

List of Medical Equipment Required by Tung Wah Group of Hospitals (2010/2011)

Tung Wah Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
A1	High Definition-Colono-Videoscope	To enhance the efficiency and accuracy of diagnosis directly for examination of colon and sigmoid diseases as equipped with high definition CCD.	700/year	1	295,463
A2	Choledochoscope	To examine patients' common bile duct and gall bladder system directly.	100/year	1	156,566
A3	Flexible Cystovideoscope	To investigate bladder and urethra of patients and be capable of producing high quality magnified images which directly enhance the efficiency and accuracy of disease diagnosis as equipped with high resolution of CCD.	More than 1,000/year	1	153,162
A4	Haemodialysis-Machine	To support life of end stage renal disease patients by removing uremic toxins and excessive fluid, and correcting serum electrolyte disorder. Every patient normally receives 2 to 3 treatments a week and each treatment lasts for 5 to 6 hours.	More than 1,000/year	2	130,000
A5	Ventilator	To provide continuous respiratory support to critically ill and motor neuron disease patients.	For whole year	2	130,000
A6	Nerve Monitor	To give an audible interpretation of muscle activity which is sensed by needle electrodes placed into the relevant muscle groups and to monitor facial nerve and recurrent laryngeal nerve for safe surgery for mastoid, parotid and thyroid diseases.	100/year	1	105,000
A7	Manipulating System for Facial and Mandibular Fracture and Reconstruction	To reduce operative time and to enhance the accuracy of the fixation of fracture by allowing better exposure and manipulation of complex facial fracture, which can be corrected with operative fixation, leading to early recovery of patients and better functional outcomes.	20/year	1	96,000
A8	Electro-surgical-Unit/Diathermy	To cut and coagulate surgical incision wounds during operations.	1,500/year	1	82,800
A9	Bladder Volume Measurement System	To detect residual urine in urinary bladder of patients suffering from urinary retention, incontinence and obstruction of lower urinary tract, to provide a clear picture for non-invasive measurement of urine volume in bladder and to promote voiding function.	7,300/year	4	80,000
A10	Patient Monitor with ECG, Sa O ₂ , NIBP	To provide continuous monitoring of vital signs, including blood pressure, ECG, oxygen saturation and CO ₂ sensor, and to reflect the changing physical condition of patients.	500/year	3	56,000
A11	BiPAP Ventilator	To provide respiratory support through adjustment of exhalation and inhalation pressure delivery to patients.	200/year	2	50,000
A12	Capnometer and Oximeter	To provide waveform trend continuous monitoring in both normal and critical-care environment and to detect breathing irregularities that can be used alone or integrated with Polysomnography.	100/year	1	49,000
A13	Physiological Monitor (portable)	To monitor respiration rate, blood pressure, oxygen saturation level and ECG pattern of unstable to critically ill patients.	800/year	4	40,000

Tung Wah Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
A14	CO2 Laser Nasal Probe Starter Kit	Suitable for Tubinate Hyperplasia, Septal Spur Surgery, Polyps and Cysts, Synechia, Choanal Atresia, Laryngeal Stenosis and Papillomas, and even for surgeries for small children and infants.	50/year	1	32,000
A15	Flowmeter System	To measure the urine flow rates of patients with voiding problems.	6,000/year	1	32,000
A16	Air Warming System	To keep patients' body temperature within normal range for the sake of comfortableness.	400/year	2	15,000
A17	Pulse Oximeter	To monitor the oxygen saturation and the pulse rate of patients.	500/year	2	11,000

Tung Wah Eastern Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
B18	Analyzer, Coagulation	To test urgent blood coagulation time (PT and APTT).	5,000/year	1	250,000
B19	Centrifuge	To separate serum from blood cells by means of centrifugation of blood specimens for laboratory testing.	5,000/year	1	76,476
B20	Treadmill	To provide walking and cardio-pulmonary training for patients.	2,000/year	1	70,000
B21	Bladder Scan	To diagnose and assess incontinent patients, to provide appropriate nursing care according to the type of incontinence and to monitor the residual urine of patients after removing the Foley's catheter.	730/year	1	70,000
B22	Freezer with Ultra-low Temperature	To store up laboratory specimens, fresh frozen plasma (FFP) for transfusion purpose and samples of EYE OT.	20,000/year	1	68,655
B23	Electrocardiographer	To perform electrocardiogram examination.	14,000/year	1	50,000
B24	Patient Lifter, Maxi-Move, ARJO with Weight Scale with Sling	To lift up and carry patients.	2,900/year	1	49,800
B25	Defibrillator	To diagnose the potentially life threatening cardiac arrhythmias, ventricular fibrillation or ventricular tachycardia in patients.	500/year	1	40,000
B26	Emergency Trolley	To carry and transport medical items.	100/year	1	40,000
B27	Bath Trolley	To be used for bathing of patients in wards.	3,000/year	2	37,000
B28	MMS Uroflowmeter with Flowstand and Accessories	To measure uroflow for diagnostic purpose and to guide treatment.	250/year	1	31,000

Kwong Wah Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
C29	BMC Pain-Management RF-Generator	To provide treatment of pain by radiofrequency.	100/year	1	435,000
C30	Intra-Operative Neurophysiological Monitoring System	To monitor patients' nervous system, sensory, motor and auditory function in order to prevent post-operative deficit and to avoid any injury during surgery, and to help surgeons find out tumors, which affect patients' function, by monitoring their nervous responses.	95/year	1	394,825
C31	Blood Gas Analysis	To prepare fetal blood and cord blood astrap analysis.	500/year	1	225,000
C32	Ventilator and Accessories	To provide ventilatory support for patients in acute respiratory distress.	30 - 40/year	1	212,910
C33	Body Composition Monitoring of Renal Patient with Dialysis Treatment	To provide objective data for physicians to determine renal patients' fluid status, including overhydration and total body water, to decide the optimal dry weight and target of fluid management of patients, to distinguish their muscle mass from pathologic fluid overload, to measure their adipose tissue mass and lean tissue mass, and to detect and manage the malnutrition of patients.	100/year	1	159,600
C34	Aerosol Provocation System	To ensure the highest accuracy in methacholine delivery via the powerful jet nebulization system in order to test patients' bronchoresponsiveness.	24/year	1	90,000
C35	Electric Intensive-Care Bed	Have multifunction that meets the needs of critically ill patients.	50/year	2	50,000
C36	Band Saw	To sand materials used for prosthetic-orthoic treatment.	2,000/year	1	46,000
C37	Patient Hoist with Scale	To lift up and carry patients and to measure their body weight.	1,000/year	3	40,000
C38	Treatment and Examination Light	To enable podiatrists to perform treatment and assessment in a better and brighter view and to let them, with its spring articulate arm system, to move the light, which can be mounted against the ceiling, more easily.	5,000/year	2	36,300
C39	12-lead Interpretive-Cardiograph	To perform ECG interpretation.	11,847/year	2	36,275
C40	Oximeter, Pulse	To deliver exceptional pulse oximetry performance even during low perfusion and signal interference and to enable medical staff to monitor intubated and nonintubated patients, including those receiving supplement oxygen. As combined with two highly advanced technologies, microstream capnography ensures accurate end-tidal CO2 measurements and crisp waveforms, giving the staff a clear picture of patients' respiratory status.	700/year	2	36,000

TWGHs Wong Tai Sin Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
D41	Multi-sensory Input Training Set for Cognitive Impairment	To help mild cognitive and severe demented patients to restore and maintain their cognition ability.	100/year	1	100,000
D42	Mobile Cryosurgery Unit	To remove abnormal tissue, inspissated sputum and foreign body of patients and to be used for haemostasis during bronchoscopy.	50/year	1	78,650
D43	Ultrasonic Bladder Scan	To provide bladder training for patients in continence promotion and to determine the volume of their urinary bladder in order to avoid possible trauma related to unnecessary catheterization, both physically and psychologically.	50/day	3	62,000
D44	Patient Hoist with Scale	To assist patients' movements, e.g. bed transfer, bathing and weighing.	1,000/year	1	52,500
D45	Upper and Lower Limber Cycle Exerciser	To measure patients' exercise efforts.	2,000/year	2	30,000
D46	Dual Flow Oxygen Concentrator	To filter the oxygen from air in order to supply the oxygen to patients.	1,550/year	2	25,000
D47	Portable Wrist Type Oximeter	To measure the oxygen level inside patients' blood.	1,800/year	2	22,000

TWGHs Fung Yiu King Hospital

No.	Name of medical equipment	Function	No. of patient-cases served	Quantity required	Unit cost (HK\$)
E48	Mobile X-ray Equipment	To carry out X-ray examination on critically ill patients in wards.	2,000/year	1	380,000
E49	Biodex 950-381 Gait Trainer	To provide rehabilitation training for patients with different levels of disability, and to provide normative data for comparison to healthy populations and objective reports on track progress and test results of patients.	600/year	1	101,102
E50	Biodex 950-302 Balance System	To provide training on proper postural and balance control for patients and to provide age and gender-dependent normative data in order to identify patients who are likely to fall down.	600/year	1	100,101
E51	BTL-5810SM2-Combi	To offer combined therapy, including channel electrotherapy, ultrasound and 2-channel magnetic therapy and to enable medical staff to focus on the therapy area with no side effect on operators with its unique high-powered FME (Focused Magnetic Field) Technology.	1,000/year	1	86,958
E52	Motomed Viva 2	To provide neurological and orthopaedic rehabilitation and training, including active, passive and active assistive, for patients; its spasm control with automatic change of direction of rotation is necessary to release an occurring spasm.	1,500/year	1	55,000
E53	Maxi Move Patient Hoist	To lift up patients while medical staff's tidying up beds and measuring patients' body weight.	1,000/year	1	49,800
E54	Shower Trolley	To provide bathing service safely for older patients in bathrooms.	1,000/year	2	38,000
E55	Nihon Kohden Multi-Channel Electro-cardiograph Unit	To record patients' heart condition and to extend such recordings automatically or manually for abnormal conditions; analysis results to be transferred to computers for paperless review.	1,000/year	1	34,500
E56	Refrigerator with Temperature Control and Alarm for Patients' Drugs	To store up medical items and to signal for any deviations of temperature from the set parameters.	1,200/year	4	10,000
E57	"MGE" Surgical Suction Unit	To minimize the risk of contamination as installed with overflow control valves and an internal hydrophobic filter.	1,000/year	21	6,500
E58	Volumat Agilia	To perform a wide range of administrative function and to ensure precise delivery of a wide array of fluids.	1,000/year	20	6,200

Remark :

Tung Wah will procure the medical equipment after confirming the donation with well-wishers. The whole procurement procedure normally takes 5 to 11 months. Tung Wah will keep the donors informed of the updated progress by mail.