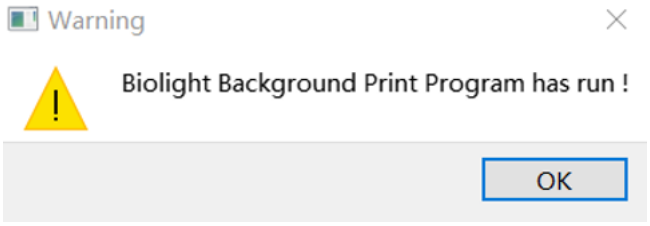
P/S SERIES PRINTING THROUGH PC GUIDE

1. Patient monitor needs to be connected to the computer through network (Example of IP address: Monitor – 192.168.1.XXX； PC – 192.168.1.XXX). To test whether the connection is successful, you can check it by ping it in the terminal.
2. Ensure PC is connected to the printer (Printer driver needs to be installed).

Instructions:

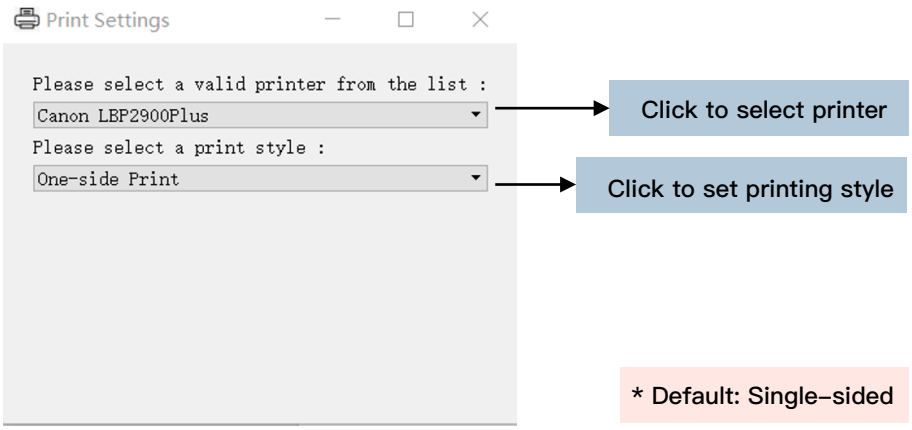
1. Installation package will be provided, extracts the .Zip file into any path.
2. After extraction, open the print server v1.1 folder, open exe folder and look for miniprogram.exe. Double-click on miniprogram.exe to run the program.
3. The program only supports single instances, and if try multiple run, a warning will pop up to alert you that's already running, operating process can be viewed in the taskbar. Warnings as shown in the following figure:



If you don't see it, it's probably hidden. Click the Show Hidden Tasks button in the taskbar. Please ensure this program is running when start the PC.

Printer settings:

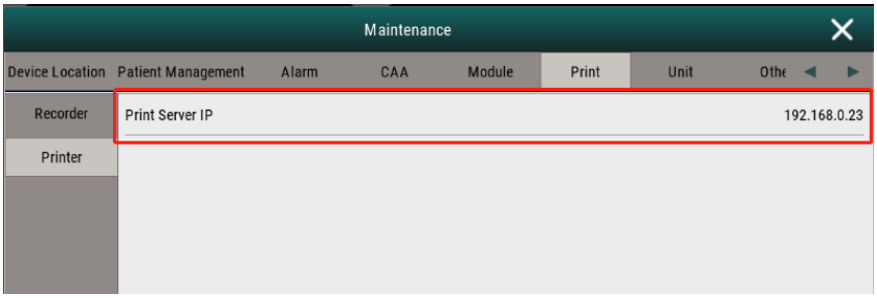
4. Printer needs to be configured before working properly. Upon first operation of the program, printer setup window will pop up and require user to select a printer from list. As shown in the following figure:



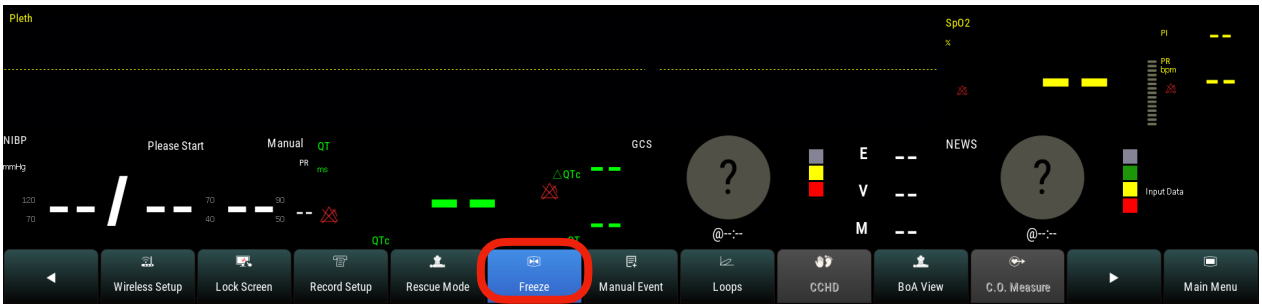
5. If there are multiple printers installed, you can try to print any pdf (such as test.pdf) to clarify the working printer, the software does not specify the working printer.

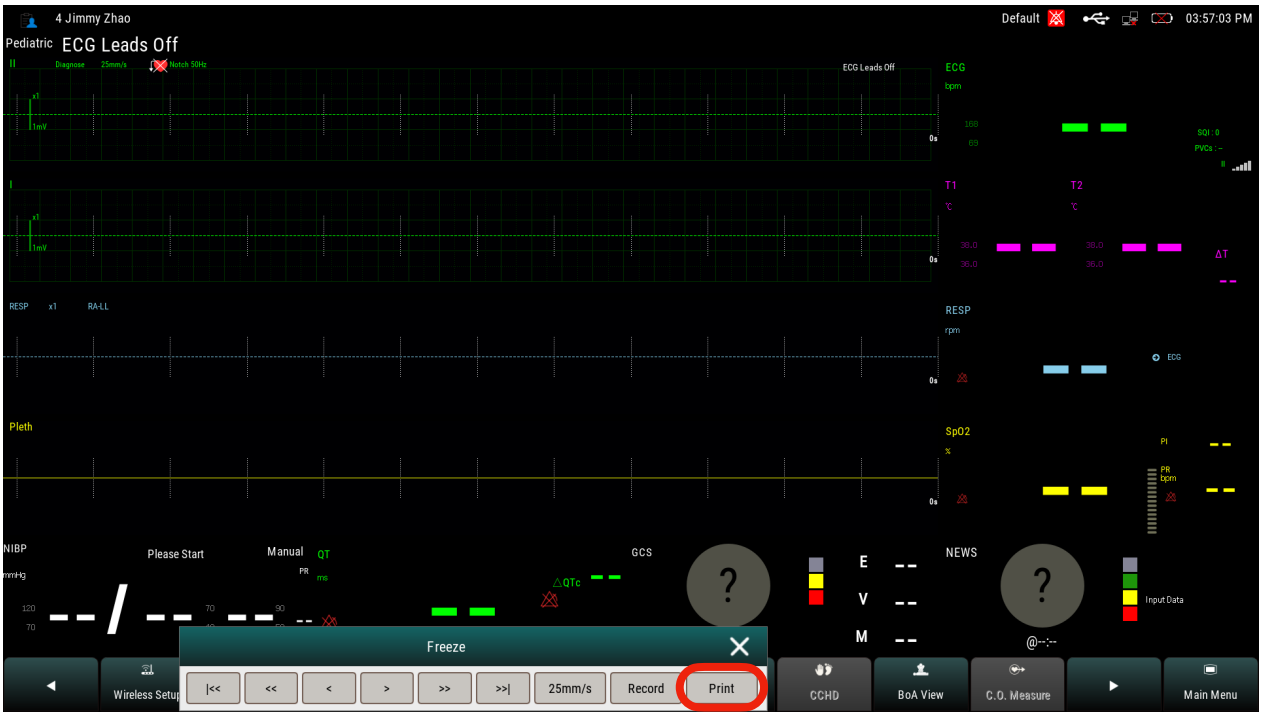
Monitor settings:

1. Printing program act as a server, and IP address of PC need to be set on patient monitor.
2. After obtaining the IP of the PC, go to Maintenance of patient monitor and input Maintenance password (**785623**) ⇢ Printing ⇢ Printer, set the printing service IP, as shown in the following figure:

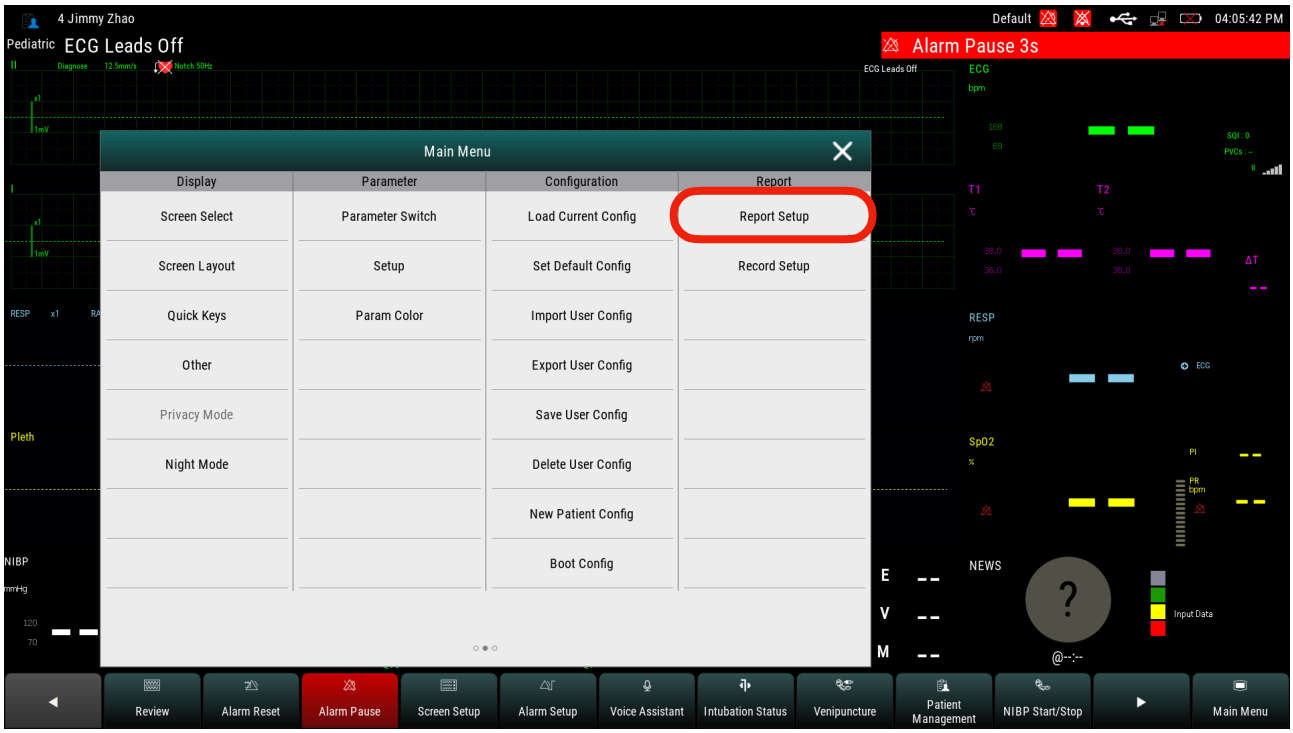


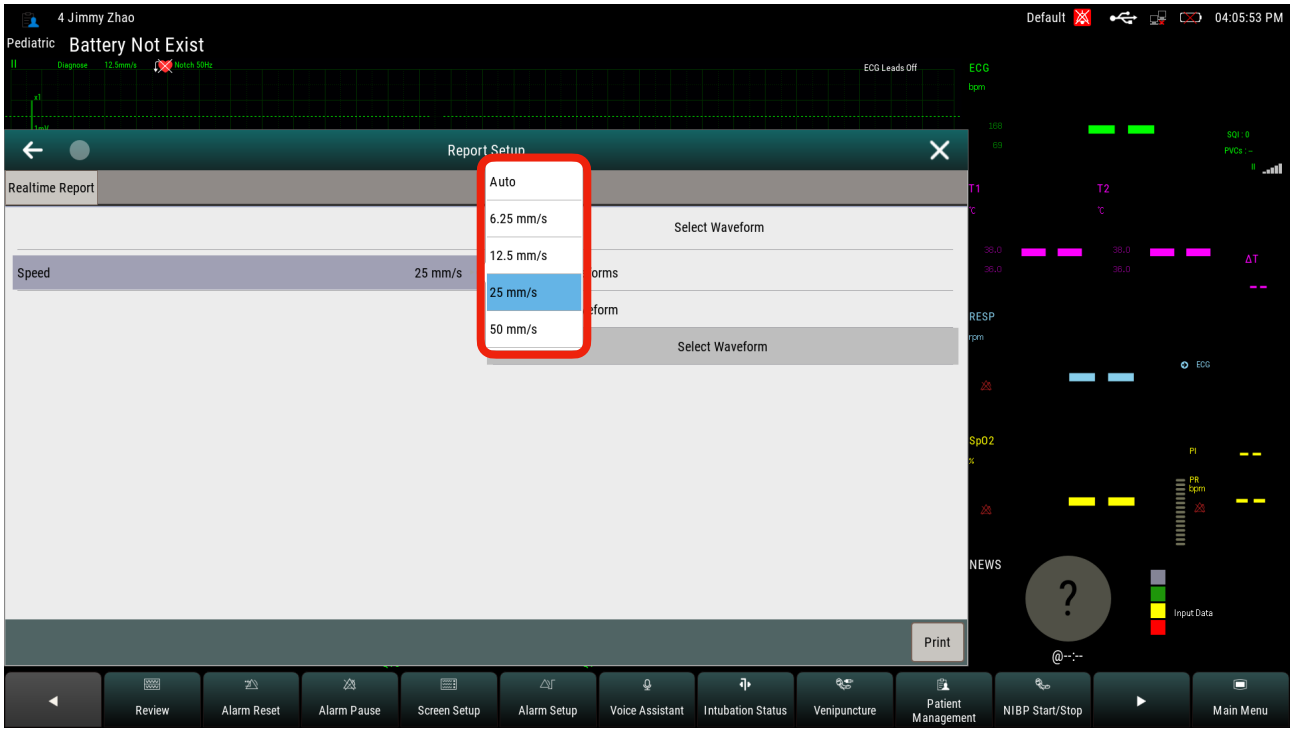
3. After setting up, **Freeze waveform** or **Real-time waveform** can be printed from the P Series Monitor by pressing respective tab as shown in the following figure:



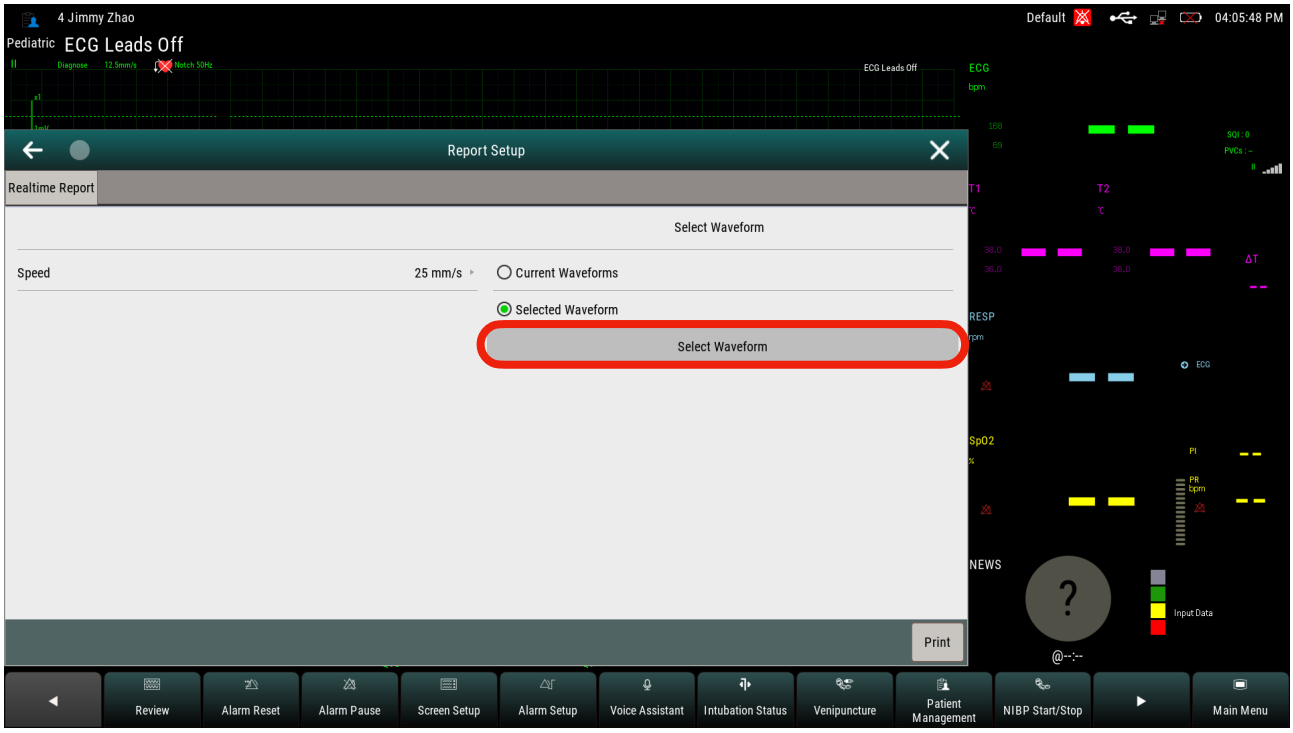


Follow the step to set up report.

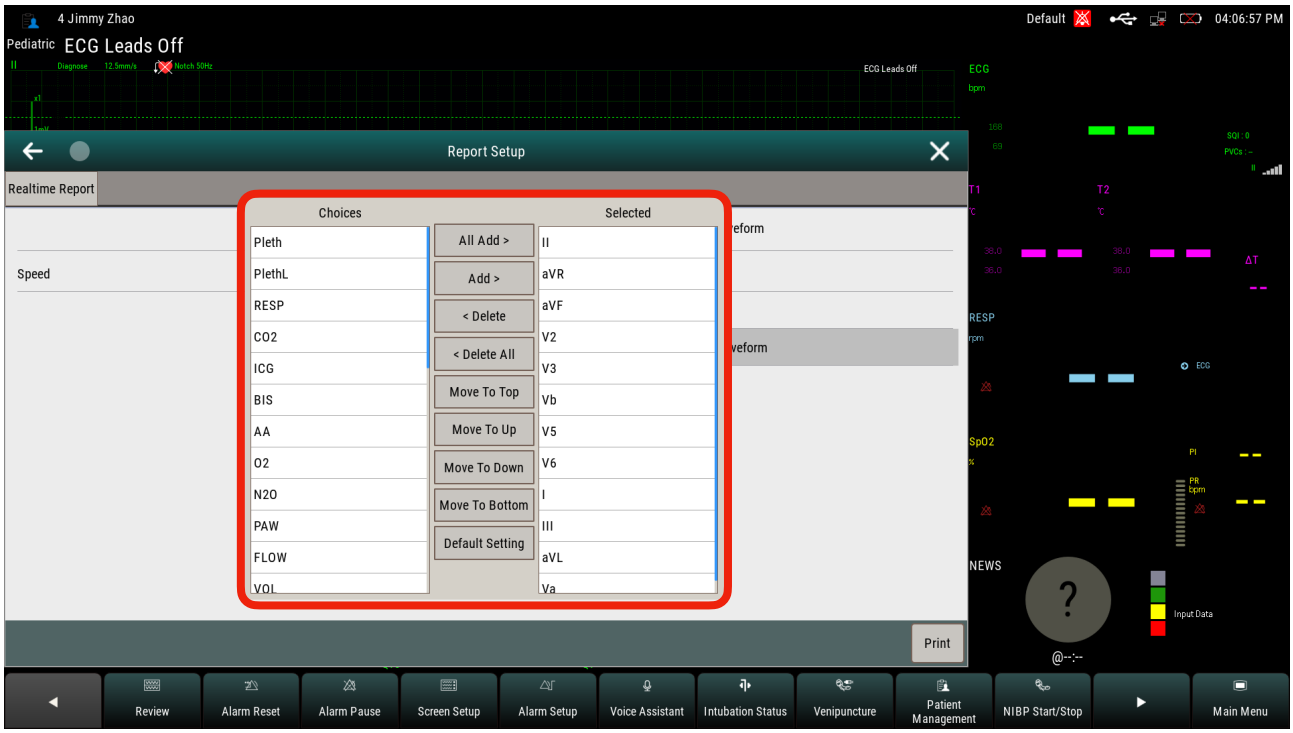




Waveform speed can be set as: **Automatic, 6.25, 12.5, 25, 50mm/s.**



Printing waveforms can be selected base on users preference.

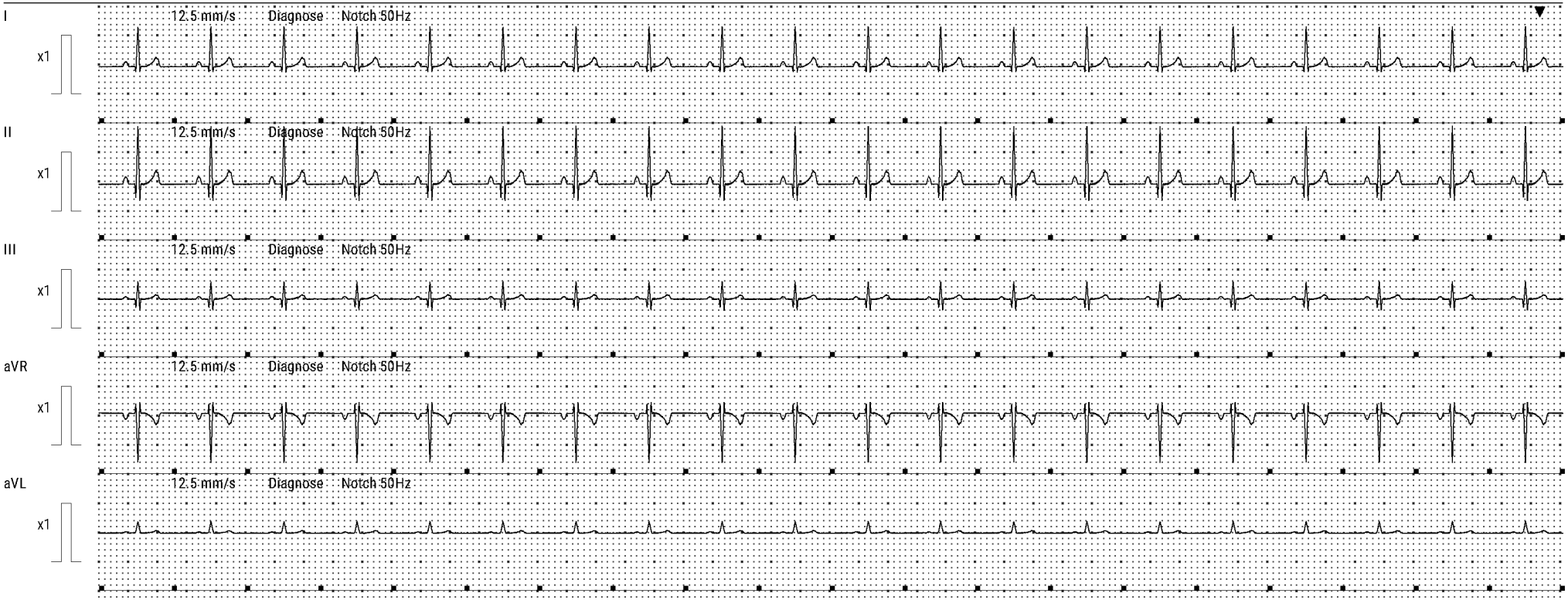


Freeze 12 leads and print

Freeze waves report

Print DateTime : 2022-09-23 19:43:47

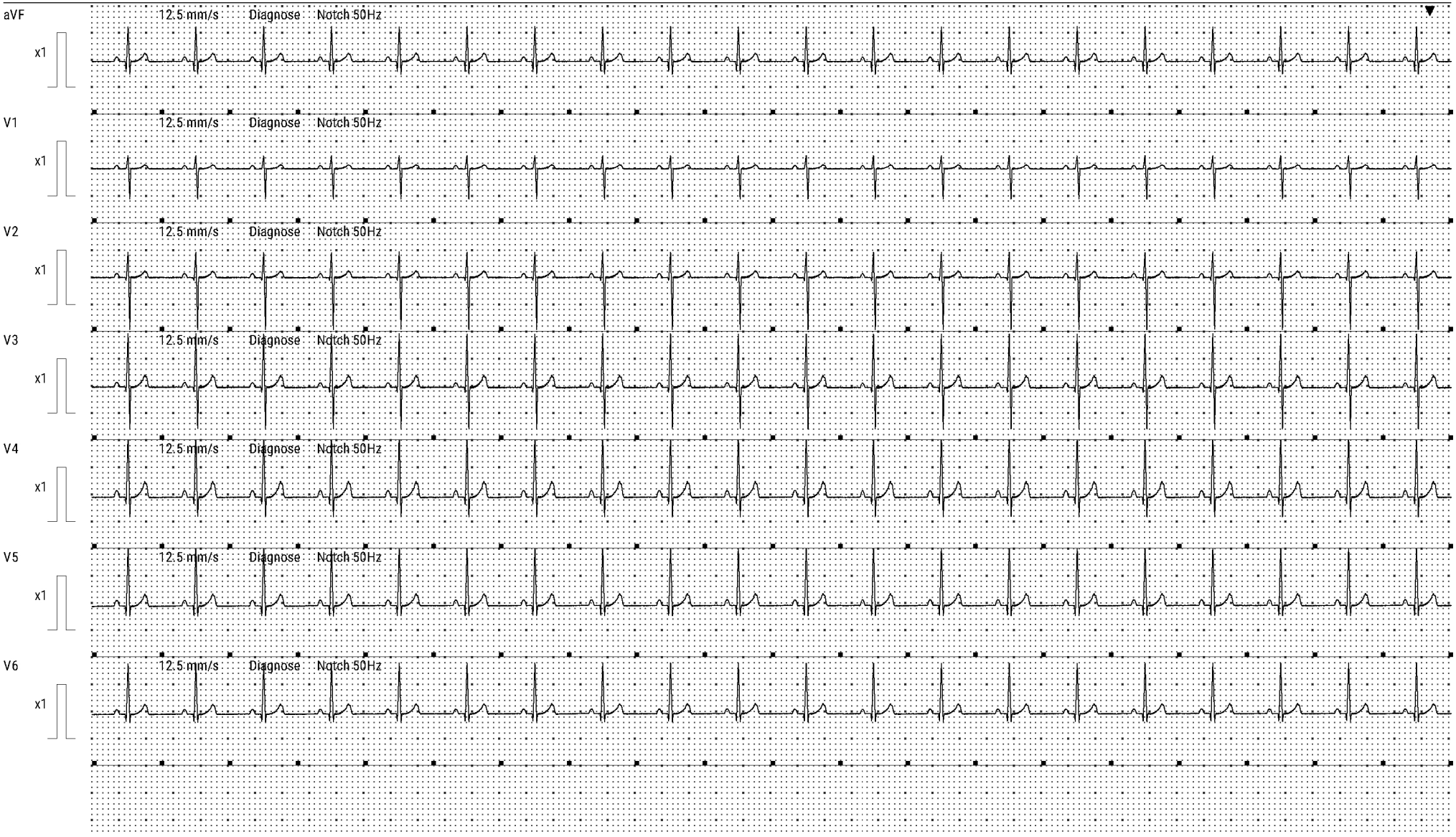
Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No



Freeze waves report

Print DateTime : 2022-09-23 19:43:47

Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No

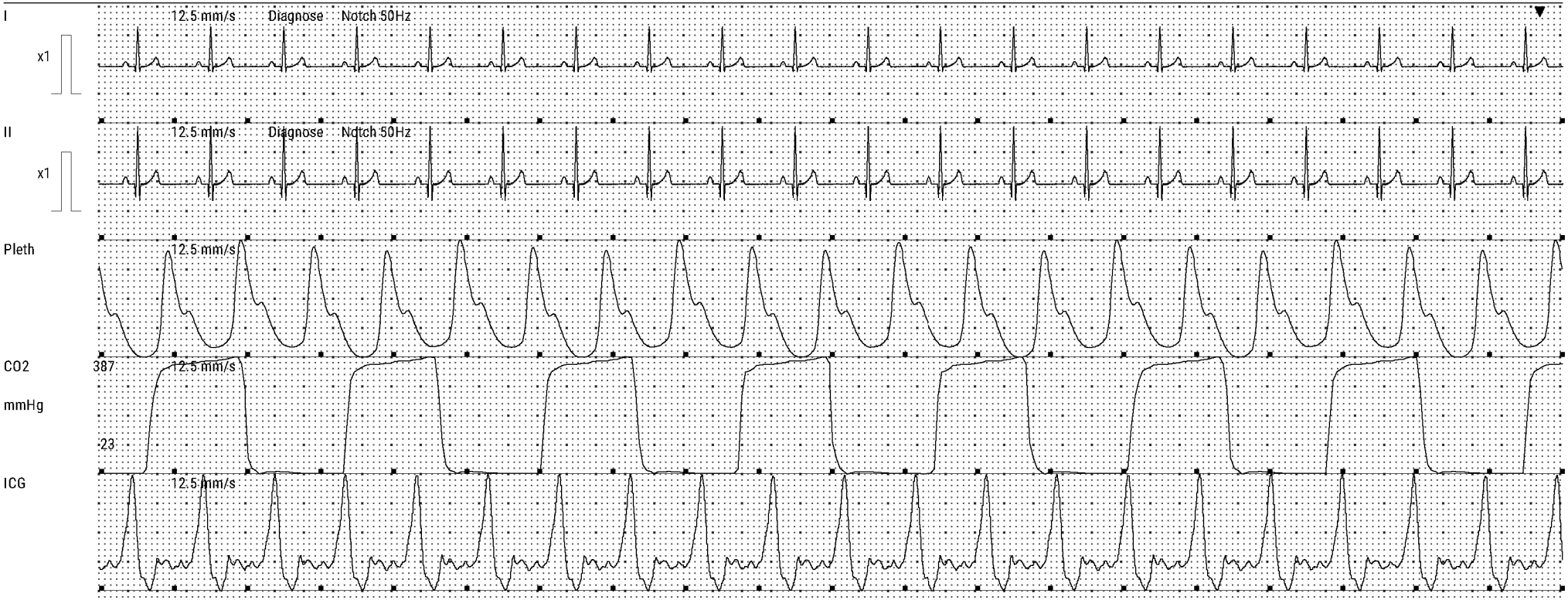


Standard screen freeze and print

Freeze waves report

Print DateTime : 2022-09-23 19:27:29

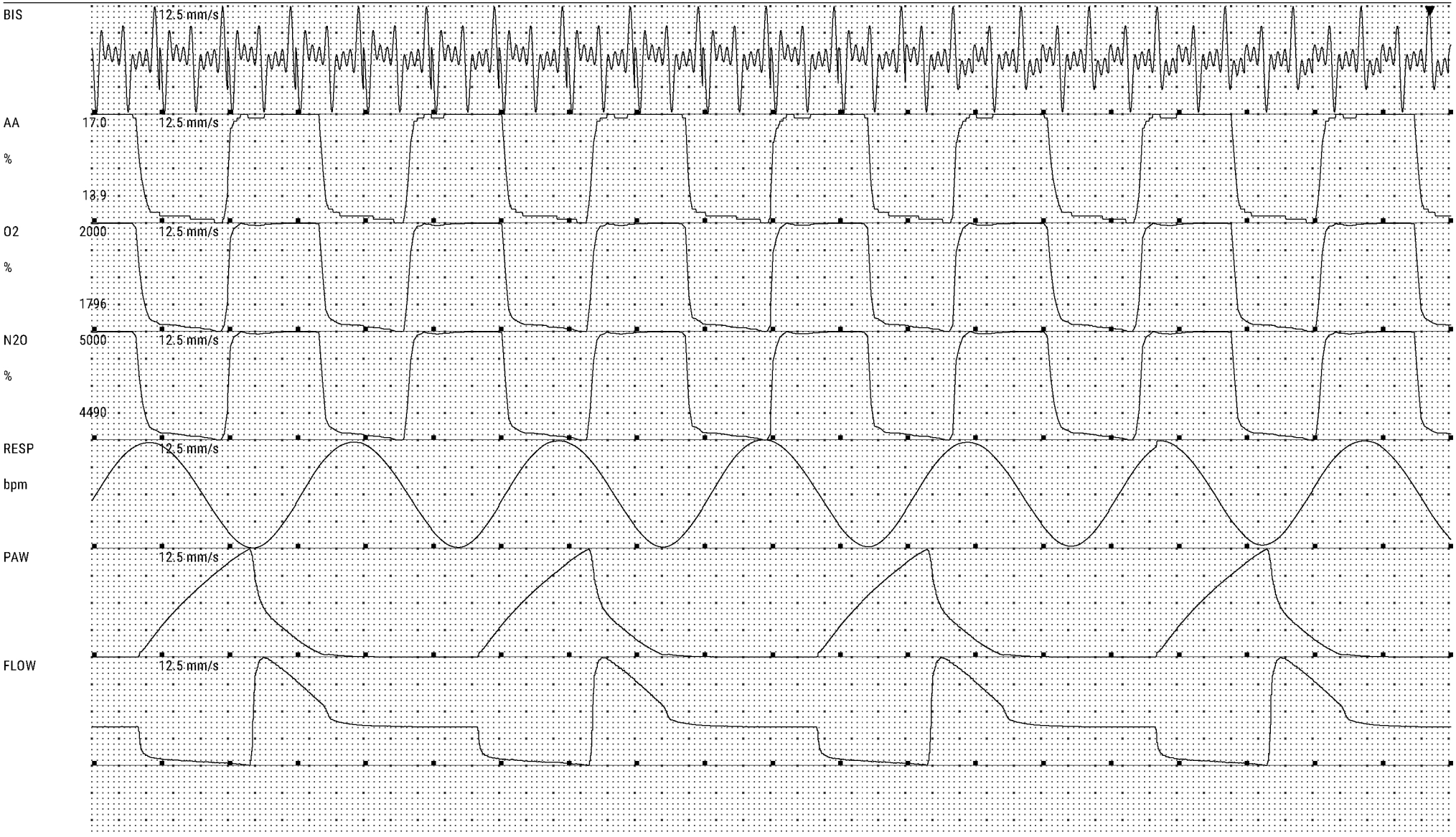
Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No



Freeze waves report

Print DateTime : 2022-09-23 19:27:29

Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No

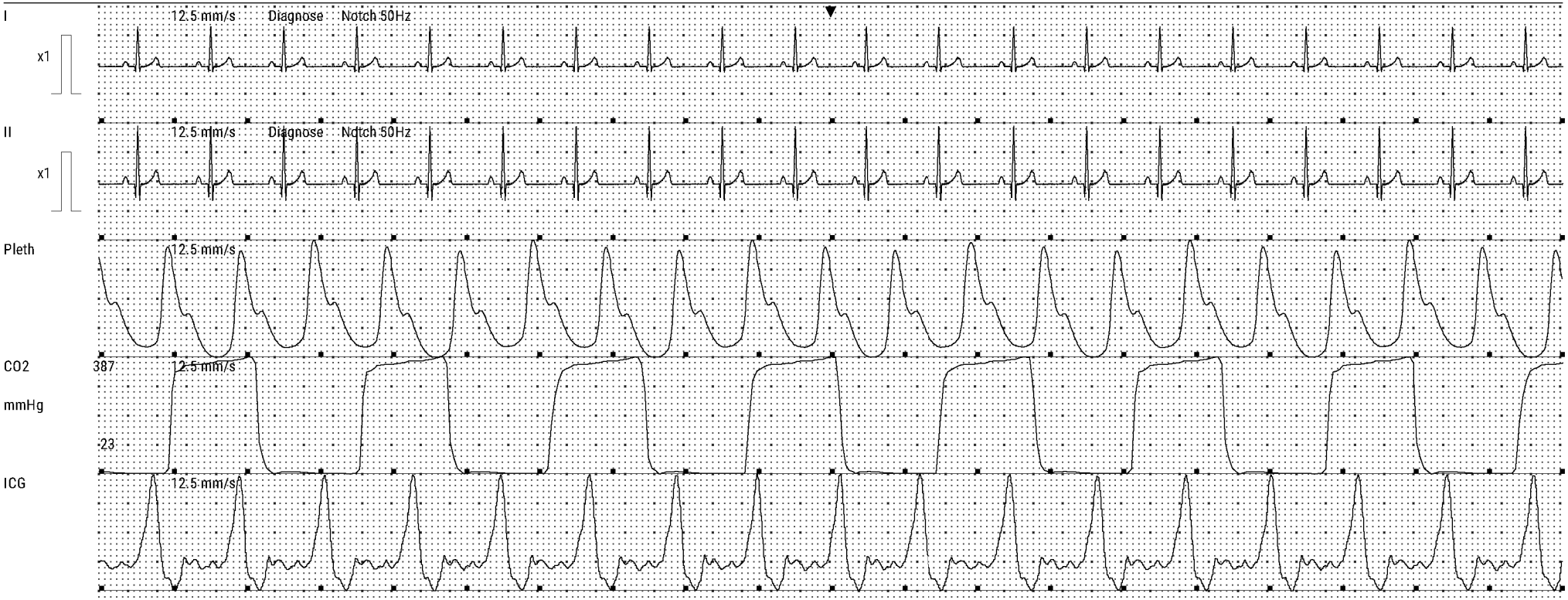


Real time print

Real waves report

Print DateTime : 2022-09-23 19:32:17

Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No

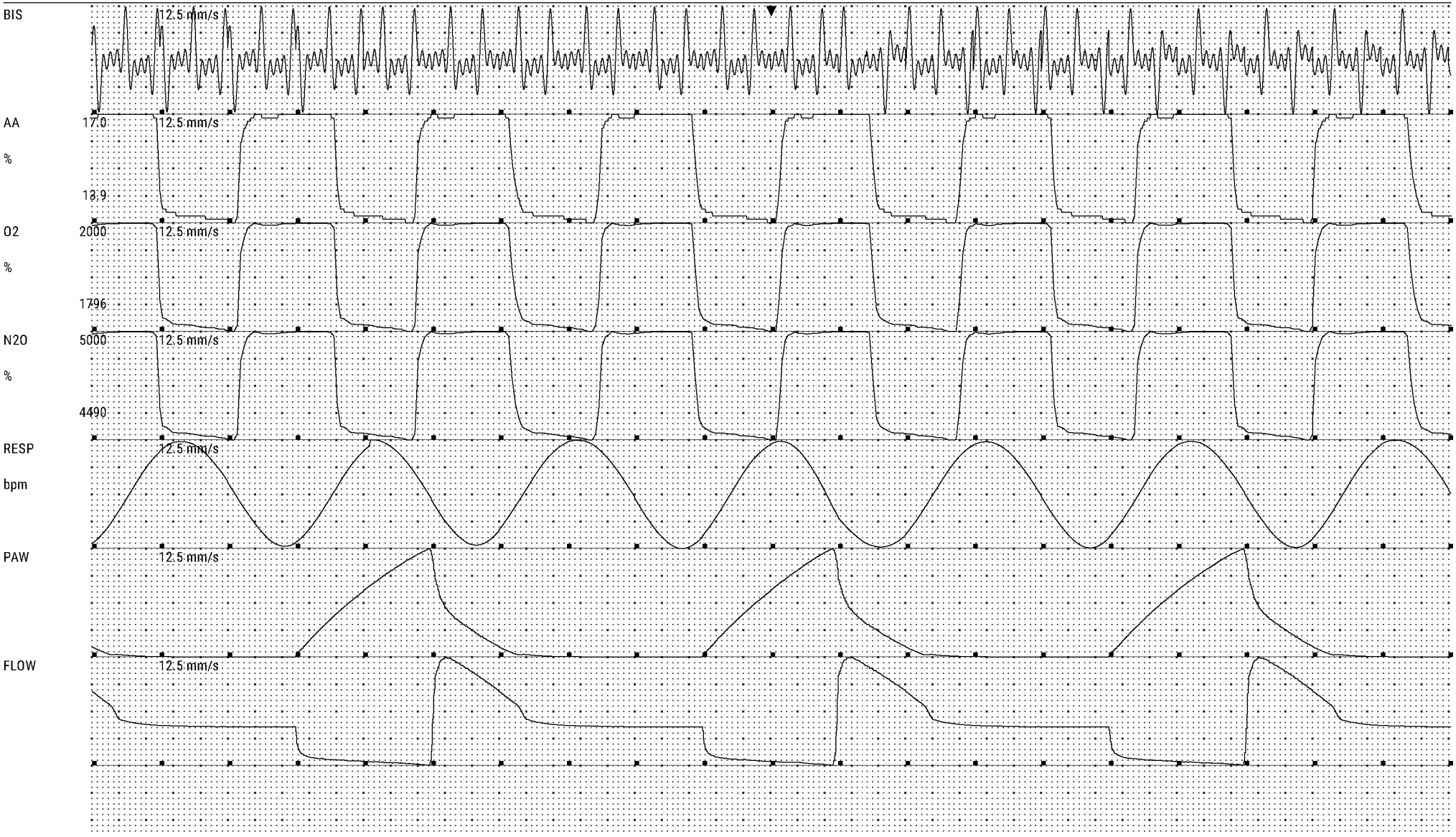


Date Time	2022-09-23 19:32:29	EMG	31 dB	Pmean	9.3 cmH2O	EEG2-SEF	3.4 Hz	EEG4-SEF	3.4 Hz	ST-Va	
HR	60 bpm	SQI	100 %	Compl	20.42 ml/cmH2O	EEG2-MDF	0.9 Hz	EEG4-MDF	0.9 Hz	ST-Vb	
SpO2	99 %	SR	0 %	I:E	1:2.0	EEG2-PPF	0.9 Hz	EEG4-PPF	0.9 Hz	QT	
PI	7.46 %	SEF	15.5 Hz	RR	10 bpm	EEG2-TP	69.5 dB	EEG4-TP	69.5 dB	QTc	
RESP	20 bpm	TP	77.0 dB	Resi	13.9 cmH2O/L/s	EEG2-AMP	-- dB	EEG4-AMP	-- dB	ΔQTc	
CO2(Et/Fi)	38 / 2 mmHg	BC	--	TV1	84.08 %	EEG2-Delta	90.8 %	EEG4-Delta	90.8 %		
ICG-C.I.	4.8 L/min/m2	AA(Et/Fi)	1.4 / 1.7 %	P1	122 / 81 (99) mmHg	EEG2-Theta	5.2 %	EEG4-Theta	5.2 %		
ICG-C.O.	5.6 L/min	O2(Et/Fi)	18 / 20 %	ART	123 / 82 (99) mmHg	EEG2-Alpha	1.9 %	EEG4-Alpha	1.9 %		
ICG-TFC	31 1/kΩ	N2O(Et/Fi)	45 / 50 %	T1/T2	36.6 / 36.5 ℃	EEG2-Beta	2.0 %	EEG4-Beta	2.0 %		
ICG-SI	46 ml/m2	PR	60 bpm	EEG1-SEF	3.4 Hz	EEG3-SEF	3.4 Hz	rSO2(CH1/CH2)	80 / 65 %		
ICG-SV	81 ml	RR	20 bpm	EEG1-MDF	0.9 Hz	EEG3-MDF	0.9 Hz		50 Drops/min		
ICG-SVR	720 dyn*s/cm5	TVi	559 ml	EEG1-PPF	0.9 Hz	EEG3-PPF	0.9 Hz		149 Drops/min		
ICG-SVRI	1300 dyn*s*m2/cm5	TVe	525 ml	EEG1-TP	69.5 dB	EEG3-TP	69.5 dB	ST-I	-0.54 mV		
ICG-QI	72 %	MVi	5.58 L/min	EEG1-AMP	-- dB	EEG3-AMP	-- dB	ST-II	-0.75 mV		
ICG-DO2I	-- ml/min/m2	MVe	5.28 L/min	EEG1-Delta	90.8 %	EEG3-Delta	90.8 %	ST-III	-0.32 mV		
ICG-HR	68 bpm	PIP	29.5 cmH2O	EEG1-Theta	5.2 %	EEG3-Theta	5.2 %	ST-aVR	0.65 mV		
ICG-TFI	32.2 Ω	Pplat	28.3 cmH2O	EEG1-Alpha	1.9 %	EEG3-Alpha	1.9 %	ST-aVL	-0.17 mV		
BIS	37	PEEP	2.4 cmH2O	EEG1-Beta	2.0 %	EEG3-Beta	2.0 %	ST-aVF	-0.48 mV		

Real waves report

Print DateTime : 2022-09-23 19:32:17

Patient ID : A1234567	Name : Jimmy	Bed : ICU BAY 2	Birth Date : 1998-06-19
Age : 24years	Height / Weight : 120 cm / 45 kg	Gender : Male	Paced : No



Trend table print

REPORT

Patient ID : A1234567 Name : Jimmy Bed : ICU BAY 2 Birth Date : 1998-06-19
Age : 24years Height / Weight : 120 cm / 45 kg Gender : Male Paced : No

2022-09-23	19:28:20	19:29:20	19:30:20	19:31:20	19:32:20	19:33:20	19:34:20	19:35:20	19:36:20
HR bpm	60	60	60	60	60	60	60	60	60
SpO2 %	99	99	99	99	99	99	99	99	99
PI %	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45	7.45
SpO2L-SpO2 %	--	--	--	--	--	--	--	--	--
SpO2L-PI %	--	--	--	--	--	--	--	--	--
SpO2L-SpCO %	--	--	--	--	--	--	--	--	--
SpO2L-SpOC ml/dl	--	--	--	--	--	--	--	--	--
SpO2L-SpMet %	--	--	--	--	--	--	--	--	--
SpO2L-PVI %	--	--	--	--	--	--	--	--	--
SpO2L-SpHb g/dL	--	--	--	--	--	--	--	--	--
RR bpm	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2	20 Source: CO2
NIBP mmHg	--/--(--) @--:--:--	--/--(--) @--:--:--	--/--(--) @--:--:--	--/--(--) @--:--:--	--/--(--) @--:--:--	--/--(--) @--:--:--	125/84(96) @19:33:25	--/--(--) @--:--:--	--/--(--) @--:--:--
PR bpm	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2	60 Source: SpO2
P1 mmHg	122/81(99)	122/81(99)	122/81(99)	122/81(99)	122/81(99)	122/81(99)	122/81(99)	122/81(99)	122/81(99)
P2 mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
ART mmHg	123/82(99)	123/82(99)	123/82(99)	123/82(99)	123/82(99)	123/82(99)	123/82(99)	123/82(99)	123/82(99)
CVP cmH2O	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
PA mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
PAWP mmHg	-- @--	-- @--	-- @--	-- @--	-- @--	-- @--	-- @--	-- @--	-- @--
RAP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
LAP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
ICP cmH2O	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
UAP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
BAP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
FAP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
UVP mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
LV mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
Ao mmHg	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)	(--)
T1/T2 ℃	36.6/36.5	36.6/36.4	36.6/36.4	36.6/36.5	36.6/36.4	36.6/36.4	36.6/36.5	36.6/36.4	36.6/36.4
CO2(Et/Fi) mmHg	38/2	38/2	38/2	38/2	38/2	38/2	38/2	38/2	38/2
O2(Et/Fi) %	18/20	18/20	18/20	18/20	18/20	18/20	18/20	18/20	18/20
N2O(Et/Fi) %	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50	45/50

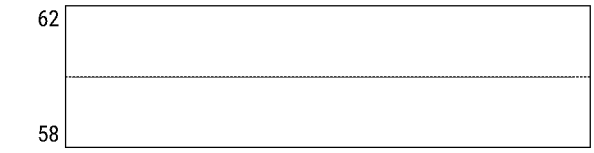
Trend graph print

REPORT

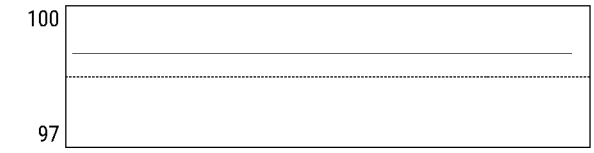
Patient ID : A1234567 Name : Jimmy Bed : ICU BAY 2 Birth Date : 1998-06-19
Age : 24years Height / Weight : 120 cm / 45 kg Gender : Male Paced : No

Time : 2022-09-23 19:29:15 ~ 2022-09-23 19:37:15

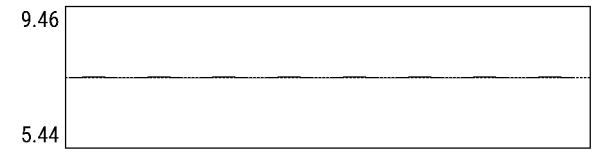
HR bpm



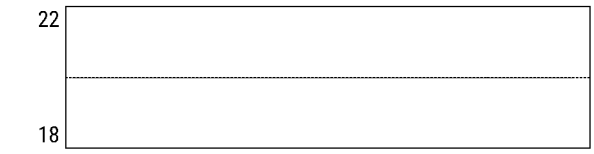
SpO2 %



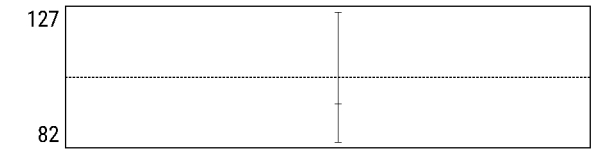
PI %



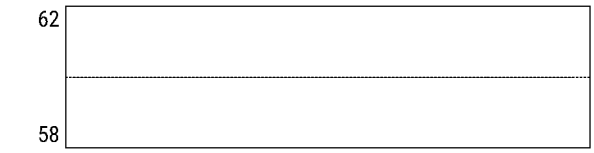
RR bpm



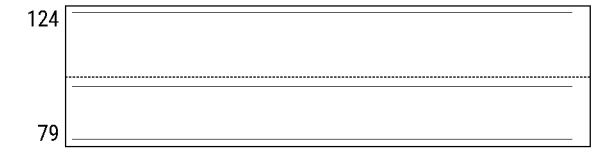
NIBP mmHg



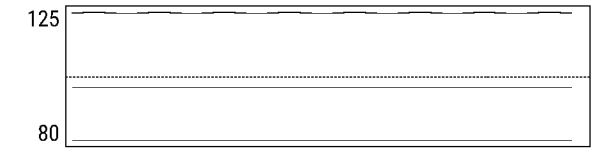
PR bpm



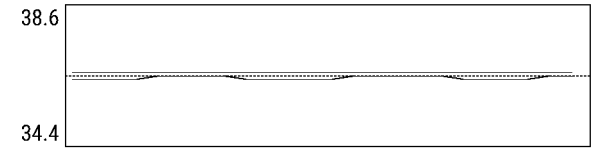
P1 mmHg



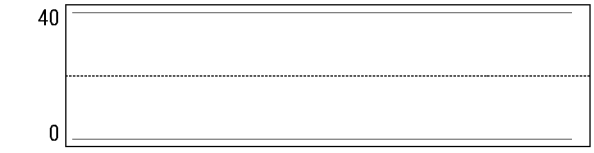
ART mmHg



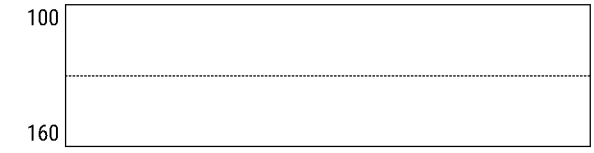
T1/T2 ℃



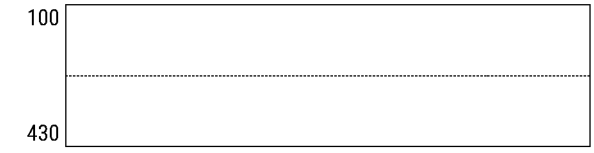
CO2(Et/Fi) mmHg



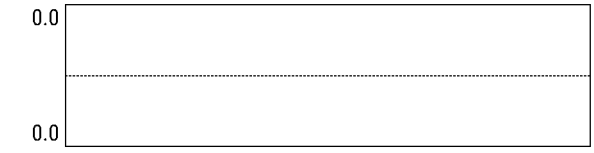
O2(Et/Fi) %



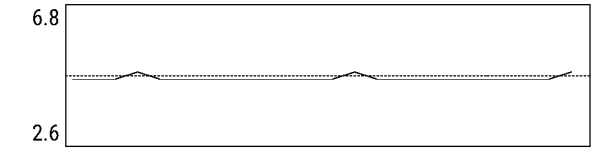
N2O(Et/Fi) %



AA(Et/Fi) %

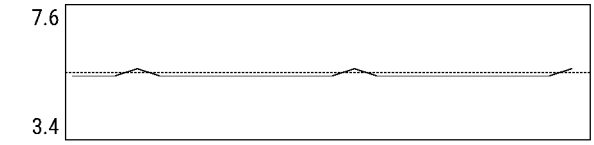


ICG-C.I. L/min/m2

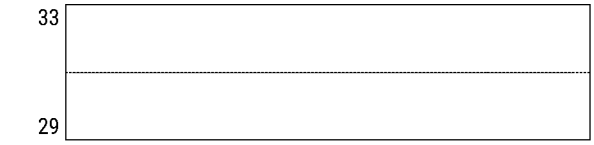


Time : 2022-09-23 19:29:15 ~ 2022-09-23 19:37:15

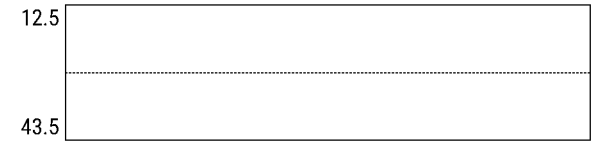
ICG-C.O. L/min



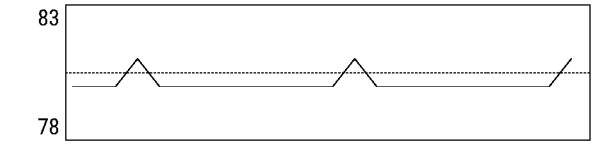
ICG-TFC 1/kΩ



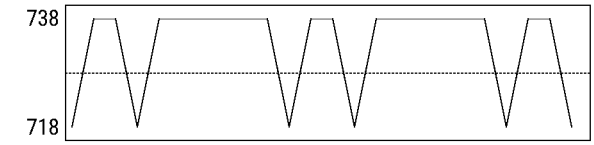
ICG-SI ml/m2



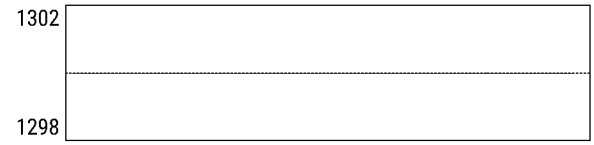
ICG-SV ml



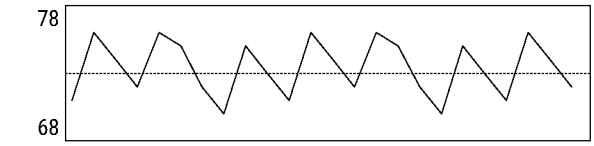
ICG-SVR dyn*s/cm5



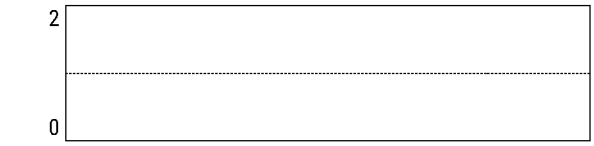
ICG-SVRI dyn*s*m2/cm5



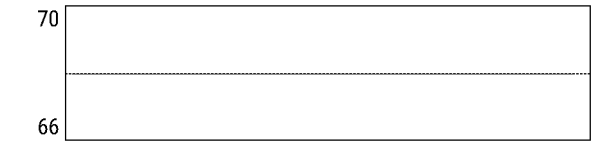
ICG-QI %



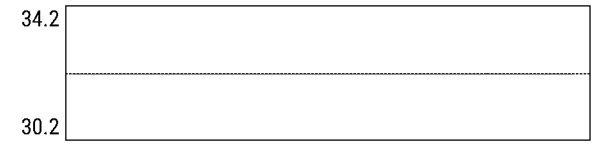
ICG-DO2I ml/min/m2



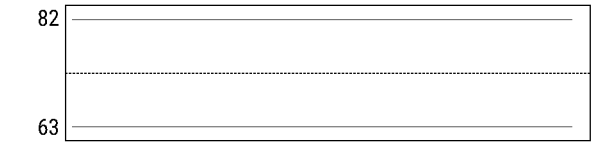
ICG-HR bpm



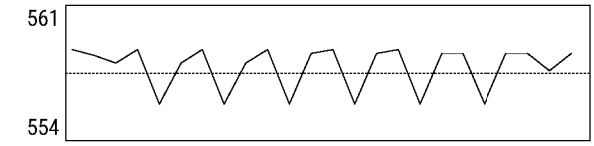
ICG-TFI Ω



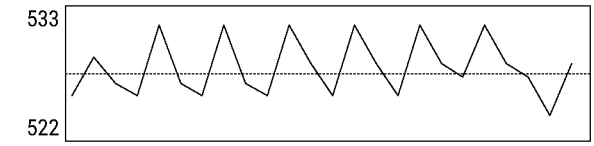
rSO2(CH1/CH2) %



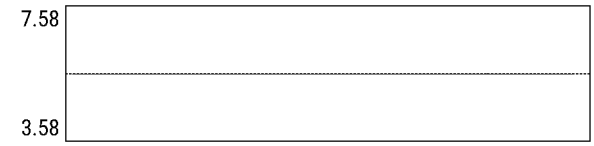
TVi ml



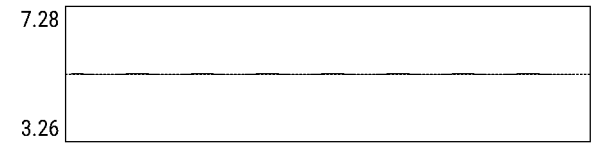
TVe ml



MVi L/min



MVe L/min



PIP cmH2O