

# Koo Medical Equipment



# Koo Europe srl





# Koo Medical Equipment

Koo Medical Equipment is a multinational company that has been working for many years in the medical industry. Its headquarters and its production unit are located in the Far East.

The company specialises in the manufacture of plastics for medical use. Our staff's commitment and expertise are a guarantee in the development and production of specialized products used for anesthesia or respiratory support. Koo Medical Equipment has branches in Europe and Asia.

Every branch provides sales and, marketing support and constant group's collaboration allows the development of innovative solutions in the design and manufacture of medical devices.

A continuous control of raw materials used in the manufacture of our products and of the services offered to our partners is the basis of all the activities carried out by Koo Medical Equipment.

Each product designed and manufactured by Koo satisfies the strictest qualitative standards required by the market and all products are certified according to the European standards for Medical Devices attested by DNV-BUSINESS ASSURANCE-NORWAY-CE0434 class IIa.

The production plants are certified ISO 9001 and ISO 13485 and FDA approval.

The respect for absolute quality in the anesthesia mask's production makes the company a world class manufacturer.

The same attention is used everyday in all the activities carried out by the company in order to maintain high-quality standards both for the devices manufactured and for the services offered, thus achieving an excellent relationship with our partners.

Every product is manufactured with PVC materials, DEHP and BPA free



# *Koo Medical Equipment*

## *Present The Program for*

- *Anesthesia*
- *Ventilation*
- *Rehabilitation*
- *Asthma*
- *Veterinary medicine*

# *Koo Medical Equipment*

## *Present The Program for Ventilation*

### *CPAP*

#### *Continuous Positive Airway Pressure*

- *Cardiogenic pulmonary edema*
- *postoperative hypoxemia*
- *Outbreaks broncopneumonici*
- *Atelectasis*
- *Thoracic traumas*



### *N.I.V.*

#### *Non Invasive Ventilation*

- *Patients BPCO*
- *patients with acute respiratory*
- *Insufficiency or chronic*
- *Patients with obstructive sleep apnea*
- *patients with acute respiratory failure after trauma*
- *Patient with asthma*
- *Patients with pneumonia*
- *Patients with a low immune defense*

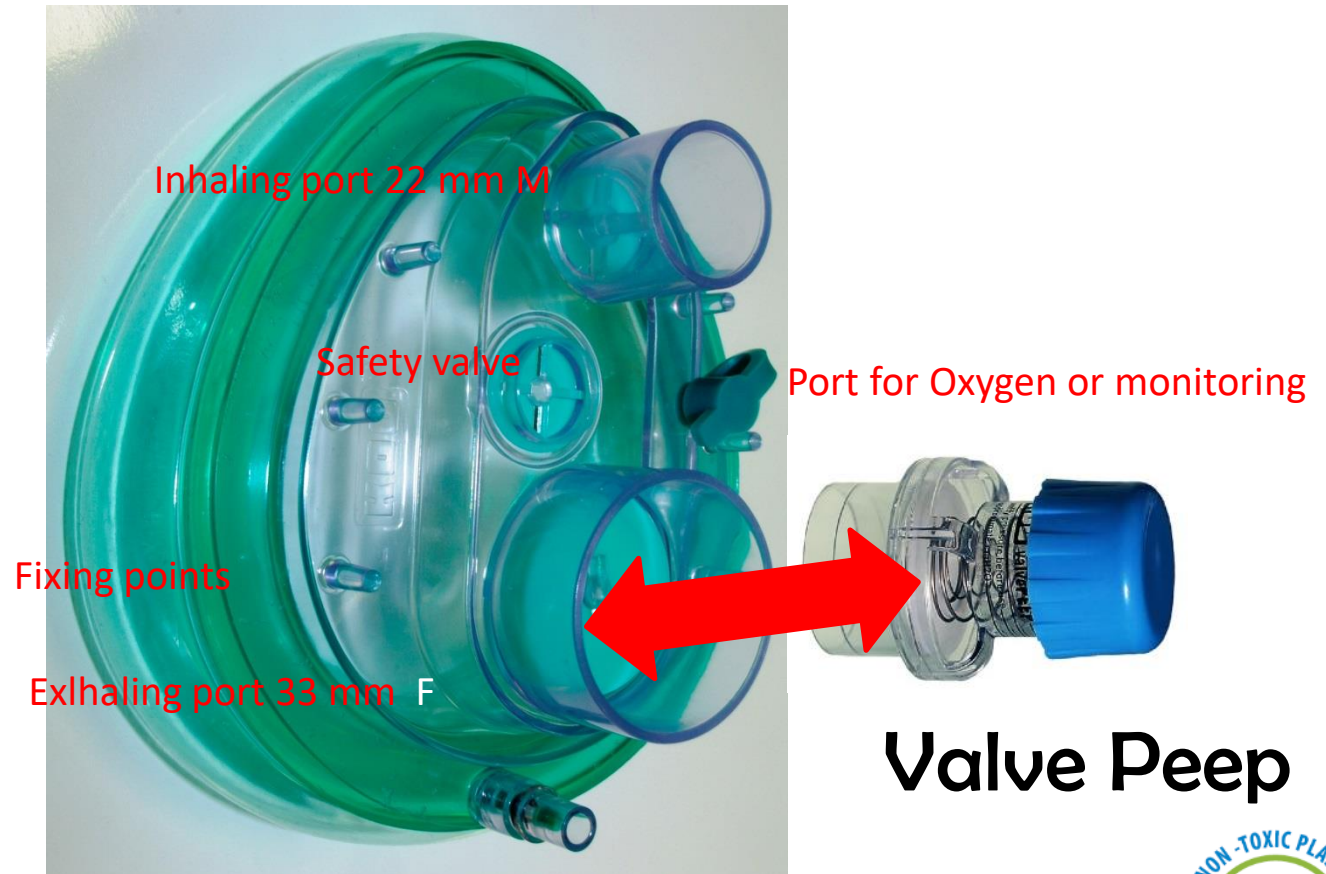
# ZEPHIR CPAP FACE MASK



- Face mask devised for CPAP, with valved inspiratory and expiratory ports
- With the safety valve
- Thanks to the inflatable cushion, the mask adjusts perfectly to the patient's face preventing air leakage.
- High transparency allows good visibility
- Port for adding and monitoring O<sub>2</sub>
- Expiratory port fits KOO adjustable PEEP valve KM - 809



# ZEPHIR CPAP FACE MASK



CPAP

# CPAP Zephir<sup>TM</sup> Masck

Description	Item.	Size	Materials	Storage	Class M.D.
ZEPHIR CPAP	KM-301DA	Deep Large	PVC	Temp -10°/+45° Humidity 30% 80%	II a
ZEPHIR CPAP	KM-301A	Large	PVC	Temp -10°/+45° Humidity 30% 80%	II a
ZEPHIR CPAP	KM-303A	Small	PVC	Temp -10°/+45° Humidity 30% 80%	II a

CPAP





# Valve Peep adjustable from 5 to 20 cmH<sub>2</sub>O



- With connection OD 33 mm for CPAP mask KM-301A, KM-301DA, KM-303A.
- With two reducer connectors They allow a universal use the valve for helmets, mask and circuits (included in the KM-809)



KM-809A



KM-809



Description	Item.	O.D.	Materials	Storage	Class M.D.
Valve Peep	KM-809	33 mm	PVC	Temp -10°/+45° Humidity 30% 80%	II a
Valve Peep	KM-809A	22 mm	PVC	Temp -10°/+45° Humidity 30% 80%	II a

CPAP

# Headgear for CPAP Masks

- In elastic and breathable material 100% acrylic
- Soft and easy to use
- Single patient use



Description	Item.	Size	Storage
Fixing mask for mask CPAP	KM-P007	Large	Temp -10°/+45° Humidity 30% 80%
Fixing mask for mask CPAP	KM-809A	22 mm	Temp -10°/+45° Humidity 30% 80%

Innovative range of masks

N.I.V. Bluestar Plus™

*The air at service of breathing*



**Lightness**

**Seal**

**Comfort**

N.I.V.

# The air at service of breathing.

## ***The lightness of the air***

The use of the air cushion allows a reduction of weight.  
A mask lighter requires a lower pulling force  
from the headgear , to keep it stable

## ***The seal of the air cushion***

The air cushion, anatomically designed, ensures  
an excellent control of the seal,  
avoiding losses peripherals unpleasant

## ***The comfort of the anatomical cushion***

The anatomical air cushion allows a distribution  
of the pressure sealing eliminating dangerous pressure's drops.  
The complete adjustment of the mask and  
the use of a headgear made of breathable material,  
makes the mask highly accepted by most patients,  
preventing the interruption of ventilation, during use of the mask.



## BLUESTAR PLUS™ Intensive



### Facial Mask Bi level CPAP **Non-vented**

Its design makes it widely versatile, the presence in the Kit of 3 connectors allows it to operate with different configurations of circuits.

The connector with hole for exhalation allows to transform the mask from **Non-vented** to **vented**. A port on the connector allows the O2 enrichment or monitoring.

# The air at service of breathing.

## BLUESTAR PLUS™ Intensive



No ventilate one way

No ventilate two way

Ventilate one way

- *Replaceable anatomic air cushion*
- *Wide range of fixing points*
- *Headgear mask fixer in highly breathable material and with wide bearing surface for better forces distribution*
- *Operative openings for O2 enrichment and for monitoring*
- *Port for the passage of the gastric tube, or the introduction of the bronchoscope, or for simple needs of the patient*
- *Front support fully adjustable and removable.*





## BLUESTAR PLUS™ Secure



### Facial Mask – **Secure** Bi level CPAP **Non-vented**

The presence of a safety valve Anti-**Asphyxia**, permits a reasonable airflow even in case of the flowlack coming from the fan.

There is a rotating connector a 360° blue color with a diameter of 22 mm F.

### BLUESTAR PLUS **Secure** with **Security valve A.A.V.**

- *Replaceable anatomic air cushion*
- *Wide range of fixing points*
- *Headgear mask fixer in highly breathable material and with wide bearing surface for better forces distribution*
- *Operative openings for O2 enrichment and for monitoring.*
- *Port for the passage of the gastric tube, or the introduction of the bronchoscope, or for simple needs of the patient*
- *Safety valve with immediate opening in the event of flow lack*
- *Front support fully adjustable and removable*



## BLUESTAR PLUS™ HomeCARE



### Facial Mask - *Home CARE* Bi-level CPAP Vented

The presence of exhalation holes, the safety valve Anti Asphyxia and the replaceable air cushion, make this mask the most versatile for use in the ventilation of the patient at home-care.

**BLUESTAR PLUS *Home-CARE* with exhalation holes and security valve A.A.V *Home-Care***

- *Replaceable anatomic air cushion*
- *Wide range of fixing points*
- *Headgear mask fixer in highly breathable material and with wide bearing surface for better forces distribution*
- *Operative openings for O2 enrichment and for monitoring.*
- *Port for the passage of the gastric tube, or the introduction of the bronchoscope, or for simple needs of the patient*
- *Safety valve with immediate opening in the event of flow lack*
- *Exhalation holes for a correct evacuation of the exhaled breath*
- *Front support fully adjustable and removable*



# The air at service of breathing.

BLUESTAR PLUS™  
Intesive



BLUESTAR PLUS™  
Secure



BLUESTAR PLUS™  
HomeCARE



N.I.V.

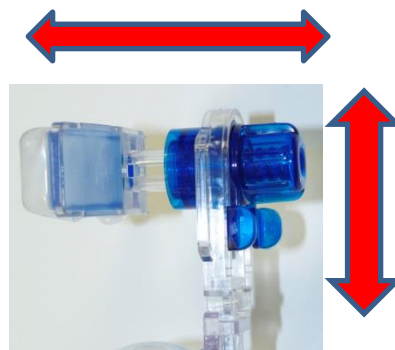


# The air at service of breathing.

Old Forehead Space

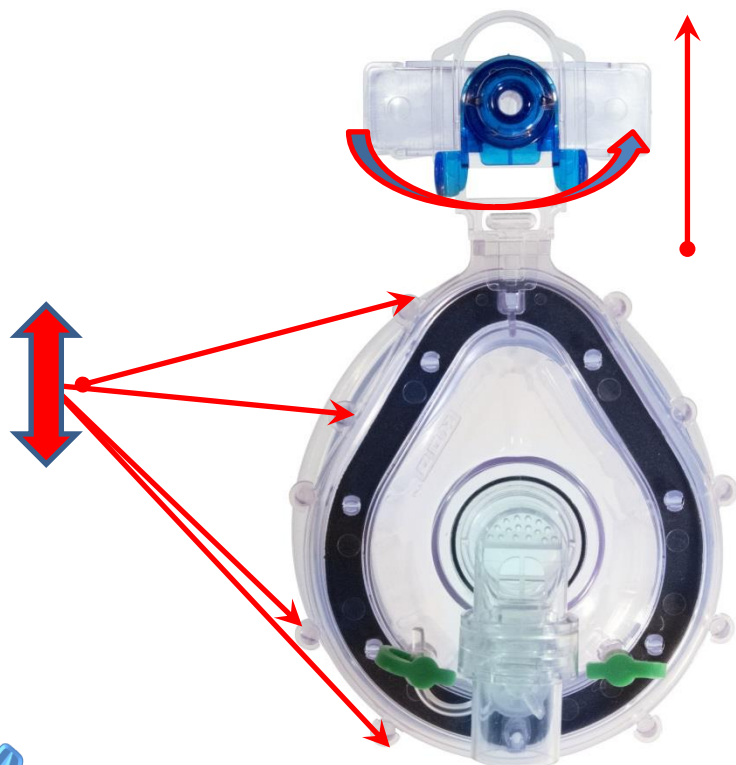


New Forehead Space



N.I.V.





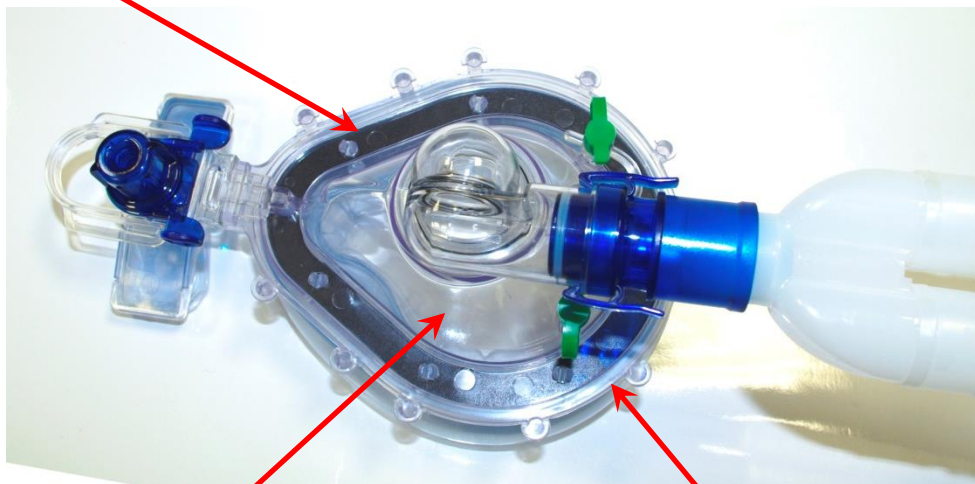
## BLUESTAR PLUS™

- Wide range of settings.
- 4 different mobile angles fastening to the head
- 3 degrees of freedom for the front support to get a comfortable and safe positioning

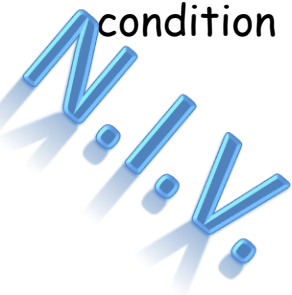
N.I.V.

- Light, a weight reduction of approximately 40% compared to the competition

## BLUESTAR PLUS™



- Transparent, for a constant monitoring of the patient's condition
- Sealing cushion in PVC for a better fit to the face and containment of spill that can create problems for patients.





# The air at service of breathing.



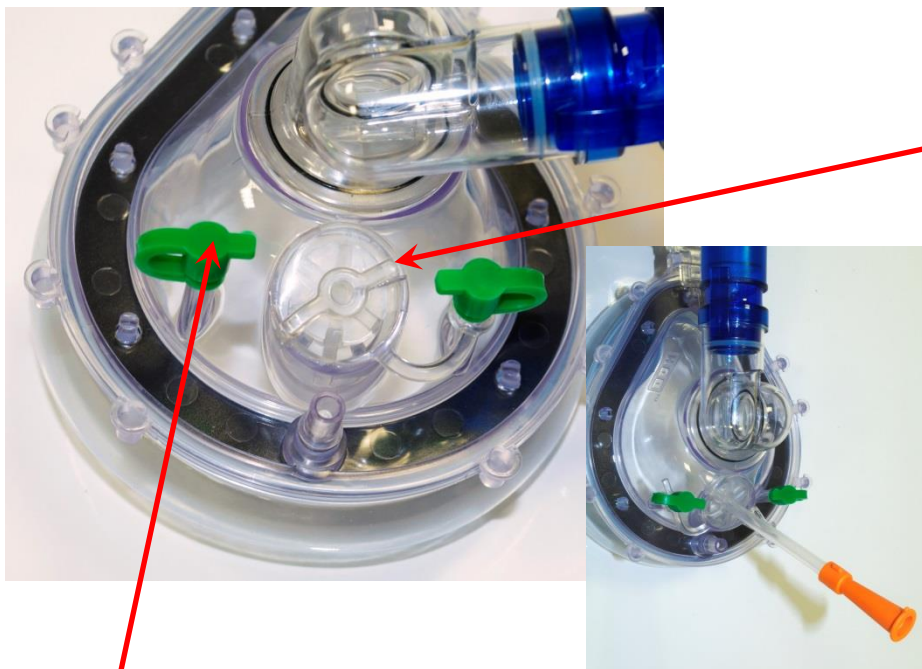
- Efficient with a control due to its shape of the dead space
- Extra large 205 ml
- Large 195 ml
- Medium 165 ml
- Small 155 ml
- Child 95 ml



- headphone Sealing replaceable with self-locking system for long-term uses

N.I.V.

# The air at service of breathing.

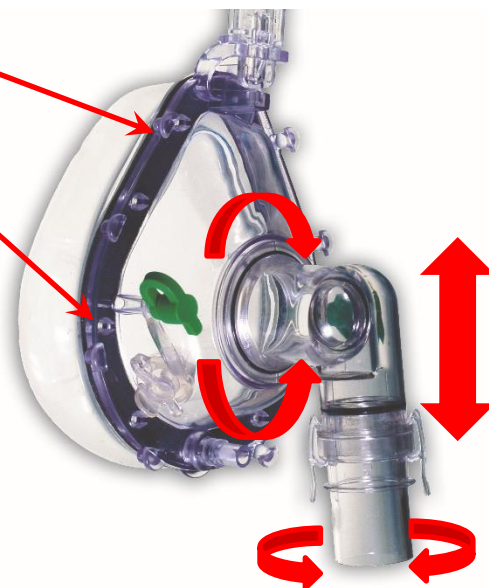


Port for passage of the gastric tube, or the introduction of the bronchoscope, or for simple needs of the patient.

- Operative openings for O<sub>2</sub> enrichment and fo monitoring

# The air at service of breathing.

- Patient Comfort
- The headpiece of seal inflated air, the front support made with two air bearings and the different attachment point, provide a high standard of comfort for the patient during use
- Patient Comfort
- The connector for the ventilation tube is rotating and able to change its angle, avoiding forces that may dislodge the mask. Sealing is ensured by a special O-ring





Headgear for the mask Bluestar Plus  
The fabric used ensures high **breathability** and prevents problems of heating and maceration of the skin.  
The fastening system with Velcro enables optimal adjustment of the sealing bands.  
The sealing bands are made of elastic material for better action to contain the mask.  
Equipped with a tear-off panic system

## BLUESTAR PLUS™ Intesive

KM-310B	Extra Large	Each kit includes: Mask with air cushion, transparent connector 22 mm M, blue connector 22 mm F, exhalation valve, headgearmask fixer, bulb pump.
KM-311B	Large	
KM-312B	Medium	
KM-313B	Small	
KM-314B	Pediatric	





## BLUESTAR PLUS™ Secure

KM-310V	Extra Large
KM-311V	Large
KM-312V	Medium
KM-313V	Small
KM-314V	Pediatric

Each kit includes:

Mask with air cushion, blue connector 22 mm F with security valve, headgear mask fixer, bulb pump.



N.I.V.



## BLUESTAR PLUS™ Intesive

KM-310E	Extra Large	Each kit includes: Mask with air cushion, transparent connector 22 mm M with security valve and exhalation holes, headgear mask fixer, bulb pump.
KM-311E	Large	
KM-312E	Medium	
KM-313E	Small	
KM-314E	Pediatric	



## BLUESTAR PLUS™ Accessories



KM-3101

Extra Large

KM-3111

Large

KM-3121

Medium

KM-3131

Small

KM-3141

Pediatric

Cushion replacement



KM-P009

Headgear Large

KM-P010

Headgear Small



KM-3113

Forehead Space

Transparent  
Connector  
22 mm M

KM-3104



Blue  
Connector  
22 mm F

KM-3114



Exhalation  
valve

KM-903





The mask N.I.V.BLUSTAR PLUS <sup>TM</sup> is particularly suitable for a hospital use in acute phase and long-term at home use

N.I.V.

## technical information

Description	Item.	Size	Materials	Storage	Class M.D.	Weight
BLUESTAR PLUS KIT Extra Large	KM - 310B,V,E.	Extra Large	Polycarbonate PVC Acrilico	Temp -10°/+45° Humidity 30% 80%	II a	123 g + 35 g
BLUESTAR PLUS KIT Large	KM - 311B,V,E.	Large	Polycarbonate PVC Acrilico	Temp -10°/+45° Humidity 30% 80%	II a	115 g + 35 g
BLUESTAR PLUS KIT Medium	KM - 312B,V,E.	Medium	Polycarbonate PVC Acrilico	Temp - 10°/+45° Humidity 30% 80%	II a	105 g + 35 g
BLUESTAR PLUS KIT Small	KM - 313B,V,E.	Small	Polycarbonate PVC Acrilico	Temp -10°/+45° Humidity 30% 80%	II a	117 g + 35 g
BLUESTAR PLUS KIT Child	KM - 314B,V,E.	Child	Polycarbonate PVC Acrilico	Temp -10°/+45° Humidity 30% 80%	II a	105 g + 35 g



## Nasal Mask Deluxe™



### Nasal Mask - *Deluxe* Bi-level CPAP Vented or No Vented

- High transparency PVC - DEHP and BPA free
- Latex-free
- Replaceable cushion with valve
- Comfortable positioned optimally and eliminates air leakage
- New design guarantees even lower skin breakdown
- Ports with caps for enrichment with O2 and monitoring
- Comfortable frontal cushion
- 360 rotating connector
- Single patient use

### Deluxe nasal mask

- *Replaceable anatomic air cushion*
- *Headgear mask fixer in highly breathable material and with wide bearing surface for better forces distribution*
- *Operative openings for O2 enrichment and for monitoring.*
- *Exhalation holes for a correct evacuation of the exhaled breath*
- *Front support fully adjustable and removable*



## Nasal Mask Deluxe With holes for CO2 exhalation

KM-513	Large	Each kit includes: Mask with air cushion, blue connector 22 mm M, headgear mask fixer, bulb pump.
KM-514	Medium	
KM-515	Small	

## Nasal Mask Deluxe With out holes for CO2 exhalation

KM-510	Large	Each kit includes: Mask with air cushion, blue connector 22 mm M, headgear mask fixer, bulb pump
KM-511	Medium	
KM-512	Small	





## Nasal Mask Deluxe Accessories



KM-5101	Extra Large	Cushion replacement
KM-5111	Large	
KM-5121	Medium	



KM-P009	Headgear Large
KM-P010	Headgear Small

Transarent  
Connector  
22 mm M

KM-3104



Blue  
Connector  
22 mm F

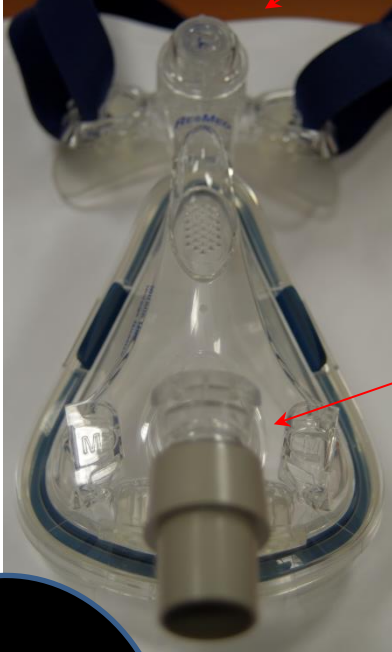
KM-3114



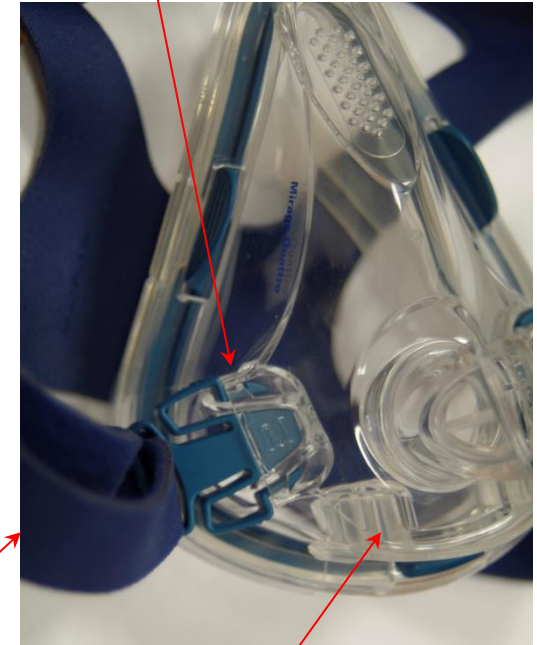
KM-3113 Forehead Space

Forehead support with only one regulation level

hook with nuchal stiff



- Only rotational movement
- Lack of O-ring seal



- Nuchal in non-breathable material

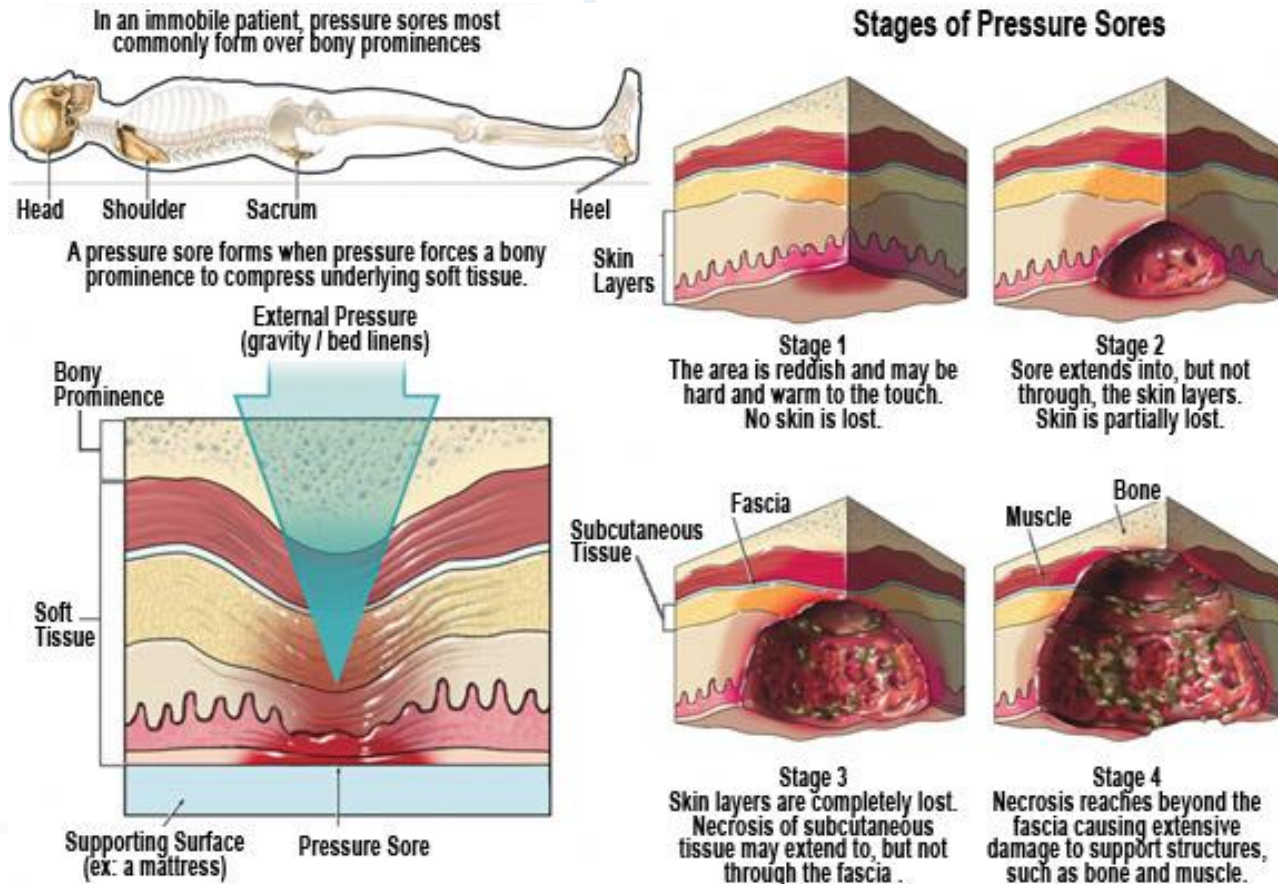
- Only two doors

Weight  
133g  
medium

Latex Free, DEHP free and BPA free

# Pressure Ulcers

Pressure on the skin reduces blood flow to the area. Without enough blood, the skin can die. An ulcer may form.



Pressure on the skin reduces blood flow to the area. Without enough blood, the skin can die. An ulcer may form.

There are mechanisms that contribute to pressure ulcer development:

**External pressure** applied over an area of the body, especially over the bony prominences can result in obstruction of the blood capillaries, which deprives tissues of oxygen and nutrients.

**Friction** is damaging to the superficial blood vessels directly under the skin. It occurs when two surfaces rub against each other. The skin over the elbows and can be injured due to friction. The back can also be injured when patients are pulled or slid over bed sheets while being moved up in bed or transferred onto a stretcher.

**A shear** is a separation of the skin from underlying tissues. When a patient is partially sitting up in bed, their skin may stick to the sheet, making them susceptible to shearing in case underlying tissues move downward with the body toward the foot of the bed. This may also be possible on a patient who slides down while sitting in a chair.