UV Transilluminator	1 set	350,000	350,000			1	(1995)	
10.	Ultrasound Tissue Processor	1 set	250,000	250,000			1	(1995)	

Item No.	Description	Q'ty	Estimated Cost (JPY)		Distribution			Implementation Time (Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
11.	Electrically-Driven Homogenizer	1 set	200,000	200,000			1	(1995)	
12.	Thermostat Sharking Bath	2 sets	500,000	1,000,000			2	(1995)	
13.	Amino Acid Analyzer	1 set	13,000,000	13,000,000			1	(1997)	
14.	Hematocrit Centrifuge	1 set	400,000	400,000			1	(1995)	
15.	Microphotomicrography Unit	1 set	600,000	600,000			1	(1995)	
16.	Automatic Tissue Processor	1 set	2,000,000	2,000,000			1	(1995)	
17.	Rotary Microtome	1 set	800,000	800,000			1	(1996)	
18.	Microscope with Video/Image Computed Apparatus	1 set	12,000,000	12,000,000			1	(1999)	
19.	Multi-Viewing Microscope	1 set	800,000	800,000			1	(1995)	
20.	Ultra-Low Freezer, -85° C	1 set	1,200,000	1,200,000			1	(1998)	
21.	Catheters for Interventional Radiology	1 lot	1,800,000	1,800,000			1	(1995)	
22.	Urological X-ray Unit	1 set	12,000,000	12,000,000			1	(1997)	
23.	Ultrasound Scanner with Biopsy Probe	1 set	7,500,000	7,500,000			1	(1995)	
24.	Duodenofiberscope	1 set	2,000,000	2,000,000			1	(1995)	
25.	Portable Ultrasound Scanner	1 set	2,000,000	2,000,000			1	(1998)	
26.	Esophageal Probe for B-Scanner	1 set	2,000,000	2,000,000			1	(1995)	
27.	Referenc Unit for B-Scanner	1 set	500,000	500,000			1	(1995)	
28.	Ultrasound Endoscope	1 set	6,000,000	6,000,000			1	(1995)	
29.	Stress ECG System	1 set	4,500,000	4,500,000			1	(1995)	
30.	Accessories for OLYMPUS Endoscopes	1 lot	1,500,000	1,500,000			1	(1995)	
31.	Automatic GAMMA Counter	1 set	4,000,000	4,000,000			1	(1995)	
32.	Liquid scintillation Counter	1 set	5,000,000	5,000,000			1	(1998)	
33.	Large Capacity Refrigerated Centrifuge	2 sets	1,750,000	3,500,000			1	1	(1998)
34.	Inverted Microscope	1 set	1,000,000	1,000,000				1	(1998)
35.	Flow Cytometer	1 set	18,000,000	18,000,000			1		(1998)
36.	VCR Unit for GI X-Ray Unit	1 set	2,000,000	2,000,000			1		(1995)
37.	Mobile X-Ray Unit	1 set	2,000,000	2,000,000			1		(1999)
38.	Blood Cell Counter	1 set	1,000,000	1,000,000			1		(1999)
B. For Surgical Systems									
1.	Resectoscope	1 set	3,000,000	3,000,000			1		(1996)
2.	Nephroscope w/Surg. Apparatus	1 set	3,500,000	3,500,000				1	(1996)
3.	Mobile C-Arm X-Ray Unit	1 set	7,500,000	7,500,000			1		(1996)
4.	Operating Microscope	1 set	3,000,000	3,000,000			1		(1996)
5.	Stereomicroscope	1 set	700,000	700,000			1		(1996)
6.	Binocular Microscope	2 sets	230,000	460,000			2		(1996)
7.	Portable Ultrasound Scanner	2 sets	2,500,000	5,000,000			1	1	(1996)
8.	Vascular Endoscope	1 set	3,500,000	3,500,000				1	(1996)
9.	Surgical Laser Unit	1 set	8,000,000	8,000,000			1		(1997)
10.	Rapidly Blood Transfusion Unit	1 set	8,000,000	8,000,000				1	(1997)
11.	Anesthesia Machine	3 sets	4,000,000	12,000,000			2	1	(1997)
12.	Anesthetic Gases Analyzer	2 sets	1,500,000	3,000,000			1	1	(1997)
13.	Patient Monitor	2 sets	1,750,000	3,500,000			1	1	(1998)

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CMU	HC/JMEC	IH		
14.	Access. for Laryngofiberscope	1 lot	600,000	600,000	1			(1995)	
15.	Bronchofiberscope	1 set	2,500,000	2,500,000			1	(1998)	
16.	EEG Monitor	1 set	3,000,000	3,000,000				1	(1998)
17.	Swan-Ganz Catheters	1 lot	800,000	800,000				1	(1998)
18.	Nerve Stimulator	1 set	300,000	300,000				1	(1998)
19.	Neuromuscular Transmission Monitor	1 set	1,000,000	1,000,000	1				(1997)
20.	Orthopaedic X-Ray Unit & Table	1 set	5,000,000	5,000,000	1				(1998)
21.	Orthopaedic Treatment Bed	4 sets	800,000	3,200,000	4				(1998)
22.	Arthroscope	1 set	6,800,000	6,800,000			1		(1998)
23.	Air-Drivelly Surg. Apparatus	1 set	3,500,000	3,500,000				1	(1998)
24.	Artificial Joints Apparatus	1 set	2,000,000	2,000,000				1	(1998)
25.	Ultra-Low Temperature Freezer	2 sets	1,100,000	2,200,000				2	(1998)
26.	Bone Densitometer	1 set	4,000,000	4,000,000				1	(1998)
27.	Neurosurgical Apparatus	1 set	4,000,000	4,000,000	1				(1999)
28.	Neurophysiological Recorder	1 set	3,000,000	3,000,000				1	(1999)
29.	Physiological Monitor with CO	1 set	3,500,000	3,500,000				1	(1999)
30.	Dilation Catheters	1 lot	1,000,000	1,000,000				1	(1999)
31.	Centrifugal Pump	1 set	5,000,000	5,000,000				1	(1999)
32.	Thoracoscope with Surgical Apparatus	1 set	4,500,000	4,500,000	1				(1999)
33.	Ventilator	2 sets	3,000,000	6,000,000	1		1		(1999)
34.	Inverted Microscope	1 set	1,000,000	1,000,000				1	(1999)
C. For Internal Medicine System									
1.	Accessories for Hemodialyzer	1 lot	4,000,000	4,000,000	1				(1996)
2.	Portable Ultrasound Scanner	1 set	1,800,000	1,800,000				1	(1996)
3.	Osmosis Meter	1 set	1,200,000	1,200,000				1	(1996)
4.	Fibrinolysis Analyzer	1 set	2,000,000	2,000,000				1	(1996)
5.	Physiological Polygraph	1 set	4,500,000	4,500,000	1				(1996)
6.	Bedside Physiological Monitor	6 sets	1,500,000	9,000,000	4		2		(1996)
7.	Central Monitor	1 set	3,000,000	3,000,000	1				(1996)
8.	Defibrillator/Pacemaker	1 set	1,500,000	1,500,000	1				(1996)
9.	Electrocardiograph	2 sets	300,000	600,000	1		1		(1996)
10.	Color Doppler Ultrasound Scanner with Intravessel Probe	1 set	30,000,000	30,000,000	1				(1996)
11.	16mm Cine Projector for Angiograph	1 set	2,500,000	2,500,000				1	(1996)
12.	Multi-Channel Phonograph	1 set	2,000,000	2,000,000				1	(1996)
13.	Echocardiograph	1 set	9,000,000	9,000,000				1	(1997)
14.	Transcranial Doppler Unit	1 set	4,500,000	4,500,000	1				(1996)
15.	Refrigerated Microtome	1 set	3,000,000	3,000,000				1	(1996)
16.	Cell Incubator	1 set	800,000	800,000				1	(1996)
17.	EEG, 18-Channel	1 set	2,500,000	2,500,000				1	(1997)
18.	Biofeedback Analyzer	1 set	5,000,000	5,000,000	1				(1998)
19.	Electric Shock Therapy Unit	1 set	1,500,000	1,500,000				1	(1997)
20.	Musical Therapy Unit	1 set	800,000	800,000				1	(1997)

Item No.	Description	Q'ty	Estimated Cost (JPY)		Distribution			Implementation Time (Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
21.	Detest Therapy Unit	1 set	1,000,000	1,000,000			1	(1997)	
22.	Bilirubin Meter	1 set	350,000	350,000			1	(1997)	
23.	Hemofiltration Aparatus	1 set	1,500,000	1,500,000			1	(1997)	
24.	Electrophoresis System	1 set	2,000,000	2,000,000			1	(1997)	
25.	General Centrifuge	2 sets	1,200,000	2,400,000			1	(1997)	
26.	DNA Thermal Cycler	1 set	1,000,000	1,000,000			1	(1997)	
27.	Ultrasound Endoscope Probe	1 set	1,800,000	1,800,000			1	(1997)	
28.	Ultrasound Scanner, Combine	1 set	7,500,000	7,500,000			1	(1997)	
29.	Endoscope TV Apparatus	1 set	3,000,000	3,000,000			1	(1997)	
30.	Pulmonary Function Analyzer	1 set	7,500,000	7,500,000			1	(1998)	
31.	Thoracoscope	1 set	6,000,000	6,000,000			1	(1998)	
32.	Platelet Aggregation Analyzer	1 set	2,000,000	2,000,000			1	(1998)	
33.	Blood Cell Separator	1 set	6,500,000	6,500,000			1	(1998)	
34.	Binocular Microscope	6 sets	500,000	3,000,000			4	(1998)	
35.	Universal Microscope	1 set	3,000,000	3,000,000			1	(1998)	
36.	UV Transilluminator and Photography Unit	1 set	1,000,000	1,000,000			1	(1998)	
37.	Electrophoresis Densitometer	1 set	3,000,000	3,000,000			1	(1999)	
38.	Blood Glucose Analyzer	1 set	3,200,000	3,200,000			1	(1999)	
39.	Ultra Low Temperature Freezer	1 set	1,000,000	1,000,000			1	(1999)	
D. For Pediatrics									
1.	Physiological Monitor for Neonatal	4 sets	1,800,000	7,200,000			4	(1995)	
2.	Pediatric Bronchofiberscope	1 set	1,200,000	1,200,000			1	(1995)	
3.	Blood Gas Analyzer	1 set	4,500,000	4,500,000			1	(1997)	
4.	Infant/Pediatric Ventilator	1 set	3,000,000	3,000,000			1	(1995)	
5.	Infusion Pump	4 sets	200,000	800,000			1	(1995)	
6.	Tissue Cell Incubator	1 set	1,100,000	1,100,000			1	(1995)	
7.	Inverted Microscope	1 set	540,000	540,000			1	(1995)	
8.	Table-Top Centrifuge	1 set	1,200,000	1,200,000			1	(1995)	
E. For GY/OB									
1.	Surgical Apparatus for Operating Hysteroscope	1 set	1,500,000	1,500,000			1	(1995)	
2.	Delivery Monitor	1 set	2,500,000	2,500,000			1	(1995)	
3.	Infant Incubator with Monitor	2 sets	1,200,000	2,400,000			2	(1995)	
4.	Bipolar Electrosurgical Unit	1 set	1,200,000	1,200,000			1	(1995)	
5.	Laparoscope with Surgical Apparatus	1 set	6,500,000	6,500,000			1	(1996)	
6.	Ultra Low Temperature Freezer	1 set	1,000,000	1,000,000			1	(1996)	

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution		Implementation Time(Year)	Remarks
			Unit	Total	CMU	HCJMEC IH		
F. For ENT								
1.	ENT Examination Table	2 sets	1,750,000	3,500,000	1		(1995)	
2.	Otoscope	30 sets	50,000	1,500,000	15	15	(1995)	
3.	Laryngoscope	2 sets	1,500,000	3,000,000	2		(1995)	
4.	ENG/Autory EP Analyzer	1 set	4,000,000	4,000,000	1		(1996)	
5.	Nasosinuscope with Surgical Apparatus	1 set	4,500,000	4,500,000		1	(1995)	
6.	Contact YAG Laser Unit	1 set	2,500,000	2,500,000		1	(1995)	
G. For Ophthalmology								
1.	Automatic Perimeter	1 set	4,500,000	4,500,000	1		(1999)	
2.	Split Microscope	2 sets	1,250,000	2,500,000	1	1	(1999)	
3.	Ventory Aspirator System	1 set	8,000,000	8,000,000	1		(1999)	
4.	Visual Evoked Potential Unit	1 set	5,000,000	5,000,000	1		(1999)	
5.	Ophthalmological Laser Unit	1 set	10,000,000	10,000,000	1		(1999)	
6.	Ophthalmometer	1 set	600,000	600,000	1		(1999)	
7.	Keratometer	1 set	2,500,000	2,500,000	1		(1999)	
8.	Video Apparatus for Operating Microscope	1 set	800,000	800,000	1		(1996)	
H. For Stomatology								
1.	Dental Treating Unit	3 sets	2,000,000	8,000,000	2	1	(1999)	
2.	Dental Technique Table	4 sets	2,000,000	8,000,000	2	2	(1999)	
3.	Vacuum Porcelain Furnace	1 set	6,000,000	6,000,000		1	(1999)	
4.	Surgical Apparatus	1 set	4,000,000	4,000,000		1	(1999)	
5.	Operation Microscope	1 set	2,000,000	2,000,000		1	(1999)	
I. For Dermatology								
1.	Laser Therapy Unit	1 set	3,000,000	3,000,000	1		(1999)	
2.	Vibratome	1 set	1,800,000	1,800,000		1	(1999)	
3.	Sharking Bath, Thermostat	1 set	400,000	400,000		1	(1999)	
TOTAL AMOUNT:		402 sets		JPY631,850,000				

Remarks: The Annual Applying Equipment see APPENDIX 1 to 5.

APPENDIX 1.

EQUIPMENT LIST(1995)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost (JPY)		Distribution			Implementation Time (Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
I. GENERAL/COMMON TEACHING EQUIPMENT									
1.	Video Projection System	1 set	2,500,000	2,500,000			1	(1995)	
2.	Portable Video Projector	1 set	1,000,000	1,000,000			1	(1995)	
3.	Paper Copier	3 sets	2,700,000	8,100,000	1	1	1	(1995)	
4.	Computerized-Assist Teaching and Examination/Evaluation System	1 set	10,000,000	10,000,000	1			(1995)	
5.	Microcomputer with Printer	3 sets	500,000	1,500,000	1	1	1	(1995)	
6.	Japanese Word Processor	2 sets	490,000	980,000		1	1	(1995)	
7.	Individual Video Teaching System	30 sets	500,000	15,000,000			15	(1995)	
8.	Mini Bus	1 set	2,000,000	2,000,000	1			(1995)	
II. BASIC TEACHING EQUIPMENT FOR RELATIVE SPECIALITIES									
1.	35mm Slide Projector	24 sets	170,000	4,080,000	6	9	9	(1995)	
2.	Overhead Projector	18 sets	130,000	2,340,000	2	8	8	(1995)	
3.	Personal Microcomputer	20 sets	400,000	8,000,000	2	7	11	(1995)	
4.	Demonstration Monitor/Recorder	20 sets	250,000	5,000,000	2	7	11	(1995)	
5.	Laser Pointer	20 sets	20,000	400,000	4	6	10	(1995)	
6.	Japanese Word Processor	12 sets	300,000	3,600,000		5	7	(1995)	
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Blood Drug Concentration Analyzer	1 set	6,500,000	6,500,000			1	(1995)	
2.	PCR Apparatus	1 set	1,800,000	1,800,000			1	(1995)	
3.	UV/VIS Spectrophotometer	1 set	1,500,000	1,500,000			1	(1995)	
4.	UV Transilluminator	1 set	350,000	350,000			1	(1995)	
5.	Ultrasound Tissue Processor	1 set	250,000	250,000			1	(1995)	
6.	Electrically-Driven Homogenizer	1 set	200,000	200,000			1	(1995)	
7.	Thermostat Shaking Bath	2 sets	500,000	1,000,000			2	(1995)	
8.	Hematocrit Centrifuge	1 set	400,000	400,000			1	(1995)	
9.	Microphotomicrography Unit	1 set	600,000	600,000			1	(1995)	
10.	Automatic Tissue Processor	1 set	2,000,000	2,000,000			1	(1995)	
11.	Multi-Viewing Microscope	1 set	800,000	800,000			1	(1995)	
12.	Catheters for Interventional Radiology	1 lot	1,800,000	1,800,000			1	(1995)	
13.	Ultrasound Scanner with Biopsy Probe	1 set	7,500,000	7,500,000			1	(1995)	
14.	Duodenofiberscope	1 set	2,000,000	2,000,000			1	(1995)	

- Continued to EQUIPMENT LIST(1995)

CHINA MEDICAL UNIVERSITY

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Item No.	Description	Q'ty	Estimated Unit	Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
				Unit	Total	CMU	HCJMEC	IH		
15.	Esophageal Probe for B-Scanner	1 set	2,000,000	2,000,000		1			(1995)	
16.	Refereneec Unit for B-Scanner	1 set	500,000	500,000		1			(1995)	
17.	Ultrasound Endoscope	1 set	6,000,000	6,000,000		1			(1995)	
18.	Stress ECG System	1 set	4,500,000	4,500,000		1			(1995)	
19.	Accessories for OLYMPUS Endoscopes	1 lot	1,500,000	1,500,000		1			(1995)	
20.	Automatic GAMMA Counter	1 set	4,000,000	4,000,000		1			(1995)	
21.	VCR Unit for GI X-Ray Unit	1 set	2,000,000	2,000,000		1			(1995)	
B. For Surgical Systems										
1.	Access. for Laryngofiberscope	1 lot	600,000	600,000		1			(1995)	
D. For Pediatrics										
1.	Physiological Monitor for Neonatal	4 sets	1,800,000	7,200,000		4			(1995)	
2.	Pediatric Bronchofiberscope	1 set	1,200,000	1,200,000		1			(1995)	
3.	Infant/Pediatric Ventilator	1 set	3,000,000	3,000,000		1			(1995)	
4.	Infusion Pump	4 sets	200,000	800,000		4			(1995)	
5.	Tissue Cell Incubator	1 set	1,100,000	1,100,000			1		(1995)	
6.	Inverted Microscope	1 set	540,000	540,000			1		(1995)	
7.	Table-Top Centrifuge	1 set	1,200,000	1,200,000			1		(1995)	
E. For GY/OB										
1.	Surgical Apparatus for Operating Hysteroscope	1 set	1,500,000	1,500,000		1			(1995)	
2.	Delivery Monitor	1 set	2,500,000	2,500,000		1			(1995)	
3.	Infant Incubator with Monitor	2 sets	1,200,000	2,400,000		2			(1995)	
4.	Bipolar Electrosurgical Unit	1 set	1,200,000	1,200,000		1			(1995)	
F. For ENT										
1.	ENT Examination Table	2 sets	1,750,000	3,500,000		2			(1995)	
2.	Otoscope	30 sets	50,000	1,500,000		15	15		(1995)	
3.	Laryngoscope	2 sets	1,500,000	3,000,000		2			(1995)	
4.	Nasosinuscope with Surgical Apparatus	1 set	4,500,000	4,500,000			1		(1995)	
5.	Contact YAG Laser Unit	1 set	2,500,000	2,500,000			1		(1995)	
TOTAL AMOUNT: 233 sets			JPY149,940,000							

APPENDIX 2.

EQUIPMENT LIST(1996)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CNU	HCJMEC	IH		
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Automatic Coagulation Analyzer	1 set	4,500,000	4,500,000				1	(1996)
2.	Rotary Microtome	1 set	800,000	800,000				1	(1996)
B. For Surgical Systems									
1.	Resectoscope	1 set	3,000,000	3,000,000				1	(1996)
2.	Nephroscope w/Surg. Aparatus	1 set	3,500,000	3,500,000				1	(1996)
3.	Mobile C-Arm X-Ray Unit	1 set	7,500,000	7,500,000				1	(1996)
4.	Operating Microscope	1 set	3,000,000	3,000,000				1	(1996)
5.	Stereomicroscope	1 set	700,000	700,000				1	(1996)
6.	Binocular Microscope	2 sets	230,000	460,000				2	(1996)
7.	Portable Ultrasound Scanner	2 sets	2,500,000	5,000,000				1	1 (1996)
8.	Vascular Endoscope	1 set	3,500,000	3,500,000				1	(1996)
C. For Internal Medicine System									
1.	Accessories for Hemodialyzer	1 lot	4,000,000	4,000,000				1	(1996)
2.	Portable Ultrasound Scanner	1 set	1,800,000	1,800,000				1	(1996)
3.	Osmosis Meter	1 set	1,200,000	1,200,000				1	(1996)
4.	Fibrinolysis Analyzer	1 set	2,000,000	2,000,000				1	(1996)
5.	Physiological Polygraph	1 set	4,500,000	4,500,000				1	(1996)
6.	Bedside Physiological Monitor	6 sets	1,500,000	9,000,000				4	2 (1996)
7.	Central Monitor	1 set	3,000,000	3,000,000				1	(1996)
8.	Defibrillator/Pacemaker	1 set	1,500,000	1,500,000				1	(1996)
9.	Electrocardiograph	2 sets	300,000	600,000				1	1 (1996)
10.	Color Doppler Ultrasound Scanner with Intravessel Probe	1 set	30,000,000	30,000,000				1	(1996)
11.	16mm Cine Projector for Angiograph	1 set	2,500,000	2,500,000				1	(1996)
12.	Multi-Channel Phonograph	1 set	2,000,000	2,000,000				1	(1996)
13.	Transcranial Doppler Unit	1 set	4,500,000	4,500,000				1	(1996)
14.	Refrigerated Microtome	1 set	3,000,000	3,000,000				1	(1996)
15.	Cell Incubator	1 set	800,000	800,000				1	(1996)

- Continued to EQUIPMENT LIST(1996)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
E. For GY/OB									
1.	Laparoscope with Surgical Apparatus	1 set	6,500,000	6,500,000	1			(1996)	
2.	Ultra Low Temperature Freezer	1 set	1,000,000	1,000,000	1			(1996)	
F. For ERT									
1.	ENG/Autory EP Analyzer Apparatus	1 set	4,000,000	4,000,000	1			(1996)	
G. For Ophthalmology									
1.	Video Apparatus for Operating Microscope	1 set	800,000	800,000	1			(1996)	
TOTAL AMOUNT:		37 sets		JPY114,600,000					

APPENDIX 3.

EQUIPMENT LIST(1997)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CMU	HCJMEC	HK		
I. GENERAL/COMMON TEACHING EQUIPMENT									
1.	Computed Case Record Management System	1 set	22,000,000	22,000,000			1	(1997)	
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Microbiological Identification and Drug Sensitivity System	1 set	12,000,000	12,000,000			1	(1997)	
2.	Binocular Microscope	30 sets	230,000	6,900,000			30	(1997)	
3.	Amino Acid Analyzer	1 set	13,000,000	13,000,000			1	(1997)	
4.	Urological X-ray Unit	1 set	12,000,000	12,000,000			1	(1997)	
B. For Surgical Systems									
1.	Surgical Laser Unit	1 set	8,000,000	8,000,000			1	(1997)	
2.	Rapidly Blood Transfusion Unit	1 set	8,000,000	8,000,000			1	(1997)	
3.	Anesthesia Machine	3 sets	4,000,000	12,000,000			2	1	(1997)
4.	Anesthetic Gases Analyzer	2 sets	1,500,000	3,000,000			1	1	(1997)
5.	Neuromuscular Transmission Monitor	1 set	1,000,000	1,000,000			1	(1997)	
C. For Internal Medicine System									
1.	EEG, 18-Channel	1 set	2,500,000	2,500,000			1	(1997)	
2.	Electric Shock Therapy Unit	1 set	1,500,000	1,500,000			1	(1997)	
3.	Musical Therapy Unit	1 set	800,000	800,000			1	(1997)	
4.	Detest Therapy Unit	1 set	1,000,000	1,000,000			1	(1997)	
5.	Bilirubin Meter	1 set	350,000	350,000			1	(1997)	
6.	Hemofiltration Apparatus	1 set	1,500,000	1,500,000			1	(1997)	
7.	Thermal Cycler, Programmable	1 set	1,000,000	1,000,000			1	(1997)	
8.	Electrophoresis System	1 set	2,000,000	2,000,000			1	(1997)	
9.	General Centrifuge	2 sets	1,200,000	2,400,000			1	1	(1997)
10.	Ultrasound Endoscope Probe	1 set	1,800,000	1,800,000			1	(1997)	
11.	Ultrasound Scanner, Combine	1 set	7,500,000	7,500,000			1	(1997)	
12.	Endoscope TV Apparatus	1 set	3,000,000	3,000,000			1	(1997)	
13.	Echocardiograph	1 set	9,000,000	9,000,000			1	(1997)	
D. For Pediatrics									
1.	Blood Gas Analyzer	1 set	4,500,000	4,500,000			1	(1997)	
TOTAL AMOUNT:		57 sets		JPY136,750,000					

APPENDIX 4.

EQUIPMENT LIST(1998)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Chemistry Analyzer (>=150 tests/Hours)	1 set	12,000,000	12,000,000	1			(1998)	
2.	Ultra-Low Freezer, -85° C	1 set	1,200,000	1,200,000		1		(1998)	
3.	Liquid scintillation Counter	1 set	5,000,000	5,000,000	1			(1998)	
4.	Large Capacity Refrigerated Centrifuge	2 sets	1,750,000	3,500,000	1	1		(1998)	
5.	Inverted Microscope	1 set	1,000,000	1,000,000		1		(1998)	
6.	Fluorescence Spectrophotometer	1 set	2,500,000	2,500,000	1			(1998)	
7.	Portable Ultrasound Scanner	1 set	2,000,000	2,000,000	1			(1998)	
8.	Flow Cytometer	1 set	18,000,000	18,000,000	1			(1998)	
B. For Surgical Systems									
1.	Patient Monitor	2 sets	1,750,000	3,500,000	1	1		(1998)	
2.	Bronchofiberscope	1 set	2,500,000	2,500,000		1		(1998)	
3.	EEG Monitor	1 set	3,000,000	3,000,000		1		(1998)	
4.	Swan-Ganz Catheters	1 lot	800,000	800,000		1		(1998)	
5.	Nerve Stimulator	1 set	300,000	300,000		1		(1998)	
6.	Orthopaedic X-Ray Unit & Table	1 set	5,000,000	5,000,000	1			(1998)	
7.	Orthopaedic Treatment Bed	4 sets	800,000	3,200,000	4			(1998)	
8.	Arthroscope	1 set	6,800,000	6,800,000		1		(1998)	
9.	Air-Drivelly Surg. Apparatus	1 set	3,500,000	3,500,000		1		(1998)	
10.	Artificial Joints Apparatus	1 set	2,000,000	2,000,000		1		(1998)	
11.	Ultra-Low Temperature Freezer	2 sets	1,100,000	2,200,000		2		(1998)	
12.	Bone Densitometer	1 set	4,000,000	4,000,000		1		(1998)	
C. For Internal Medicine System									
1.	Biofeedback Analyzer	1 set	5,000,000	5,000,000	1			(1998)	
2.	Pulmonary Function Analyzer	1 set	7,500,000	7,500,000	1			(1998)	
3.	Thoracoscope	1 set	6,000,000	6,000,000		1		(1998)	
4.	Platelet Aggregation Analyzer	1 set	2,000,000	2,000,000	1			(1998)	
5.	Blood Cell Separator	1 set	6,500,000	6,500,000	1			(1998)	
6.	Binocular Microscope	6 sets	500,000	3,000,000	4	2		(1998)	
7.	Universal Microscope	1 set	3,000,000	3,000,000		1		(1998)	
8.	UV Transilluminator w/Photo- graphy Unit	1 set	1,000,000	1,000,000		1		(1998)	
TOTAL AMOUNT:			39 sets						JPY116,000,000

APPENDIX 5.

EQUIPMENT LIST(1999)

CHINA MEDICAL UNIVERSITY

NOV. 2, 1994

Item No.	Description	Q'ty	Estimated Cost(JPY)		Distribution			Implementation Time(Year)	Remarks
			Unit	Total	CMU	HCJMEC	IH		
III. SPECIALIZED TEACHING EQUIPMENT FOR RELATIVE DEPARTMENTS									
A. For Central Examination									
1.	Microscope with Video/Image Computed Apparatus	1 set	12,000,000	12,000,000	1			(1999)	
2.	Mobile X-Ray Unit	1 set	2,000,000	2,000,000	1			(1999)	
3.	Blood Cell Counter	1 set	1,000,000	1,000,000	1			(1999)	
B. For Surgical Systems									
1.	Neurosurgical Apparatus	1 set	4,000,000	4,000,000	1			(1999)	
2.	Neurophysiological Recorder	1 set	3,000,000	3,000,000		1		(1999)	
3.	Physiological Monitor with CO ₂	1 set	3,500,000	3,500,000		1		(1999)	
4.	Dilation Catheters	1 lot	1,000,000	1,000,000		1		(1999)	
5.	Centrifugal Pump	1 set	5,000,000	5,000,000		1		(1999)	
6.	Thoracoscope with Surgical Apparatus	1 set	4,500,000	4,500,000	1			(1999)	
7.	Ventilator	2 sets	3,000,000	6,000,000	1	1		(1999)	
8.	Inverted Microscope	1 set	1,000,000	1,000,000		1		(1999)	
C. For Internal Medicine System									
1.	Electrophoresis Densitometer	1 set	3,000,000	3,000,000	1			(1999)	
2.	Blood Glucose Analyzer	1 set	3,200,000	3,200,000		1		(1999)	
3.	Ultra Low Temperature Freezer	1 set	1,000,000	1,000,000		1		(1999)	
G. For Ophthalmology									
1.	Automatic Perimeter	1 set	4,500,000	4,500,000	1			(1999)	
2.	Split Microscope	2 sets	1,250,000	2,500,000	1	1		(1999)	
3.	Ventory Aspirator System	1 set	8,000,000	8,000,000	1			(1999)	
4.	Visual Evoked Potential Unit	1 set	5,000,000	5,000,000	1			(1999)	
5.	Ophthalmological Laser Unit	1 set	10,000,000	10,000,000	1			(1999)	
6.	Ophthalmometer	1 set	600,000	600,000	1			(1999)	
7.	Keratometer	1 set	2,500,000	2,500,000	1			(1999)	
H. For Stomatology									
1.	Dental Treating Unit	3 sets	2,000,000	6,000,000	2	1		(1999)	
2.	Dental Technique Table	4 sets	2,000,000	8,000,000	2	2		(1999)	
3.	Vacuum Porcelain Furnace	1 set	6,000,000	6,000,000		1		(1999)	
4.	Surgical Apparatus	1 set	4,000,000	4,000,000		1		(1999)	
5.	Operating Microscope	1 set	2,000,000	2,000,000		1		(1999)	
I. For Dermatology									
1.	Laser Therapy Unit	1 set	3,000,000	3,000,000	1			(1999)	
2.	Vibratome	1 set	1,800,000	1,800,000		1		(1999)	
3.	Sharking Bath, Thermostat	1 set	400,000	400,000		1		(1999)	
TOTAL AMOUNT:		36 sets		JPY114,500,000					

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