

## Medical Equipment List of Tung Wah Group of Hospitals (2009/2010)

### **Tung Wah Hospital**

No.	Name of Medical Equipment	Function	No. of Beneficiaries	Quantity	Unit Cost (HK\$)
A1	Faxitron Digital Radiography System	A direct digital, cabinet X-Ray imaging system with the high standard image quality, is ideal for small specimens. An x-ray film imaging system is used on biological specimens from breast tissues for rapid diagnosis on benign to malignant breast tumours.  Images can be obtained rapidly, which is useful for diagnosis for both excised specimens and large core needle biopsy for confirmation on breast cancer.	300/year	1	862,000
A2	Computer Aided Detection for Digital Mammography	This machine is fit for the existing Mammography system, with the robust, sophisticated tool which can have early detection on cancer with unprecedented accuracy. Moreover, it can integrate with the newly installed digital mammography system and generate CAD marks to automatic detection of the masses and micro-calcifications which will have a high probability of being cancer. This can benefit patients for early prevention & early treatment.	300/year	1	590,000
A3	NeoControl Treatment System	The system produces pulsed magnetic fields which penetrate the perineum stimulating both pelvic floor muscles and sphincter nerves.	6,000/year	1	250,000
A4	Non-invasive Vascular Analysis Device	The System is to analyze the simultaneous blood pressure and waveform measurement in order to detect the arterial disease in early stage. It also provides data for the physician for screening and FU cases.	10,000/year	1	180,000
A5	Myomo e100 NeuroRobotic Therapy System	The NeuroRobotic System, with a robotic arm brace, works from the premise that continued repetitive motion activities during rehabilitation can help patients regain the use of the hemiplegic upper limb. The repetitive motion may stimulate other brain cells to develop and take over the functions of the damaged cells suffered for stroke.	700/year	1	98,000
A6	Uretero-Reno Fiberscope	An advance model of endoscope for direct view/examination on upper ureter.  Endoscope with optic fiber is capable of producing high resolution images, which significantly improves on efficiency and accuracy in diagnostic, and therapeutic procedures on upper urinary tract. It is an essential endoscope to confirm diagnosis and remove the stones on upper ureter.	300/year	1	92,474
A7	Laparoscopic Equipment for Mastectomy	Set of laparoscopic equipments for minimal invasive breast surgery to excise on breast carcinoma with small incision. It also benefits patients who would have flap reconstruction after mastectomy with less traumatic and shorter length of stay after surgery.	200/year	1	70,300

A8	Bladder Scan	To provide a clear picture via the ultrasonic instrument for non-invasive measurement of urine volume in bladder and to promote voiding function.	500/ year	1	70,000
A9	Hausted Video-Imaging Chair	Operational Benefits:  1. Features a specially designed radiolucent backrest which accommodates the space confinements of large imaging equipment while providing maximum patient comfort and safety.  2. The hydraulic positioning & adjustment system features hands free foot pedals located at both sides of the chair base for controlling height adjustment (from 90 degree upright to full supine).  3. A back control lever, located on the back of the chair, operates recline and 10 degree trendelenburg positioning.	600/ year	1	65,525
A10	Bladder Volume Measurement System	An Ultra sound system to detect the residual urine in the urinary bladder.	6,000/ year	1	60,000
A11	Wilmington Robotic Exoskeleton	The equipment is an assistive device, which can be attached to most common wheelchairs and mobility seating systems for enhancing movement of the upper extremities of people with neuromuscular disabilities in activities of daily living.	800/ year	1	55,500
A12	BiPAP Ventilator	To provide respiratory support through adjustment of exhalation and inhalation pressure delivery to patient.	500/ year	1	55,000
A13	Patient Monitor with ECG, Sa O2, NIBP	To provide continuous monitoring of vital signs (including blood pressure, ECG and oxygen saturation) in order to reflect the changing condition of patient.	500/ year	2	45,000
A14	Flowmeter System	The machine is to measure the urine flow rates of patients with voiding problems.	6,000/ year	1	28,000
A15	Doppler	A portable ultrasound device to check blood flow direction especially peripheral vascular.	10,000 / year	1	18,000
A16	Vital Sign Monitor	This equipment can check patients' blood pressure and Oximeter.	10,000 / year	1	12,500
A17	ABI Assessment system	It is to calculate the systolic blood pressure of ankle to branchial.	10,000 / year	1	12,000

## Tung Wah Eastern Hospital

No.	Name of Medical Equipment	Function	No. of Beneficiaries	Quantity	Unit Cost (HK\$)
B18	Medical Diagnostic Image Viewing Workstation with Dual Monitors	Used by radiologist in viewing medical images of different digital imaging modalities, including plain X-ray, US, Fluoroscopy, CT & MRI.	1,000/year	1	170,300
B19	Ventilator	Mechanical ventilation is a method to mechanically assist or replace spontaneous breathing. Mechanical ventilation is often a life-saving intervention; it is typically used after an invasive intubation, a procedure wherein an endotracheal or tracheostomy tube is inserted into the airway. It is used for a short period of time during a serious illness.	Many patients	1	122,000
B20	Urodynamic System (System upgrade for UD2000 Urodynamic System)	To study bladder function for patients with continence problems so that appropriate treatment plan can be provided.	Many patients	1	84,000
B21	Bladder Scanner	The bladder scanner is used for the diagnosis and assessment of incontinent patients. We could provide appropriate nursing care according to the types of incontinence. It is also used for monitoring the residual urine after off Foley's catheter.	Many patients	1	70,000
B22	Treadmill	It is for walking and cardio-pulmonary training.	Many patients	2	55,000
B23	Flusher Disinfector Machine	Specifically designed for cleaning and disinfection of bedpans and urinals in hospitals.	Many patients	2	50,000
B24	Traction Machine	Traction therapy is one kind of treatment modalities, providing mechanical force to relieve symptoms of patients with back and neck pain. There is a therapeutic effect of relief in pain and numbness caused by compression of nerve roots of spine.	20/day	2	35,000
B25	Automated External Defibrillator	An automated external defibrillator (AED) is a portable electronic device that automatically diagnoses the potentially life threatening cardiac arrhythmias of ventricular fibrillation and ventricular tachycardia of a patient. It helps patients to reestablish an effective heart rhythm through defibrillation and the application of electrical therapy which stops the arrhythmia. AEDs are simple to use for the layman and the use of AEDs is taught in many first aid classes.	For first aid	1	32,000
B26	Manipulation Couch	Plinth for physiotherapists to provide assessment and treatment with manual therapy to patients with spinal and peripheral joints disorders.	20/day	2	25,000
B27	Indirect Ophthalmoscope	An instrument composes of light source and a viewing lens for examination of the retina.	25,000/year	2	16,000

## Kwong Wah Hospital

No.	Name of Medical Equipment	Function	No. of Beneficiaries	Quantity	Unit Cost (HK\$)
C28	Ultrasound Imaging Machine brand/model: Logiq P5 Premium Ultrasound Console with B/W Video Printer, Completed with One Set of Probes	Ultrasound imaging machine can be utilized as an objective evaluative tool as well as a biofeedback equipment. It can be used in physiotherapy treating incontinence. It has been well demonstrated that patients suffering from urinary incontinence can be treated with exercise of pelvic floor muscles. However, learning how to perform the pelvic floor contraction is a rather difficult task for most patients as the pelvic floor muscles are deeply seated and were hardly to be palpated. Using the ultrasound imaging, the pelvic floor contraction and its function can be measured accurately. The ultrasound machine can also be acted as a biofeedback equipment for the patients to observe their pelvic floor muscle contraction. Ultrasound imaging can also be applied to rehabilitation of patients suffering from low back pain. Employing this imaging technique, patients will learn how to exercise the deep abdominal muscles correctly to attain a therapeutic effect.	2,800 / Year  (including 400 patients with urological and colorectal dysfunctions, and 2,400 patients with low back pain)	1	500,000
C29	Retinal Camera and Accessories for Image Capture & Storage	To capture the image of retina without the need of mydriatic.	2,300 / year	1	456,300
C30	Dental Unit & Ass.	The dental unit is an essential component of a dental clinic. It provides a platform from which a dentist can perform dental procedures with all the necessary instruments close at hand. Dental chairs are usually hydraulically operated so that they can be raised, lowered and adjusted to a horizontal position. Incorporated into the chair are high and low speed dental drills, air and water syringes, lighting equipment, suction and filtered water drainage systems. Dental support are offered to in-patients referred to us so that they can receive a more rounded treatment in the hospital. Patients with special dental needs are also covered, such as those with heart disease undergoing anticoagulation treatment, or emergency treatment to those suffering from dental trauma and oral pathology.	2,800 / year	1	400,000
C31	Arthroscopy Instruments and Camera Head with Coupler	For arthroscopic instrumentation and surgery especially around the knee and the shoulder.	150-250/ year	1	306,776
C32	Olympus OER-AW Two Endoscopes Reprocessor	Cleaning endoscopes with ultrasonic technology and high pressure cleaning technology.	150/ year	1	271,756
C33	Urodynamic Investigation System with accessories	Urodynamic investigation for female patients.	200/ year	1	167,000

C34	Non-invasive Cardiac Support Pump	The non-invasive cardiac support pump generates unique and consistent chest compression, leading to the promise of normal blood flow to the heart and brain. This may result in return of spontaneous circulation and neurologically intact survival. It provides potential normal blood flow during resuscitation. It also functions as an 'additional person' and prevents clinicians and nursing staff from getting injured during duty.	600 / year	1	158,000
C35	Blood Analyser	The machine can provide rapid blood analysis results to facilitate decision-making for critical treatment, and monitor management effects and progress.	Serve around 600 patients per year, 2-4 times investigations per day for each patient.	1	135,000
C36	Tonometer	The equipment can provide IOP measurement.	1,060 /year	1	56,000
C37	Wound Imaging, Measurment & Documentation Device.	This device utilizes infrared beam to help podiatrist measuring the wound size/depth accurately. Its software can capture wound progress and provide quantitative measures on our daily practice of wound management and treatment to patients who suffer from foot and ankle ulceratoin.	1,500/ year	1	55,000

### **TWGHs Wong Tai Sin Hospital**

No.	Name of Medical Equipment	Function	No. of Beneficiaries	Quantity	Unit Cost (HK\$)
D38	Oesophagogastrroduodenoscopy	The new OGD will generate a clearer image in examination of upper gastrointestinal tract. It is also slimmer, which helps reduce the discomfort during the procedure.	50/ year	1	213,883
D39	Movement Therapy in Bed	The equipment can assist bedbound patients to do exercise when lying in bed.	2,000/ year	2	58,000

## TWGHs Fung Yiu King Hospital

No.	Name of Medical Equipment	Function	No. of Beneficiaries	Quantity	Unit Cost (HK\$)
E40	Biodex 950-381 Gait Trainer 2, 230VAC	The equipment provides real-time audio and visual biofeedback which prompts patients into a proper gait pattern. It offers a speed range of 0 to 10 mph which always starts at 0 mph with 0.1 mph speed increments. It also prepares normative data for comparison to healthy populations and objective documentation with track progress and document outcomes.	600/year	1	101,100
E41	Biodex 950-302 Balance System SD230VAC	The equipment provides real-time visual biofeedback which prompts patients into proper postural and balance control. It offers versatility with six training modes and four protocols. Test results are compared to the healthy populations with same age and gender.	600/year	1	100,100
E42	Bladder Scan BVI-3000 & Rolling Cart	It provides non-invasive and accurate measurement to patients with retention of urine. It provides post-void volume of urine without catheterization procedure to minimize the risk of urinary tract infection.	250/year	1	70,000
E43	THERA-VITAL BasicEquipment	The equipment provides different modes to match with the patient needs, including Neuro, Ortho and Cardio modes and offers symmetric training with bar/road biofeedback (by means of a colour display screen to show the instant training result).	4,000/year	1	61,000
E44	Electrocardiograph	The equipment can efficiently review 12 Lead ECG simultaneously, which can also prevent misreporting. It can record up to 40 ECG data single in memory and transfer ECG data to a computer, SD card, USB LAN or wireless LAN Card.	1,000/year	1	33,000
E45	CHA5840 Triton Traction Table	The equipment provides great flexibility to match with the patient needs. For instance, it has 4 sections of adjustable height traction tables, adjustable head section from 25° to 90°, adjustable height from 52 to 104 cm and pivoting traction mount for angular pulls.	400/year	1	31,000
E46	Oxygen Concentrator	The equipment provides oxygen therapy for those patient who shortness of breath and the oxygen flow can be up to 10 liters per minutes.	1,600/year	8	26,800
E47	Plum A+ General Infusion Pump	The equipment allows a wide range of administration methods and precise delivery of a wide array of fluids.	720/year	2	26,000