

## List of Medical Equipment Required by TWGHs Hospitals (2016/2017)

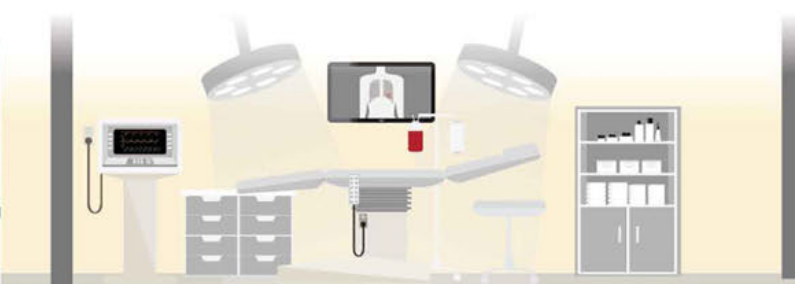
No.	Name of Equipment	Function	No. of Beneficiary per Year	No. of Equipment Required	Unit Cost (HK\$)
<b>Tung Wah Hospital</b>					
A1	Transcranial Magnetic Stimulation Device	Transcranial magnetic stimulation (TMS) therapy facilitates patients' recovery from stroke sequelae, such as cognitive impairment and emotional dysfunctions. TMS is a non-invasive method of brain stimulation by producing a magnetic current near the patient's scalp in order to activate or inhibit the activity of neurons (brain cells).	560 attendances	1	1,000,000
A2	Potassium Titanylphosphate Surgical Laser System	The system emits Potassium Titanylphosphate (KTP) laser for throat and vocal cord surgery. KTP laser is the newest technique for throat surgery, and it is particularly suitable for endoscopic vocal cord surgery. Compared to the existing technique of carbon dioxide laser, KTP laser causes less damage to the surrounding healthy tissues and it can be used together with capsule endoscope to perform endoscopic KTP laser therapy.	100	1	970,000
A3	Body-jet Evo System	Fat grafting is applied for volume restoration in congenital or post traumatic facial defects, breast reconstruction after cancer resection and stem cells therapy for complicated wound and scar management. The new water-jet technology provides fast and easy fat harvesting which can maintain vital fat tissue and stem cells as well as improve outcome of fat grafting, thus reducing the number of operations.	100	1	750,000
A4	Encor Breast Biopsy System	The system is used in biopsy procedures and minimal invasive surgery. The system can conduct ultrasound-guided and stereotactic guided breast biopsy. Compared to traditional surgery under general anaesthesia, the system facilitates small skin incision under local anaesthesia with precise biopsy, simple excision and adequate breast tissues for diagnosis.	100	1	378,000
A5	Dual Leonardo Laser System	The device generates laser for treatment of varicose vein on limbs. Laser energy is delivered to block the varicose veins to prevent further inflammation and bleeding.	100	1	278,000
A6	Haemodialysis Machine	The machine is used to remove uremic toxins and excessive fluid of patients with chronic kidney disease.	600 attendances	1	210,000
A7	Clinical Audiometer	To generate test signals for performing various audiological tests, such as pure tone audiometry and speech audiometry, etc.	4,000	1	129,000
A8	Bilevel Positive Airway Pressure Ventilator	The device provides respiratory support by adjusting the exhalation and inhalation pressure delivered to patient.	100 attendances	1	120,000
A9	Microvascular Doppler System with Accessory Probes	To conduct real time assessment of microvascular circulation for identification and evaluation of blood flows to avoid damage to testicular artery during varicocele ligations surgery.	20	1	110,000
A10	Automated Peritoneal Dialysis Machine	It is used to perform peritoneal dialysis on patients with severe chronic kidney disease to remove uremic toxins and excessive fluid accumulated.	100 attendances	1	95,000
A11	Electrosurgical Unit	It is a surgical knife used in Operating Theatre for skin and organ cutting as well as coagulation of blood vessels.	800	2	49,980
A12	Electrocardiography	It is used to check patients' cardiac rhythm and pattern for diagnosis of heart disease.	100 attendances	3	30,000





## List of Medical Equipment Required by TWGHs Hospitals (2016/2017)

No.	Name of Equipment	Function	No. of Beneficiary per Year	No. of Equipment Required	Unit Cost (HK\$)
<b>Kwong Wah Hospital</b>					
B1	Supraparamagnetic Metal Detector and Probe	The equipment makes use of nano iron technology (Sienna®) to detect axillary sentinel lymph node in breast cancer operation.	200	1	360,000
B2	Haemodialysis Machine	It is used to provide haemodialysis treatment to end-stage renal failure patients by removing waste product and excess fluid in order to extend their life.	624	7	150,000
B3	Mega Power Electrosurgical Generator	The equipment provides a scalpel-like cutting effect for minimal thermal necrosis and reduces scarring. It can also perform the function of smoke evacuator for better surgical performance.	Over 10,000	1	80,200
B4	VerifyNow System	It assesses the patient's platelet reactivity to prevent post-stenting thromboembolic conditions.	200	1	80,000
B5	Intraoral Dental X-ray Digital Plate Scanner	The scanner facilitates the development of digital images which can replace the traditional intraoral dental X-ray films. It aligns with the filmless project of Hospital Authority.	2,800	1	78,000
B6	Traction Machine for Spine	Traction is a physical therapy for neck and low back pain or sciatica. During treatment, the foramina which is the passage of nerve roots is widened, thus alleviates the pressure on spinal nerves.	6,000	1	54,000
B7	Uterine Aspirator	It is used to take endometrial biopsy during diagnostic hysteroscopy for diagnosis of uterine carcinoma and other abnormality.	400	1	45,000
B8	Electric Shower Trolley	This electric shower trolley is a unique facility for transferring the dependent or bed-ridden patients from bed to bathroom.	3,000	1	40,000
B9	Pharmaceutical Refrigerators	For storage of medication and flu vaccination.	Over 10,000	2	35,730
B10	Pharmaceutical Refrigerator	The refrigerator is equipped with temperature control and alarm system for storage of breast milk to prevent spoilage.	2,500	1	32,310
B11	Argo Spray Drill with Foot Switch Control	It is a foot-care device used to thin and reshape thick nails and callus. It features a unique spray technology which keeps the treatment area cool and prevents scattering of debris.	Over 6,000	2	24,000
<b>Tung Wah Eastern Hospital</b>					
C1	Display System for Patient Alerts and Nursing Care Information	The system will be placed at bedside to display patient-related information, such as special instructions, diet and nutrition recommendations which can facilitate efficient bedside patient care.	750	1	268,200
C2	Treadmill	The device provides walking and cardio-pulmonary training to rehabilitation patients.	5,000	1	98,000
C3	Leg Extension Resistance Training Machine	This machine provides resistance training on quadriceps muscle of leg for improving muscle size, knee extension strength and leg extension power, thus enhancing the functional performance of lower limbs.	2,500	1	85,000
C4	Lat Pull Resistance Training Machine	This machine provides exercise training on multi-joints and muscles of upper body, including elbows, shoulders and scapula.	2,500	1	75,000
C5	Dip Shrug Resistance Training Machine	It provides weight training exercise on upper trapezius muscle.	2,500	1	75,000





## List of Medical Equipment Required by TWGHs Hospitals (2016/2017)

No.	Name of Equipment	Function	No. of Beneficiary per Year	No. of Equipment Required	Unit Cost (HK\$)
C6	Auto Refractometer and Keratometer	This equipment can conduct various types of measurement, such as objective refracting power measurement, corneal curvature radius measurement, cornea shape display and visual acuity measurement. These unique functions enable quick diagnosis of refractive error. The measurement data can be stored, printed and transmitted for further analysis, thus facilitates clinical decision.	20,000	1	74,000
C7	Negative Pressure Wound Therapy System and Accessory	The system facilitates wound healing by applying vacuum in sealed dressing to draw out fluid from the wound and increase blood flow to the area.	200	1	60,000
C8	Physiologic Monitor	The monitor facilitates surveillance on patients' vital parameters, including electrocardiogram, blood pressure and oxygen concentration.	750	2	40,000
C9	Medication Trolley	For distribution of drugs to patients in ward.	750	2	35,000
C10	Interactive Motion System	The system provides interactive training of upper limbs through a virtual gaming environment to increase the range of motion and activity endurance of upper limbs.	1,500	1	29,800
C11	Hot Pack Machine	Hot Pack Therapy can improve blood circulation and relieve pain for musculoskeletal and arthritic patients. It is particularly effective on chronic pain.	800	1	20,000
<b>TWGHs Wong Tai Sin Hospital</b>					
D1	Electric Standing Wheelchair	This wheelchair can be adjusted to stand up and recline positions to provide various wheelchair training to patients.	100	1	180,000
D2	Ventilator	The ventilator is a life-saving equipment which provides various modes of artificial breathing for critically ill patients.	100	2	98,000
D3	Hand Held Cardiac Ultrasound	It is used for diagnosis of heart failure and assessment of cardiac functions.	30	1	88,000
D4	Obstetrical, Gynecological and Urodynamic Examination Couch	The couch is equipped with adjustable seat to facilitate different positioning of patients for urinary bladder examinations and treatments.	160	1	80,850
D5	Stand up Wheelchair	The chair positions patient from sitting to stand-up posture, thus facilitates stand-up training of chair-bound, tall and weak patients.	1,000	2	80,000
D6	Non-Invasive Pacemaker Defibrillator Biphasic and Accessories with Trolley	This equipment performs external cardiac pacing and defibrillation functions to revive patients in cardiac emergencies. It is used to manage patients with bradycardia and no response to medication.	Over 500	1	60,000
D7	Physiological Monitor	The monitor can simultaneously monitor a patient's blood pressure, blood oxygen level, cardiac condition and electrocardiogram, and send the data to the central monitor so that the healthcare professionals can monitor the patient's condition and provide	100	2	58,520
D8	Physiologic Monitor	It is used to monitor patients' clinical conditions in order to facilitate clinical decision making.	Over 3,000	2	49,990
D9	Electrocardiography	It is used to check the rate and regularity of heartbeats for diagnosis of cardiac problems such as atrial fibrillation and cardiac arrhythmias.	100	2	40,400
D10	Low Air Loss Mattress System	The system redistributes the pressure of the interface between patient's body and mattress so as to maintain the pressure at low level to prevent pressure ulcers.	100	3	28,000
D11	Handheld Pulse Oximeter	The machine facilitates healthcare professionals to monitor patients' respiratory status by measuring their end-tidal CO2 and crisp waveforms, so that timely and appropriate treatments can be taken. The machine is handheld and can be used in patient transfer and ambulation.	100	4	24,900





## List of Medical Equipment Required by TWGHs Hospitals (2016/2017)

No.	Name of Equipment	Function	No. of Beneficiary per Year	No. of Equipment Required	Unit Cost (HK\$)
<b>TWGHs Fung Yiu King Hospital</b>					
E1	X-ray Digital Upgrade Kit for Mobile Radiographic Unit	With the use of direct digital radiography instead of computed radiography, the X-ray images will be available for immediate viewing, and the efficiency of diagnosis and treatment can be enhanced.	3,000	1	700,000
E2	Automatic Medicine Cabinet	The cabinet is equipped with bio-metric scanner, electronic lock and central database, etc. To retrieve drug from the cabinet, nurses have to log into the cabinet to select the required drug. The system will then unlock the specific drawer and direct the nurse to the drawer with a guiding light. The transaction record will be kept in the central server for data analysis. The cabinet can provide safe and reliable dispensing service during non-office hours of the Pharmacy Department.	450	1	578,800
E3	Low Power Laser Therapy Unit	It provides therapeutic effects on acute and chronic soft tissue injuries by applying precise high power density technology to stimulate acupuncture points and trigger points.	700	1	150,000
E4	Bedpan Washer/ Utensil Disinfector	For washing and disinfecting human waste containers.	52,560	2	66,000
E5	Isokinetic Upper Limb and Lower Limb Exerciser	The equipment offers a semi-recumbent elliptical movement which facilitates safe and effective isokinetic exercise. The "zero joint impact" design is particularly suitable for rehabilitation exercises of elderly patients.	350	2	50,000
E6	Rehabilitation Slide for Upper Limb Function Training	This mechanical equipment provides training on shoulder, elbow and wrist of semi-paralyzed patients after stroke and patients with upper limbs weakness or poor control.	2,000	1	49,900
E7	Physiological Bedside Monitor	It provides continuous monitoring of patients' vital sign to facilitate clinical decision making.	1,500	4	12,400

## Acknowledgement Arrangement

Type of Donation	Acknowledgement on Equipment*	Acknowledgement on TWGHs Website	Acknowledgement in TWGHs Annual Report
Medical Equipment	✓	✓	✓
Donation of HK\$ 10,000 or above	—	—	✓

\*Photo of the equipment will be sent to donor for retention once installation is completed. Acknowledgment will be expired upon disposal of the equipment.

Remarks:

1. TWGHs will start the procurement procedure upon receipt of the sponsorship. Donors will be kept informed of the progress by written notice in due course.
2. Function of equipment is not fully enlisted due to limited space. Please contact 2859 7880 for further details.