

CHAPTER 7

BONE AND TISSUE TRANSPLANTATION

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7.0 INTRODUCTION

This chapter presents data provided by National Tissue Bank, Universiti Sains Malaysia (USM). Bone and tissues procured by National Tissue Bank were distributed to various government and private hospitals throughout the country. However, bone allografts procured by Bone Bank HKL were used within HKL. Bone Bank University Malaya Medical Centre (UMMC) was non operational in 2005 due to storage unavailability.

Even though bone and tissue allograft transplantation are widely performed, data on recipients is still lacking. Thus, the information available could not allow us to estimate the magnitude of bone and tissue transplant activity in the country in 2005. Aggressive effort has to be made to ensure that all cases of bone and tissue allograft transplantation are reported.

7.1 STOCK OF BONE AND AMNIOTIC MEMBRANE ALLOGRAFTS

Table 7.1: The types of tissue/bone allografts supplied by National Tissue Bank, USM in 2005

	Tissue/Bone Bank
Types of Tissue/Bone Allograft	National Tissue Bank, USM
	No. (pieces)
DF Knee slices	0
DF Femur	7
DF Femoral head	88
DF Humerus	3
DF Tibia	6
DF Radius	2
DF Ulna	3
DF Patella	1
FD Cancellous	19
FD Cortical	0
FD Cortico-cancellous	2
Amniotic membranes	64
TOTAL	195

DF – Deep-frozen

FD – Freeze-dried

7.2 HOSPITALS WHERE BONE AND TISSUES ARE UTILISED

Table 7.2: The names of hospitals/other sectors using bone allografts in 2005

	Tissue/Bone Bank
	National Tissue Bank, USM
	No. (pieces)
MOH	
Hospital Raja Perempuan Zainab II, Kota Bharu	2
Hospital Sultanah Aminah, Johor Bahru	19
Hospital Tengku Ampuan Afzan, Kuantan	1
Hospital Tengku Ampuan Rahimah, Klang	5
Hospital Alor Setar	10
Hospital Umum Sarawak	13
Hospital Ipoh	4
Hospital Pulau Pinang	1
Hospital Seremban	2
Hospital Seberang Jaya	2
TOTAL	59
University	
HUKM	2
HUSM	23
UMMC	3
TOTAL	28
Private and other sectors	
Hospital Fatimah Ipoh	12
Hospital Tung Shin	2
Mahkota Specialist Centre	2
Sentosa Medical Centre	1
Stryker	4
Syarikat Kemajuan Abadi	10
Teo Orthopaedic Clinic, Kuala Lumpur	10
Zimmer	3
TOTAL	44

Table 7.3: The names of hospitals/other sectors using amniotic membranes in 2005

	Tissue/Bone Bank
	National Tissue Bank, USM
	No. (pieces)
MOH	
Hospital Kuala Lumpur	15
Hospital Umum Sarawak	10
Hospital Melaka	5
Hospital Tengku Ampuan Rahimah, Klang	5
Hospital Sultanah Aminah, Johor Bahru	0
Hospital Tengku Ampuan Afzan, Kuantan	6
Hospital Raja Perempuan Zainab II, Kota Bharu	5
Hospital Kuala Terengganu	1
TOTAL	47
University	
HUSM	1
UMMC	0
HUKM	0
TOTAL	1
Private	
Gleneagles Medical Centre, Penang	4
Klinik Iman, Seremban	1
Hospital Mata Tun Hussein Onn	4
Puteri Specialist Hospital, Johor Bharu	5
Sri Kota Medical Centre	2
TOTAL	16

*Only National Tissue Bank, USM supplied the amniotic membranes