

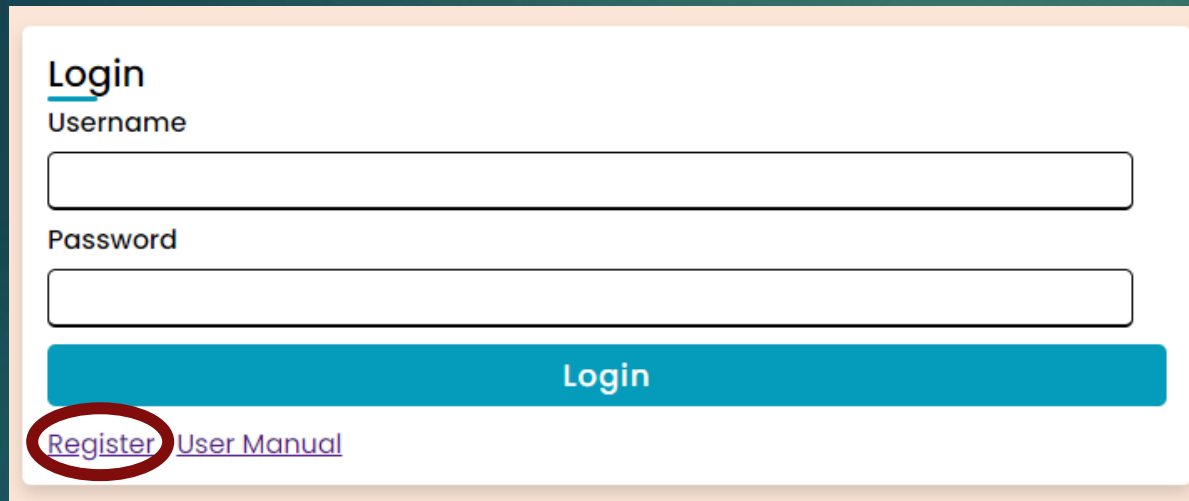


USER MANUAL

SISTEM ECHOCARDIOGRAM

echo.htar.gov.my

Registration



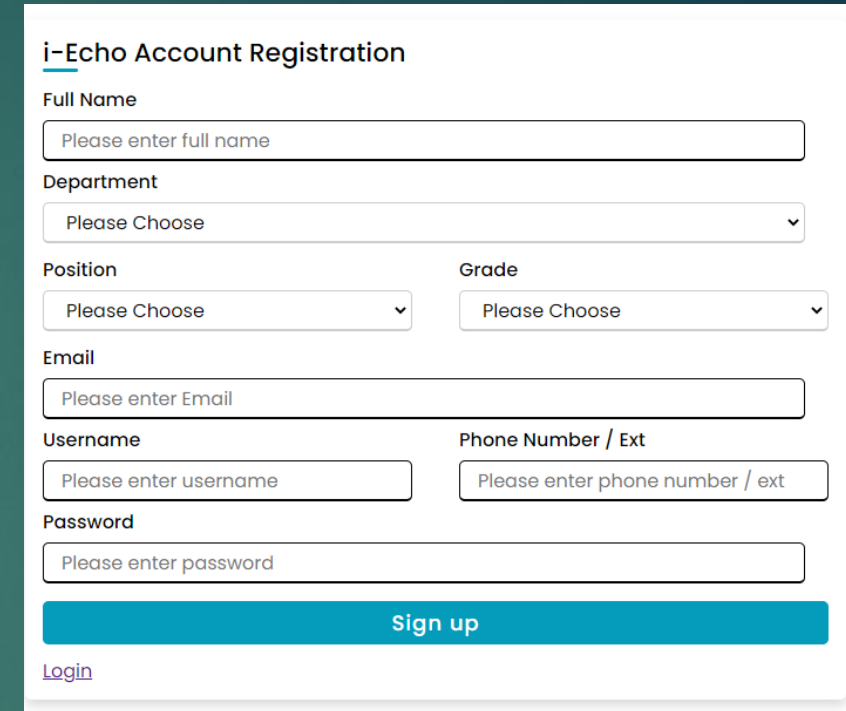
Login

Username

Password

Login

[Register](#) [User Manual](#)



i-Echo Account Registration

Full Name

Department

Position

Grade

Email

Username

Phone Number / Ext

Password

Sign up

[Login](#)

- User need register first and wait for admin to approve
- After admin approve user can login to this system

User Role : Create Appointment

Create New Appointment

[Patient](#) [Appointment](#) [Search Patient](#) Account Logout

Patient Echocardiogram List

Please Choose

Appointment Status Echo Status

6 record found

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

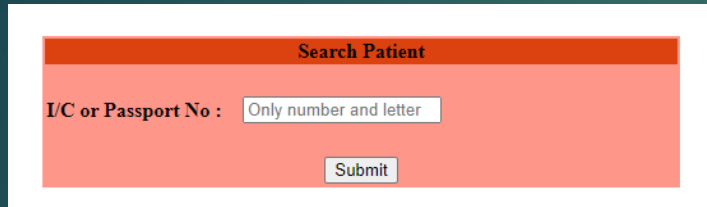
Reg Date	Name	IC/Passport	Covid	App Date	App Time	Indication	Urgency	Status	Action	Reason
14/07/2022	Hidayah	88121210625	Negative			•To rule out pericardial effusion or cardiac tamponade •Maternal Indication	NO	Pending Appointment		
14/07/2022	Hazwani	780208102658	Positive			•To rule out infective endocarditis	YES	Pending Appointment		
19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	View Details	Maklumat Tidak Lengkap
14/07/2022	Hafiz	950901104563	Unknown			•Maternal Indication	YES	Patient Rejected	View Details	-
14/07/2022	Hannah	U59974	Negative	27/08/2022	03:00:pm	•To rule out cardiac thrombus	YES	Report Ready (Not Validated)	View Details	
14/07/2022	Terry	S54624	Positive	23/08/2022	02:15:pm	•Pre-operative cardiac assessment	YES	Report Ready (Validated)	View Details	

Print echo result

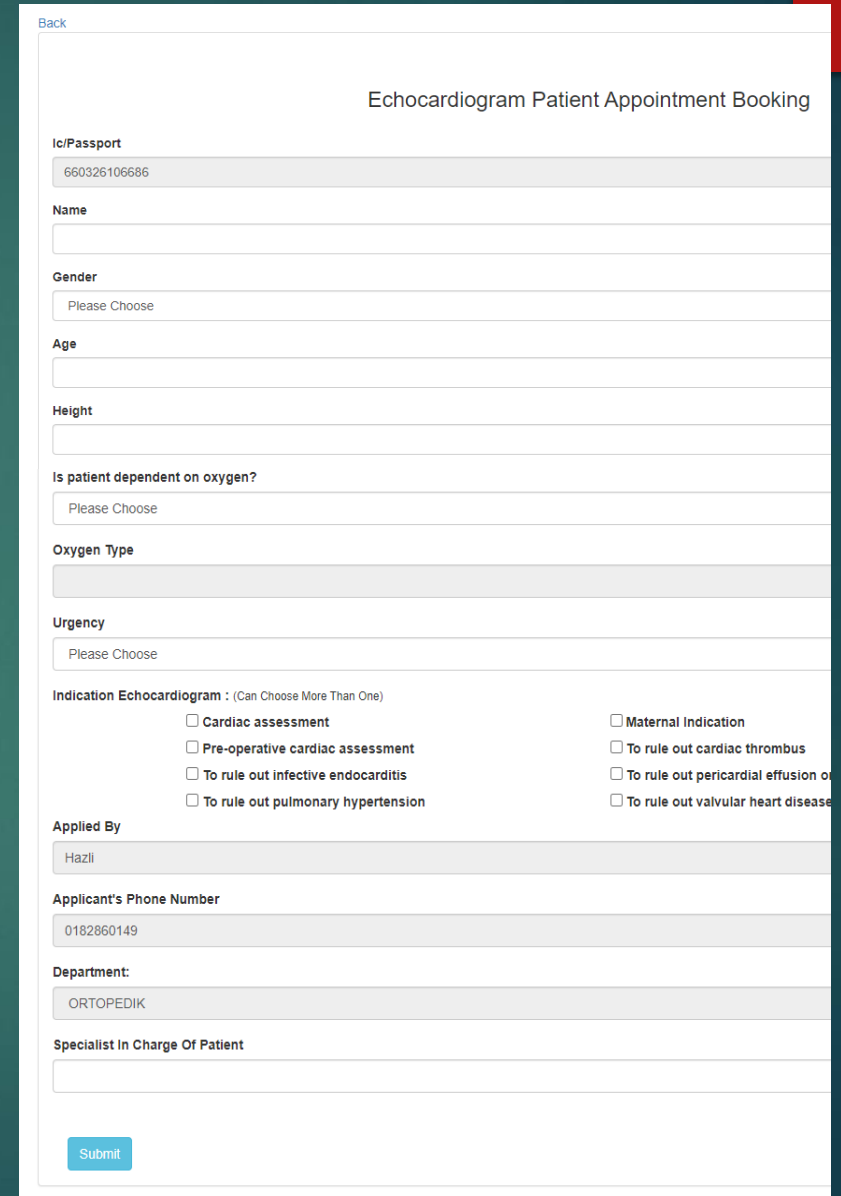
Patient Table that create by user account

View Patient Details

User Role : Create Appointment



A search form titled "Search Patient" with a red header. Below the header is a text input field labeled "I/C or Passport No :" with a placeholder "Only number and letter". At the bottom right of the form is a "Submit" button.



A detailed appointment booking form titled "Echocardiogram Patient Appointment Booking" with a "Back" link at the top left. The form contains the following fields:

- Ic/Passport**: Text input field with value "660326106686".
- Name**: Text input field.
- Gender**: Dropdown menu with value "Please Choose".
- Age**: Text input field.
- Height**: Text input field.
- Is patient dependent on oxygen?**: Dropdown menu with value "Please Choose".
- Oxygen Type**: Text input field.
- Urgency**: Dropdown menu with value "Please Choose".
- Indication Echocardiogram : (Can Choose More Than One)**: A group of checkboxes:
 - ☐ Cardiac assessment
 - ☐ Pre-operative cardiac assessment
 - ☐ To rule out infective endocarditis
 - ☐ To rule out pulmonary hypertension
 - ☐ Maternal Indication
 - ☐ To rule out cardiac thrombus
 - ☐ To rule out pericardial effusion or
 - ☐ To rule out valvular heart disease
- Applied By**: Text input field with value "Hazli".
- Applicant's Phone Number**: Text input field with value "0182860149".
- Department:**: Text input field with value "ORTOPEDIK".
- Specialist In Charge Of Patient**: Text input field.

At the bottom right of the form is a blue "Submit" button.

- Enter IC or Passport patient, if existing patient the data like Name, Gender, Nationality will be auto fulfil at the form
- Fill all the information then submit
- Then, admin will give the appointment date

User Role : Edit Patient Details

[Patient](#) [Appointment](#) [Search Patient](#) Account Logout




Patient Echocardiogram List

Please Choose

Appointment Status Echo Status

6 record found

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

Reg Date	Name	IC/Passport	Covid	App Date	App Time	Indication	Urgency	Status	Action		Reason
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14/07/2022	Hazwani	780208102658	Positive			•To rule out infective endocarditis	YES	Pending Appointment			
19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	View Details		Maklumat Tidak Lengkap
14/07/2022	Hafiz	950901104563	Unknown			•Maternal Indication	YES	Patient Rejected	View Details		-
14/07/2022	Hannah	U59974	Negative	27/08/2022	03:00:pm	•To rule out cardiac thrombus	YES	Report Ready (Not Validated)	View Details		
14/07/2022	Terry	S54624	Positive	23/08/2022	02:15:pm	•Pre-operative cardiac assessment	YES	Report Ready (Validated)	View Details		

Edit Patient Details

- Only can edit patient details if status in pending appointment only

User Role : Search Patient

Patient Appointment Search Patient Account

Patient Echocardiogram List

Please Choose

Appointment Status Echo Status

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

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19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	View Details	Maklumat Tidak Lengkap
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14/07/2022	Hannah	U59974	Negative	27/08/2022	03:00:pm	•To rule out cardiac thrombus	YES	Report Ready (Not Validated)	View Details	
14/07/2022	Terry	S54624	Positive	23/08/2022	02:15:pm	•Pre-operative cardiac assessment	YES	Report Ready (Validated)	View Details	

Search By Status

Patient Appointment Search Patient Account

Patient Echocardiogram List

099241 Please Choose

Appointment Status Echo Status

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

6 record found

Reg Date	Name	IC/Passport	Covid	App Date	App Time	Indication	Urgency	Status	Action	Reason
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14/07/2022	Hazwani	780208102658	Positive			•To rule out infective endocarditis	YES	Pending Appointment		
19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	View Details	Maklumat Tidak Lengkap
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14/07/2022	Terry	S54624	Positive	23/08/2022	02:15:pm	•Pre-operative cardiac assessment	YES	Report Ready (Validated)	View Details	

Search By: Name ,
Ic/Passport/Date/Urgency

Need to fill the space **FIRST**
then choose the option at
dropdown

User Role : Search Patient

Search patient from all user are request
echo

[Patient](#)[Appointment](#)[Search Patient](#)[Account](#)

Search Patient

Enter Name / IC / Passport FIRST, then select the dropdown on the right

Please Choose ▾

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

Reg Date	Name	IC/Passport	Covid	App Date	App Time	Indication	Urgency	Status	Action	Reason	Applied By
----------	------	-------------	-------	----------	----------	------------	---------	--------	--------	--------	------------

Search By: Name ,
Ic/Passport/Date/Urgency

Need to fill the space FIRST
then choose the option

User Role : Search Patient

[Patient](#) [Appointment](#) [Search Patient](#) Account Logout

Patient Echocardiogram List

Please Choose

Appointment Status Echo Status

6 record found

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

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14/07/2022	Hazwani	780208102658	Positive			•To rule out infective endocarditis	YES	Pending Appointment		
19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	View Details	Maklumat Tidak Lengkap
14/07/2022	Hafiz	950901104563	Unknown			•Maternal Indication	YES	Patient Rejected	View Details	-
14/07/2022	Hannah	U59974	Negative	27/08/2022	03:00:pm	•To rule out cardiac thrombus	YES	Report Ready (Not Validated)	View Details	
14/07/2022	Terry	S54624	Positive	23/08/2022	02:15:pm	•Pre-operative cardiac assessment	YES	Report Ready (Validated)	View Details	


Print Report. Can only print if report are ready and validated

Admin Role

Admin Role

- All functionality in user account, admin can do

Edit Department,
Position and user

 Patient

Department

Position

User

Echo Statistics

Patient Statistics

Heart Failure Statistics

Account

Logout

Patient Echocardiogram List












Please Choose

Appointment Status

Echo Status

18 record found

☐ Pending Appointment ☐ Pending For Echo Procedure ☐ Patient Rejected ☐ Report Ready (Not Validated) ☐ Report Ready (Validated)

Reg Date	Name	IC/Passport	Covid	App Date	App Time	Indication	Urgency	Status	Action	Reason
14/07/2022	Hidayah	88121210625	Negative			•To rule out pericardial effusion or cardiac tamponade •Maternal Indication	NO	Pending Appointment	 View Details	
14/07/2022	Hazwani	780208102658	Positive			•To rule out infective endocarditis	YES	Pending Appointment	 View Details	
14/09/2022	Mrs Yeoh	099241	Negative	15/09/2022	10:33:am	•Pre-operative cardiac assessment	YES	Pending For Echo Procedure	 View Details	
19/07/2022	Ahamd Dasuki	890743124056	Positive	02/09/2022	02:02:pm	•Maternal Indication	YES	Pending For Echo Procedure	 View Details	
19/07/2022	Mrs Yeoh	099241	Negative			•To rule out pulmonary hypertension	NO	Patient Rejected	 View Details	Maklumat Tidak Lengkap
14/07/2022	Charlie	R52941	Positive	19/07/2022	10:45:am	•Maternal Indication	NO	Report Ready (Validated)	 View Details	
14/07/2022	Sharon	L51354	Unknown	16/07/2022	04:00:pm	•To rule out infective endocarditis	YES	Report Ready (Validated)	 View Details	

Set appointment
date and time

Fill echo report

Print Echo Result

Admin Role : Set Appointment Date And Time

Patient Details			
IC/Passport	88121210625	Name	Hidayah
Gender	Female	Age	34
Height	170	Weight	50
Nationality	Malaysian		
Inpatient/Outpatient	Outpatient (Non HTAR)	Ward	
Covid Status	Negative	Patient Clinical History	Operation
First Time Patient Is Referrer For Echocardiogram?	NO	Patient Previous Echocardiogram (Month/Year)	2017
Place	-		
Is patient dependent on oxygen?	YES	Oxygen Type	O2
Urgency	NO	Indication Echocardiogram :	To rule out pericardial effusion or cardiac tamponade Maternal Indication
Applied By	Hazlin	Applicant's Phone Number	0182860149
Department:	ORTOPEDIK	Specialist In Charge Of Patient	Dr Lee

Booking Appointment

Status Appointment:

Pending Appointment

Reason rejected application

Appointment Date

dd/mm/yyyy

Appointment Time

--:-- --

Submit

Update the status, If
choose rejected
need to give the
reason

Set appointment
date and time

Admin Role : Fill Echo

[Back](#)

ECHOCARDIOGRAM REPORT

1) Patient & Vital Signs Information

Name : Mrs Yeoh
IC/Passport : O99241
Age : 0 Gender : Male Ward/Unit : Wad 3a
Height : try cm Weight : try kg
BSA : 0 m2

Date :

Time:

☐Native Valve ☐Prosthetic Valve ☐Normal ☐Abnormal

Assessment (2D/Color Doppler/Spectra Doppler)

10) Pulmonary Valve

☐Native Valve ☐Prosthetic Valve ☐Normal ☐Abnormal

Assessment (2D/Color Doppler/Spectra Doppler)

11) Left Ventricular (LV) Systolic Function

Simpson = % (☐Biplane / ☐Monoplane)

Regional Wall Motion Abnormalities (RWMA):
☐YES ☐NO

12) Mitral Valve Inflow Profile:

E velocity = cm/s
E/A ratio =
Deceleration Time (DT) = msec

Pulmonary Venous Flow Profile :

Systolic flow velocity (S) = cm/s
Diastolic flow velocity (D) = cm/s
PV S/D ratio = cm/s
Atrial reversal flow velocity (Ar) = cm/s
Atrial reversal flow duration = msec

Tissue Doppler Imaging (TDI):

16) Other Echo Findings

17) Echo Diagnosis

18) Conclusion Of Echo Assessment

☐Normal Echo ☐Abnormal Echo

Reported By:

- Fill echo result, then submit
- Verifier will verify this report, then user can print

Admin Role : Approve and Edit User

User Registration List

Filter

[+ ADD USER](#)

No	Date Register	Full Name	Department	Email	Level	Action
1	2021-10-04 10:03:43	itverify	MOPD	verify@moh.gov.my	VERIFY	Edit ✓ Activated
2	2022-03-23 14:07:50	itadmin	MOPD	amirul@moh.gov.my	ADMIN	Edit ✓ Activated
3	2022-03-29 11:29:42	ituser	UNIT IT	ashrahzaiddi@moh.gov.my	USER	Edit ✗ Deactivated
4	2022-08-25	Nur Azikin binti Mohd Yusop	MOPD	azikin.yusop@gmail.com	ADMIN	Edit ✓ Activated

Add new user

Activated or Deactivated user account. By default, If a user registers for the first time, the account must be activated by the admin.

Edit User Profile, except password

Admin Role : Approve and Edit User

[Back](#)

Full Name:
itverify

Department:
MOPD

Position:
PEGAWAI PERUBATAN

Grade:
UD44

Phone Number / Ext:
019974066

Email:
verify@moh.gov.my

Username:
itverify

User Level:
VERIFY
ADMIN
USER
VERIFY

Choose user level

Admin Role : Add or Edit Department and Position

Add Department
and Position

Department

Please Choose ▾

+ Department

No	Department	Action
1	MOPD	✓ Activated
2	ORTOPEDIK	✓ Activated
3	SOPD	✓ Activated
4	UNIT IT	✓ Activated

Position List

Please Choose ▾

+ Position

+ Grade

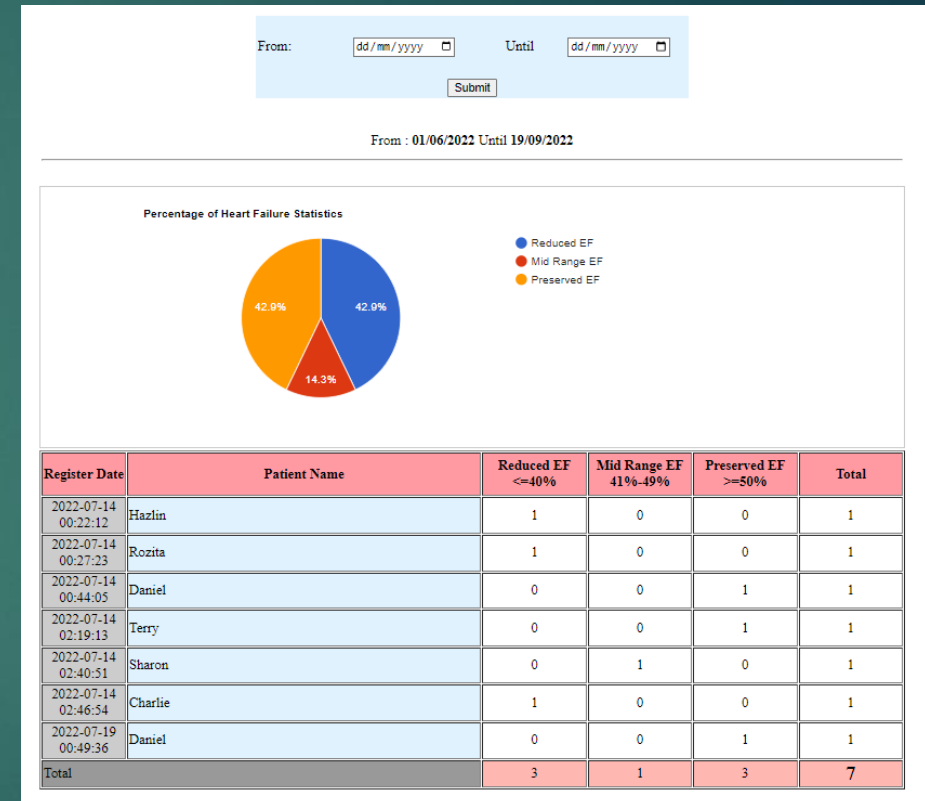
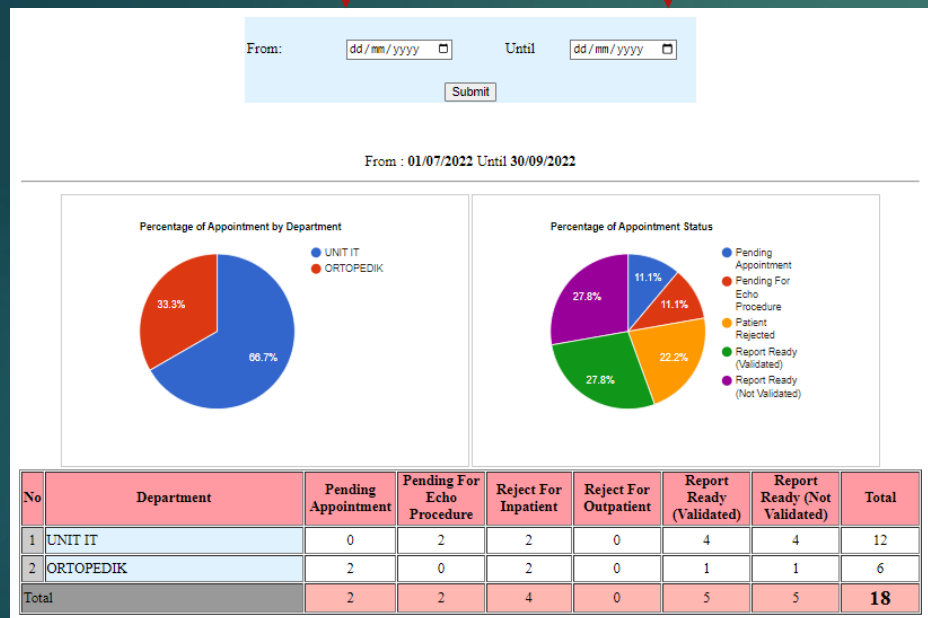
No	Position	Grade
1	JURURAWAT	U29 ✓ Activated
		U41 ✓ Activated
2	JURURAWAT MASYARAKAT	U19 ✓ Activated
		U24 ✓ Activated
3	PEGAWAI FARMASI	UF41 ✓ Activated
		UF44 ✓ Activated

Click the word to
edit

Activated and
inactivated

Admin Role : Statistic Report

Choose Date,
Then submit







- For date are based on patient register date

Verifier Role

Verifier Role : Verify Report

- All functionality in Admin account, verifier can do accept edit patient, user , department and position

14/07/2022	Sherry	W87574	Unknown	29/07/2022	08:00:am	<ul style="list-style-type: none">•To rule out cardiac thrombus•To rule out pericardial effusion or cardiac tamponade•To rule out valvular heart disease	NO	Report Ready (Not Validated)	View Details		
14/07/2022	Rozita	680110105834	Unknown	28/07/2022	03:00:pm	<ul style="list-style-type: none">•Pre-operative cardiac assessment•To rule out cardiac thrombus•To rule out pulmonary hypertension•To rule out valvular heart disease	NO	Report Ready (Not Validated)	View Details		
14/07/2022	Charlie	R52941	Positive	19/07/2022	10:45:am	•Maternal Indication	NO	Report Ready (Validated)	View Details		
								Report Ready	View Details		

16) Other Echo Findings

6.44

17) Echo Diagnosis

6.3

18) Conclusion Of Echo Assessment

☒ Normal Echo ☐ Abnormal Echo

Reported By:

amirulverify

Verify By:

amirulverify

☒ **Verification** (Please Click If To Verify, Then Submit)

SUBMIT

Click Icon

Tick to verify. If not, report can edit and the status are not validated