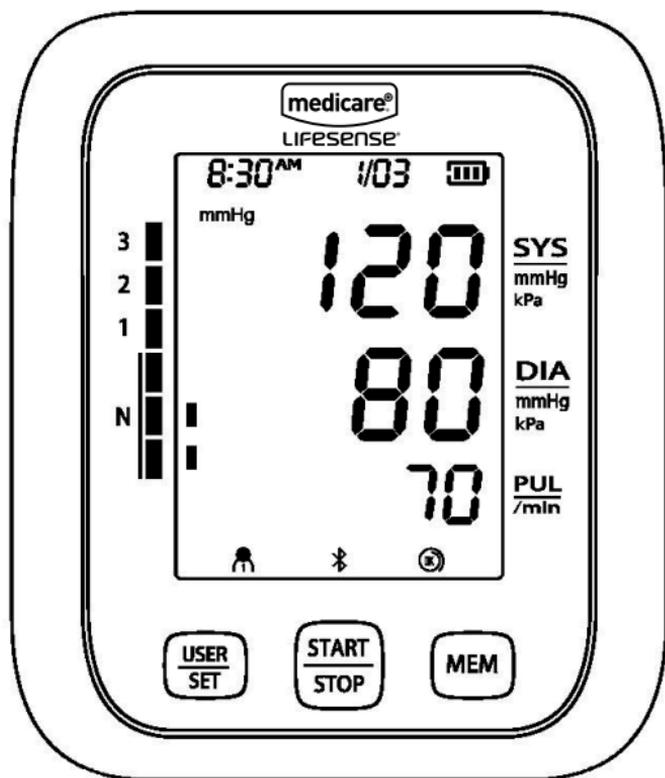


MEDICARE LIFESENSE A2 PLUS BLOOD PRESSURE MONITOR



USER MANUAL

MD1803 (JPD-HA120)

Version: V2.1

Revision Date: 2021.2

CE
0482

Product Composition

The product is comprised of the host machine and the cuff of the MD1803 A2 Plus Blood Pressure Monitor.

Application Scope

The MD1803 A2 Plus Blood Pressure Monitor is used to measure the diastolic pressure, systolic pressure and pulse rate of adults by oscillometric method for diagnostic reference.

Safety Precautions

The warnings and illustrations shown in the User Manual enable you to use the product safely and correctly, thus preventing you and others from being injured, specifically as follows:

Legend, mark and meaning	
	Warning message.
	The symbol indicates that the device should be sent to the special agencies according to local regulations for separate collection after its useful life.
	This symbol indicates that the device includes IEC 60601-1 Type BF Applied Part.
	Symbol for "THE OPERATION GUIDE MUST BE READ"; Indicates the need for the user to consult the instructions for use.
	Bluetooth® Device.
	To indicate that precaution should be taken to avoid an unexpected effect of non-ionizing radiation, for example, microwave energy.
IP21	Degree of protection against the ingress of water.
	This product complies with the MDD93/42/EEC requirements.
	Information of manufacturer.
	Date of manufacture.
	Authorised European Representative

Quick Start Guide

A good time to check your blood pressure is first thing in the morning and then again about 12 hours later. You should avoid caffeine, exercise and smoking for at least 30 minutes and sit comfortably for 5 minutes before checking your blood pressure.

1. Sit upright in a chair with both feet on the floor.
2. Remove tight fitting clothing from your upper arm along with any thick clothing.
3. Pull the cuff onto your bare arm making sure the bottom of the cuff is directly above the bend of the elbow and the arm is supported on a flat surface at heart level with the palm of your hand facing upwards. The air tube should be running down the inside of your arm.
4. Sit with your back supported, legs uncrossed and feet flat on the floor. Try to stay relaxed and avoid talking during the reading.



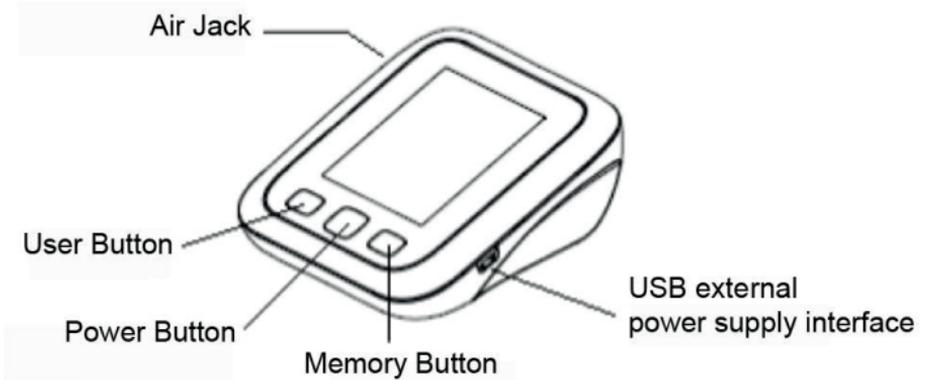
5. Upon pressing the "START/STOP" button, the cuff will automatically inflate, tighten around your arm and then release. Wait for automatic deflation.

6. The reading will show on the monitor once the cuff has deflated. The reading will show your systolic and diastolic pressure values as well as your pulse rate. If you have the device connected to our Medicare LifeSense® Application, your blood pressure result will automatically sync to the app on your phone. For more information on our Medicare LifeSense® Application, please read the app user manual supplied with this device.



Overview

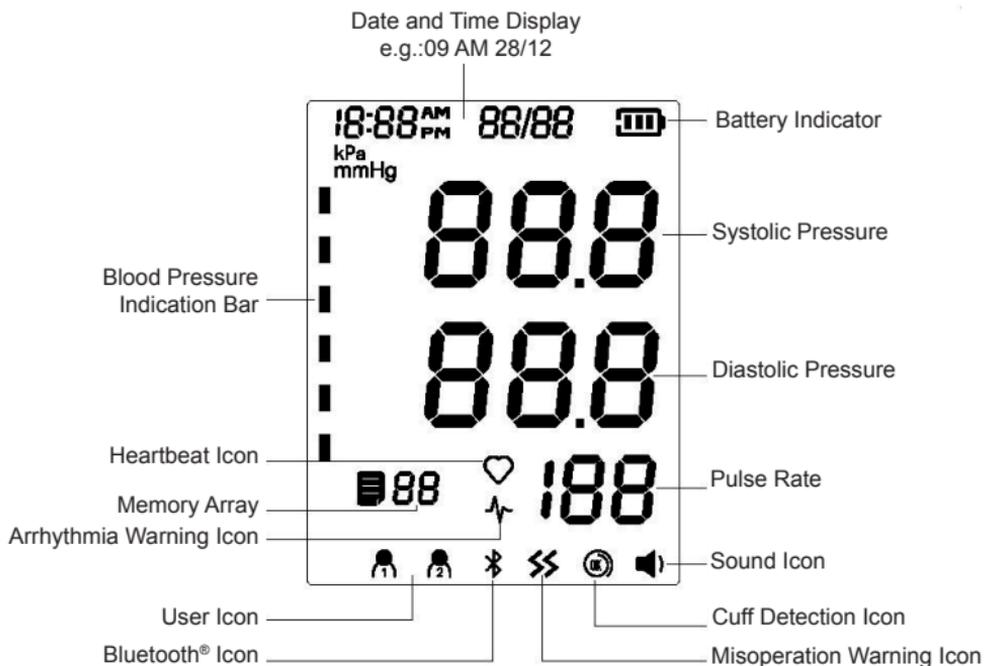
Monitor



Features

- **Universal Cuff**
- **Irregular Heartbeat Detector**
- **99 Readings * 2 Users**
- **Bluetooth Transmission Function**
- **Auto-off Power Saving Feature**
- **Operated by 4 AA batteries (USB 5V optional)**

Display



Packing List

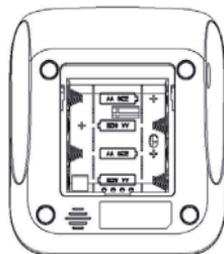
No.	Name	Quantity
1	Electronic Blood Pressure Monitor	1
2	Cuff	1
3	Dry Battery (AA)	4
4	User Manual	1
5	Zipped Carrying Bag	1

Preparation

2.1 Battery Installation

a) Open the battery cover as shown in the picture.

b) Place 4 AA dry batteries. Pay attention to the battery electrode indication.



2.2 Battery power indication and replacement

After the product is turned on, if low power symbol  appears on the screen, the measurement cannot be performed, and the battery must be replaced.



Do not use any expired battery;



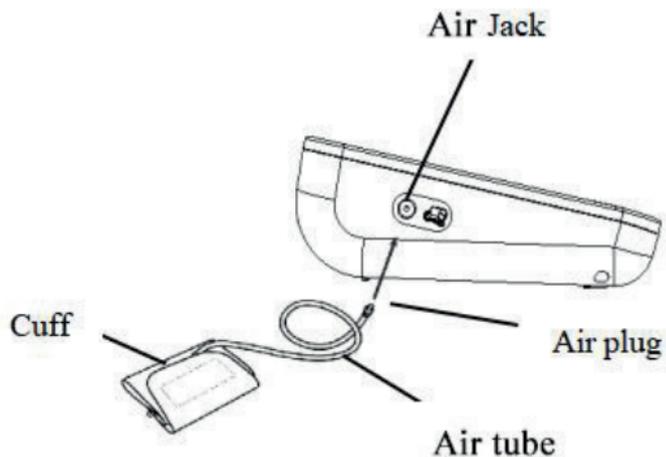
If the product is not used for over 3 months, please take out the batteries.

2.3 USB Power Supply

USB line can be connected for power supply of the product without battery.

2.4 Cuff

The applicable arm circumference range of the cuff is 22~32cm.

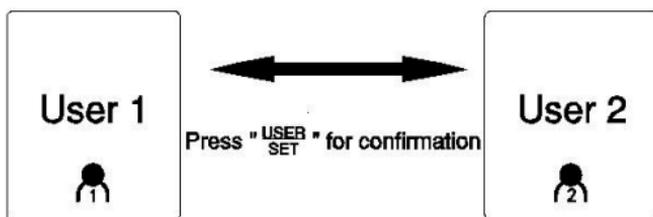


Connection: Insert the tube connected to the arm cuff into the air jack of the Electronic Blood Pressure Monitor. Figure shown as above.

Function Setting Mode

3.1 User mode

Switch between “User 1” and “User 2” can be processed in the “OFF” state or upon the measurement completion, by short press on the “USER” button.



3.2 Year/Month/Date/Time setting

In the “OFF” state, enter the setting mode by long press on the “USER” button for 3~5s.

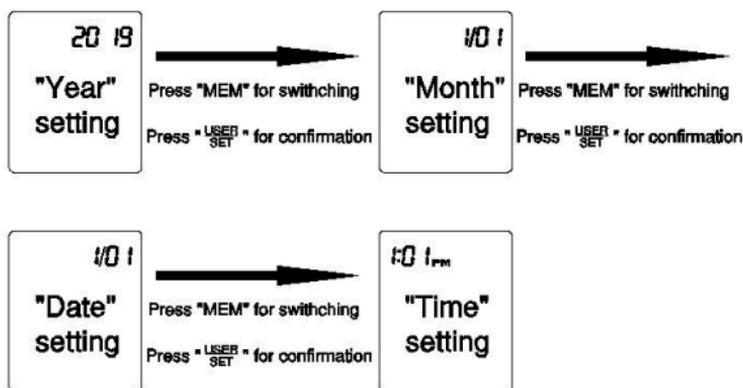
After entering the “Year” setting mode, the flashing 20XX will show on the screen. Press the “MEM” button, and the value will be incremented among 2019 and 2099. Press the “USER” button for “Year” value confirmation and move to the “Month” setting mode.

After entering the “Month” setting mode, 1/01 will flash on the screen. Press the “MEM” button, and the value will be incremented among 1 and 12. Press the “USER” button for “Month” value confirmation and

enter the “Date” setting mode.

After entering the “Date” setting mode, 1/01 will flash on the screen. Press the “MEM” button, and the value will be incremented among 01 and 31. Press the “USER” button for “Date” value confirmation and enter the “Time” setting mode.

After entering the “Time” setting mode, XX:XX will flash on the screen. Press the “MEM” button, and the “Hour” value will be incremented among 1~12 AM/PM. Press the “USER” button for “Hour” value confirmation and enter the “Minute” setting mode. Press the “MEM” button, and the value will be incremented among 00 and 59.



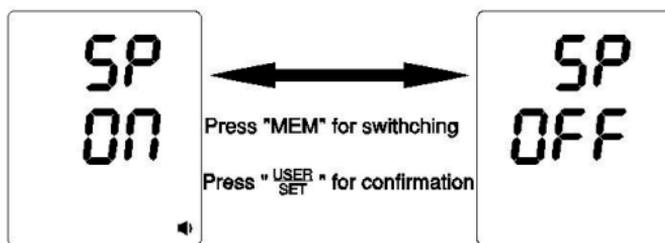
Note:

When setting time values, continue pressing the "MEM" button till the correct values are well set. Value ranges are year (2019~2099), month (01~ 12), date (01~31), hour (1~12 AM/PM) and minute (00~59). When the ceiling value of a certain time sector is reached, the relevant value of

the sector will start from the minimum individually.

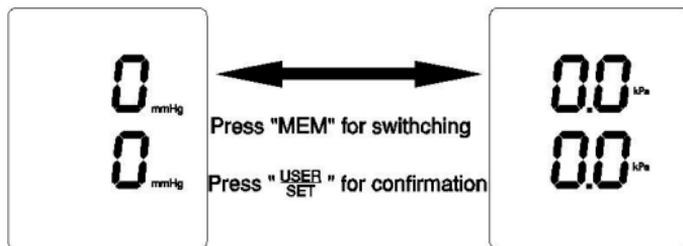
3.3 Talking function setting (voice version only)

After entering talking function setting mode, “SP” will show up at the SYS area, with the current voice status “ON” / “OFF” and voice icon (not displayed, when talking function mode is off) at the DIA area. Press the “MEM” button to switch the voice status, and press the “USER” button for confirmation.



3.4 Unit setting

Either 0 or 0.0 will show up on the screen, upon entering the “Time” setting mode, by pressing the “USER” button. Display of 0 indicates that the mmHg unit is selected; display of 0.0 indicates that the kPa unit is selected. Unit will be switched upon every press on the “MEM” button. After the unit is selected, press the “USER” button again to save the unit setting.



Correct Method of Use

4.1 How to use the cuff

- (1) Place the cuff flat on the table, leave the hook & loop downwards, and pass the end of cuff through the metal ring to form a loop. The hook & loop shall point outwards.
- (2) Pull the cuff through the upper arm to be measured, and wear the cuff correctly based on the downward icon “ Φ ”, the air tube runs down the inside of your arm..
- (3) Hook up the cuff on the upper arm according to the illustration, ensure that the lower edge of cuff is 2~3cm away from the elbow joint.
- (4) Tighten the free edge of cuff to stick the hook & loop.
- (5) The cuff should be wrapped on the upper arm comfortably, with tight space for two fingers. Before measurement, remove tight fitting clothing from your upper arm along with any thick clothing.
- (6) Place the lower arm flat on the desktop, leaving the center of palm naturally upwards, sitting upright, and ensuring the center of cuff and the heart are at the same level. Note that the tube of cuff cannot be folded or bent.

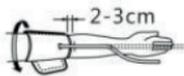
Note: If you cannot use the left arm for measurement, please use the right arm for measurement. All the measurements must be performed on the same arm for comparison.



- (1) Wrap the cuff in a circle and place the end of the cuff through the metal loop.



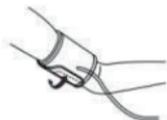
- (2) Place your arm through the cuff bringing it just past your elbow joint.



- (3) Make sure the cuff is 2-3cm above the elbow joint.



- (4) Secure the cuff in place with the velcro strip.



- (5) Adjust the cuff leaving enough space for two fingers.



- (6) Place your arm on a table or similar object to keep the cuff at the same level as your heart.



- (7) Always measure with the same arm to get the best results.

4.2 Starting measurement

Power on state, after you wear the cuff correctly, the “cuff detection icon (OK)” lights up, then you can start the measurement:

(1) Press the “START/STOP” button, and the device will return to zero automatically, the air pump will start to inflate the cuff, and the screen will display the change of the pressure in the cuff.

(2) When reaching the stable pressure upon inflation, the air pump will stop the inflation, and the pressure in the cuff will be reduced gradually and displayed on the screen. If the inflated pressure is insufficient, the device will reinflate the cuff automatically for a higher pressure;

(3) When the pulse is measured, the screen will display the “heart” symbol and start flashing. The flashing “heart” symbol will be displayed

on the screen.

(4) Upon measurement completion, the measured values of systolic pressure, diastolic pressure and pulse will be displayed on the screen.

(5) The screen will continue to display the measurement results, unless your long-press on the “START/STOP” button to turn off the device. If there is no operation, the device will be powered off automatically in 30s.

Note: When the icon  shows up, it means body movements during the measurement, which may result in incorrect measurement.

4.3 Using memory function

This blood pressure monitor is available for 2 users with 99 memories per user. If the 99 groups of memory data are full, they will be replaced automatically. After the blood pressure monitor has been used for several times, in the OFF state, you can press the “MEM” button to display the latest measurement result, and track the rest data one by one via pressing the “MEM” button.

4.4 Clearing stored measurement data

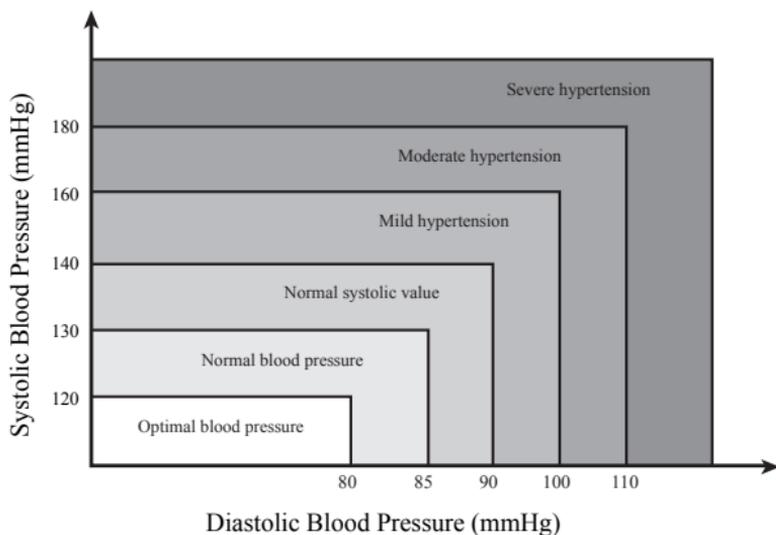
In memory mode, you can delete all the measurement data of the two users by pressing the “MEM” button for 3 seconds.

4.5 Use Bluetooth function

See the Medicare Lifesense App Manual.

4.6 Classification standard for blood pressure condition

If you are in the mild, moderate or severe hypertension category, you will need to call your doctor.



Correct according to the blood pressure classifications by the WHO*/ISH** (revised in 1999). WHO/ISH standard most commonly used.

*World Health Organisation

**International Society of Hypertension

Generally, if the systolic blood pressure is less than 100mmHg (13.3kPa), it is hypotension.

Contraindications, Precautions, Warnings and Prompt Instruction

(1) Warning:



Keep the device out of the reach of the children under 12 and people who can't express their intention. When children of 12~18 use the device, they should be accompanied by the adults. Pregnant women shall use under the guidance of doctors.



Do not wrap the cuff over a wound, as this can cause further injury.



This model of Electronic Blood Pressure Monitor is suitable for the arm circumference range of 22-36cm or 22-42cm, and if the arm circumference exceeds this range, you might fail to obtain the correct measured value of blood pressure;



This model of Electronic Blood Pressure Monitor is not suitable for newborns or young children;



The blood pressure is constantly changing. You shall not judge the blood pressure condition with just one measurement result. The repeated measurement data over a period of time will be more reliable;



Do not make self-diagnosis according to the measurement results. Please consult your professional doctor with the measurement result record(s). The treatment based on the self-diagnosis of

measurement results is very dangerous;

(2) Precautions:



Do not repair, disassemble or modify the Electronic Blood Pressure Monitor without permission;



Do not collide or drop the host to avoid collision or strong impact on the device;



Do not mix old and new batteries of different brands for use.



Indoor temperature, environment, noise, user's body position, speech or exercise might affect the blood pressure measurements. The body movement, magnetic field and improper wearing of cuff and sensor will affect the measurement as well.

Troubleshooting

* If you have trouble using the device, please check the following instruction.

Problem	Possible cause	How to correct
No display when press the Power button	Low battery	Replace new batteries or use the USB for power supply.
	The polarities of batteries are installed wrongly.	Install the batteries in correct polarities.
No pressurizing	The air plug is loosely installed.	Make sure the air plug is securely inserted in the main unit.
	The air tube is broken or leaked.	Purchase a new cuff.
“Err 1” displayed	The sensor doesn’t work.	Please contact us for after-sale service.
“Err 2” displayed	No pulse detected	Please check if the cuff wearing is correct, and follow Section 4.1 How to use the cuff
“ Err 3 ” displayed	The result of blood pressure is abnormal.	Please remeasure in the right way.

“Err 4” displayed	The cuff is not wrapped tight enough.	Please check if the cuff wearing is correct, and follow Section 4.1 How to use the cuff.
	The air bag of cuff is ruptured.	Replace with a new cuff.
“Err 5” displayed	The air tube is detected to be obstructed in the early stage of pressurization.	Please check if the air tube is clogged or folded before measuring Please measure again.
“Err 6” displayed	Signal interference	Remove interfering source e.g. mobile phones, magnets.
“Err 7” displayed	Pressure value exceeds the limit.	Don't touch the cuff during the measurement; Don't fold the air tube during the measurement.



Note: If your problem cannot be solved by the above, please contact customer service. Do not disassemble the device!

Storage & Maintenance

- Keep the device away from direct sunlight, extreme temperatures, humidity or moisture.
- Use a dry, soft cloth to clean the device, or if desired, use a cloth lightly dampened with water.
- Do not use corrosive cleaner, benzene, thinner or other volatile liquids to clean the device.
- Do not wash or expose the arm cuff to liquid.
- Remove batteries from the device when it will not be used for more than 3 months.

Disinfection:

Recommended disinfecting agent:

- Isopropanol solution with 70% concentration
- Medical alcohol with 75% concentration

Specifications

Product Name	A2 Plus Blood Pressure Monitor	
Model	MD1803 (JPD-HA120)	
Display Mode	Digital display mode	
Measuring Mode	Oscillographic method	
Measuring Body Part	Upper arm	
Measuring Range	Pressure value	0-295mmHg (0kPa-39.3kPa)
	Pulse value	40-199 pulse beats/min
Static measurement accuracy	Pressure value	$\pm 3\text{mmHg}$ ($\pm 0.4\text{kPa}$)
	Pulse value	$\pm 5\%$ of read value
LCD display	Pressure	Unit : mmHg/ kPa
	Pulse	Pulse rate per minute, displaying three digits
Storage capacity	It can store 99 groups of measurement data for each of two users	
Power supply	4 AA dry batteries /DC 5V USB external power supply	
Power Off Mode	Manual power-off/ Auto power-off	
Device weight (without batteries)	About 285g	

Monitor Size	138mm (length) *120mm (width) * 59mm (height)		
Screen Size	60mm (length) *77mm (width)		
Cuff	Upper-arm-type cuff (measured arm circumference 22-36cm or 22-42cm)		
Annexure	Cuff, User Manual, Dry battery, Zipped Carrying Bag		
Battery Life	High-performance dry battery can be used for about 300 times at normal temperature		
Service Life	5 years		
Date of Production	See label		
Operating environment	Temperature Condition	5 °C -40 °C	If the device is stored and used in the environment out of the designated temperature & humidity ranges, it cannot operate normally.
	Humidity Condition	15%-85 %RH	
	Atmospheric Condition	70kPa-106kPa	

Transportation and
Storage Environment

Avoid strong impact, direct impact, exposure or rain during transportation. The packaged Blood Pressure Monitor shall be stored indoors at the temperature of -20°C~55°C and the relative humidity of 10%~93%, atmospheric Condition: 70kPa-106k, without corrosive gas and with good ventilation.

Rev.:20052021

After-sale Service

After-sale service unit: **Fleming Medical Ltd.**

Address: Corcanree Business Park, Dock Road, Limerick,
V94 K6W4, Ireland

Tel (ROI): 1800 307777

Tel (UK): 0800 7314315

E-mail: info@flemingmedical.ie

Website: www.flemingmedical.ie

Authorized European Representative:

EC REP MedPath GmbH

Mies-van-der-Rohe, Strasse 8, Munich, GERMANY

 **Shenzhen Jumper Medical Equipment Ltd.**

D Building, No.71, Xintian Road, Fuyong Street, Baoan,
Shenzhen, Guangdong, CHINA

 **MedPath GmbH**

Mies-van-der-Rohe, Strasse 8, Munich, GERMANY

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