



# TM-2440 Set up with Software

A&D Australasia

Brian Johnston    August 2022

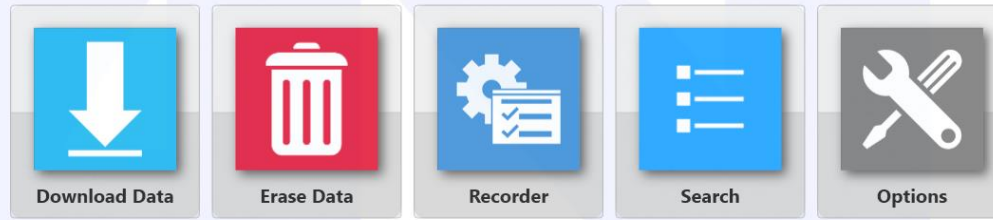
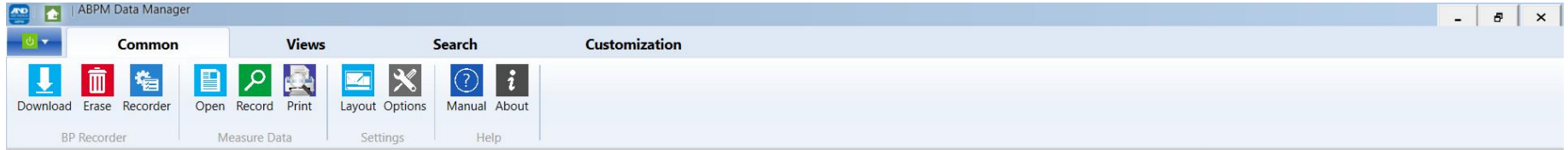
# 1<sup>st</sup> Step

- Insert new batteries into the TM-2440
- Press the event button, only the time and battery symbol should be visible.
- Open the A&D software on you PC.
- Connect USB cable to the PC and the TM-2440.
  - The screen of the TM-2440 should look like this.

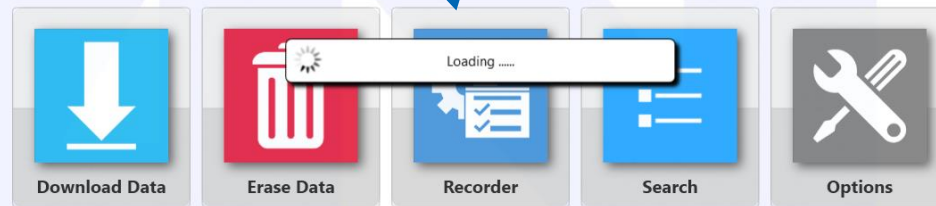
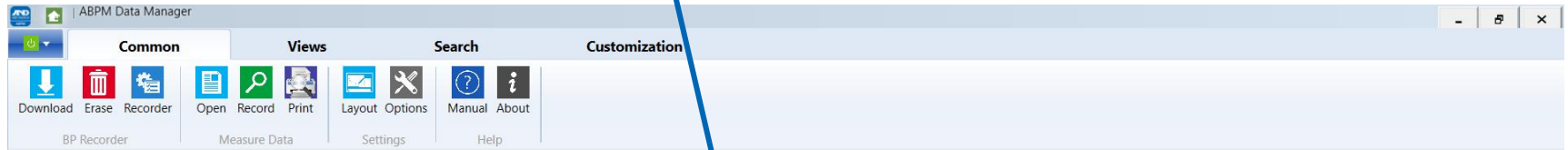


- Proceed to the software set up.
-

# Set up TM-2440... open software and connect your monitor to your PC.



# Click on Recorder



# Setting ABPM working parameters.

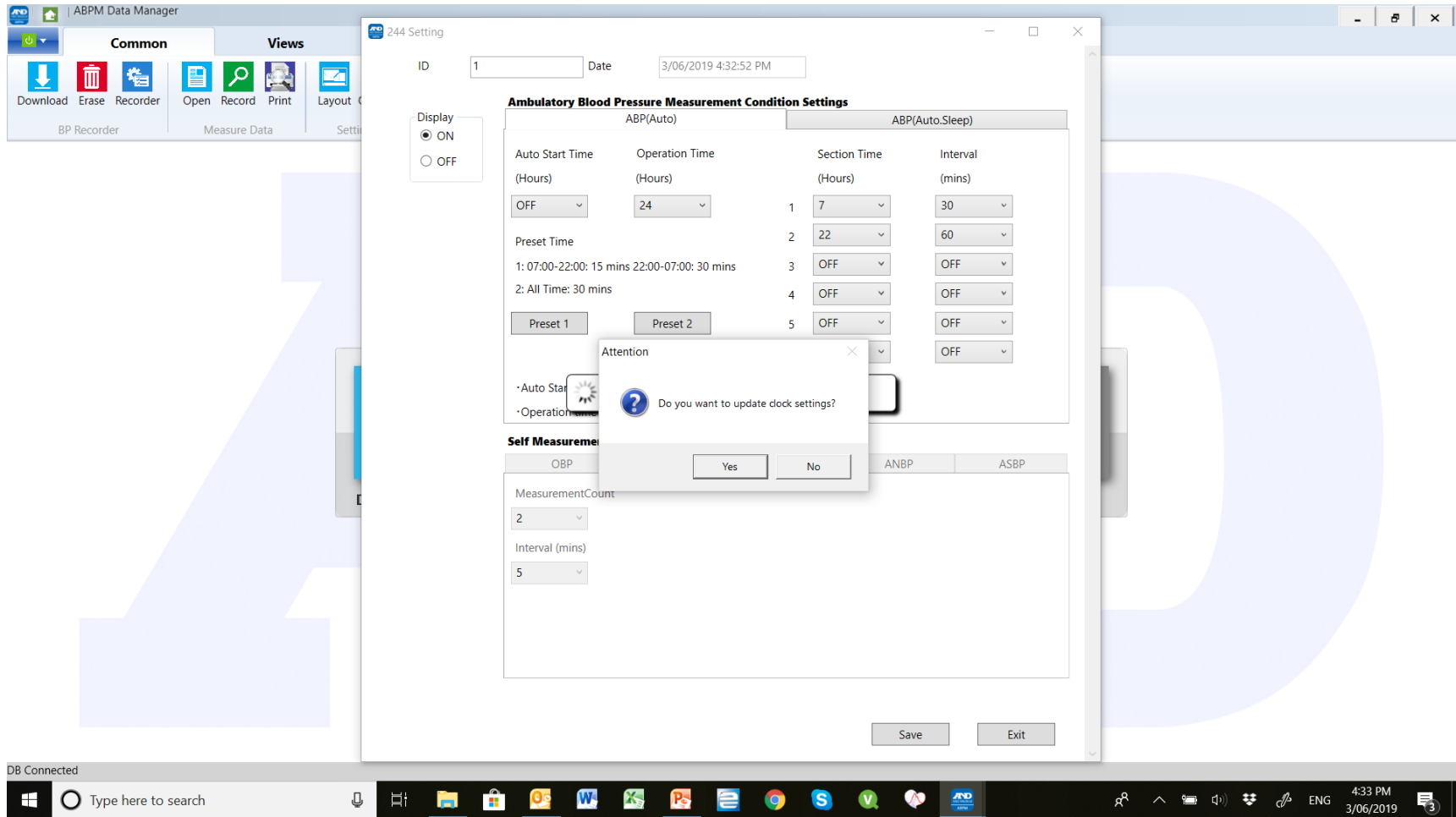
The screenshot shows the '244 Setting' window with the following configuration:

- ID: 0
- Display:  ON
- Buttons: Save, Exit
- Section: Ambulatory Blood Pressure Measurement Condition Settings
- Sub-sections: ABP(Auto) and ABP(Auto.Sleep)
- ABP(Auto) settings:
  - Auto Start Time
  - Auto Stop Time
  - Preset Time:
    - 1: 07:00-22:00: 15 mins 22:00-07:00: 30 mins
    - 2: All Time: 30 mins
  - Buttons: Preset 1, Preset 2
- ABP(Auto.Sleep) table:

	Section Time (Hours)	Interval (mins)
1	7	30
2	22	60
3	OFF	OFF
4	OFF	OFF
5	OFF	OFF
6	OFF	OFF

1. Input an ID of your ABPM, only if you require.
2. Select Display ON.
3. Leave Auto Start Time unticked.
4. Leave Auto Stop Time unticked..
5. Set Section Time, line 1 to 7.
6. Set Interval, line 1 to 30.
7. Set Section Time, line 2 to 22.
8. Set Interval, line 2 to 60.
9. Select "SAVE"

During the loading process you will be asked to update clock settings, always click yes.



The screenshot displays the ABPM Data Manager software interface. The main window is titled "244 Setting" and shows configuration options for an ambulatory blood pressure measurement. A smaller "Attention" dialog box is overlaid on top, asking "Do you want to update clock settings?" with "Yes" and "No" buttons. The background window includes sections for "Ambulatory Blood Pressure Measurement Condition Settings" and "Self Measurement".

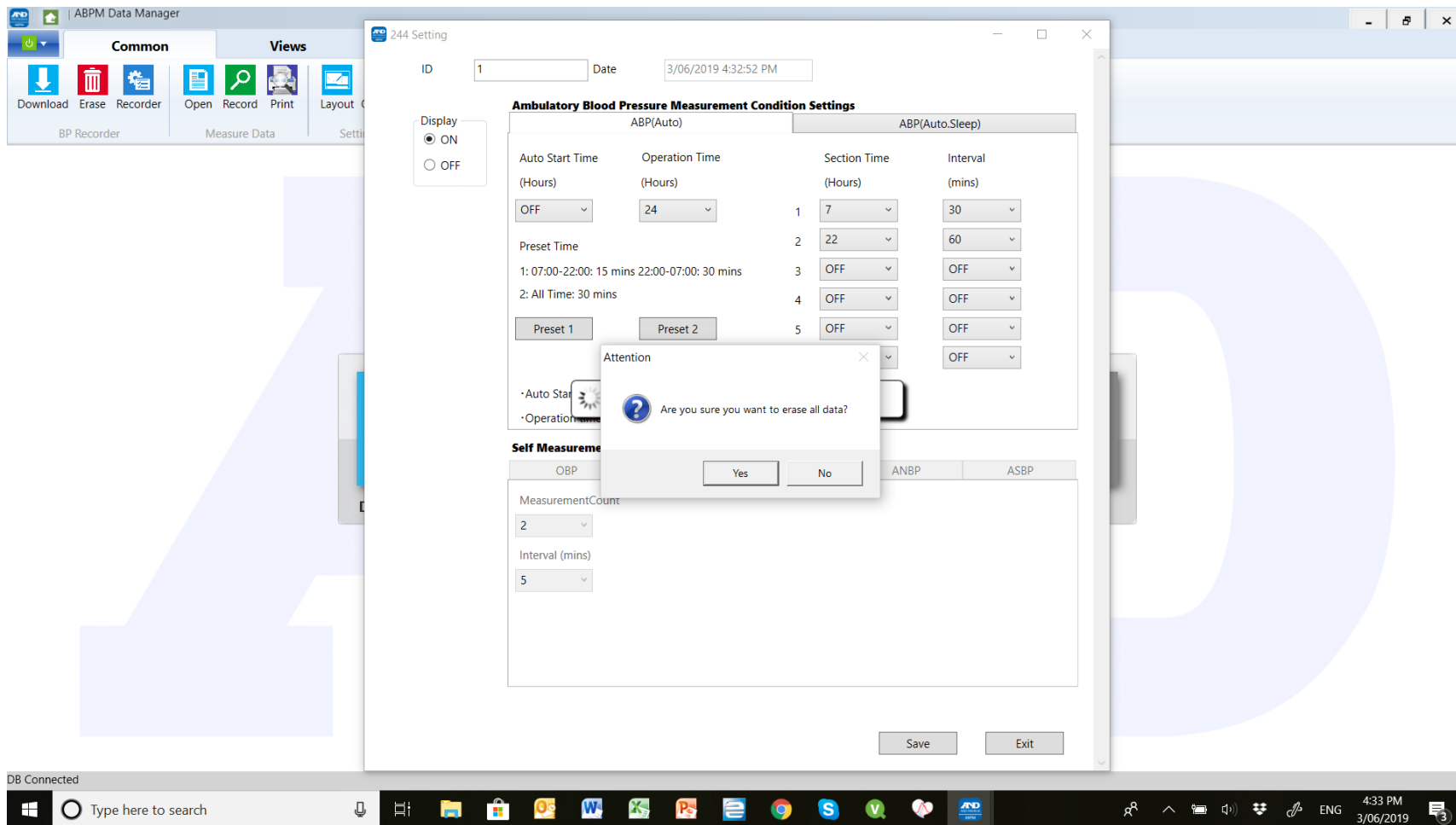
**Ambulatory Blood Pressure Measurement Condition Settings**

ABP(Auto)		ABP(Auto.Sleep)	
Auto Start Time (Hours)	Operation Time (Hours)	Section Time (Hours)	Interval (mins)
OFF	24	1 7	30
		2 22	60
Preset Time		3 OFF	OFF
1: 07:00-22:00: 15 mins 22:00-07:00: 30 mins		4 OFF	OFF
2: All Time: 30 mins		5 OFF	OFF
Preset 1			OFF
Preset 2			OFF

**Self Measurement**

OBP	ANBP	ASBP
MeasurementCount		
2		
Interval (mins)		
5		

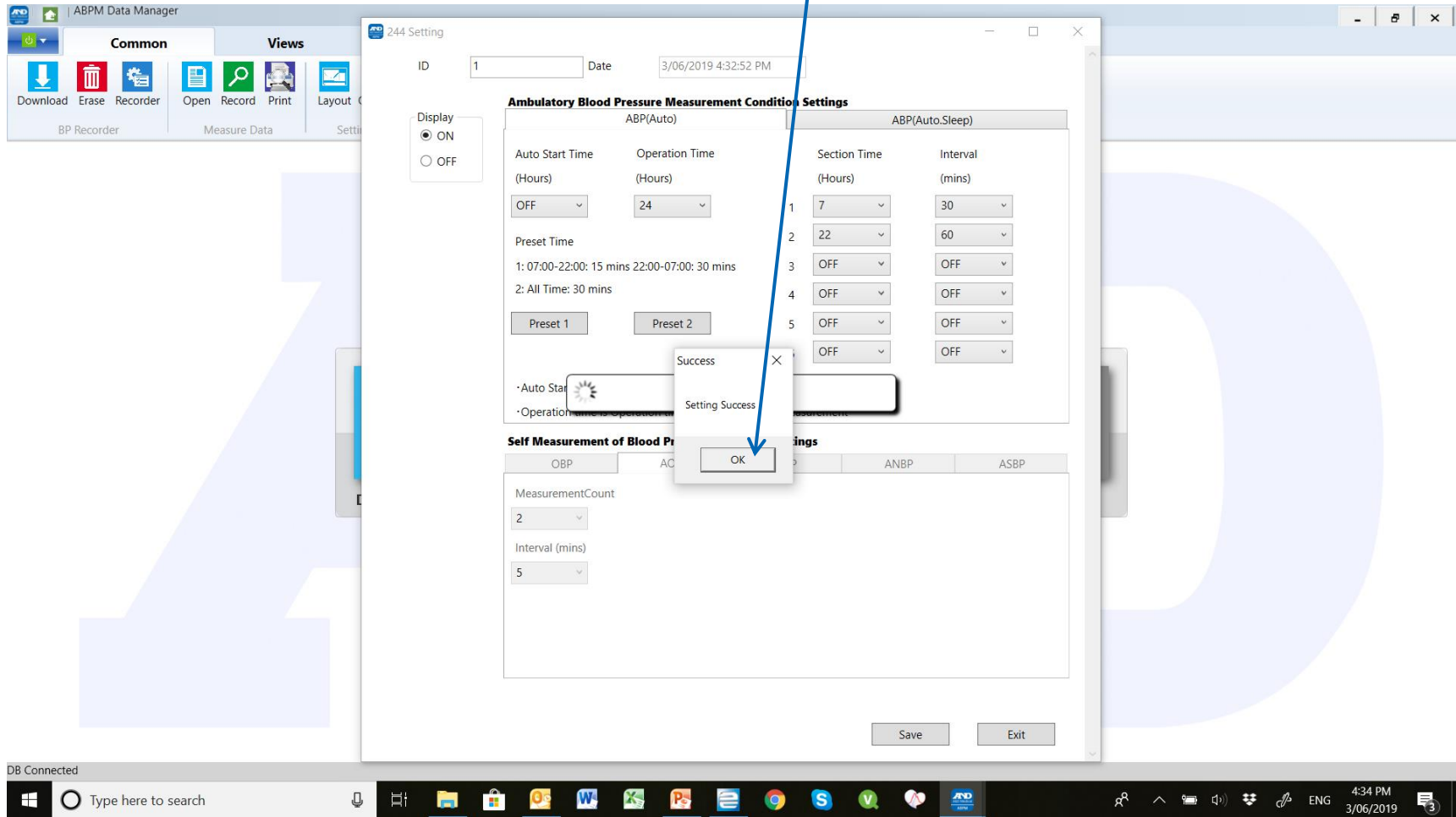
During the loading process you will be asked if you want to erase all data, always click yes



The screenshot displays the 'ABPM Data Manager' application interface. The main window is titled '244 Setting' and shows configuration options for 'Ambulatory Blood Pressure Measurement Condition Settings'. The settings are organized into two tabs: 'ABP(Auto)' and 'ABP(Auto.Sleep)'. The 'ABP(Auto)' tab is active, showing a table of measurement conditions with columns for 'Auto Start Time (Hours)', 'Operation Time (Hours)', 'Section Time (Hours)', and 'Interval (mins)'. The 'Auto Start Time' is set to 'OFF', and the 'Operation Time' is set to '24'. The 'Section Time' and 'Interval' are set to '7' and '30' respectively. Below the table, there are 'Preset 1' and 'Preset 2' buttons. An 'Attention' dialog box is overlaid on the main window, asking 'Are you sure you want to erase all data?' with 'Yes' and 'No' buttons. The background window shows a toolbar with 'Download', 'Erase', 'Recorder', 'Open', 'Record', 'Print', and 'Layout' buttons. The Windows taskbar at the bottom shows the system tray with the time '4:33 PM' and date '3/06/2019'.

Auto Start Time (Hours)	Operation Time (Hours)	Section Time (Hours)	Interval (mins)
OFF	24	1 7	30
		2 22	60
		3 OFF	OFF
		4 OFF	OFF
		5 OFF	OFF

# Once available click on OK



The screenshot displays the 'ABPM Data Manager' application interface. The main window shows the '244 Setting' dialog box, which is used for configuring ambulatory blood pressure measurements. The dialog is divided into two main sections: 'Ambulatory Blood Pressure Measurement Condition Settings' and 'Self Measurement of Blood Pressure Settings'.

**Ambulatory Blood Pressure Measurement Condition Settings**

ABP(Auto)		ABP(Auto.Sleep)	
Auto Start Time (Hours)	Operation Time (Hours)	Section Time (Hours)	Interval (mins)
OFF	24	1: 7	30
		2: 22	60
		3: OFF	OFF
		4: OFF	OFF
		5: OFF	OFF
		5: OFF	OFF

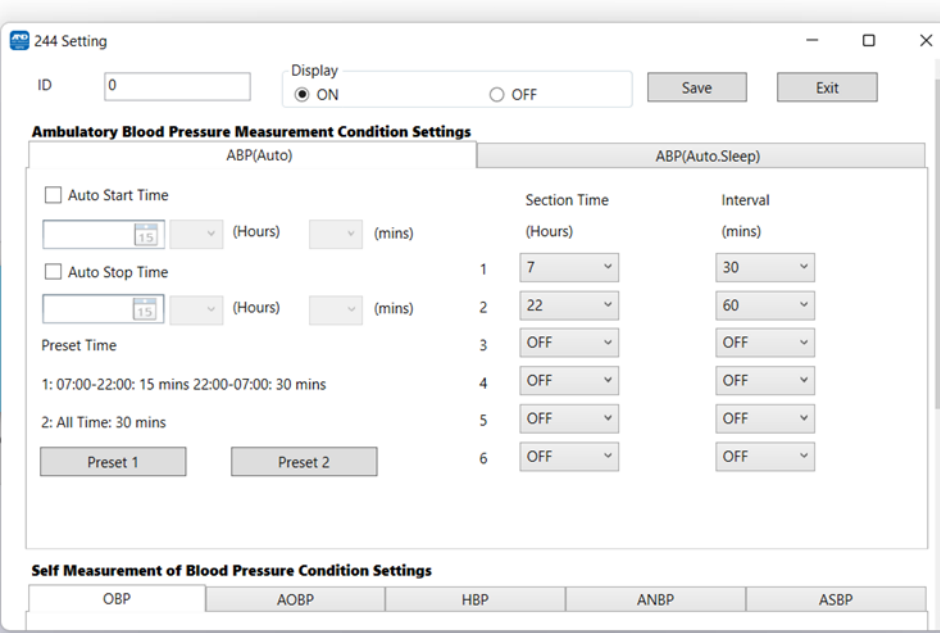
**Self Measurement of Blood Pressure Settings**

OBP	AC	ANBP	ASBP
MeasurementCount			
2			
Interval (mins)			
5			

A 'Success' dialog box is overlaid on the main window, displaying the text 'Setting Success' and an 'OK' button. A blue arrow points from the top of the page to the 'OK' button, indicating the next step in the process.



# Standard Settings



The screenshot shows the '244 Setting' window with the following configuration:

- ID: 0
- Display: ON
- Ambulatory Blood Pressure Measurement Condition Settings**
- ABP(Auto)** (selected):
  - Auto Start Time: OFF
  - Auto Stop Time: OFF
  - Preset Time:
    - 1: 07:00-22:00: 15 mins 22:00-07:00: 30 mins
    - 2: All Time: 30 mins
- ABP(Auto.Sleep)**:

Section Time (Hours)	Interval (mins)
1: 7	30
2: 22	60
3: OFF	OFF
4: OFF	OFF
5: OFF	OFF
6: OFF	OFF
- Self Measurement of Blood Pressure Condition Settings**:
  - OBP
  - AOBP (selected)
  - HBP
  - ANBP
  - ASBP

- With these settings the TM-2440's display will show results following a test.
- The device will start taking readings only when you activate the monitor as described in the next slide.
- The device will take readings until the device is taken out of test mode.
- During the hours of 7am and 10pm the device will take a reading every 30 minutes.
- During the hours of 10pm and 7am the device will take a reading every 60 minutes.

# To activate the monitor.

- Once the correct setting have been loaded press the “EVENT” button once, then press and hold the “EVENT” button until the clock icon appears on the screen.



# Put the monitor on the patient.



Place the cuff on the patient, using the instructions on the cuff. Make sure the tube goes up over the shoulder, and the cuff is 2-3 cm from the arm joint. Make sure you can fit two fingers between the cuff and patients arm.

Once the cuff and monitor is in place, take a reading by pressing the red START/STOP button. This will give the patient an idea of what to expect and you can make sure the device is operating correctly.

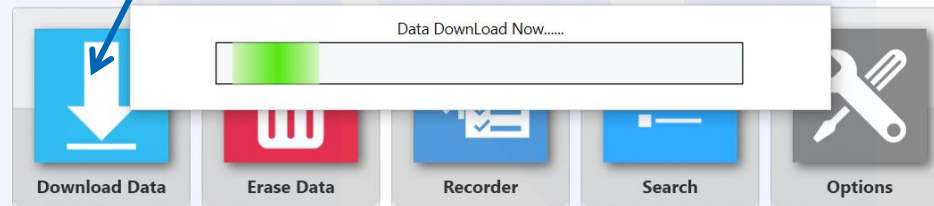
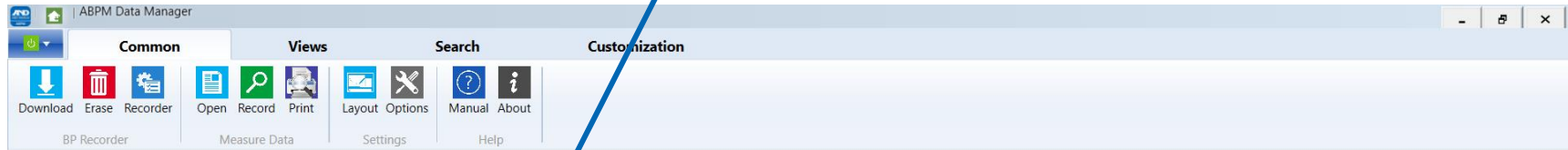


# When the patient returns.

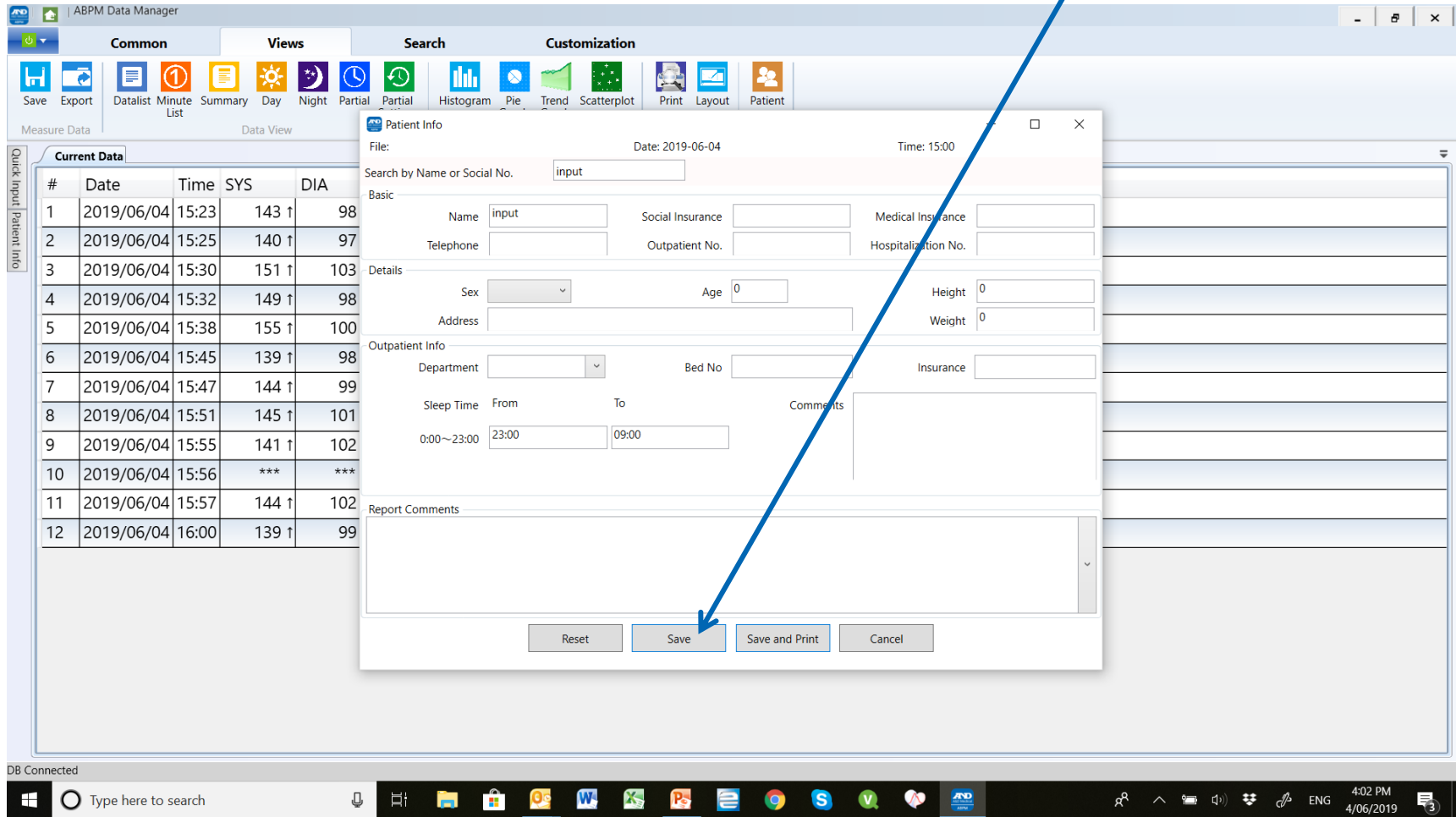
- Remove the monitor from the patient.
- Press the EVENT button once, then press and hold the EVENT button until the clock icon disappears.



# Hook the monitor up to your PC and click on Download Data



# Complete the Patient Info and press save



ABPM Data Manager

Common Views Search Customization

Save Export Datalist Minute List Summary Day Night Partial Partial Histogram Pie Trend Scatterplot Print Layout Patient

Measure Data Data View

Quick Input Patient Info

Current Data

#	Date	Time	SYS	DIA
1	2019/06/04	15:23	143 ↑	98
2	2019/06/04	15:25	140 ↑	97
3	2019/06/04	15:30	151 ↑	103
4	2019/06/04	15:32	149 ↑	98
5	2019/06/04	15:38	155 ↑	100
6	2019/06/04	15:45	139 ↑	98
7	2019/06/04	15:47	144 ↑	99
8	2019/06/04	15:51	145 ↑	101
9	2019/06/04	15:55	141 ↑	102
10	2019/06/04	15:56	***	***
11	2019/06/04	15:57	144 ↑	102
12	2019/06/04	16:00	139 ↑	99

Patient Info

File: Date: 2019-06-04 Time: 15:00

Search by Name or Social No. input

Basic

Name input Social Insurance Medical Insurance

Telephone Outpatient No. Hospitalization No.

Details

Sex Age 0 Height 0

Address Weight 0

Outpatient Info

Department Bed No. Insurance

Sleep Time From To Comments

0:00 ~ 23:00 23:00 09:00

Report Comments

Reset Save Save and Print Cancel

DB Connected

Type here to search

4:02 PM 4/06/2019

# Results are displayed.



ABPM Data Manager

Common Views Search Customization

Save Export Datalist Minute List Summary Day Night Partial Partial Settings Histogram Pie Graph Trend Graph Scatterplot Print Layout Patient

Measure Data Data View Chart View Data Report Fill Info

Quick Input Patient Info

Current Data

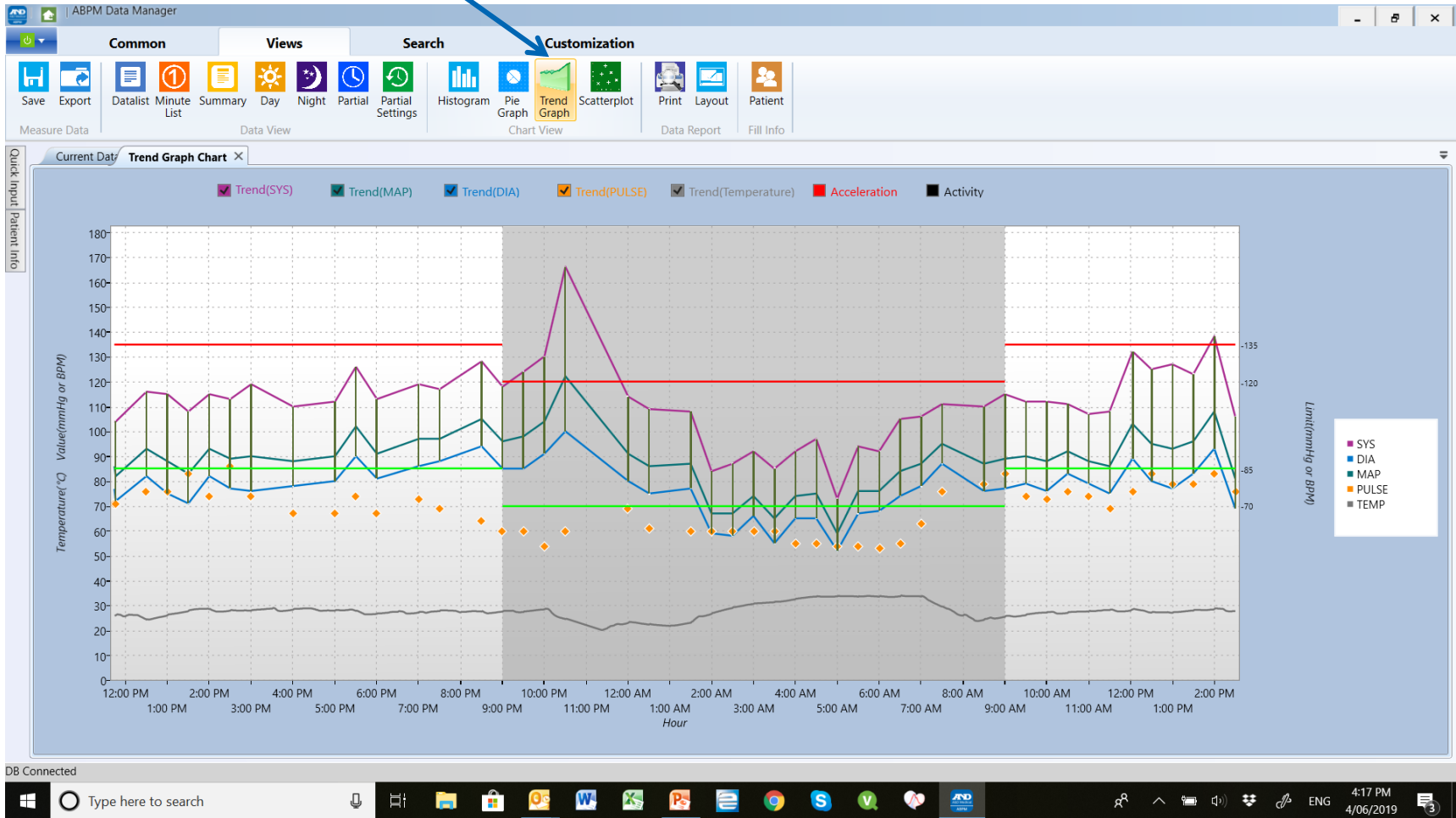
#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Wave	Comments
1	2018/03/07	11:44	104	77	86	75	73	HB--	<input type="checkbox"/>	Wave	
2	2018/03/07	11:46	104	72	82	75	73	HB--	<input type="checkbox"/>	Wave	
3	2018/03/07	12:00	***	***	***	***	***	AA 8	<input checked="" type="checkbox"/>	Wave	Pulse Err
4	2018/03/07	12:03	126	76	92	102	81	AA--	<input checked="" type="checkbox"/>	Wave	PA4_IHB_
5	2018/03/07	12:30	116	82	93	90	78	AA--	<input type="checkbox"/>	Wave	
6	2018/03/07	13:00	115	75	88	89	78	AA--	<input type="checkbox"/>	Wave	
7	2018/03/07	13:30	108	71	83	91	85	AA--	<input type="checkbox"/>	Wave	IHB_
8	2018/03/07	14:00	115	82	93	87	76	AA--	<input type="checkbox"/>	Wave	
9	2018/03/07	14:30	113	77	89	99	88	AA--	<input type="checkbox"/>	Wave	
10	2018/03/07	15:00	119	76	90	90	76	AA--	<input type="checkbox"/>	Wave	
11	2018/03/07	15:30	116	81	92	80	69	AA--	<input checked="" type="checkbox"/>	Wave	IPC_IHB_
12	2018/03/07	16:00	110	78	88	75	69	AA--	<input type="checkbox"/>	Wave	
13	2018/03/07	16:30	***	***	***	***	***	AA10	<input checked="" type="checkbox"/>	Wave	Motion Err
14	2018/03/07	16:32	119	78	91	89	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt36_IHB_
15	2018/03/07	17:00	112	80	90	77	69	AA--	<input type="checkbox"/>	Wave	
16	2018/03/07	17:30	126	90 †	102	95	76	AA--	<input type="checkbox"/>	Wave	IHB_
17	2018/03/07	18:00	113	81	91	77	69	AA--	<input type="checkbox"/>	Wave	
18	2018/03/07	18:30	120	98 †	105	90	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt56_IHB_
19	2018/03/07	19:00	119	86 †	97	89	75	AA--	<input type="checkbox"/>	Wave	

DB Connected

Type here to search

4:16 PM 4/06/2019

# Click on icons to display different view





# To print results first click on Layout



The screenshot shows the ABPM Data Manager application window. The title bar reads 'ABPM Data Manager'. The interface includes a menu bar with 'Common', 'Views', 'Search', and 'Customization'. Below the menu bar is a toolbar with various icons. An arrow points to the 'Layout' icon in the 'Data Report' section of the toolbar. The main area displays a table titled 'Current Data' with the following columns: #, Date, Time, SYS, DIA, MAP, DP, PUL, Status, Exclude, Wave, and Comments. The table contains 19 rows of data. At the bottom of the window, the Windows taskbar is visible, showing the search bar, taskbar icons, and system tray with the date and time '4:22 PM 4/06/2019'.

#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Wave	Comments	
1	2018/03/07	11:44	104	77		86	75	73	HB--	<input type="checkbox"/>	Wave	
2	2018/03/07	11:46	104	72		82	75	73	HB--	<input type="checkbox"/>	Wave	
3	2018/03/07	12:00	***	***		***	***	***	AA 8	<input checked="" type="checkbox"/>	Wave	Pulse Err
4	2018/03/07	12:03	126	76		92	102	81	AA--	<input checked="" type="checkbox"/>	Wave	PA4_IHB_
5	2018/03/07	12:30	116	82		93	90	78	AA--	<input type="checkbox"/>	Wave	
6	2018/03/07	13:00	115	75		88	89	78	AA--	<input type="checkbox"/>	Wave	
7	2018/03/07	13:30	108	71		83	91	85	AA--	<input type="checkbox"/>	Wave	IHB_
8	2018/03/07	14:00	115	82		93	87	76	AA--	<input type="checkbox"/>	Wave	
9	2018/03/07	14:30	113	77		89	99	88	AA--	<input type="checkbox"/>	Wave	
10	2018/03/07	15:00	119	76		90	90	76	AA--	<input type="checkbox"/>	Wave	
11	2018/03/07	15:30	116	81		92	80	69	AA--	<input checked="" type="checkbox"/>	Wave	IPC_IHB_
12	2018/03/07	16:00	110	78		88	75	69	AA--	<input type="checkbox"/>	Wave	
13	2018/03/07	16:30	***	***		***	***	***	AA10	<input checked="" type="checkbox"/>	Wave	Motion Err
14	2018/03/07	16:32	119	78		91	89	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt36_IHB_
15	2018/03/07	17:00	112	80		90	77	69	AA--	<input type="checkbox"/>	Wave	
16	2018/03/07	17:30	126	90 †		102	95	76	AA--	<input type="checkbox"/>	Wave	IHB_
17	2018/03/07	18:00	113	81		91	77	69	AA--	<input type="checkbox"/>	Wave	
18	2018/03/07	18:30	120	98 †		105	90	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt56_IHB_
19	2018/03/07	19:00	119	86 †		97	89	75	AA--	<input type="checkbox"/>	Wave	

Select and tick appropriate Layout boxes, click apply and save.



**Template Settings**  
Template Select

Template : Standard Print Template

Layout

- Summary  
Summary Settings
  - BP Avg
  - Awake Avg
  - Sleep Avg
  - Max
  - Percentage
  - Circadian
  - CV %
  - Pulse
  - Morning
  - Comment
- Partial Data
- BP Data
- Histogram
- Pie Graph
- Trend Graph  
Trend Graph Sett
  - Acceleration
  - Activity
- Scatterplot

Apply Save

**Hospital Name**  
BP Data

Name:SampleData      Sex:Male      Age:0      Hospitalization No:  
Outpatient No:      Department:      Bed No:  
Time:11:44 2018-03-07 --- 14:30 2018-03-08      ID:

---

Valid readings:47 items      Sleep Time:21:00 --- 09:00

(1)BP Avg 111/77 mmHg(Reference130/80 mmHg)

(2)Awake Avg 116/80 mmHg(Reference135/85 mmHg)

(3)Sleep Avg 105/73 mmHg(Reference120/70 mmHg)

(4)Max SYS: 166mmHg In22:30      Max DIA: 100mmHg In22:30  
Min SYS: 73mmHg In 05:00      Min DIA: 52mmHg In05:00

(5)Awake BP:      Sleep BP:

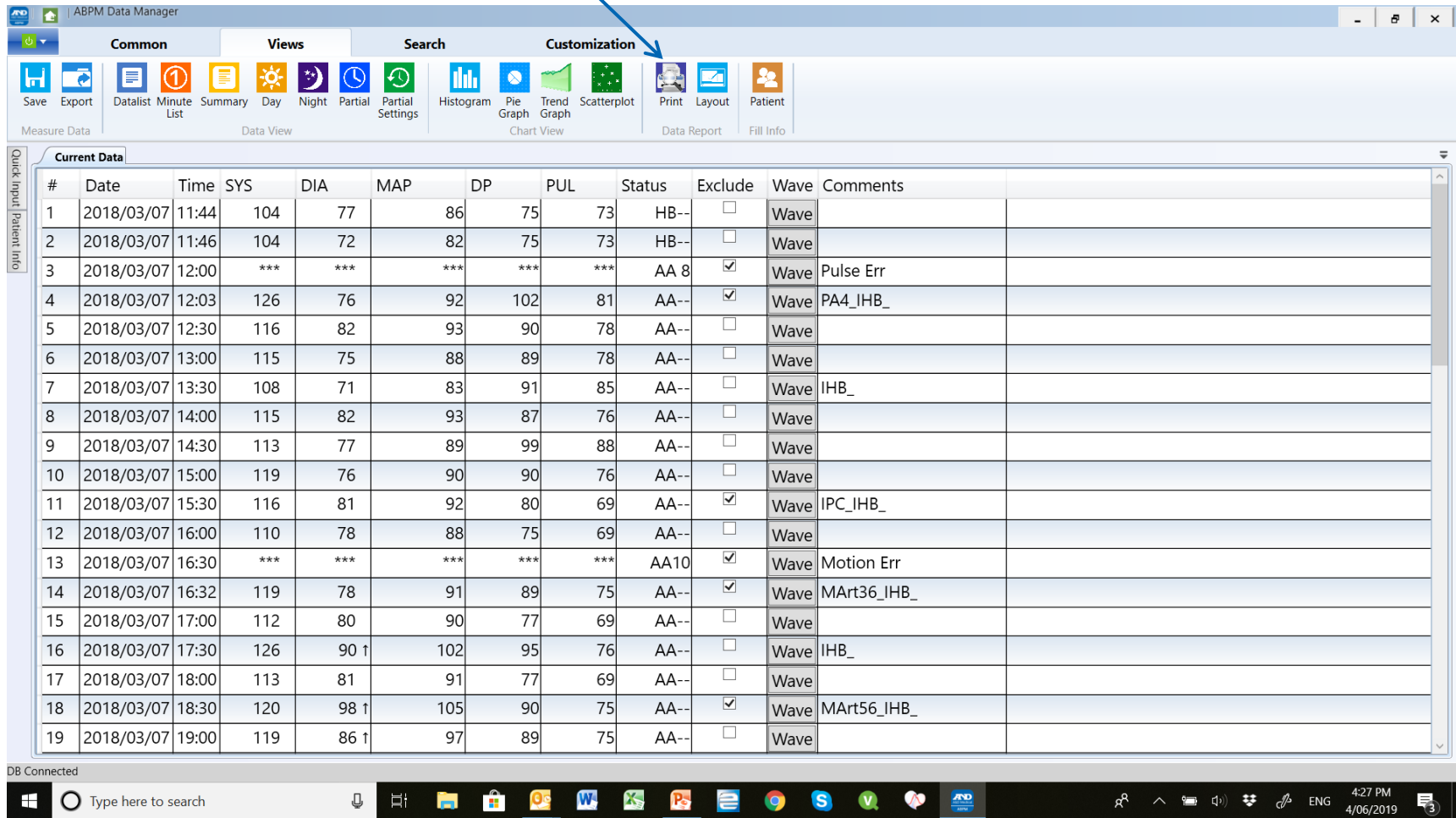
SYS( >135 mmHg) 3.70%      SYS( >120 mmHg) 15.00%  
DIA( >85 mmHg) 22.22%      DIA( >70 mmHg) 55.00%

Type text to find...

Type here to search

4:24 PM 4/06/2019

# Click on Print Icon and select printer



The screenshot shows the ABPM Data Manager software interface. The 'Customization' menu is open, and the 'Print' icon is highlighted with a blue arrow. The main window displays a table of patient data with columns for #, Date, Time, SYS, DIA, MAP, DP, PUL, Status, Exclude, Wave, and Comments. The table contains 19 rows of data.

#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Wave	Comments	
1	2018/03/07	11:44	104	77		86	75	73	HB--	<input type="checkbox"/>	Wave	
2	2018/03/07	11:46	104	72		82	75	73	HB--	<input type="checkbox"/>	Wave	
3	2018/03/07	12:00	***	***		***	***	***	AA 8	<input checked="" type="checkbox"/>	Wave	Pulse Err
4	2018/03/07	12:03	126	76		92	102	81	AA--	<input checked="" type="checkbox"/>	Wave	PA4_IHB_
5	2018/03/07	12:30	116	82		93	90	78	AA--	<input type="checkbox"/>	Wave	
6	2018/03/07	13:00	115	75		88	89	78	AA--	<input type="checkbox"/>	Wave	
7	2018/03/07	13:30	108	71		83	91	85	AA--	<input type="checkbox"/>	Wave	IHB_
8	2018/03/07	14:00	115	82		93	87	76	AA--	<input type="checkbox"/>	Wave	
9	2018/03/07	14:30	113	77		89	99	88	AA--	<input type="checkbox"/>	Wave	
10	2018/03/07	15:00	119	76		90	90	76	AA--	<input type="checkbox"/>	Wave	
11	2018/03/07	15:30	116	81		92	80	69	AA--	<input checked="" type="checkbox"/>	Wave	IPC_IHB_
12	2018/03/07	16:00	110	78		88	75	69	AA--	<input type="checkbox"/>	Wave	
13	2018/03/07	16:30	***	***		***	***	***	AA10	<input checked="" type="checkbox"/>	Wave	Motion Err
14	2018/03/07	16:32	119	78		91	89	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt36_IHB_
15	2018/03/07	17:00	112	80		90	77	69	AA--	<input type="checkbox"/>	Wave	
16	2018/03/07	17:30	126	90	↑	102	95	76	AA--	<input type="checkbox"/>	Wave	IHB_
17	2018/03/07	18:00	113	81		91	77	69	AA--	<input type="checkbox"/>	Wave	
18	2018/03/07	18:30	120	98	↑	105	90	75	AA--	<input checked="" type="checkbox"/>	Wave	MArt56_IHB_
19	2018/03/07	19:00	119	86	↑	97	89	75	AA--	<input type="checkbox"/>	Wave	

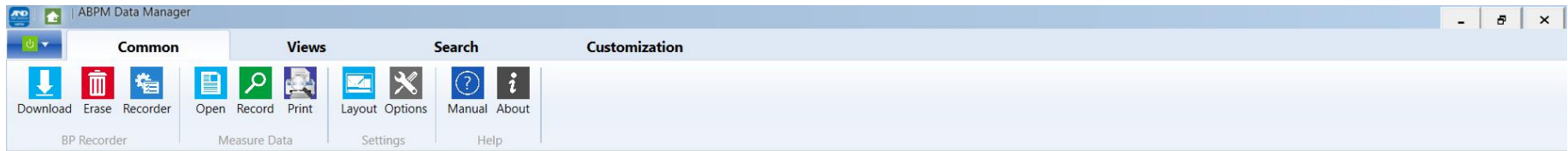
# Click on the print icon and select, your appropriate \*printer.



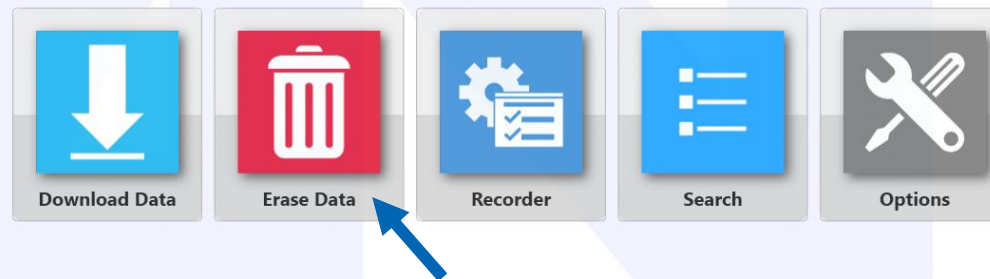
**\*Please note if installed on you PC you can select PDF creator to turn the report into a PDF document to be attached to the patients file.**

#	Date	Time	SYS	DIA	MAP	DP	PUL	Status	Exclude	Comments
1	2021/01/18	09:35	160 ↑	85	110	100	63	AA--		
2	2021/01/18	10:00	143 ↑	82						
3	2021/01/18	10:30	141 ↑	84						
4	2021/01/18	11:00	***	***						
5	2021/01/18	11:03	146 ↑	91 ↑						
6	2021/01/18	11:30	139 ↑	80						
7	2021/01/18	12:00	141 ↑	88 ↑						
8	2021/01/18	12:30	155 ↑	85						
9	2021/01/18	13:00	143 ↑	86 ↑						
10	2021/01/18	13:30	136 ↑	81						
11	2021/01/18	14:00	151 ↑	84						
12	2021/01/18	14:30	156 ↑	71						
13	2021/01/18	15:00	146 ↑	86 ↑						
14	2021/01/18	15:30	152 ↑	94 ↑						
15	2021/01/18	16:00	158 ↑	98 ↑						
16	2021/01/18	16:30	137 ↑	89 ↑						
17	2021/01/18	17:00	139 ↑	84						
18	2021/01/18	17:30	134	87 ↑						
19	2021/01/18	18:00	133	89 ↑						
20	2021/01/18	18:30	145 ↑	90 ↑						
21	2021/01/18	19:00	197 ↑	60						
22	2021/01/18	19:30	142 ↑	81						
23	2021/01/18	20:00	130	85	100	81	63	AA--		
24	2021/01/18	21:00	169 ↑	84	112	106	63	AA--		
25	2021/01/18	22:00	131	86 ↑	101	79	61	AA--		
26	2021/01/18	23:00	136 ↑	84 ↑	101	82	61	AA--		
27	2021/01/19	00:00	155 ↑	98 ↑	117	116	75	AA--		
28	2021/01/19	01:00	173 ↑	90 ↑	117	129	75	AA--		
29	2021/01/19	02:00	116	54	74	73	63	AA--		
30	2021/01/19	03:00	116	72 ↑	86	64	56	AA--		

# Deleting data from the TM-2440



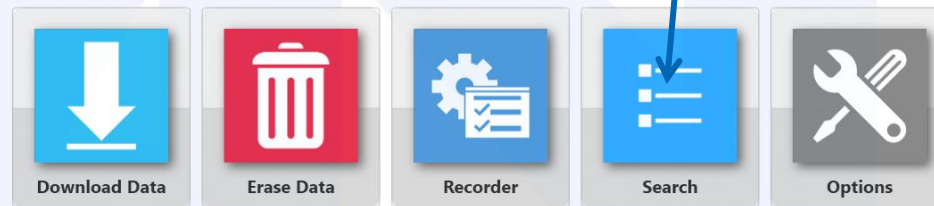
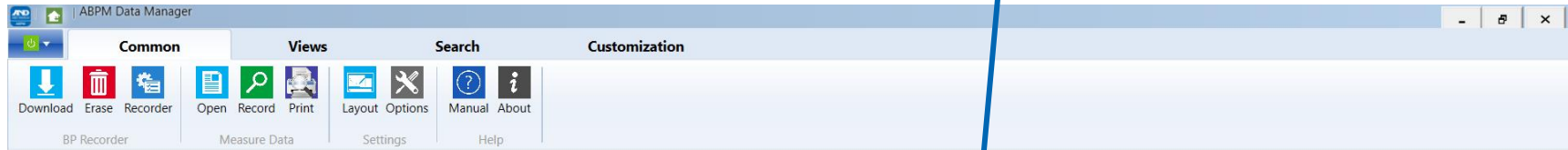
Once you have saved the results and printed a report you need to clear the patient's data from the TM-2440, otherwise they will remain in the device and appear on the next patients results.



With the TM-2440 connected to the PC select “Erase Data” and follow the on-screen instructions to erase the data.



# To view a patients data select Search



# Double click on the patient.



ABPM Data Manager

Common Views Search Customization

Record Patient

Data Search

Record Search

Name

Phone

Date  15

Social No

Insurance

Out No

Hos No

#	Date	Time	Name	Sex	Social No	Hos No	Out No	Insurance	Bed No	Update Date	
9	2019-06-04	15:00	Brian Test							2019/06/04 04:03	<input type="button" value="Delete"/>
3	2018-03-07	11:00	SampleData	Male						2019/04/18 11:51	<input type="button" value="Delete"/>
8	2019-04-09	10:00	Test 1							2019/04/09 12:18	<input type="button" value="Delete"/>
7	2019-03-22	13:00	input							2019/03/22 01:23	<input type="button" value="Delete"/>
6	2019-03-22	13:00	TEst	Male						2019/03/22 01:19	<input type="button" value="Delete"/>
5	2019-02-01	09:00	Sandra Young	Female						2019/02/01 01:29	<input type="button" value="Delete"/>
4	2019-01-31	10:00	Test 2							2019/02/01 01:00	<input type="button" value="Delete"/>
2	2019-01-29	12:00	Test 2441							2019/01/29 02:14	<input type="button" value="Delete"/>
1	2019-01-29	10:00	Test							2019/01/29 11:40	<input type="button" value="Delete"/>

15 items per page/total 9 items

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