

# Mouthpiece Ventilation (MPV) For use with Non-Invasive Ventilation (NIV)

## What is MPV?

**MPV** is a treatment which provides short periods of ventilation throughout the day, without the requirement to wear your NIV mask.

## What is it used for?

**MPV** is useful to people who benefit from ventilation throughout the day to enable them to continue their usual daily work or social activities.

Where only short periods of day time ventilation are needed, MPV offers an alternative to putting on the NIV mask.

If you are unsure about the reason why you have been given MPV please ask the doctor or physiotherapist.



MPV shown  
attached to a  
wheelchair

MPV can be attached to any secure surface such as a table top, and is shown above attached to a wheelchair.

## Will I be seen by a Doctor, Nurse or Physiotherapist?

The whole medical team is involved in your care.

You will be assessed to determine your need for MPV by the clinical team.

If you are an inpatient you may be offered MPV during your stay.

If you are an outpatient, will be invited to an outpatient appointment which may last up to two hours when MPV is ready for collection.

If a second outpatient visit is needed your physiotherapist will arrange this with you.

During the MPV trial you will have a full explanation about MPV and how to use it.

You will also receive a list of contact numbers should you have any queries.

## When is MPV used?

This device can remain in standby when you are inside or outside your home and should enable you to continue daily and social activities, without having to return to the NIV mask for periods of ventilation.

If the ventilator is not in use please turn it off.

## How do I use it?

The MPV arm can be attached to a stable surface or to your wheelchair.

MPV will remain in a 'standby' mode ready use which means it is not blowing.

It is triggered to begin to blow by your taking a breath from the mouthpiece.

## Choosing MPV mode:

When MPV is in use the Trilogy ventilator operates in a different mode than you currently use at night.

Once your ventilator is turned on, you can change your ventilator to the MPV mode following these steps:

1. Use the arrow up button in the centre of the screen to open the 'menu'
2. 'Switch to Secondary settings' should be highlighted in a grey box
3. Choose 'select'



4. The device will then display 'Switch to Secondary Settings?'
5. Choose 'Yes'
6. Choose 'Exit' to return to the main screen

Image above shows 'Switch to secondary settings' option highlighted and ready to select.

To return the Trilogy to your usual night mode follow the same method but select 'Switch to Primary Settings'.

## Can I use oxygen with MPV?

If you use nasal cannula during the day time you can leave these in place whilst using MPV.

## What equipment will I be given?

- Trilogy Ventilator
- Mouthpiece / straw
- MPV arm
- Tubing
- Filters
- 'In-use' bag

## Ventilator:

Currently we are only able to provide mouthpiece ventilation in the form described in this leaflet via the Trilogy 100 ventilator which you will also be using at night.

The ventilation team may decide to provide you with two ventilators and will discuss this with you if needed.

## Mouthpiece:

There are two options of mouthpiece as seen below.

Not everyone can manage the straw option, as it can be difficult to seal your lips around it.



Mouthpiece



Straw

## MPV arm:

There are a few types of MPV arm which will look similar to the picture below, and will attach to a surface or wheelchair using a vice.



MPV arm

### **'In-use' bag:**

Your Trilogy ventilator can be attached to the back of your wheelchair using an 'in-use' bag.

If you would like to use MPV whilst in your wheelchair please ask your physiotherapist for one of these bags.

### **Humidification:**

It is not possible to use humidification with the MPV circuit.

### **Information about cleaning my equipment**

#### **MPV arm:**

Wipe over the MPV arm with a damp cloth weekly and leave to air dry.

#### **Mouthpiece:**

Please clean the short mouthpiece or straw every 2-3 days with warm soapy water and allow to air dry.

#### **Filters:**

The bacterial filter used with the MPV circuit should be changed 6-12 monthly.

If it is visibly soiled it is acceptable to change the filter as required.

#### **Tubing:**

The tubing should be changed every 6 months.

It is not required to wash the tubing as you do not breathe out in to the tubing.

### **Exhalation valve:**

There is no exhalation valve in the MPV circuit as you do not breathe out in to the mouth piece

### **When travelling with your ventilator:**

Ventilator users that are deemed to be ventilator dependant should already have two ventilators with batteries.

You should discuss your level of dependency with your ventilation team.

Anyone who is unable to safely miss a night of NIV treatment should take away at least one spare ventilator and battery backup.

You will need to give us 8 weeks' notice to arrange this.

### **Machine Maintenance and repair**

For a breakdown or fault with the NIV machine or humidifier, please contact an engineer at Deva Medical on:

24hr emergency number 0772 088 3276

Office hours 01928 565 836

### **Contact information:**

If the MPV arm is broken or you feel unsure of how to use it, please contact one of the physiotherapists at Aintree Hospital:

**Telephone 0151 525 5980 BLEEP 3334**

Karen Ward / Helen Ashcroft / Verity Ford

Available: Mon – Fri, 9 am - 4 pm.

### **For replacement equipment ONLY:**

Please contact:

Marie Pearce on 01515253504

### **Feeling Unwell?**

If you are feeling unwell and need medical advice please contact your own G.P. who

will be able to assess and advise you.

If you are taken acutely unwell and require admission to your local hospital please take your ventilator and this booklet with you.

## Home NIV Settings / Prescription:

Patient Name:

Date:

### Ventilator One

Trilogy Serial no. TV

Humidifier: Yes / No

DATE:	Primary settings	Secondary settings
Mode		
X	X	MPV: On
IPAP		
EPAP		
BPM		
TV		X
Ti		
Rise Time		
Oxygen		
Alarms		
Circuit DC		OFF
Low VTE		OFF
High VTE		OFF
Low Min Vent		OFF
High Min Vent		OFF
Low RR		OFF
High RR		OFF

This is your NIV prescription which will be completed by your physiotherapist when MPV is provided.

Please keep it in a safe place as the Deva

Medical engineers or hospital teams may request it from you if your NIV machine needs repair, or if you are admitted to hospital.

### Ventilator Two

Trilogy Serial no. TV

DATE:	Primary settings	Secondary settings
Mode		
X	X	MPV: On
IPAP		
EPAP		
BPM		
TV		X
Ti		
Rise Time		
Oxygen		
Alarms		
Circuit DC		OFF
Low VTE		OFF
High VTE		OFF
Low Min Vent		OFF
High Min Vent		OFF
Low RR		OFF
High RR		OFF



### If you require a special edition of this leaflet

This leaflet is available in large print, Braille, on audio tape or disk and in other languages on request. Please contact:

**Tel No: 0151 529 2906**

**Email: [interpretationandtranslation@aintree.nhs.uk](mailto:interpretationandtranslation@aintree.nhs.uk)**