



التاريخ : 10/08/2026 م

كراسة طرح عطاء رقم – RFQ-H-11988

السادة / الشركات المختصة الراغبة بالمشاركة بالعطاء - المحترمين .

الموضوع : **Dual Plane Angiography System**، حسب المواصفات المرفقة .
بالإشارة إلى الموضوع أعلاه، يرجى الاطلاع على جداول المواصفات المرفقة مع مراعاة الشروط التالية :-

1. تكتب الاسعار بالدولار الأمريكي وبشكل واضح في المكان المخصص حسب الجدول المرفق وتشمل قيمة الضريبة المضافة، في حال وجود تعارض بين سعر الوحدة ومجموع سعر الوحدة المشتق، فإن سعر الوحدة هو الذي سيعتمد .
2. ثمن نسخة العطاء (750) شيكل إسرائيلي غير مستردة تدفع في الدائرة المالية مبنى الإدارة - الطابق الأول .
3. كفالة دخول عطاء بقيمة (3000) ثلاثة آلاف دولار أمريكي أو ما يعادلها سارية المفعول لمدة ثلاثة شهور تأميناً نقدياً أو كفالة بنكية أو شيكاً مصدقاً وفي حالة عدم تقديم المطلوب لا ينظر في عرض سعركم .
4. كفالة حسن تنفيذ بقيمة 10% من قيمة العطاء في حالة الترسية تأميناً نقدياً أو كفالة بنكية أو شيكاً مصدقاً سارية المفعول لمدة ثلاثة اشهر تستبدل بكفالة صيانة قيمتها 5% من قيمة الإحالة عند الترسية .
5. رسوم الاعلان على من يرسو عليه العطاء .
6. ضرورة الالتزام بالتسعير على النموذج المرفق بالعطاء .
7. أن تكون الأجهزة المعروضة جديدة وليست مجددة .
8. يفضل أن تكون الأجهزة والمستهلكات الطبية صديقة للبيئة قدر الإمكان .
9. الأجهزة (الكهربائية/الطبية) إن وجدت:
 - a. ألا يقل تصنيف كفاءة الطاقة عن A أو A+ وفق نظام تصنيف كفاءة الطاقة المعمول به، وبما يعادل كفاءة طاقة بنسبة 100%
 - b. أن تكون الأجهزة المعروضة AI Applicable مع تقديم ما يثبت ذلك رسمياً من الشركة المصنعة.
10. يتم تقديم شهادة خصم مصدر في حالة تجاوز المبلغ قيمة 2500 شيكل أو ما يعادلها.
11. غرامة تأخير 2% عن كل اسبوع وتبدأ من اليوم الذي يلي موعد التسليم المحدد من قبلكم، وفي حال تأخير التوريد مدة تزيد عن اسبوعين يحق للمستشفى إلغاء أمر الشراء والاحالة على مورد آخر مع تحميلكم فروق الأسعار .
12. الدفع وفقاً لما يتم الاتفاق عليه مع الدائرة المالية .
13. تحديد فترة التسليم في عرض سعركم وايضاً فترة الضمان وأن تكون صلاحية العرض المقدم من طرفكم مدة لا تقل عن ثلاثة اشهر .
14. تسلم عروض الاسعار في مكتب مدير دائرة اللوازم والمشتريات رقم (6400) مبنى الإدارة في مستشفى النجاح الوطني الجامعي **بالطرف المختوم فقط** وتوضع في صندوق العطاءات ، على أن يكون عرض السعر يحوي فصلاً بين العرض المالي والعرض الفني أي أن العرض المالي منفصل عن العرض الفني مع ضرورة كتابة رقم العطاء على المغلفين وتوضيح أي منهما العرض الفني والعرض المالي.
15. على كل من يرغب بالمشاركة بتقديم عرض سعر تقديم ما لديه من مواد او اجهزة او ماركات لما جاء اعلاه او البديل له والرد على العطاء سلباً او ايجاباً .
16. المستشفى غير ملزمة بأقل الأسعار .
17. يحق للمستشفى إلغاء العطاء دون ابداء السبب ودون تحمل اية تكاليف مع اعادة رسوم نسخة العطاء للمشاركين في العطاء ان وجدت، ولا تتحمل المستشفى تكاليف النقل والتحميل والتتزيل .
18. ضرورة ارفاق الرخصة التجارية والسيرة الذاتية للشركة مع عرض السعر .
19. آخر موعد لتقديم عرض السعر هو يوم الخميس الموافق 2026-08-27 الساعة الثالثة مساءً 03:00 PM .

20. لأية إستفسارات متعلقة بالعطاء المذكور اعلاه ، يرجى الاتصال بالسيد مدير دائرة اللوازم والمشتريات هاتف رقم (+97092389687) داخلي (6400) أو من خلال البريد الالكتروني tender3@najah.edu .

مدير دائرة المشتريات والمستودعات

إياد المكاي

PR 12602722



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كراسة طرح عطاء رقم – RFQ-H-11988

جدول الأسعار والكميات :

No.	NNUH Code	Item	QTY	UNIT	CODE #	وكيل / موزع	مدة التوريد	U.P (\$)	T.P (\$)
1	G-A-MDD00239	Dual Plane Angiography System حسب المواصفات المرفقة	1	Pcs					
2	G-A-MDD00239	تكلفة عقد الصيانة السنوي بعد إنتهاء السنة الثالثة من الكفالة	1	Y					
-		Total Price (\$)							

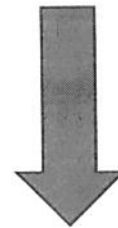


• يرجى تعبئة الجدول التالي مع ضرورة الختم على جميع أوراق عرض السعر .

1	إسم الشركة
2	الختم
3	التوقيع والإسم
4	معلومات الإتصال
5	مدة التوريد
6	مدة الكفالة إن وجدت

ملاحظة : ضرورة تعبئة جدول المواصفات وإرفاقه مع عرض السعر والذي يعتبر جزءاً لا يتجزأ من العطاء .

المواصفات الفنية :





Dual Plane Angiography System, Qty. 1		Compliance Yes/No	Deviation
Good brand name with FDA or CE			
Should have CB test and EMC test (60601.1 and 60601.2)			
Should has ISO 13485 certification for medical devices			
Manufacturer:			
Source and origin:			
Model:			
Trade in with Toshiba cathlab (Model: Infinix 8000), (S/N: 18E443RU)			
A Bi-Plane Angiography System			
A state-of-the-art, latest-generation biplane angiography system designed to support the full spectrum of image-guided therapies, including advanced neurointerventional procedures such as acute ischemic stroke thrombectomy, cerebral aneurysm coiling, flow-diverter deployment, intracranial and extracranial stenting, arteriovenous malformation (AVM) embolization.			
The system shall also support a comprehensive range of interventional radiology procedures, including transarterial chemoembolization (TACE), prostate artery embolization (PAE), liver-directed therapies, peripheral vascular interventions, and oncologic embolization procedures, as well as interventional cardiology, structural heart interventions, electrophysiology procedures, and hybrid image-guided therapies.			
The offered solution shall be based on the latest commercially available technology and shall be configured to support future upgrades, software enhancements, and the integration of emerging clinical applications. The vendor shall ensure compliance with applicable international quality, safety, and regulatory standards and shall provide comprehensive training, documentation, warranty coverage, and post-installation technical support. The complete system shall be designed to maximize clinical efficiency, patient and staff safety, operational reliability, cybersecurity, and long-term sustainability while minimizing downtime and service interruptions throughout its operational life.			
B GANTRY SYSTEM			
The angiography system shall be equipped with a fully motorized biplane gantry configuration consisting of a floor-mounted frontal C-arm and a ceiling-suspended lateral arm, specifically designed to support advanced neurointerventional, cardiovascular, electrophysiology, structural heart, and interventional radiology procedures.			
Frontal C-Arm:			





The frontal C-arm shall provide fully motorized movements in all axis and positions, with an isocenter-to-floor distance of aprox 110 cm to ensure optimal patient access and procedural flexibility.		
The frontal C-arm shall support rotational movement of aprox 120° in both LAO and RAO directions with a rotational speed of up to 25°/second or better.		
The system shall support high-speed rotational angiography and 3D image acquisition with a rotational speed exceeding 50°/second.		
The frontal C-arm shall provide motorized cranial and caudal angulations of aprox 45° in each direction (cranial and caudal) with angulation speeds of up to 25°/second or better.		
Full patient coverage without moving table or patient, please specify the coverage distance		
Lateral L-Arm:		
The ceiling-suspended lateral arm shall provide fully motorized and independent rotational and angulation movements, allowing unrestricted access to a wide range of imaging projections.		
The lateral arm shall support motorized cranial and caudal angulations of aprox 45° in each direction.		
The source-to-image distance shall be adjustable over a wide range 87 - 130 cm through both motorized and manual operation to accommodate different clinical applications and patient anatomies.		
The gantry design shall provide maximum mechanical freedom, rapid and precise positioning, and optimal patient accessibility during complex interventional procedures.		
The system shall incorporate advanced collision avoidance technology to ensure safe and efficient operation of both imaging planes throughout all gantry movements.		
The complete gantry system shall be optimized for high-volume clinical workflow, facilitating rapid positioning, automated movements, and seamless integration with advanced imaging applications.		
C PATIENT TABLE with Tilt Option		
The table shall feature a radiolucent carbon-fiber tabletop, with free-floating movement		
The patient table shall incorporate a rotation/pivot function of -90°/+180° or -180°/90°. A secure locking mechanism shall be provided to ensure stability during all procedures.		
The tabletop shall provide sufficient length to accommodate complex interventional procedures and allow convenient placement of catheters, guidewires, and ancillary equipment (Length. aprox 300 cm).		





	The table height (70-100cm) shall be fully motorized and adjustable over a wide range.		
	The table shall support synchronized tilt movements to c-arm up to 15 degree or better with the imaging gantry and provide iso-centric Trendelenburg and reverse Trendelenburg positioning.		
	The table shall provide extensive longitudinal and lateral travel		
	Table Weight Capacity ≥ 280 kg		
	Supplied complete with all standard accessories required for clinical operation, including patient positioning, restraint, support, and infusion management devices.		
	The patient table shall be equipped with integrated collision detection and protection mechanisms during all longitudinal, lateral, height, tilt, rotational, and synchronized gantry movements and providing smooth, precise, and fully motorized movements.		
	Metal free overhang approximately 125 cm, Table width: ± 45 cm, Lateral Movement of table top: Minimum 30 cm, Longitudinal movement of table top: Minimum 120 cm,		
	Tablesides touch screen control module.		
D	X-RAY GENERATOR		
	The system shall be equipped with a high-frequency, microprocessor-controlled X-ray generator.		
	The generator power output shall be ≥ 100 kW per plane, generator power independently available on both planes simultaneously		
	The system shall provide a maximum tube current of at least 1000 mA at 100 kV or higher to ensure adequate image quality under demanding clinical conditions.		
	The system shall support high-speed pulsed X-ray acquisition of up to 60 frames per second or better for digital dynamic imaging applications.		
	Fluoroscopy Modes Pulsed & Continuous		
	Pulse Rates 3, 7.5, 15, 30 p/s or better		
E	X-RAY TUBE		
	The system shall be equipped with an advanced X-ray generator incorporating a high-performance X-ray tube with a rotating anode to ensure optimal heat dissipation and sustained imaging performance during complex interventional procedures.		
	The system shall utilize grid-switched pulsed fluoroscopy technology to enable precise dose control, improved image quality, and significant reduction in patient and staff radiation exposure.		
	X-ray Tube Heat Capacity ≥ 10 MHU, Specify yours?, more is better		
	Tube Cooling Rate ≥ 2.5 MHU/min, Specify yours?, more is better		





F	DIGITAL FLAT PANEL DETECTORS		
	The system shall be equipped with advanced digital flat panel detectors for both the C-arm and L-arm to ensure high-resolution imaging across all interventional applications.		
	Frontal Detector Size: please specify the size? (must be perfect for Neuro, IR and cardiac applications)		
	Lateral Detector Size: please specify the size? (must be perfect for Neuro and IR applications)		
	The detector system shall feature a pixel size $\leq 150 \mu\text{m}$, please specify yours? smaller is better		
	Active matrix TFT technology		
	Detective Quantum Efficiency (DQE) $\geq 75\%$		
	The detector system shall provide a minimum 16-bit acquisition depth		
G	HEMODYNAMIC RECORDING AND INFORMATION SYSTEM.		
	The hemodynamic recording and information system shall provide comprehensive real-time monitoring of vital physiological parameters, including ECG with 12-lead capability, SpO ₂ , non-invasive blood pressure (NIBP), and at least four (4) channels of invasive blood pressure (IBP), in addition to cardiac output measurement with all required accessories for complete clinical functionality.		
	The system shall include dedicated functionality for pull-back pressure gradient assessment, enabling precise measurement and documentation of pressure differences across anatomical segments, particularly in coronary, peripheral, and structural heart interventions.		
	The system shall support right heart catheterization studies with full hemodynamic evaluation, including pulmonary artery pressures, right atrial pressures, pulmonary vascular resistance, and provide cardiac output calculation using Fick methods with automated data acquisition, real-time processing, and validated computation algorithms.		
	The system shall enable advanced shunt detection and quantification, including Qp/Qs ratio calculation for intracardiac and extracardiac shunt evaluation.		
	Full EP recording compatibility		
	The system shall include advanced reporting software capable of generating structured, standardized, and customizable hemodynamic reports, fully integrated with hospital information systems (HIS), picture archiving and communication systems (PACS), and electronic medical records (EMR).		
	HL7 integration		





	The system shall ensure full synchronization with the angiography system, allowing precise correlation between hemodynamic measurements and fluoroscopic imaging during complex interventional procedures.		
	Complete with all required accessories and sensors (2 pcs for each), with mounting accessories to the table siderail		
	Please specify your device feature and advance technology?		
H	Monitors		
	The system shall include a large-format medical-grade display in the procedure room with a minimum size of 56 inches and a minimum display resolution of ≥ 8 megapixels, ensuring 4K image quality suitable for advanced angiography, live fluoroscopy, and 3D reconstructions during complex interventional procedures.		
	The system shall include two (2) additional backup medical-grade monitors in the procedure room, each with a minimum size of 21 inches, to ensure redundancy and continuous image availability during all procedures.		
	The control room shall be equipped with a primary system monitor of at least 21 inches for real-time image review, system operation, and procedural management.		
	The control room shall include an additional lateral system monitor of at least 21 inches to support simultaneous image review, workflow efficiency, and operator assistance.		
	The hemodynamic system shall include dedicated medical-grade monitoring displays to present real-time physiological data, waveforms, and calculated parameters in a clear and continuous format.		
	All monitors shall be medical-grade, high-resolution, and fully integrated with the angiography, hemodynamic, and imaging systems to ensure synchronized display of imaging and patient data across all workstations.		
	The system shall support multimodality image integration and fusion imaging capabilities, enabling synchronized display of echocardiographic and ultrasound images to facilitate advanced structural heart interventions and improve procedural guidance and workflow efficiency.		
I	Automated Contrast Injection System (Coronary Injector)		
	The system shall include a dedicated automated contrast media injector for coronary, structural heart and IR procedures.		
	The Injection system should be 510K FDA approved for Coronary injection.		
	The injector shall provide programmable control of contrast volume, flow rate, injection duration, and pressure, ensuring accurate and reproducible contrast delivery.		
	The system shall incorporate advanced safety features, including pressure monitoring, air detection, and automatic injection stop functions.		





	The injector shall support contrast-saving protocols and be designed to reduce contrast usage while maintaining optimal image quality.		
	The system shall be fully integrated and synchronized with the angiography system to ensure precise timing between contrast injection and image acquisition.		
	The injector shall be supplied complete with all required accessories, consumables, and mounting hardware necessary for routine clinical operation.		
J	Image & Processing		
	AI-Based Image Processing Suite Includes:		
	Motion compensation		
	AI vessel enhancement		
	Automatic anatomy recognition		
	AI roadmap generation		
	AI dose optimization		
	Neuro, Cardiology and IR features		
	Flow Diverter Planning		
	Aneurysm Workflow		
	AVM Planning		
	Stroke Workflow		
	Perfusion Imaging, optional price separately.		
	Vessel Navigation		
	CT/MR Fusion, optional price separately.		
	Metal Artifact Reduction		
	Stent optimization.		
	Vessel Analysis		
	Structural Heart Package (LVA, QVA, RVA, QCA).		
	Echo Integration		
	CT integration		
	Motion Correction Software		
	CO ₂ Package		
	Tumor Embolization Planning		
	CBCT		
	Fusion Imaging, optional price separately.		
	Dose Reduction Technology		
	Noise Reduction Technology		
	Real-Time Dose Display		
	Device Visualization Enhancement		
	Continuous Fluoro.		
	Pulsed Fluoro.		





	DSA		
	DA		
	High-resolution CBCT, Soft tissue CBCT		
	Cone CT		
	Automatic Positioning		
	Position Memory		
	3D Reconstruction Workstation		
	Rotational Angio -3D		
	2D Roadmap		
	3D Roadmap		
K	Dose Reduction Technology and Dose Management Software		
	Vendor Shall provide the latest real time dose reduction technology as well as Dose Management Software.		
	Real-time skin dose mapping		
	Peak skin dose calculation		
	Dose structured reports (RDSR)		
	Dose monitoring workstation		
	Proven Technology supported with accredited papers, compression sheets and studies.		
L	Connectivity:		
	DICOM Connectivity		
	PACS Integration		
	RIS/HIS Integration		
	Cybersecurity Compliance with:		
	IEC 81001-5-1		
	IEC 62443		
	DICOM TLS		
	Audit logs		
	Active Directory integration		
	Software Upgrade Availability		
M	Miscellaneous		
	1- X-Ray Lower shield protection.		
	2- Upper X-ray Protection.		
	3- Ceiling Light with 120,000 LUX or more.		
	4- Laser color printer connected with Hemodynamic System.		
	5- 2-Step Footstool Stainless Steel.		
	6- Set of Medical Storage Cabinets around catheterization room.		
	7- Lead free Aprons (Two pieces) complete with Glasses and Thyroid collar, QTY: 2 Kit.		
	8- Foot Height Adjustable Surgical Stools (With Backrest) *2PCS.		





	9- Two-foot switch control units, comprising one wireless foot switch and one wired foot switch		
	10- Gas pendent with one shelve and one drawer (O2, 4bar air, Vacuum, CO2, N2O), two outlet each, one AGSS. BS standard		
N	General		
	Suggested room size, Please specify? (Site visit mandatory)		
	Other features available should be listed?		
	Supply, install, test and connect uninterrupted power supply (UPS), with enclosures, ventilation, internal connections, visual displays, system mimic diagram, rectifier/charger, isolation transformer, inverter, display and controls, internal maintenance by-pass switch and all needed accessories to complete the job as specified by the manufacturer also the job include all electrical panels need to operate all cathlab room componant and to connect the UPS to the load and all cables and wirs need to complete the job from Main distribution board (MDB) for the building to UPS to Battery to load (if needed), please note that we have an old UPS should checked by the vendor to decide if it suitable to his system or not		
	Complete with all accessories and consumables needed to work completely as specified		
	Training included in the price:		
	Operation training which includes (doctor, technician) to operate the cathlab professionally on-site Please be specific. How will the trainings be conducted?		
	Service training for one biomedical engineer at the manufacturer site		
	Operation training for one technician at advance center, optional price		
	Optional to be priced separately:		
	The annual price for maintenance (Inculding tube, UPS and injector and all parts of the machine includeing the PM) for the 5 years following the end of the original 3 years warranty.		
	List price all accessories necessary to operate the solution as per the required specs listed above		
	List all other accessories and supplies that you may recommend to NNUH and are considered optional items to be decided on purchasing at the discretion of NNUH		

Your offer should contain the following:

1) Preventive maintenance schedule





- | | | |
|--|--|--|
| 2) Reference list for the same model, the supplier must have 3 reference at least on local market or regional, and must prepare site visit for our team to evaluate the machine. | | |
| 3) Compliance sheet | | |
| 4) Catalogues | | |
| 5) Data sheet | | |
| 6) Authorization letter | | |
| 7) CE or FDA and ISO certificates and ISO 13485 certificates | | |
| 8) CB test and EMC test certificate | | |
| 9) The service and operational manuals must delivered as soft copy with the units | | |
| 10) Guarantee for 10 years for spare parts supply | | |

Warranty: **Three years** (USA, EUR, or Jaban) brands, other equivalent brands with **five years** warranty
Including the software upgrade, with commitment to conduct preventive maintenance (labor and parts) during the warranty period and according to manufacturer recommendations, including all parts, tube, UPS, injector and all equipments included in the tender.
If any problem with the machine occurs, the maintenance should be within 48 hours, if the company exceed the time limit, all expenses including patient transfer to other hospitals will be on the company expensis.

Preventive maintenance should be done as per the manufacturer's recommendations, all parts including PM kits to be replaced during the warranty period will be the responsibility of the supplier to provide on his own account. A schedule of the PM visits should be submitted to the hospital biomedical engineering dep.

Hardware (service) keys, software passwords, website account or any means needed to grant the hospital engineer full access to all service functionalities are the right of the hospital and should be delivered with the equipment, and should as well be valid throughout the whole lifetime of machine.

Site preparation, (Site visit is mandatory):

remove (old) and relocate all electrical installations installed on the walls and ceiling, floor (light, power sockets, data network, smoke detector, access door, intercom, nurse call, earthing ... etc.) and add new ones from same brands according to the cath lab requirements and the recommendations of the engineers.





Making sure that the existing lead shielding is good and achieves the requirements of the device. It is the contractor responsibility to do, add, adjust the shielding so as it works fine as required with out any problems, and it is the contractors responsibility to get the MOH shielding licence and approval.		
Removing existing rubber floor and rehabilitation of its underlay using mechanical polishing tool so as to get the surface as smooth as possible. Complete.		
Supply and install 2 mm thick european made PVC sheets , seamless joints, fixed on the exsisting polished floor with approved adhesive, including compatible self leveling materials, cutting , fixing, adhesive, sealant, dampproof membrane and primers all as manufacturer's instructions. The price also includes floor integrated 10 cm height coved skirting, the price also includes earthing net.		
Supply and install new false ceiling made of a combination of gypsum boards ceiling and medical grade gypsum tiles with a tin layer and a mold-resistant face, with a thickness not less than 10 mm, size 60 x 60 cm the price is to include Dismantling of the existing false ceiling , the contractor shall move surplus materials outside the hospital, the price also includes anti bacterial paint for the gypsum board ceiling. The contractor also shall make needed arrangements with the electrical and machanical engineers to deal with the ceiling electromechanical hangings (coordination ceiling plan) complete.		
Removing existing trunk and change it to 4" pvc pipes as needed and requirements of the device. The price is to include fixing the pipes in concrete retiling above them before appling the self leveling material on the floor . The price is to include electrical water proof floor boxes as needed , and all the accessories needed , complete.		
Dismantling and reinstall of the two air conditioning units including all required so as to make them work perfectly.		
Supply and install the radiation warning light at entrance of the cathlab room		
Build up new concrete base as per manufacturer instructions, using any steel reinforcement bars if needed as per engineer instructions, complete. (If needed)		
Supply, install, new medical gas outlet (O2, Medical comp.Air 4bar, Vacuume, AGSS, N2O and CO2) BS standard. (If needed)		
Supply and install wall cladding made of white rock cladding or approved equal for the walls (full height), the price includes approved adhesive and all accessories, complete.		
Supply and install hermetic automatic sliding door for the cath lab including lead sheilding and all its requirments and an approved finish according to the engineer's approval, complete.		
Supply and install a door to be installed between the cath lab and the control room with lead sheilding and an approved finish according to the engineer's approval		





إعلان طرح عطاء رقم RFQ-H-11988

-- Dual Plane Angiography System --

- يعلن مستشفى النجاح الوطني الجامعي عن طرح عطاء (Dual Plane Angiography System)
- على السادة الشركات المتخصصة والراغبة بالمشاركة بالعطاء تقديم عروض أسعارها في موعد أقصاه يوم الخميس الموافق 2026/08/27 الساعة الثالثة مساءً pm 15:00 .
- ضرورة إرفاق نسخة من الرخصة التجارية والسيرة الذاتية.
- في حال وجود أي استفسار يرجى التواصل مع دائرة اللزوم والمشتريات هاتف رقم 2389685-09 تحويل رقم 6400 أو من خلال البريد الإلكتروني Tender3@najah.edu
- رسوم الإعلان على من يرسو عليه العطاء .

#	رقم العطاء	موضوع العطاء	نسخة العطاء	كفالة دخول عطاء	موعد الطرح	موعد الإغلاق	
						التاريخ	الساعة
1	RFQ-H-11988	Dual Plane Angiography System	750 شيكل غير مستردة	\$ 3000	2026/08/10	2026/08/27	PM 15:00