

Dokumen kajian dalam membuat keputusan pembelian CATHLAB Merek PHILIPS :

I. Presentasi 3 Merek CATHLAB di RSUD Mohammad Natsir :

1. Merek PHILIPS

 **PEMERINTAH PROVINSI SUMATERA BARAT**
BADAN LAYANAN UMUM DAERAH
RSUD MOHAMMAD NATSIR
Jalan. Simpang Rumbio Kota Solok, Telp/Fax.0755-20003 

Nomor Lampiran Perihal : /PM/VI/2022
Presentasi Alkes

Solok, 7 Juni 2022

Kepada Yth.
Bpk / Ibu :

1. KPA RSUD M. Natsir
2. PPTK Kegiatan Pengadaan Alkes
3. Kabag Program dan Anggaran
4. Kabid Keperawatan
5. Kabid Penunjang Medis
6. Kabid Pelayanan Medis
7. Perencana Ahli Muda RSUD M. Natsir/
koord Penyusunan Program dan anggaran
8. Administrator Kesehatan /Koord
Renbang Pelayanan Keperawatan
9. Administrator Kesehatan/ Koord.
Monev Pelayanan Keperawatan
10. Administrator Kesehatan/ koord
Renbang Pelayanan Medis
11. Administrator Kesehatan/ Koord
Monev Pelayanan Medis
12. Administrator Kesehatan/ koord
Renbang Penunjang Medis
13. Ka. IPS Medis dan Tim
14. Ka. RIR dan Tim

RSUD M. Natsir
Di Tempat

Dengan Hormat.

Sehubungan dengan surat dari PT. Aneka Medika Indonesia dengan nomor : LH/ 220897/ VI/ DIR/ EK/ AW tanggal 2 Juni 2022 tentang Permohonan Presentasi alat Radiologi (Philips Azurion 7 Flex Arm dan Igenia Ambition P), maka dengan ini kami mengundang bapak/ Ibu untuk hadir pada acara presentasi alat tersebut diatas pada :

Hari / Tanggal : Jum'at/ 10 Juni 2022
Tempat : Aula Pusako RSUD M Natsir Solok
Pukul : 13.30 WIB s.d selesai

Demikianlah surat ini kami sampaikan, atas kehadiran bpk/ Ibu kami ucapkan terimakasih


Wadir Pelayanan
Dr. Soufni Morawati, Sp.PK
NIP. 19700129200212 2004



2. Merek GE

 **PEMERINTAH PROVINSI SUMATERA BARAT**
BADAN LAYANAN UMUM DAERAH
RSUD MOHAMMAD NATSIR
Jalan. Simpang Rumbio Kota Solok, Telp/Fax.0755-20003 

Nomor Lampiran Perihal : /PM/VI/2022
- Presentasi Alkes

Solok, 13 Juni 2022

Kepada Yth.
Bpk / Ibu :

1. KPA RSUD M. Natsir/ Wadir Keuangan
2. PPTK Kegiatan Pengadaan Alkes
3. Kabag Program dan Anggaran
4. Kabid Keperawatan
5. Kabid Penunjang Medis
6. Kabid Pelayanan Medis
7. Perencana Ahli Muda RSUD M. Natsir/ koord Penyusunan Program dan anggaran
8. Administrator Kesehatan /Koord Renbang Pelayanan Keperawatan
9. Administrator Kesehatan/ Koord. Monev Pelayanan Keperawatan
10. Administrator Kesehatan/ koord Renbang Pelayanan Medis
11. Administrator Kesehatan/ Koord Monev Pelayanan Medis
12. Administrator Kesehatan/ koord Renbang Penunjang Medis
13. Ka. IPS Medis dan staf
14. Ka. RIR dan staf
15. Ka. Ruangan Jantung dan staf

RSUD M. Natsir
Di Tempat

Dengan Hormat,


Schubungan dengan surat dari PT. Mulya Husada Jaya dengan nomor 002/PR_MHJ06/MKT/VI/2022, tanggal 03 Juni 2022 tentang Permohonan Presentasi Alkes

1. Hybrid OT Cathlab, Type Innova IGS 7 OR, Merk GE
2. MRI 1,5 T Type SIGNA Explorer, Merk GE

maka dengan ini kami mengundang bapak/ Ibu untuk hadir pada acara presentasi alat tersebut diatas pada :

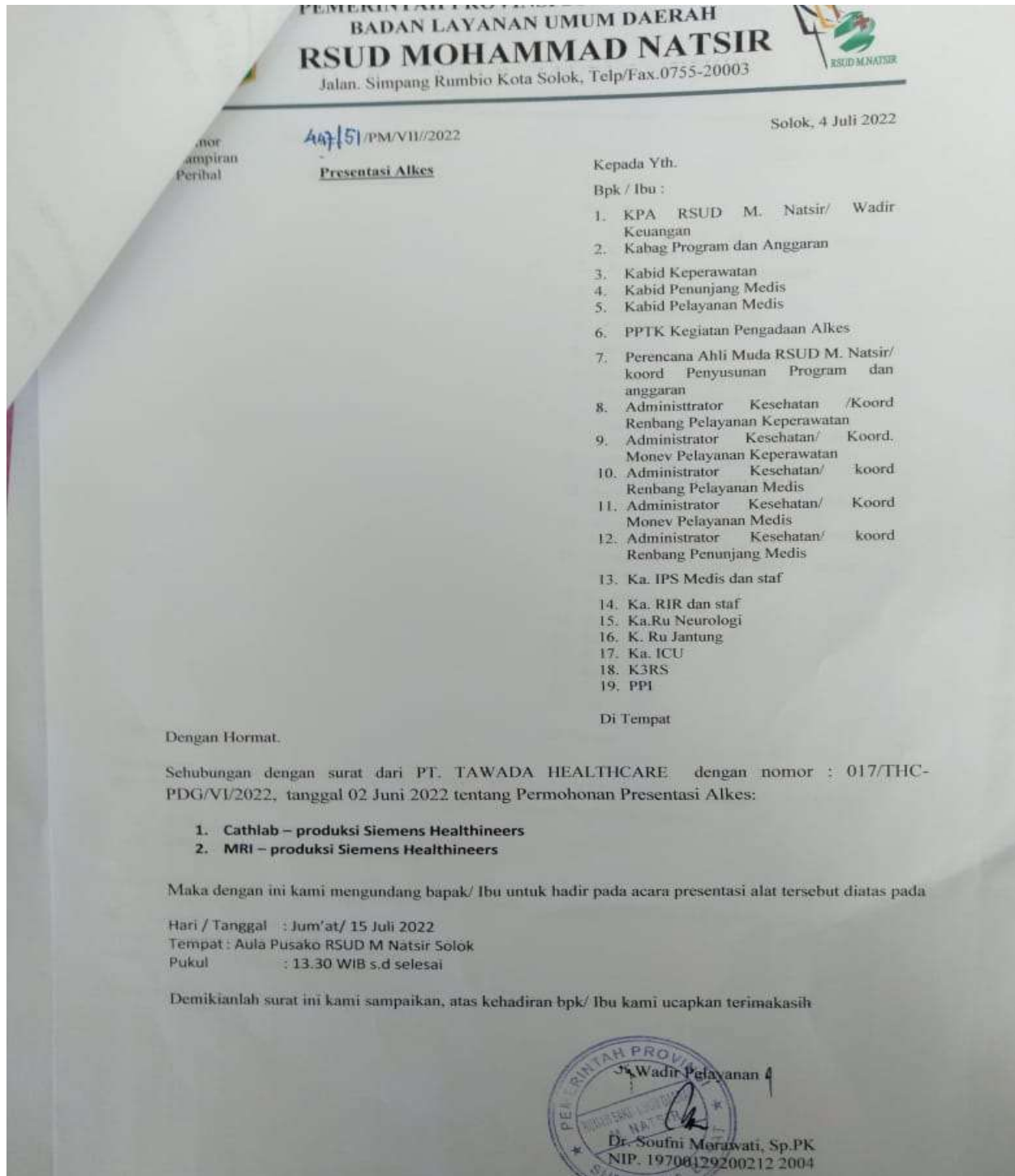
Hari / Tanggal : Jum'at/ 24 Juni 2022
Tempat : Aula Pusako RSUD M Natsir Solok
Pukul : 13.30 WIB s.d selesai

Demikianlah surat ini kami sampaikan, atas kehadiran bpk/ Ibu kami ucapkan terimakasih


Wadir Pelayanan



3. Merek SIEMENS





II. Rapat Tim HTA Pengadaan CATHLAB RSUD Mohammad Natsir :



PEMERINTAH PROVINSI SUMATERA BARAT
BADAN LAYANAN UMUM DAERAH
RSUD MOHAMMAD NATSIR

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nomor : 445/139 / TU / 2019
jenis : Undangan

Solok, Rabu, 5 Oktober 2022

Kepada
Yth. KETUA 2-TIM HTA RSUD M. NATSIR
Di
Tempat

Dengan hormat,
Bersama ini kami mengundang Sdr/Bapak /Ibuk untuk dapat hadir pada :

Hari / Tanggal : KAMIS 6 OKTOBER 2022
Pukul : 09.00 WIB.
Tempat : RUANG DIREKTUR
Acara : PEMBAHASAN HTA "CATHLAB"

Demikianlah undangan ini disampaikan atas perhatian dan kerjasamanya
Diucapkan terima kasih.

DIREKTUR RSUD M. NATSIR

TTU.

dr. ELVI FITRIANETI, SP.PD, FINASIM



PEMERINTAH PROVINSI SUMATERA BARAT
BADAN LAYANAN UMUM DAERAH
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Tl: www.rsudmohammadsir.sumbaprov.go.id email: rsudmohammadsir@sumbaprov.go.id



DAFTAR HADIR PERTEMUAN RAPAT

Hari : KAMIS
Tanggal : 6 OKTOBER 2022
Waktu : 09.00 WIB
Tempat : RUANG RANG DIREKTUR
Acara : PEMBAHASAN HTA (HEALTH TECHNOLOGY ASSESSMENT) CATH LAB.

NO	NAMA	JABATAN	TANDA TANGAN	KET
1	Efendi Firmada	Direktur	[Signature]	
2	Johari Kurniawan	Wakil Kepala	[Signature]	
3	Iulistrann Dewir	Kabid Pelayanan	[Signature]	
4	Herman	Ketua Tim	[Signature]	
5	Salmawati	PVAK	[Signature]	
6	Juliyang	Ketua Tim	[Signature]	
7	Indrat Asrar	Keperawatan	[Signature]	
8	[Signature]	[Signature]	[Signature]	
9	Hajriah	Asst	[Signature]	
10	Eva Harwati	At. Perencanaan	[Signature]	
11	Eko Budi R.	M. ANEXA	[Signature]	
12	Hilman	---	[Signature]	
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Solok,20



NOTULEN
 RAPAT PEMBAHASAN HTA (HEALTH TECHNOLOGY ASSESMENT) CATHLAB
 Tanggal 6 Oktober 2022

Hybrid OR Comparison	Cathlab Single Plane	GE Healthcare	Siemens Healthcare
Vendor Name	Philips Healthcare	Discovery IGS 7 OR with Autoright AI [®] Platform	Artis pheno
Product name	Azurion 7 Flex Arm		
FDA cleared, year	2018	2020	2017
Type	Single plane	Mobile Advance Guided Vehicle (AGV) C-arm with OR table	Single plane, robotic arm Floor mounted system
Targeted markets (i.e. CardioThoracic Surgeon, Vascular, Ortho, cardiology, interventional radiology, etc.)	Cardiac, neuro, vascular	Expands clinical breadth of HOR to fit the needs of virtually any surgery and interventional specialty	Cardiac, thorax, neuro, ortho, vascular
Key differentiating features	<p>easy anesthesia access on the head end area, Smallest system footprint for spacious room around the table, Equipment positioning can easily switch from parking position to working position and vice versa, Equipment position may adjust easily to work around the staff, rather than the staff adjusting to equipment position, Synchronized collimator for patient oriented movement, 3D Acquisition from 3 sides (Head, Right and Left Patient), Smallest engine Cabinet Space requirement, Monitor size in Control Room 2 x 27 inch + 1 x min. 19 inch for Hemodynamic + 1 x min. 19 inch for informatic workstation monitors, Flexible layout settings during live examination (resize layout with pointer), Easy Connectivity with 3rd Party Equipment, Additional control on patient table side or pedestal with pad like touch screen module, 3D manipulation from patient table side by using touch screen module, Highest X-Ray Tube heat capacity and heat dissipation on the industry, One button to switch the gantry position from working position to parking position.</p>	<p>Mobile AGV gantry with OR table and customizable parking positions, designed to meet stringent or hygiene standards. Improve outcomes with wide bore offset C-arm and augmented reality 3-D guidance</p>	<p>impede laminar airflow in surgical environments - only the large display is mounted on the ceiling! Provides full range of multi-axis movement for variety of procedures, variable isocenter for any operator height. Patient weight limit 617 lbs, live 2K imaging</p>
What does your company do to integrate your imaging system into a cath lab or hybrid operating room (OR)	<p>3D Acquisition from 3 sides (Head, Right and Left Patient), System equipped with Conebeam CT application to accommodate the needs of CT like imaging inside the Hybrid OR room, Ability to acquire 3D images from head to toe of the patient without re-positioning the patient</p>	<p>The Discovery IGS 7 OR system comes with an interface kit to be connected with the compatible Maquet Magnus OR Table system; fully integrated with the 360 degree radiolucent and the universal table top</p>	<p>Work with major light, boom and video integration vendors for planning a hybrid OR; offer integrated surgical tables from Maquet and Trumpf, OR consultants available</p>
IMAGING FEATURES			
Radiation lowering/dose control features (including image reconstruction algorithms)	<p>Yes, embedded with Clarity IQ technology, proven in more than 5 scientific journal</p>	<p>Fluoro loop and store, virtual collimation, auto beam filters, selectable fluoro and acquisition levels at tableside, high DQE value in fluoro</p>	<p>CARE features allow positioning and collimation without X-ray; automatic copper filtration, noise reduction and image enhancement features allow low dose imaging; low dose DynaCT</p>
Radiation dose monitoring features (for staff and/or patients)	<p>Yes, available on monitor on exam room and operator room</p>	<p>Integrated dose monitoring as users can monitor and display air kerma, integrated air kerma over the exam, and total dose area product received by patient during procedure</p>	<p>CARE features allow visual and audio cues to view dose levels during procedure; standard DICOM SR dose reports</p>
Rotational angiography features	<p>Yes, available with SmartCT angio, and SmartCT SoftTissue (Conebeam CT application). Accessible control from touch screen module that can be put in pedestal inside the exam room or patient table</p>	<p>The offset C-arm permits fast-spin rotational angiography (range 200 degrees) at variable speeds from 16 to 40 degrees/s with flexible CRA/CAU oblique angulations</p>	<p>3-D acquisitions obtained at true 16 bit imaging; can support high contrast and soft tissue imaging; can also perform 2-D rotational angiography</p>
Time from acquisition to 3-D display	<p>Direct</p>	<p>Recon plus display: 34s in 512, 20s in 256</p>	<p>3-D reconstruction occurs immediately following acquisition</p>

Advanced visualization features on rotational angio	Available with SmartCT Roadmap, SmartCT Artefact Reduction and SmartCT VesselAnalysis, With SmartCT, user able to do the following from Touch Screen Module, With SmartCT VesselAnalysis, user able to do the following from Touch Screen Module	3-D reconstruction and visualization programs run on the GE Advantage Workstation with Volume Viewer	Various modes of imaging for low contrast, vessel fill, and no-binning 3 D zoom
Fusion imaging options	Available with MR/CT Roadmap, EP Navigator and VesselNavigator	Procedure specific fusion algorithms applied to overlay both the 2-D X-ray and any one of the 3-D images on the fused areas: EVAR ASSIST, LIVER ASSIST V.I., Valve ASSIST 2, Needle ASSIST, Vessel ASSIST	Yes, fuse 2-D imaging with CT, MR and PET/CT reconstructions using fusion software (2-D or 3-D). Real-time TEE fusion option available with SC2000 US
Procedural navigation aids	SmartMask, Dynamic Coronary Roadmap, SmartCT Roadmap, MR/CT Roadmap, EP Navigator, and Vessel Navigator. Another additional feature with IVUS	ASSIST advanced applications provide real time guidance to variety of procedures such as stent and needle guidance, structural heart, endovascular, interventional oncology and electrophysiology mapping	Siemens offers various automatic segmentation and navigation options for intraprocedural imaging for surgical, oncology, cardiac, and neurological procedures
Stent enhancement features	Optional : StentBoost Subtract	StentViz and StentVesselViz enable stent guidance, positioning and deployment in relation to the vessel wall; it is particularly useful in verifying placement of BRS, stents overlap or vs. bifurcations	CLEARstent and CLEARstent Live - real-time stent enhancement for facilitation of complex procedures
Optimization features for radial access	Capability of pivot table and also synchronized collimator rotation to obtain straight view during radial access	Dedicated arm trajectories achieved with robotic gantry optimizing operator placement.	Various system positions allow easy access to arm for radial access. Detector can rotate to maintain heads up view of arm in any position
Structural heart software	SmartCT Angio and SmartCT SoftTissue	Valve assist : dedicated software for structural heart procedures where you can use previous CT/MRA for planning using vessel analysis, mark out valve planes and 3D landmarks. Direct and easy overlay of CT/MRA 3D models onto live fluoroscopy without additional rotational angiography or contrast injection. that help user reduce contrast media usage up to ~78% during TAVI and LAAC procedures	No information
Unique/special imaging features	- Touch Screen Module PRO - ComfortThemes - Dynamic Coronary Roadmap - SmartCT Angio - SmartCT Roadmap - SmartCT Vessel Analysis - SmartCT SoftTissue - SmartCT Artefact Reduction - Dynamic Coronary Roadmap - SmartCT Angio - SmartCT Roadmap - SmartCT Vessel Analysis - SmartCT SoftTissue - SmartCT Artefact Reduction	Dynamic range management, AutoEx, automatic spectral filters, 3DCT, 3DCT HD, Medis OFR connexion, Carlo UNIVU connexion	CLEAR imaging features to optimize image quality and CARE features to optimize dose
Acquisition zoom	Yes	Yes	Yes
Tableside controls for above features	Yes	Yes	Yes
Can main display screen be sterilized for use in an OR	Yes, main display screen able to sterilized for use in an OR	Shields, monitors not sterilized since they are fixed equip; can be covered with sterile drapes. Exam room equipment including system, monitors, suspensions and accessories, can be disinfected with suitable liquid chemical germicide-bactericide and antiviral, equipment parts should be wiped with a damp cloth as directed by the instructions for use provided with the disinfecting liquid	Yes
Minimum room size to accommodate system, feet	Recommended minimum room size (limited movement capability) 64 meter square. The larger room size the better	21 ft8in x 17 ft 1 in	H: 8.5, L: 23.1, W: 18.8

Software packages available (EP, TAVR navigation, etc)	Coronary Advanced (Dynamic Coronary Roadmap and StentBoost Live), SmartCT, Vessel Navigator and EP Navigator	Stentviz, StentVesseViz, InnovaSpin, one touch QA, PCI ASSIST, Valve ASSIST 2, Needle ASSIST, Vessel ASSIST, EVAR ASSIST, Liver ASSIST V1, AngioViz, 3DCT, 3DCT HD, Innova Chase,	Yes, EP, TAVR, CTO, navigation packages are available
CONNECTIVITY			
Image/cine export formats to enable use in reporting systems and EMRs	Yes, available	DICOM 3, 1,024 x 1,024	AVI, BMP, JPG, DICOM
Other enhancements for interoperability	Easy connectivity to view 3rd party imaging video on the main monitor in the exam room	DICOM images output on 100 Mbit ethernet with autofocus and background transfer	N/S
PATIENT TABLE			
Motion	4-way float, raise/lower, pivot, longitudinal and lateral tilt are available options	8-way horizontal float	4-way float, raise/lower, pivot, longitudinal and lateral tilt are available options
Length x width, cm (inches)	319 cm	270 (106) x up to 46 - 52 (18 - 20.5)	Choice of 228 x 45, 228 x 52 and 263 x 52
Vertical range, cm (inches)	74.5 cm - 102.5 cm	60 (23.6)	75 - 110 (29.5 - 43.3)
Lateral range, cm (inches)	± 18 cm	Plus/minus 10 (3.9)	17.5 (6.9)
Longitudinal, cm (inches)	120 cm	Up to 100 cm(39)	125 cm(49.2)
Tilt, degrees	-16.5°/+16.5° iso-centric, Cradle tilting range: ±15°	Plus/minus 15	minus 20 degrees, plus 15 degrees
Maximum patient weight, lb.	275 kg	180 kg (396 lbs.)	617/ 279kg
X-ray density	0.8 mm Al equivalent	N/S	≤ 1.4 mm Al at 100 kV
Swivel, degrees	Swivel not needed since Azurion7 FlexArm a ceiling mounted system. Pivot range 90°/+180° or -180°/90°	N/S	Plus/minus 120 degrees with 3 degree increments
Table-mounted controls	Table control may be put in the pedestal or patient table mount	Maquet hand control at table side; others on cart	Yes
Use for surgery, hybrid OR	Yes	Yes	Yes
Other features	Able to do CPR at any position	A 20 KVA UPS, provides vital minutes of emergency table control and fluoroscopy	Exchangable table tops (card, wide, long, neuro) for optimized procedure workflow. Interface to Maquet and Trumpf fixed surgical tables is available
GANTRY			
Transverse motion of 3-axis gantry	Yes	Yes	Yes
Configuration	ceiling mount	Single plane flat panel	Floor mounted robotic arm
Depth, inch	90	42	37.5
Rotation range, degrees	In head-end position: 120° LAO, 185° RAO, in side position: 90° LAO, 90° RAO Speed up to 25°/sec and 55°/sec for rotational angio in head position. For FlexArm speed up to 25°/sec and 55°/sec for rotational angio in head position and 25°/sec and 40°/sec for rotational scan in side position	222	360
RAO projection, degrees	In head-end position: 185° RAO, in side position: 90° RAO	117	Max. RAO: 200
LAO projection, degrees	In head-end position: 120° LAO, in side position: 90° LAO	105	Max. LAO: 200
Cranial-to-caudal angulation, degrees	In head-end position: 90° cranial, 90° caudal up to 25°/sec. In side position: 185° cranial, 120° caudal up to 25°/sec.	50 cranial, 45 caudal	130
SID range, inch	89.5-119.5 cm (35.2-47 inch)	From 39 - 50 inc	39.37 - 51.18 inc
Motorized or manual	Yes, able to move motorized or manual	Motorized	Motorized
Counterbalanced	Yes	N/A	N/A
Support	Yes with ceiling rail	Advanced guided vehicle	Floor-mounted
Park capability	Yes	Yes, customizable	Configurable parking positions
Collision detection technology (type)	Yes, with BodyGuard	Software controlled mechanical sensors	Intelligent Collision Protection software; C-arm slows down as it approaches the patient's body; additionally, touch sensors on the system
Can gantry be parked out of the way to enable patient access for transport or surgical procedures	Yes	AGV moves freely from imaging position to parking or back-out positions using predefined trajectories	NO
X-RAY GENERATOR			

Model	Philips Azurion 7 FlexArm X-ray Generator	Jedi	Polytoros A100plus
Type	3 phase generator with MOSFET Technology	High frequency	High-frequency
Power rating, kW at 100 kVp	100kW	100 kW	100 kW
Dual or single inverter	Dual focus	Dual	Dual
Radiographic mA	1000	1 - 1,000	10 - 1,000
Radiographic kV	40-125	40 - 125	40 - 125
Radiograph timer	1ms-16 s (Adjustable in steps)	Controlled by AutoEx software	Yes
Fluoroscopic mA	10 mA - 160 mA (with grid control)	Automatic	0.5 to 50 mA, Pulsed 15 to 250 mA in 0.01 mA steps
Fluoroscopic kV	40 kV to 125 kV	60 - 120	40 to 125 in 0.1 kV steps
X-ray tubes, max. number	1 X-ray tubes	1	1
Pulsed fluoroscopy	3.75, 7.5, 15, 30 fps	Yes	Yes (0.5, 1, 2, 3, 4, 6, 7.5, 10, 15, 30 p/s)
Cine range, fps	0.5 to 1.2 fps	5, 7.5, 15, 30	Yes, 0.5, 1, 2, 3, 4, 6, 7.5, 10, 15 and 30 fps, 60 fps options
Full in-room control	Yes	Yes	Yes
Collimation	Synchronized	Collimation blades with software-controlled spectral filters and integrated contour filter blades	Yes, without need for radiation or during real-time imaging.
X-RAY TUBE			
Power rating, kW Wp at 100 kVp	100	100	90
Housing heat storage capacity, HU	9 400 000	6 900 000	6 900 000
Anode capacity, MHU	6,4	3,7	5,2
Anode housing	Metal	180 A metal	Aluminum
Heat dissipation rate, HU/min	1,75 KHU/min	544 KHU/min	1.52 MHU/min
Focal spot size, mm	0.4 mm and 0.7 mm	0.3, 0.6 and 1	0.3, 0.4 dan 0.9
Grid pulsed	Yes	Yes	Yes
Target angle, degrees	11°	11,25	Anode angle = 11.5
Cooling system	Cooling liquid: Oil cooled X-ray tube with thermal safety switch	Water closed loop	Oil and water cooling system
Liquid bearing	Cooling liquid: Oil cooled X-ray tube with thermal safety switch	No	Yes
Connectivity to hard copy devices	Yes	DICOM print	N/S
Redundant focal spots	Yes	0.6/1 mm cine/digital; 0.3b /0.6 /1 mm radiographic	Yes
DIGITAL DETECTOR			
Type (aSi, aSe)	Yes	aSi	Cst with crystalline silicon
Dimensions, cm x cm	30 x 40	IGS 730: 31 x 31; IGS 740: 41 x 41	30 x 40
Spatial resolution	3.25 lp/mm	2.5 lp/mm	3.12 lp/mm
Matrix	1920 x 2480	IGS 730: 1,536 x 1,536; IGS 740: 2,048 x 2,048	2,496 x 1,856 pixels
Pixel size	154 µm x 154 µm	200 x 200 microns	160 microns
Bit depth	16 bit	Acquisition data 14 bits	16 bit
Field of view (FOV), size (L x W), cm	Active imaging size 38,2 cm x 29,5 cm	IGS 730: 30 cm at 750 x 750, 20 cm at 1,000 x 1,000, 16 cm at 800 x 800, 12 cm at 608 x 608, IGS 740: 40 at 1,000 x 1,000, 32 cm at 800 x 800, 20 cm at 1,000 x 1,000, 16 cm at 800 x 800	Full field: 38 x 30, diagonal 48; zoom 1: 30 x 30 , diagonal 42; zoom 2: 22 x 22, diagonal 32; zoom 3: 16 x 16, diagonal 22; zoom 4: 11 x 11, diagonal 16; zoom 5: 8 x 8; diagonal 11
Imaging area standard Size, cm	Active imaging size 38,2 cm x 29,5 cm	IGS 730: 31 x 31cm IGS 740: 41 x 41 cm	See above cell
Max frame rate, fps	60 fps	50	up to 60f/s
Additional features	Synchronized rotatable collimator	Dynamic range management, Auto-EX, smart automatic brightness detection	Portrait, landscape and points in between; gantry control buttons located on detector housing
ACQUISITION WORKSTATION			
Workstation	Yes	Innova DL	Yes
Monitor, size, inches	1 x 58 inch Medical Grade Monitor	19 in diagonal live and ref	24 (cockpit option 30)
Hard disk capacity	SuitePC SSD 240 GB, Xray PC HDD 1TB, SSD 480 GBx2 (will be given following the latest update of technology)	Record: 136,000/DSA 68,000	25,000 - 200,000 images in 1k/12-bit matrix, 25,000 images in 2k/12-bit matrix
Memory	minimum 8 GB (will be given following the latest update of technology)	N/S	4 GB for IVS and 2 GB for IAS
Networking capabilities	Yes	Ethernet	Ethernet, full-duplex, gigabit switch
Gray levels	256	Record: 8 bit, DSA 16 bit	1k/12-bit matrix (4,096)
DICOM compliant	Yes	Yes	Yes
True multitasking or simultaneity	Yes, with Instant Parallel Working	Yes	Yes
DICOM store	Yes	Yes	Yes
DICOM print	Yes	On display workstation	Yes
DICOM modality worklist management	Yes	Yes	Yes
DICOM storage commitment	Yes	Yes	Yes

DICOM query and retrieve	Yes	On display workstation	Yes
DICOM performed procedure step	Yes	Yes	Yes
Additional features (space permitting)	DVD Burner and USB export	Two optional workstations, the AW VolumeShare and the CA 1,000 can be connected to the system	Connect to other Siemens angiography systems
REVIEW WORKSTATION			
Workstation	Integrated with Acquisition workstation	AW VolumeShare WS	Integrated into acquisition workstation above
Monitor, size, inches	2x27inch	Dual 19 in diag. color	N/A
Hard disk capacity	1TB SSD SATA	2 x 146 GB	N/A
Memory	32GB SD RAM	4 GB standard up to 16 opt.	N/A
Networking capabilities	Integrated with Acquisition workstation	Ethernet 10/100/1,000 mbits	N/A
Archive/storage	DVD, DICOM NETWORK	CD/DVD, USB, USB disk	DVD/ CD-ROM, exchange ke DICOM format
Type	Integrated with Acquisition workstation	DVD disc, USB stick, USB disk	DICOM 3.0
Capacity	Integrated with Acquisition workstation	300,000 limit USB, DVD variable	N/A
Gray levels	Integrated with Acquisition workstation	12 bits	N/A
DICOM compliant	Integrated with Acquisition workstation	Yes	N/A
Additional features (space permitting)	Integrated with Acquisition workstation	Post fetch, IHE key image notes, preference sharing, save XA, IVUS image, multimodality volume viewer, gantry navigation, custom protocols, wide analysis capability	Connect to other Siemens angiography systems and capability of processing DICOM compliant 3-D datasets. View any image with (viewing option)
Sync Vision	No	Yes	No

Note : Cathlab merek PHILIPS untuk RSUD M.Natsir

IV. Rapat Tim HTA Pengadaan CATHLAB RSUD Mohammad Natsir dengan Penyedia CATHLAB :



PEMERINTAH PROVINSI SUMATERA BARAT
BADAN LAYANAN UMUM DAERAH
RSUD MOHAMMAD NATSIR

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rsudmohammadnatsir@sumbarprov.go.id



Nomor : 030 / 41 / Umum / 2022
Lamp : -
Perihal : Pertemuan dengan Vendor Cathlab
(PT. Philip)

Solok, 12 Oktober 2022

Kepada Yth.

- Manajemen
 - DPJP Jantung
 - DPJP Radiologi
- RSUD Mohammad Natsir
di Tempat

Dengan Hormat,

Sebelumnya kami doakan semoga Bapak/Ibu dalam keadaan sehat wal afiat. Amin Ya Rabbal Alamin. Dalam rangka pertemuan dengan Vendor Cathlab (PT. Phillip) kami mengundang Bapak/ibu untuk hadir pada :

Hari/Tanggal : Kamis, 13 Oktober 2022
Waktu : Pukul 09.00 Wib s/d Selesai
Tempat : Ruang Direktur
Acara : Pertemuan dengan Vendor Cathlab (PT. Phillip)

Demikian disampaikan untuk dapat dihadiri. Atas perhatiannya kami ucapkan terimakasih.



Direktur

dr. H.M. Elhaneti, Sp.PD, FINASIM
NIP. 19710514 200212 2 002



PEMERINTAH PROVINSI SUMATERA BARAT
BADAN LAYANAN UMUM DAERAH
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DAFTAR HADIR PERTEMUAN RAPAT

Hari : Kamis
Tanggal : 13 OKTOBER 2022
Waktu : 09.00 - WPS
Tempat : RUANGAN DIREKTUR
Acara : PERTEMUAN DGN VENDOR CATHLAB (PT PHILIPS)

NO	NAMA	JABATAN	TANDA TANGAN	KET
1	Efendi Firmid	Direktur	[Signature]	
2	Johan Kurnias	Wakil Kepala	[Signature]	
3	Wilustran Dewa	Kabid Polyan	[Signature]	
4	Harun	Kabid Kes	[Signature]	
5	Sulman	SVK	[Signature]	
6	Sulung	Kabid Antra	[Signature]	
7	Indra Asrar	Fidysunil	[Signature]	
8	Rahmat	Fabriz Pungsi	[Signature]	
9	Hopri	Asst	[Signature]	
10	Evo Masari	At. Kabadalah	[Signature]	
11	Eko Budi R	Pl. AHEKA	[Signature]	
12	Hilma	- - -	[Signature]	
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PEMERINTAH PROVINSI SUMATERA BARAT
BADAN LAYANAN UMUM DAERAH
RSUD MOHAMMAD NATSIR

Jl. Simpang Nambur Kota Sukoh - Tel: (0755) 20903 - Faks: (0755) 20003
E-mail: rsud.mohammad@sumbarprov.go.id



NOTULEN

Rapat : MEETING DG UENYON CATHLAS (PHILIPP)
Hari / Tanggal : KAMIS / 15 OKTOBER 2022
Waktu : 09.00 WIB
Tempat : RUANGAN DIREKTUR

Dihadiri Oleh :

1. DIREKTUR
2. WAKIL PELAYANAN
3. PADW PENJAJANG
4. PPSP SANTUNG & RADIOLOGI
5. PABID KEPERAWATAN & MEDIS

Pembahasan :

PIHAK PENYEDIA MENYAMPAIKAN SAHAB :

1. TEKAIT DENGAN MASA PERAKSIAN YG SINGKAT, USUHAN AKAN
MENTINGIN DENGAN PROGRES TANG CEPAT, BIKAN SAAT INI KONDISI
DIA DILAH NERKI (BERAPA)
2. SEIUA PERGAI ETIMAI ALAT DIPEKERATI SAMPAI UNTAR 10 PERMOR 22
3. UNTUK PELANIHAN TERAGA MERIS & PERAWAT AKAN DIKESAMAKAN
SEBESKA MUNGKIN MENUNGGU INI VARI PIHAK KS PENERIMA.
4. DISEKALATI SEBANYAK 2 ORG TERAGA KEPERAWATAN AKAN
DITANGGUNG OLEH PENYEDIA UTK PELANIHAN

Kesimpulan/ Penutup :

Notulen

(Signature)

