ระบาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรกบาก ชายาทยทรากบาก ชายาทยทรากบากบาก ชายาทยทรากบาก ชายาทยทาง ชายาทยทาง

REFERENCES

- Abel-Smith, B. 1990. Health insurance in developing countries: The social security approach. <u>International Labour Office, Geneva</u>, 7(3): 215-236.
- Anderson, G. J. 1973. Demographic factors affecting health services utilization. Medical Care, 6(2): 104-120.
- Bautz, J. B. 1992. MRI diffusion of technology in an ambulatory setting.

 International Journal of Technology Assessment in Health
 Care, 8(2): 301-308.
- Bell, R. A. 1996. <u>Economics of MRI technology</u>. <u>Journal of Magnetic</u> Resonance Imaging, 6(1): 10-25.
- Carlo, F., and Aldo, M. 1996. Trends in the Utilization of cardiac catherization Procedures in Italy, 1983 <u>International Journal of Technology Assessment in Health Care</u>, 12(3): 518-523.
- David, B. 1997. The case of PTCA. <u>International Journal of Technology</u>
 <u>Assessment in Health Care</u>, (2): 294-495.
- David, B., and Perry, S. 1997. Lessons from The CT Scanner.

 <u>International Journal of Technology Assessment in Health</u>

 <u>Care</u>, 13(3): 432-434.
- David, F.; Gardon, G.; and Peter, T. 1972. <u>Health Care technology:</u> Effectiveness, Efficiency and Public Policy.
- Drummond, M. 1987. Economic appraisal of health technology in the European community.
- Durand-Zaleski, I.; Reizine, D.; Puzin, D.; Merland, JJ.; and Blum-Boisgard, C. 1993. Economics assessment of MRI for patients: is it still too early? <u>International Journal of Technology Assessment in Health Care</u>, 9(2): 263-273.
- Evens, R.G., and Jost, R.G. 1985. Economics and utilization analysis of magnetic resonance imaging units in the United States in 1985. <u>America Journal of Roentgenology</u>, 145(2): 393-398.
- Hailey, D., and McDonald, I. 1996. The assessment of diagnostic imaging technologies: a policy perspective. Health policy, 36: 185-197.
- Hailey, D. M., and Crowe, B. L. 1993. The influence of health technology assessment on the diffusion of MRI in Australia.

 International Journal of Technology Assessment in Health Care, 9(4): 522-529.

- Hillman, A. L., and Schwartz, J. S. 1985. The adoption and diffusion of CT and MRI in the United States. A comparative analysis.

 Medical care 23: 1283-1294.
- Hillman, B. J. 1984. Adoption and diffusion of a new imaging technology: MRI perspective. <u>America Journal of Roentgenology</u>, 143: 913-917.
- Hulka, S. B., and Wheat R. J. 1985. Pattern of Utilization, The patient Perspective. Medical Care, 23(5): 438-459.
- Hindrik, V., and Banta, H. D. 1995. <u>Cost-effectiveness of lasers in medicine</u>: diabetic retinopathy study, the Netherlands.
- Hisashige, A. 1994. The introduction and evaluation of MRI in Japan.

 <u>International Journal of Technology Assessment in Health</u>

 Care, 10(3): 392-405.
- Ikegami, N., and Ikeda, S. 1997. Decreasing Prices and increasing costs in Japan. <u>International Journal of Technology Assessment in Health Care</u>, 13(1): 98-110.
- Kent, D. L., and Larson, E. B. 1992. Disease, level of impact, and quality of research methods. Three dimensions of clinical efficacy assessment applied to MRI. <u>Investment of Radiology</u>, 27: 245-254.
- Kimberly, J. R. 1988. Medical technology meets DRG's: acquiring MRI under prospective payment. <u>Leonard David Institute of Health Economics</u>, <u>University of Pensylvania</u>.
- Lazaro, P., and Fitch, K. 1995. Big ticket technologies in OECD countries. <u>International Journal of Technology Assessment in Health Care</u> 11(3): 552-570.
- Lazaro, P., and Fitch, K. 1996. Economic incentives for ESWL and Linac. <u>International Journal of Technology Assessment in</u> Health Care 12(4): 735-744.
- Luce, B., and Brown, R. 1995. TA by hospitals, HMOs and third party payers <u>International Journal of Technology Assessment in Health Care</u> 11(4): 79-92.
- Mushlin, A. 1997. Cost effectiveness of MRI for patients with Equivocal Neurological Symptoms. <u>International Journal of Technology Assessment in Health Care</u>, 13: 21-34.
- Powe, S. 1996. Awareness of new medical technology use. <u>International Journal of Technology Assessment in Health Care</u>, 12(3): 367-376.
- Rosenblaft, N. 1995. Obstetrical ultrasound in the United Stases and Britain. <u>International Journal of Technology Assessment in Health Care</u>, 11(3): 571-584.

- Seymour, P. 1996. Heart Surgery and interventional Cardiology.

 <u>International Journal of Technology Assessment in Health</u>

 <u>Care 12(4): 759-762.</u>
- Seymour, P. 1995. Helical CT and Dedicated MRI Extremity Scanners.

 <u>International Journal of Technology Assessment in Health</u>

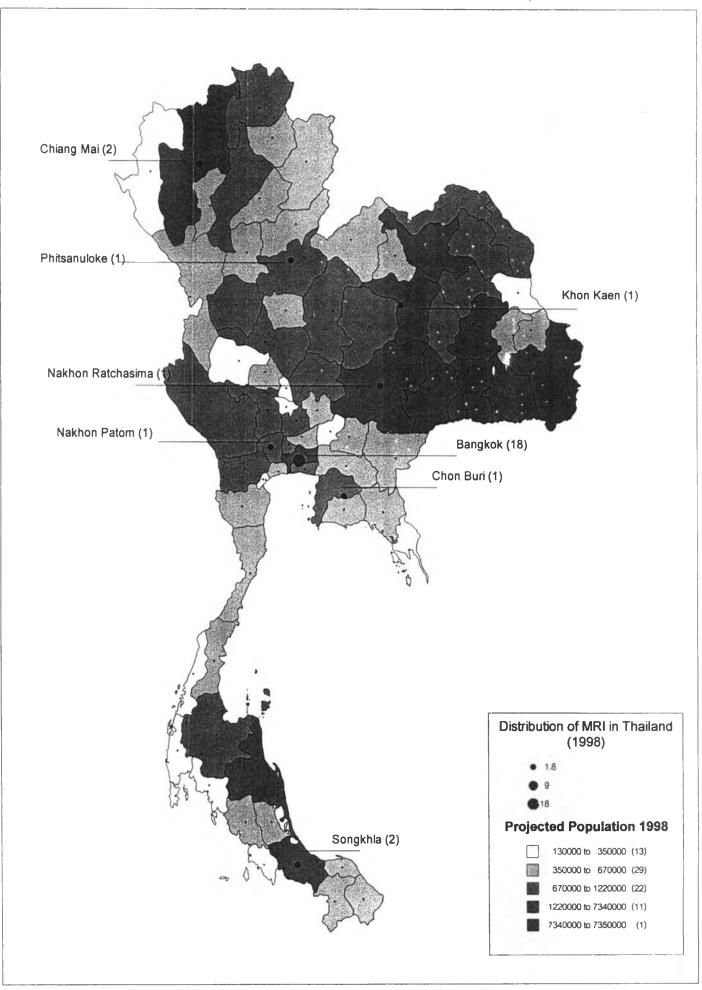
 <u>Care 11(3): 626-628.</u>
- Siriwanarangsun, P. 1996. The response of the private sector to competitive contracting: A case study of a private health provider network in Thailand. Ph.D thesis, London School of Hygiene and Tropical Medicine.
- Sorby, W. 1989. An evaluation of magnetic resonance imaging at the Royal North Shore Hospital of Sydney. Medicine Journal of Australia, 151: 8-17.
- Supachutikul, A. 1995. <u>Situation analysis on Health Insurance and future development</u>. Chulalongkorn University, Bangkok.
- Supachutikul, A. 1996. Health Care Technology Management. <u>Journal of Health Systems Research Institute</u>, 4:2.
- Tangcharoensathien, V. 1995. Distribution of Medical equipment in Thailand. Health System Research Monograph Series, 4
- Tugwell, P. 1995. Old, new and needs based technology assessment.

 <u>International Journal of Technology Assessment in Health</u>

 <u>Care</u> 11(4): 650-662.
- Wangsupachart, S. 1995. <u>Impact of cranial CT scan on the management of patients presenting with head injury</u>.
- Wangsupachart, S. 1996. Medical imaging in Thailand: situation, problem and solution. <u>Journal of Health Systems Research Institute</u>, 4:2.
- Weingart, M. C. 1995. The case of biliary lithotripsy. <u>International Journal of Technology Assessment in Health Care</u>, 11(2): 301-315.

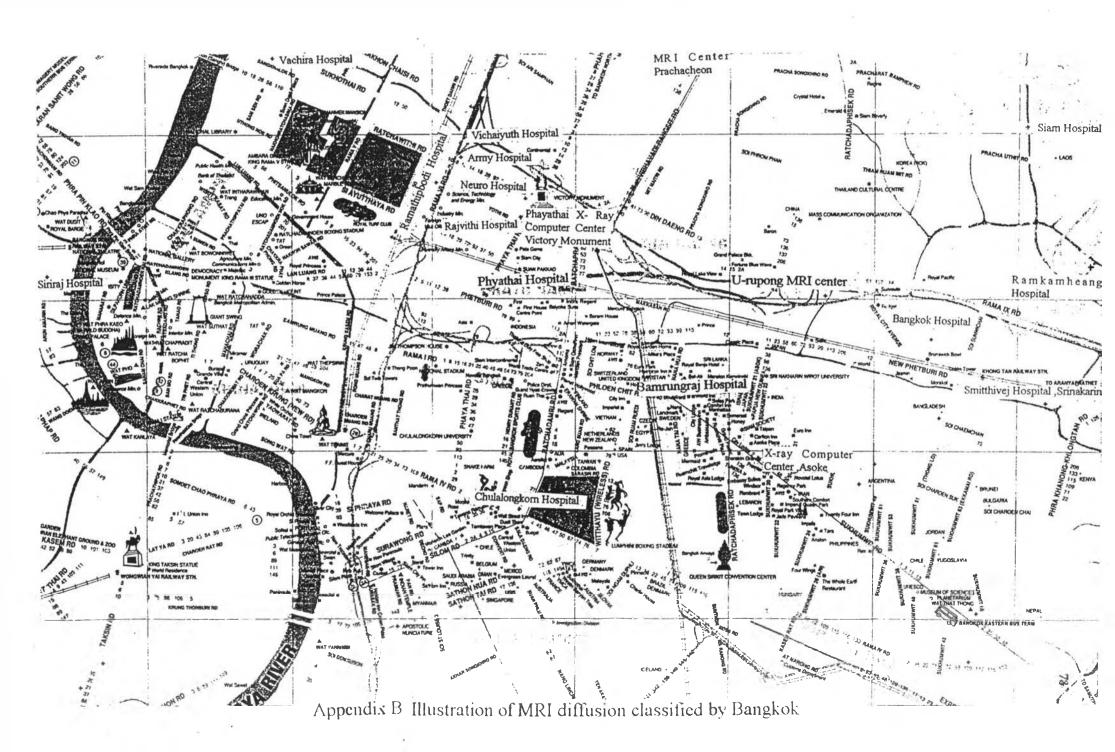
APPENDIX A

Distribution of MRI in Thailand



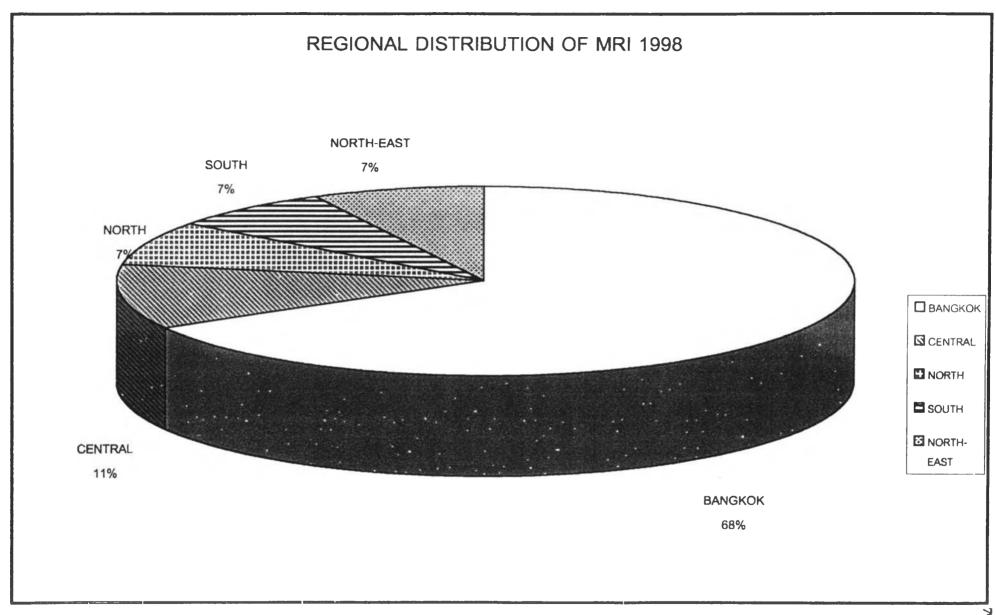
APPENDIX B

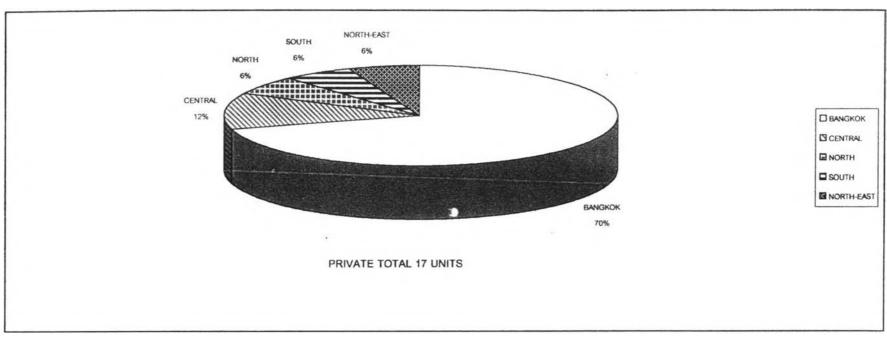
Illustration of MRI diffusion in Bangkok

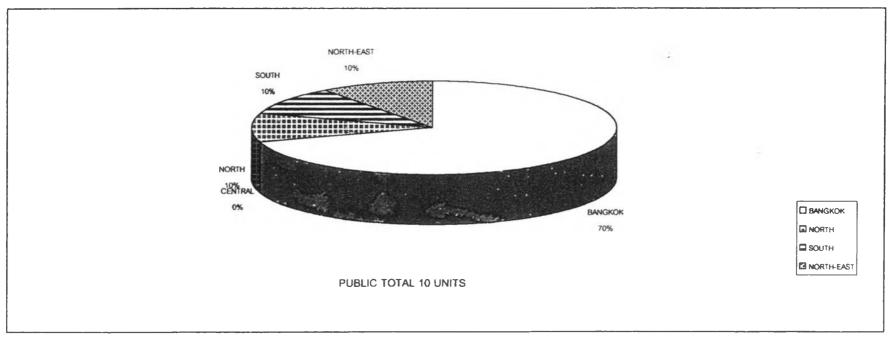


APPENDIX C

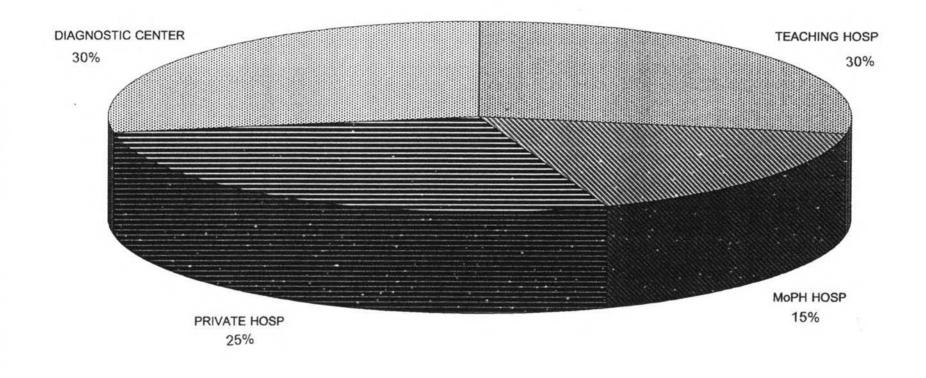
Illustration of MRI application in Thailand

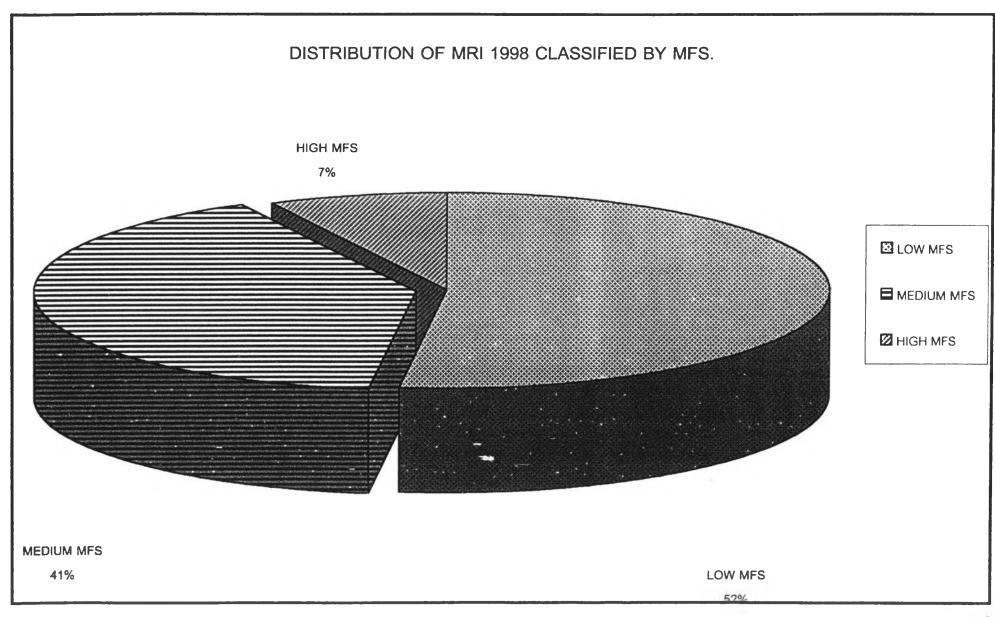






MRI DISTRIBUTION CLASSIFIED BY OWNERSHIP THAILAND

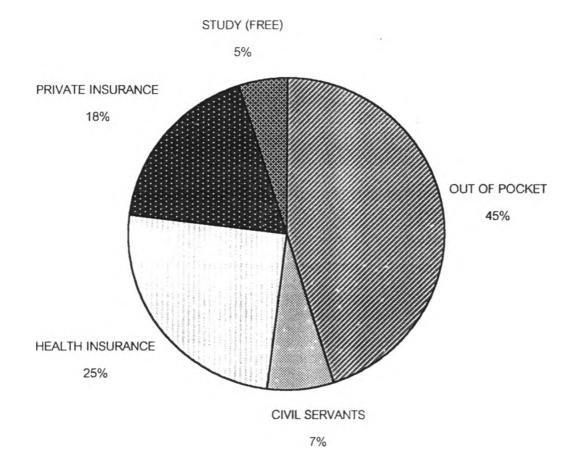




APPENDIX D

Illustration of characteristics of MRI's patient

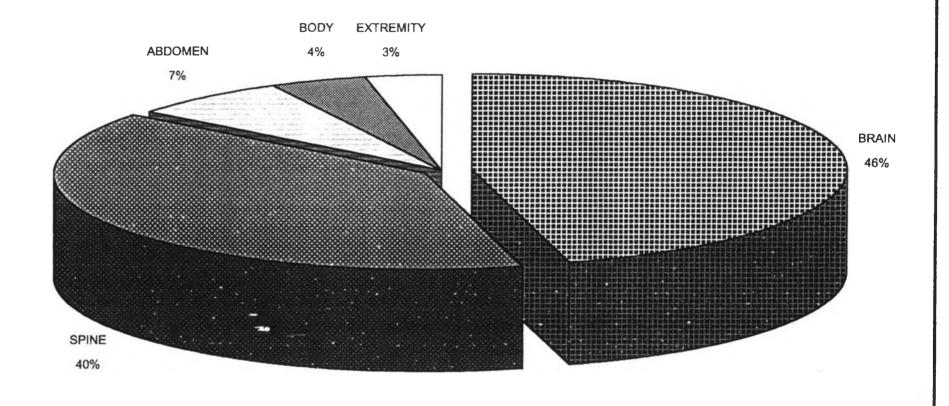
PATIENT PAYMENT STATUS FOR MRI SERVICE 1997 IN CHULALONGKORNHOSPITAL



APPENDIX E

Questionnaires

1997 ANNUAL OUTPUT BY TYPE OF PROCEDURE



Position		Tel (
Year	r first operated	
Baht		
ngth		
Superconductive	Permanent magnetic	
Resistive magnetic		
imeper	son Part time	person
imeper	son Part time	person
		hour
	· · · · · · · · · · · · · · · · · · ·	
No. of scryice		
1		
	Baht Spine	Baht
	bedBaht Superconductive Resistive magnetic imeper	bed

Patient Prospective Data Collection		
Name	Position Tel ()	
Date		
No	Hospital Number [] OPD IPD	
	Age Yr. Sex [] Male [] Female	
Occupation		
Monthly incomes		
Provincial Bangle	of: Others	
Method of payment Out of pocket Private Insura	CSMBS Health Card	
Social welfare	for low income	
Part to be examined	☐ Head ☐ Spine ☐ Musculoskeletal ☐ Pelvis ☐ Abdomen ☐ Extremity	
Ordered By	☐ Doctor inside this Hospital / center ☐ Referred from others	
Doctor specialty	☐ General ☐ Neurology ☐ Fadiology	
Pre-investigation Diag	nosis	
Examination Results	 □ Normal □ AbnormalSame as pre-investigation diagnosis □ AbnormalDifferent from pre-investigation diagnosis 	
	AbnormalNon specific	
Charge	Baht	

CURRICULUM VITAE

Name : Mana Vatakul

Date of birth : Sept. 28, 1970

Nationality : Thailand

Religion : Buddhism

Education Qualification: Biomedical Technology (Radiology)

Place of obtained : Faculty of Siriraj Medicine,

Mahidol University, Bangkok, Thailand

Employment record - Medical Assistant in Operating Room

Aneasthesiology Dept., Siriraj Hospital

Bangkok- noi, Bangkok, Thailand

- GE Hospitech Medical Systems

Medical Imaging Product

Diethelm Tower B. Wireless Rd., Pathumwan, Bangkok, Thailand

- Co- Researcher (TA Project) HSRI, Ministry of Public Health.

Bangkok, Thailand

Email: http://members.tripod.com/

~hanpiya/MRI/research team

