

PH²

Hospital Prevention & Hygiene



PH²
INTERNATIONAL

Serving Hospital Prevention & Hygiene

www.ph2international.com

A unique philosophy in the hospital environment.

Founded in 1994, PH² International is now one of the major French actors in designing and manufacturing medical equipment for **Infection Prevention Control and Hospital Hygiene**. Every day, we try to expand our range to establish innovative solutions that meet the needs of health professional.

These years of experience guarantee to the customer reliable and effective equipment which became a reference in care facilities. We bring our expertise and special care to the manufacturing of our products.



Every PH² International products has been designed in collaboration with hospital staff team. It gave us the ability to respond to unsolved problems or to enable the best possible adjustment to new instructions and standards.

Our innovations bring effective ergonomic and instructional solutions. By working closely with health professionals to help them carry out their projects, PH² International solutions leads its users to a new behavior to ensure safety to people.

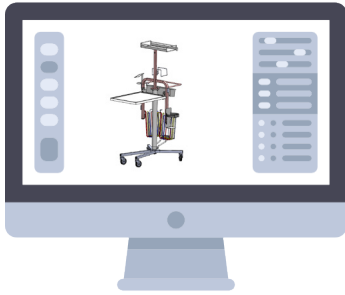
Quality certified French manufacturer



Based in Neuville/Sarthe (FRANCE), **all PH² International services, designing - manufacturing - selling, respect the ISO 9001 standard (2015 version) of Villard Medical.**

At every step, PH² International provides you the best service and the best quality. **Every product is controlled** in order to offer and to guarantee a better and a more reliable equipment.

An integrated Research Department



PH² International designs medical equipment combining the innovation and the quality raw materials (stainless steel, anti-corrosion coating...). Our integrated Research Department can adapt to every healthcare professional's demand and create new products, in accordance with the European standards and regulations for medical equipment.

Our products are the result of new thinking, the majority of our concepts and equipment are protected by the International Institute of Industrial Property with patent filings, registered designs and/or trademark.

A commitment to sustainable production



PH² International attaches great importance to the environment: every product is 100% recyclable. We sort out our production waste and print our catalogues on PEFC paper, respecting the environment and promoting sustainable forest management.

Since many years, we have set up our Environmental Management System that strengthened even more with our new factory in 2018. Our main areas for action include:

- **Ressource conservation:** We have invested in an energy efficient production tool that is respectful of the environment. Energy requirements, both for the manufacturing process and for heating or lighting have been reduced.
- **Footprint reduction:** We prioritize short circuits in the choice of our suppliers and optimize delivery frequencies in order to reduce carbon emission.

Worldwide specialists at your service

PH² International products are also available internationally in more than 65 countries around the world thanks to our export sales department.

Our international sales team is available from Monday to Friday to study all your equipment requests and to advise you the best possible solution. For more information, contact us: on +33 (0) 285 290 506 or at export@ph2i.com.

PH² International | HOSPITAL HYGIENE & PREVENTION

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ph2international.com



Simple ergonomic solutions that meet the requirements of hygiene

INFECTION PREVENTION & CONTROL

PAGES 6 - 19



UDEPI®
PPE Unit
Dispenser

UMP®
Isolation
Trolley

UPG®
Influenza
Prevention
Trolley

Preventing transmission of infectious agent in healthcare settings with PH² International Isolation Precaution equipment.

Designed with hospital hygiene specialists, **Isolation Precaution equipment of PH² International** enable the execution of all isolation and infection prevention practices in the care facilities (established by the French Society for Hospital Hygiene - SF2H).

Equipped with the necessary Personal Protective Equipment (PPE) aimed at preventing the transmission of infectious agents, **our tools help ensure the safety of persons (patients, caregivers, visitors)** by reducing the risk of cross transmission.

in the health care setting.



HEALTHCARE WASTE SORTING

PAGES 20 - 25



Evolu-Tri®

Waste bag and box / drum holders

Reducing healthcare waste treatment costs by sorting at source with Evolu-Tri® waste holders.

With the purpose of implementing selective sorting for healthcare activity waste, **the range of holders Evolu-Tri® of PH² International** optimizes sorting at every stage of each activity or service in a health care setting.

Created to ensure better management of the economic impact of hazardous healthcare waste, our waste bag and hazardous containers holders Evolu-Tri®, enable the sorting out of the waste in the full respect of hygiene rules.

PREVENTION & CONTROL OF HEALTHCARE-ASSOCIATED INFECTIONS

PAGES 26 - 35



SPI®

Mobile Blood Collection & Phlebotomy Trolley

SMS®

Mobile Treatment & Nursing Trolleys

Applying Standard Precautions for all patient care with PH² International Mobile Trolley (SMS® & SPI®).

Modular and compact care trolleys, **PH² International Mobile Trolleys** (Mobile Treatment Trolley and Mobile Blood Collection & Phlebotomy Trolley) enable continuous safety for patients and caregivers against the infectious risks.

Real prevention & control Healthcare-Associated Infections (HAI) tools, **our trolleys are designed to encourage the good healthcare practices in care facilities** (established by the French Society for Hospital Hygiene - SF2H).

► For security in healthcare:

Let's work together to respect the specific infection precautions



As part of a policy to fight hospital-crossed infections, **isolation measures must be applied in healthcare settings to prevent the transmission of an infectious agent** (known or suspected).

In addition to standard basic precautions (wearing gloves, mask, gowns...), some infections or suspected infections require the implementation of additional precautions defined according to the modes of transmission of the infectious agent in question:

 Contact  Mobile Isolation Trolley (UMP®) to be placed inside the room.	 Air  Mobile Isolation Trolley (UMP®) to be placed outside the room.	 Droplets  Mobile Isolation Trolley (UMP®) to be placed outside the room.
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These additional precautions are mandatory as they contribute to the quality of care and safety of patients, caregivers and visitors within a healthcare establishment.

UMP®: The ideal isolation trolley for healthcare settings

Created in collaboration with AP-HP and the Henri Mondor University Hospital in Créteil (France), **the Mobile Isolation Trolley (UMP®) meets the requirements of hygiene and the prevention of hospital-crossed infections**. This modular isolation trolley houses all the personal protective equipment necessary for the application of additional precautions in a single location and with a very small footprint.

The UMP® serves both as a practical equipment and an educational tool. **This prevention tool reminds, raises awareness, informs and harmonises an establishment's prevention and hygiene protocols** to ensure the implementation of procedures and avoid or limit risk of transmission.

PERSONAL PROTECTIVE EQUIPMENT

**Removable pegs
for gowns**

PREVENTION TOOL

**Instruction display
window**

HAND HYGIENE

**Hand-disinfectant
holder**

PERSONAL PROTECTIVE EQUIPMENT

**Storage baskets
for disposable glove
and mask boxes**

WASTE DISPOSAL

**Waste bag
holder**



INFECTION
PREVENTION
& CONTROL

**Mobile
Isolation
Trolley
(UMP®)**

Mobile Isolation Trolley (UMP®)

Registered models and trademarks



Compact and modular solution, **the Mobile Isolation Trolley (UMP®)** is designated to ensure the rapid implementation of aseptic and protective isolation procedures.

Placed at the entrance or inside the patient's room, this educational tool alerts, informs and limits the risk of infectious transmission.



Ref. UMP COL C

Description

The Mobile Isolation Trolley (UMP®) is designed to meet the requirements of hygiene and the prevention of hospital infections and equipped with all the personal protective equipment necessary for the application of specific hygiene safety precautions. (CONTACT - AIR - DROPLETS).

► **Mobile Isolation Trolley - Ref. UPG COL C equipped with removable accessories:**

- 2 storage baskets, perforated in the 4 corners to facilitate cleaning and disinfection (L. 315 x D. 380 x H. 100 mm)
- 1 shelf (L. 350 x D. 280 mm)
- 1 universal hand-disinfectant
- 1 30L waste bag holder in stainless steel wire
- 3 gown hooks with spacer
- 1 window for instructions

Reference

MOBILE ISOLATION TROLLEY (UMP®)

Mobile Isolation Trolley
COMPLETE (as per picture)

Ref. **UMP COL C**

Features

- Steel frames fully welded (25x25mm). Yellow (or white or stainless) epoxy coating to avoid the risk of corrosion.

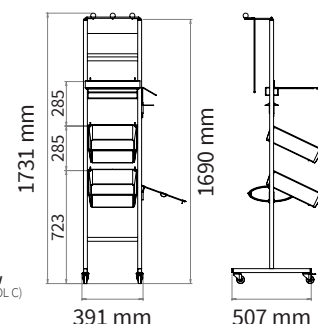
- 4 swivel castors with non marking rubber (Ø 50mm), 2 with brakes.

- Colours:

White
(Ref. UMP C)

Stainless
(Ref. UMP C)

Yellow
(Ref. UMP COL C)



Mobile Isolation Trolley (UMP®)

Registered models and trademarks

► Other versions available:



Ref. UMP C

Fully equipped Mobile Isolation Trolley (UMP®) - White epoxy-coated



Ref. UMPI C

Fully equipped Mobile Isolation Trolley (UMP®) - Stainless steel



Ref. CHAS UMP

White epoxy-coated frame mounted on 4 swivel castors (including 2 with brakes) with window for instructions



Ref. ARM UMPI

Stainless steel frame mounted on 4 swivel castors (including 2 with brakes) with window for instructions



Ref. UMP S/PA

Fully equipped Mobile Isolation Trolley (UMP®) without gown hooks with spacer - White epoxy-coated



Ref. UPPI

Fully equipped Mobile Isolation Trolley (UMP®) door mounting version - White epoxy-coated



Ref. UMP MURALE

Fully equipped Mobile Isolation Trolley (UMP®) wall mounting version - White epoxy-coated



Ref. ACCROCH MURALE

2 additional wall hanging system for UMP® wall mounting version

► Spare Parts Equipment:



Ref. PAT UMP

White epoxy-coated gown hooks with spacer



Ref. PAT UMPI

Stainless steel gown hooks with spacer



Ref. FEN CONS

Removable transparent window for instructions



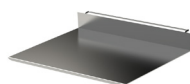
Ref. SHA INOX

Removable stainless steel hand-disinfectant holder



Ref. TAB UMP

Removable white epoxy-coated shelf (L. 350 x D. 280 mm)



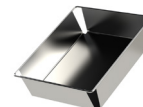
Ref. TAB UMPI

Removable stainless steel shelf (L. 350 x D. 280 mm)



Ref. BAC UMP

Removable white epoxy-coated basket (L. 315 x D. 380 x H. 100 mm)



Ref. BAC UMPI

Removable stainless steel basket (L. 315 x D. 380 x H. 100 mm)



Ref. SFI 10/20 G

Removable stainless steel waste bag holder for 10 to 20L bag



Ref. SFI 20/30 G

Removable stainless steel waste bag holder for 20 to 30L bag

► For healthcare security:

Equip yourself with Personal Protective Equipment (PPE)



The control of spread of pathogens from the source is key to avoid transmission. **Standard Precautions are the basic level of infection control precautions used to prevent Healthcare-Associated Infections (HAI).** Major components of the Standard Precautions, Hand Hygiene and the use of Personal Protective Equipment (PPE) should represent the first barrier measures to be observed during health care. They contribute to healthcare security for all individuals (caregiver/patient) during all patient care.

In healthcare situations, **Personal Protective Equipment (PPE) constitutes a physical barrier between health workers and infectious agents.** This PPE signifies the following barrier measures:



Wearing gloves



Protection of clothing



Face protection

Used alone or in combination, **PPE protects healthcare professionals from the risk of exposure to microorganisms.** Health establishments are required to provide and ensure the availability of Personal Protective Equipment (PPE) to guarantee caregivers optimal protection during hazardous procedures.

UDEPI®: Promoting the correct application of barrier measures

The Personal Protective Equipment Distribution Unit (UDEPI®) is a modular storage and distribution solution developed according to the recommendations of the Standard Precautions of the SF2H (The French Society for Hospital Hygiene). In which all the necessary personal protective equipment are given for caregivers in care situations in a very small footprint.

UDEPI® is a practical and educational tool, which informs and harmonises prevention and hygiene protocols in a healthcare establishment in order to promote the correct application of barrier measures, and avoid or limit the risks of transmission inside or outside the patient's room.

HAND HYGIENE

Glove box holders

PROTECTION OF CLOTHING

Gowndispenser with instructions window



FACIAL PROTECTION

Mask box holder

WASTE DISPOSAL

Waste bag dispenser with hooks

HAND HYGIENE

Hand-disinfectant holder

INFECTION PREVENTION & CONTROL

Personal Protective Equipment Distribution Unit (UDEPI®)

PPE Distribution Unit (UDEPI®)

Registered models and trademarks



The wall-mounted, door-mounted or mobile **Personal Protective Equipment Distribution Unit (UDEPI®)** is a modular solution for the storage and distribution of PPE designed to secure care procedures and promote application of barrier measures inside or outside the patient's room.



Ref. UDEPI PORT M1

Description

The compact and modular Personal Protective Equipment Distribution Unit (UDEPI®) holds, in a very small footprint, all the personal protective equipment required and recommended by the SF2H for caregivers to comply with the barrier measures during a treatment situation.

► PPE Distribution Unit - Ref. UDEPI® PORT M1 equipped with removable accessories:

- 1 gown dispenser with instructions window
- 3 glove box holders
- 1 mask box holder (large size)
- 1 waste bag dispenser with suspension hooks
- 1 lateral hand-disinfectant holder
- 1 sheet of identification stickers

Reference

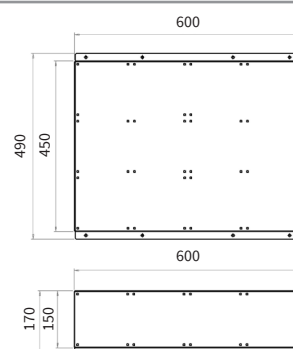
PPE DISTRIBUTION UNIT (UDEPI®)

PPE Distribution Unit
TO EQUIP (with removable accessories)

Ref. UDEPI BASE

Features

- Base and extension in white epoxy-coated plate steel to avoid any corrosion.
- Modular and removable accessories with easy to install square neck screw fixing.



PPE Distribution Unit (UDEPI®)

Registered models and trademarks

► Available versions:



Ref. **UDEPI MUR M1**

Fully equipped Personal Protective Equipment Distribution Unit (UDEPI®), wall mounting



Ref. **UDEPI PORT M1**

Fully equipped Personal Protective Equipment Distribution Unit (UDEPI®), door mounting



Ref. **UDEPI MOB M1**

Fully equipped mobile Personal Protective Equipment Distribution Unit (UDEPI®)

► Configure your UDEPI® to meet your needs:

1 UDEPI® base, extension and holders



Ref. **UDEPI BASE**

UDEPI® base plate



Ref. **UDEPI EXT**

UDEPI® base extension



Ref. **UDEPI SUPPORT**

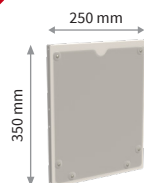
UDEPI® pair of door supports



Ref. **UDEPI CHARIOT**

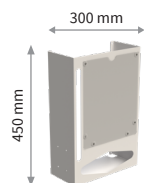
Mobile trolley with UDEPI® holder

2 UDEPI® removable accessories



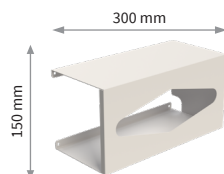
Ref. **UDEPI CONS**

UDEPI® instruction window



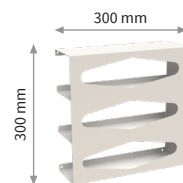
Ref. **UDEPI BLOUSE**

UDEPI® gown dispenser with instructions window



Ref. **UDEPI MASQ**

UDEPI® large size mask box holder



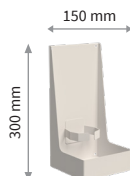
Ref. **UDEPI 3 MASQ**

UDEPI® holder for 3 boxes of surgical masks



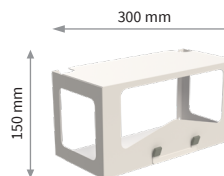
Ref. **UDEPI SHA**

UDEPI® lateral hand-disinfectant holder



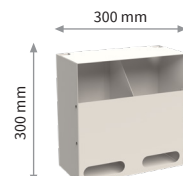
Ref. **UDEPI SHA BAC**

UDEPI® frontal hand-disinfectant holder with collection tray



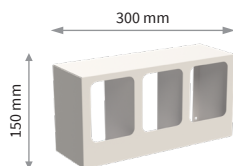
Ref. **UDEPI POUB**

UDEPI® waste bag dispenser with hooks



Ref. **UDEPI 2 CASES**

UDEPI® double large protections dispenser



Ref. **UDEPI 3 PROTEC**

UDEPI® triple small protections dispensers



Ref. **UDEPI STICK**

UDEPI® sheet of identification stickers

Ref. **UDEPI FOND**

UDEPI® mobile base rear bottom plate

Ref. **UDEPI FOND EXT**

UDEPI® mobile extension rear bottom plate

► Against winter viruses or during epidemics:

Your prevention tools against flu transmission



Each year, influenza viruses affect several million people particularly during winter and several thousand of them die. While vaccination remains the best protection against influenza viruses, **respecting barrier measures makes it possible to limit the transmission of viruses, in particular during treatment.**

Barrier procedures and measures:



Wash your hands regularly



Cough or sneeze into your elbow



Use a disposable tissue



Wear a disposable mask when you are sick

Barrier measures represent all the measures that limit the transmission of a contagious agent. These include:

- **Hand hygiene:** hand hygiene is an essential measure in limiting cross-transmission of infectious agents. The use of hand disinfectant (ABHS) is preferable.
- **The use of masks:** wearing a mask is recommended for personnel or visitors who come into contact with a patient with a respiratory infection, whether the patient is in the emergency department or in consultation.
- **Actions in case of coughing and sneezing:** cover the mouth with your elbow/sleeve, or a tissue, blow your nose with a disposable tissue and throw it away immediately in the waste bin.

UPG®: Device equipped with equipment to promote the application of barrier procedures and measures

The Influenza Prevention Unit (UPG®), developed according to the recommendations of « the Haut Conseil de Santé Publique (HCSP) », **is a device with the necessary equipment to promote the application of barrier procedures and measures** in healthcare settings during an epidemic.

Ideally placed at the entrance to healthcare units (emergency and consultation services, maternity and geriatric wards, etc.), this compact mobile unit is equipped with preventive instructions on the actions to be taken to limit the risk of transmission, intended to inform patients and visitors.

EDUCATIONAL TOOL

**Notice instruction
window**

HAND HYGIENE

**Hand-disinfectant
holder**

MASK USING

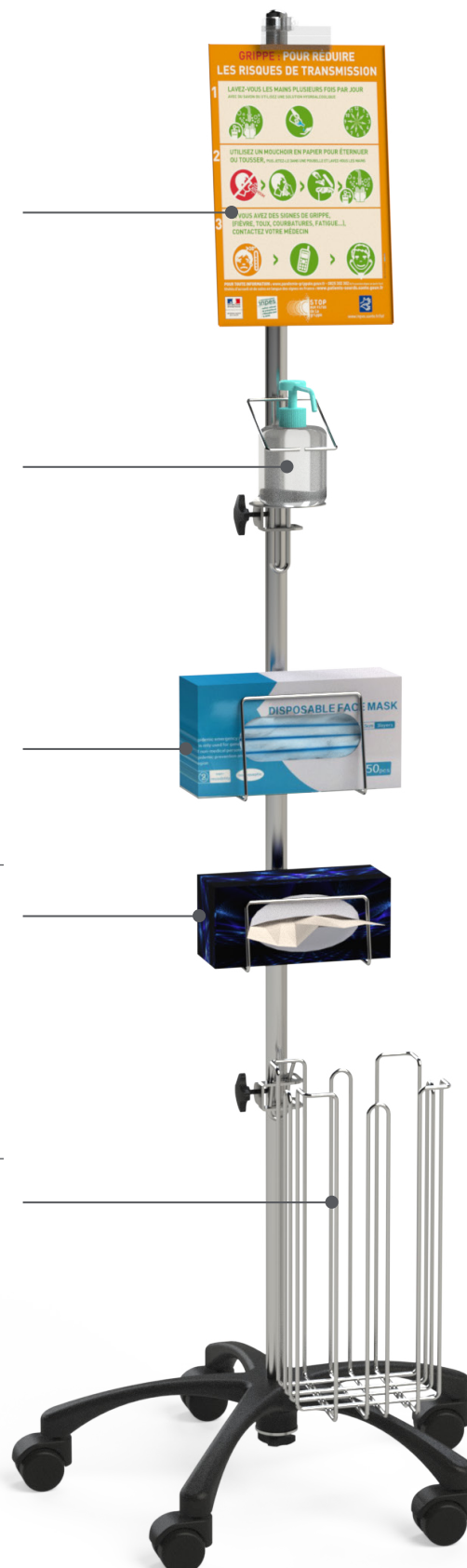
**Disposable mask box
holder**

IN CASE OF SNEEZING

**Tissue box
holder**

WASTE DISPOSAL

**Waste bag
holder**



INFECTION
PREVENTION
& CONTROL

**Influenza
Prevention
Unit
(UPG®)**

Influenza Prevention Unit (UPG®)

Registered models and trademarks



Developed according to the recommendations of the French High Council of Public Health, **The Influenza Prevention Unit (UPG®)** is a unique equipment provided with necessary devices which enables to promote the right behavior and barrier measures in medical environment.

Placed at the entrance to healthcare units (reception, emergency and consultation services, etc.), this compact mobile unit is equipped with preventive instructions to apply in order to limit risks of transmission and to inform patients and visitors.



Ref. UPG C

Description

Compact and modular prevention tool to be placed at the various reception points of a health care facility during influenza periods or any other virus with epidemic risk (gastroenteritis, bronchiolitis, etc.).

The Influenza Prevention Unit (UPG®) provides caregivers, patients and visitors with prevention information and the basic equipment needed to limit the risk of transmission.

► **Influenza Prevention Unit - Ref. UPG C**
equipped with removable accessories:

- 1 instruction sheet holder
- 1 hand-disinfectant holder
- 1 mask box holder
- 1 tissue box holder
- 1 30L waste bag in stainless steel wire

Reference

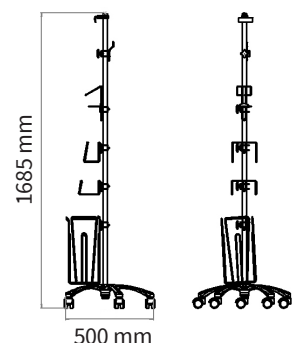
INFLUENZA PREVENTION UNIT (UPG®)

Influenza Prevention Unit
COMPLETE (as per picture)

Ref. **UPG C**

Features

- Metal pole Ø 30 mm
- 5 swivel castors



Influenza Prevention Unit (UPG®)

Registered models and trademarks

► Spare Parts Equipment:



Ref. **MAT UPG**

Mobile pole support (L. 1400 mm)
equipped with 5 swivel castors



Ref. **SUP AFFICHE**

Instruction sheet holder with
integrated clamp



Ref. **SHA BP**

Hand-disinfectant holder with
clamp



Ref. **BTE GANTS BP**

Gloves or tissues boxes holder
with clamp



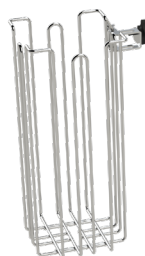
Ref. **SUP BM BP**

Mask box holder with clamp



Ref. **SFI 20/30 D BP**

Single waste bag holder - Right
setting with stainless steel clamp
for 20 to 30L bag



Ref. **SFI 20/30 G BP**

Single waste bag holder - Left
setting with stainless steel clamp
for 20 to 30L bag

► Configure your Prevention Unit to meet your needs

Mobile holders for disposable mask boxes
equipped with removable accessories

► Available next page



Mobile Holders for disposable mask boxes

Registered models



Mobile holders for disposable mask boxes were designed to foster the acts and protective measures in health-care settings. Mobile and compact, this prevention device creates awareness about the simple actions to adopt to minimize the risk of transmission.

Mobile holders for disposable mask boxes
equipped with removable accessories



► Configure your mobile holder to meet your needs:



Ref. **MAT UPG**

Mobile pole support (L. 1400 mm)
equipped with 5 swivel castors



Ref. **SUP AFFICHE**

Instruction sheet holder with
integrated clamp



Réf. **SHA BP**

Hand-disinfectant holder with
clamp



Ref. **BTE GANTS BP**

Gloves or paper tissues boxes
holder with clamp



Ref. **SUP BM BP**

Mask box holder with clamp



Ref. **SFI 20/30 D BP**

Simple holder with stainless steel
clamp for 20 to 30L bag



Ref. **SFI 10/20 D BP**

Simple holder with stainless steel
clamp for 10 to 20L bag

Fixed Holders for disposable mask & glove boxes

Fixed holders for disposable mask & glove boxes created to facilitate the distribution of PPE (Personal Protective Equipment) required for the practical application of the preventative measures during treatments. Universal holder; simple, double or triple; magnetic, wall and rail mounting.



► MASK BOX holders



Masks holder for 1 box (245x135x125 mm):

- wall mounting
Ref. **SUP 1 BTE MASQ MUR**
- rail mounting
Ref. **SUP 1 BTE MASQ RAIL**
- magnetic mounting
Ref. **SUP 1 BTE MASQ MAGNET**



Masks holder for 2 boxes (275x245x125 mm):

- wall mounting
Ref. **SUP 2 BTE MASQ MUR**
- rail mounting
Ref. **SUP 2 BTE MASQ RAIL**
- magnetic mounting
Ref. **SUP 2 BTE MASQ MAGNET**



Masks holder for 3 boxes (410x245x125 mm):

- wall mounting
Ref. **SUP 3 BTE MASQ MUR**
- rail mounting
Ref. **SUP 3 BTE MASQ RAIL**
- magnetic mounting
Ref. **SUP 3 BTE MASQ MAGNET**

► GLOVE BOX holders



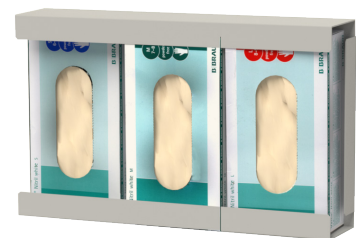
Gloves holder for 1 box (245x135x79 mm):

- wall mounting
Ref. **SUP 1 BTE GANTS MUR**
- rail mounting
Ref. **SUP 1 BTE GANTS RAIL**
- magnetic mounting
Ref. **SUP 1 BTE GANTS MAGNET**



Gloves holder for 2 boxes (275x245x79 mm):

- wall mounting
Réf. **SUP 2 BTE GANTS MUR**
- rail mounting
Ref. **SUP 2 BTE GANTS RAIL**
- magnetic mounting
Ref. **SUP 2 BTE GANTS MAGNET**



Gloves holder for 3 boxes (410x245x79 mm):

- wall mounting
Réf. **SUP 3 BTE GANTS MUR**
- rail mounting
Ref. **SUP 3 BTE GANTS RAIL**
- magnetic mounting
Ref. **SUP 3 BTE GANTS MAGNET**

► Sorting of waste from healthcare activities:

To reduce your waste treatment costs by sorting at source



In the implementation of selective sorting procedures for healthcare waste, the PH² International Evolu-Tri® range of waste bag holders optimizes sorting at all levels in the care environment, whatever the activity or specific nature of treatment.

Our Evolu-Tri® waste bag, carton holders are designed to efficiently manage the financial elimination cost of hazardous healthcare activity waste by facilitating the sorting of waste at source in accordance with hygiene rules.

Evolu-Tri®: a range of holders designed for better control of the financial cost treatment of the healthcare waste disposal.

Healthcare activities generate an increasing amount of waste creating constraints linked in particular to their infectious nature. **The management of this waste is part of the policy of continuous improvement in the quality and safety of healthcare.**

The Evolu-Tri® range of holders allows the easy and unrestricted setting up of selective sorting of waste from healthcare activities directly at the place of production, as soon as a treatment procedure is carried out by the health professionals.

The purpose of sorting such waste at source is to direct each type of waste to the appropriate disposal channel. In particular, hazardous waste must not be mixed with domestic waste or similar in order to ensure the safety of people and control the costs associated with their treatment (storage, transport, elimination).

Optimization by sorting at source (target to reach)

**Non-hazardous
waste**



80 to 85%

**Hazardous
waste**



15 to 20%

Why sorting?

- ▶ To **ensure personal safety**
- ▶ To **respect the rules of hygiene**
- ▶ To **eliminate each type of waste through the appropriate channel**, in compliance with the regulations
- ▶ To **control the economic impact** of the waste elimination from hazardous healthcare activities

What waste should be sorted?

A distinction is made between non-hazardous waste which is comparable to domestic waste and hazardous waste (infected waste). These include several categories which follow distinct methods of elimination:

- **Infectious clinical waste**
- **Chemical and toxic clinical waste**
- **Radioactive clinical waste**
- **Anatomical parts**

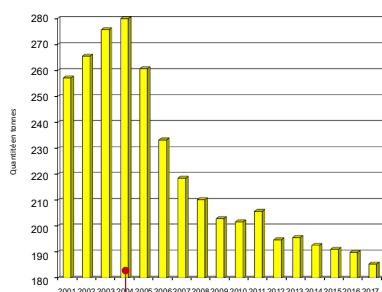
Evidence of treatment cost savings:

Operating theatre

12 operating theatres



Evolution of hazardous waste



Installation of
Evolu-Tri® holders

**-35% of HW to be treated or
95 tonnes of HW (since 2004)**

€ 52,250 saved

Care units

18 treatment rooms



Equipped with:

61 DRI 50/120

99 SRI 50/120

**160 waste holders
installed**

**-26% of HW to be treated
over a period of 6 months**

€ 17,000 saved

Hospital Centre

900 beds

2014

Hazardous waste consumption:

298 tonnes

Elimination cost:

€ 430,000

2018

Hazardous waste consumption:

240 tonnes

Elimination cost:

€ 352,000

**-20% of HW to be treated or
58 tonnes of HW in 4 years**

€ 78,000 saved

Evolu-Tri® mobile holders

Registered models and trademarks



Evolu-Tri® waste bag and/or hazardous container mobile holders are designed to efficiently manage the financial cost of elimination of hazardous healthcare activity waste by optimising the sorting of waste at the source as soon as a treatment procedure is performed.



Ref. SRI 50/120 C/F



Ref. DRI 50 C/F



Ref. DRI 50/120

Description

This range of 1 to 4 variable size bag mobile holders in a compact and manageable format for efficient sorting of waste or laundry.

► Waste or laundry bag mobile holders:

- Adjustable universal bag and/or container mobile holder with holding device in Ø 6 mm 18/10 stainless steel wire.

Features

- Frame in 18/10 stainless steel square tube of 25 mm section.
- 4 Ø 75 mm swivel castors (including 2 with brakes) and non-marking rubber tyres.

► SINGLE holders



Ref. **SRI 30**

Single stainless steel mobile holder for 1 bag of 30L



Ref. **SRI 50**

Single stainless steel mobile holder for 1 bag of 50L



Ref. **SRI 50/120**

Single stainless steel mobile holder for 1 bag of 50 to 120L



Ref. **SRI 50 C/F**

Single stainless steel mobile holder for 1 hazardous container of 25 to 60L



Ref. **SRI 50/120 C/F**

Single stainless steel mobile holder for 1 hazardous container of 50 or 60L

Evolu-Tri® mobile holders

Registered models and trademarks

► DOUBLE holders



Ref. **DRI 30**

Double stainless steel mobile holder for 2 bags of 30 liters



Ref. **DRI 30/50**

Double stainless steel mobile holder for 1 bag of 30 liters + 1 bag of 50 liters



Ref. **DRI 30/120**

Double stainless steel mobile holder for 1 bag of 30 liters + 1 bag of 120 liters



Ref. **DRI 30 C/F**

Double stainless steel mobile holder for 1 bag of 30 liters + 1 hazardous container of 25 to 60 liters



Ref. **DRI 50**

Double stainless steel mobile holder for 2 bags of 50L



Ref. **DRI 50/120**

Double stainless steel mobile holder for 1 bag of 50L + 1 bag of 120L



Ref. **DRI 50 C/F**

Double stainless steel mobile holder for 1 bag of 50L + 1 hazardous container of 25 to 60L



Ref. **DRI 50/120 C/F**

Double stainless steel mobile holder for 1 bag of 50 to 120L + 1 hazardous container of 25 to 60L



Ref. **DRI 50 DC/F**

Stainless steel double mobile holder for 2 hazardous containers of 25 to 60L



Ref. **DRI 50/120 DC/F**

Double stainless steel mobile holder for 2 hazardous containers of 50 or 60L

► 3 & 4 BAGS holders



Ref. **TRI L 50/120**

Triple stainless steel mobile holder for 3 bags of 50 to 120L



Ref. **TRI L 50/120 C/F**

Triple stainless steel mobile holder for 3 hazardous containers of 25 to 60L



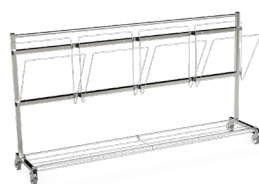
Ref. **TRI C 50/120**

Compact triple stainless steel mobile holder for 3 bags of 50 to 120L



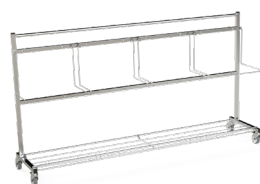
Ref. **TRI C 50/120 C/F**

Compact triple stainless steel mobile holder for 3 hazardous containers of 25 to 60L



Ref. **QRI L 50/120**

Quadruple stainless steel mobile holder for 4 bags of 50 to 120L



Ref. **QRI L 50/120 C/F**

Quadruple stainless steel mobile holder for 4 hazardous containers of 25 to 60L



Ref. **QRI C 50/120**

Compact quadruple stainless steel mobile holder for 4 bags of 50L



Ref. **QRI C 50/120 C/F**

Compact quadruple stainless steel mobile holder for 4 hazardous containers of 25 to 60L

Evolu-Tri® holders for carts & trolleys

Registered models and trademarks



Evolu-Tri® waste bag holders for carts and trolleys designed to optimize waste sorting at source as soon as a treatment is performed. Universal hanging systems, for installation without tools. 18/10 stainless steel wire construction.



► SINGLE holders



Ref. **SFI 10/20 D BP**

Single holder - Right setting with stainless steel clamp for 10 to 20L bag



Ref. **SFI 10/20 G BP**

Single holder - Left setting with stainless steel clamp for 10 to 20L bag



Ref. **SFI 10/20 D GRP**

Single holder - Right setting with PC rail clamp for 10 to 20L bag



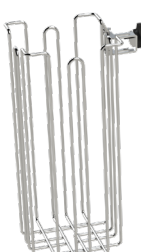
Ref. **SFI 10/20 G GRP**

Single holder - Left setting with PC rail clamp for 10 to 20L bag



Ref. **SFI 20/30 D BP**

Single holder - Right setting with stainless steel clamp for 20 to 30L bag



Ref. **SFI 20/30 G BP**

Single holder - Left setting with stainless steel clamp for 20 to 30L bag



Ref. **SFI 20/30 D GRP**

Single holder - Right setting with PC rail clamp for 20 to 30L bag



Ref. **SFI 20/30 G GRP**

Single holder - Left setting with PC rail clamp for 20 to 30L bag

► DOUBLE holders



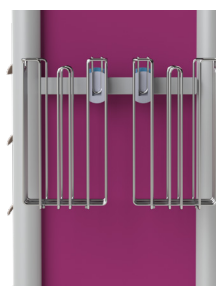
Ref. **DBL SFI 10/20 BP**

Double holders with stainless steel clamp for 10 to 20L bags



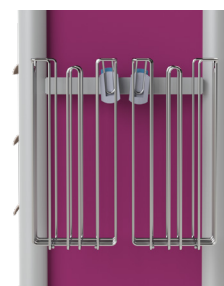
Ref. **DBL SFI 20/30 BP**

Double holders with stainless steel clamp for 20 to 30L bags



Ref. **DBL SFI 10/20 GRP**

Double holders with PC rail clamp for 10 to 20L bags



Ref. **DBL SFI 20/30 GRP**

Double holders with PC rail clamp for 20 to 30L bags

Evolu-Tri® floor or wall holders

Registered models and trademarks



Evolu-Tri® single or double floor and wall waste bag holders, adjustable and adaptable to different bag capacities (from 10 to 120L). 18/10 stainless steel wire (Ø 6mm) construction.

► FLOOR holders



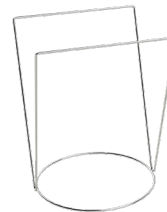
Ref. **SSI 10/20**

Single floor holder for 10 to 20L bag



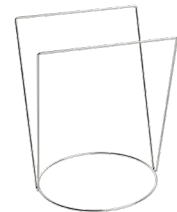
Ref. **SSI 20/30**

Single floor holder for 20 to 30L bag



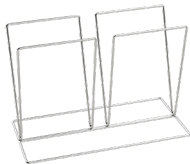
Ref. **SSI 50**

Single floor holder for 50L bag



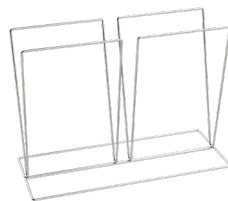
Ref. **SSI 110**

Single floor holder for 110L bag



Ref. **DSI 10/20**

Double floor holders for 10 to 20L bags



Ref. **DSI 20/30**

Double floor holders for 20 to 30L bags

► WALL holders



Ref. **SMI 10/20**

Single wall holder for 10 to 20L bag (screws not supplied)



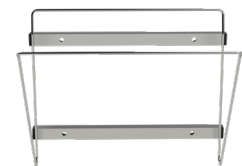
Ref. **SMI 20/30**

Single wall holder for 20 to 30L bag (screws not supplied)



Ref. **SMI 30**

Single wall holder for 30L bag (screws not supplied)



Ref. **SMI 50**

Single wall holder for 50L bag (screws not supplied)



Ref. **SMI 50/120**

Single wall holder for 50 to 120L bag (screws not supplied)

Apply Standard Precautions for all patient care



Healthcare-Associated Infections (HAI) have become a major problem in healthcare settings and a public health priority. **6 to 7% of hospitalisations are complicated by some form of HAI.** In addition to put caregivers in danger, they prolong the average length of stay and increase the cost of treatment for those patient. **Promotion of a safety climate is a cornerstone of prevention of transmission of pathogens in health care.** The control of spread of pathogens from the source is key to avoid transmission.

What solutions exist to prevent HAI?

► Health-care facility recommendations for Standard Precautions:



HAND
HYGIENE



PERSONAL PROTECTIVE
EQUIPMENT (PPE)



WASTE
DISPOSAL



PATIENT CARE
EQUIPMENT

Standard Precaution are meant to reduce the risk of transmission of bloodborne and other pathogens from both recognized and unrecognized sources. They are the basic level of infection control precautions which are to be used, as a minimum, in the care of all patient. In addition to practices carried out by health workers when providing care, all individuals (including patient and visitors) should comply with infection control practices in health-care settings.

SMS®: the recommended trolley during in-room treatment

Designed with the assistance of hospital hygiene specialists, **the Mobile Treatment Trolley (SMS®) meets Standard Precautions requirements for Infection Prevention and Control during treatment in the patient's room.** This patient care equipment promotes compliance with good care practices, regardless of the method chosen for treatment organisation (individualized, successive or serial care).

Complementary to a treatment cart, this mobile trolley makes it possible to recreate individualised treatment conditions without returning to the treatment room between each patient, in compliance with hygiene and prevention rules. The SMS® is equipped with all the Personal Protective Equipment (PPE) required during treatment practices by the Standard Precautions, thus reducing the risks associated with Healthcare-Associated Infections (HAI) and Accidental Exposure to Blood (AEB).

The Mobile Treatment Trolley (SMS®) can also be used for nursing or paramedical care. The equipment can be adapted according to the use.

TREATMENT

**Storage shelf
with IV hooks**

PERSONAL PROTECTIVE EQUIPMENT

Glove box holder

HAND HYGIENE

**Hand-disinfectant
holder**

SAFETY WORKSPACE

**Folding worktop
& storage basket**

WASTE DISPOSAL

**Sharps container
& waste bag holders**

PREVENTION & CONTROL
OF HEALTHCARE-ASSOCIATED
INFECTIONS

**Mobile
Treatment
Trolley
(SMS®)**



Mobile Treatment Trolley (SMS®)

Registered models and trademarks



The **Mobile Treatment Trolley (SMS®)** is designed to prevent Healthcare-Associated Infections (HAI) during in-room treatments by reducing the risks associated with cross-transmission and Accidental Exposure to Blood (AEB).



► **Height-adjustable SMS® version available page 30**



Ref. SMS INF

Description

The Mobile Treatment Trolley (SMS)® is a fully equipped compact care trolley for individualised treatment conditions without returning to the treatment room between each patient, in compliance with health and safety rules.

► **Mobile Treatment Trolley - Ref. SMS INF equipped with removable accessories:**

- Folding treatment preparation worktop
- Top shelf with guard rails and hooks (L.410 x D.170mm)
- 1 hand-disinfectant holder
- 1 glove box holder
- 1 sharps container holder
- Removable large storage basket (L.380 x D.200 mm)
- 2 stainless steel wire 30L waste bag holders

Reference

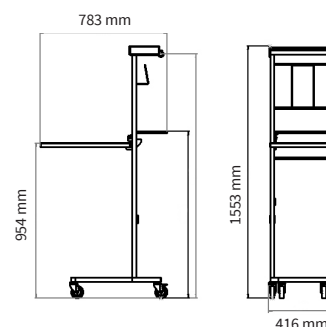
MOBILE TREATMENT TROLLEY (SMS®)

Mobile Treatment Trolley
COMPLETE (as per picture)

Ref. **SMS INF**

Features

- Frame in 25mm section stainless steel square tube.
- Anti-bacterial, foldable top worktop.
- 4 Ø 50mm multidirectional wheels including 2 wheels with brakes. Wheels with non-marking rubber tyres fitted with guards.



Mobile Treatment Trolley (SMS®)

Registered models and trademarks

► Spare Parts Equipment:



Ref. **CHAS TAB SMS**

Frame mounted on 4 swivel wheels (2 with brakes), equipped with a standard worktop, a glove box holder and a topshelf with guard rails and hooks.



Ref. **P. BAC SMS**

Small removable storage basket (L.380 x H.120 mm)



Ref. **G. BAC SMS**

Large removable storage basket (L.380 x H.200 mm)



Ref. **SHA BP**

Hand-disinfectant holder with clamp



Ref. **SPCT BP**

Universal sharps container holder with strap and clamp



Ref. **SFI 20/30 D**

Waste bag holder - Right setting for 20/30 liter bag



Ref. **SFI 20/30 G**

Waste bag holder - Left setting for 20/30 liter bag



Ref. **TAB SMS GM**

Large worktop (L.650 x H.480 mm) to replace the standard

► Universal & adjustable attachment system

for the connection of the trolley to a treatment cart



Ref. **ACCRO SMS**

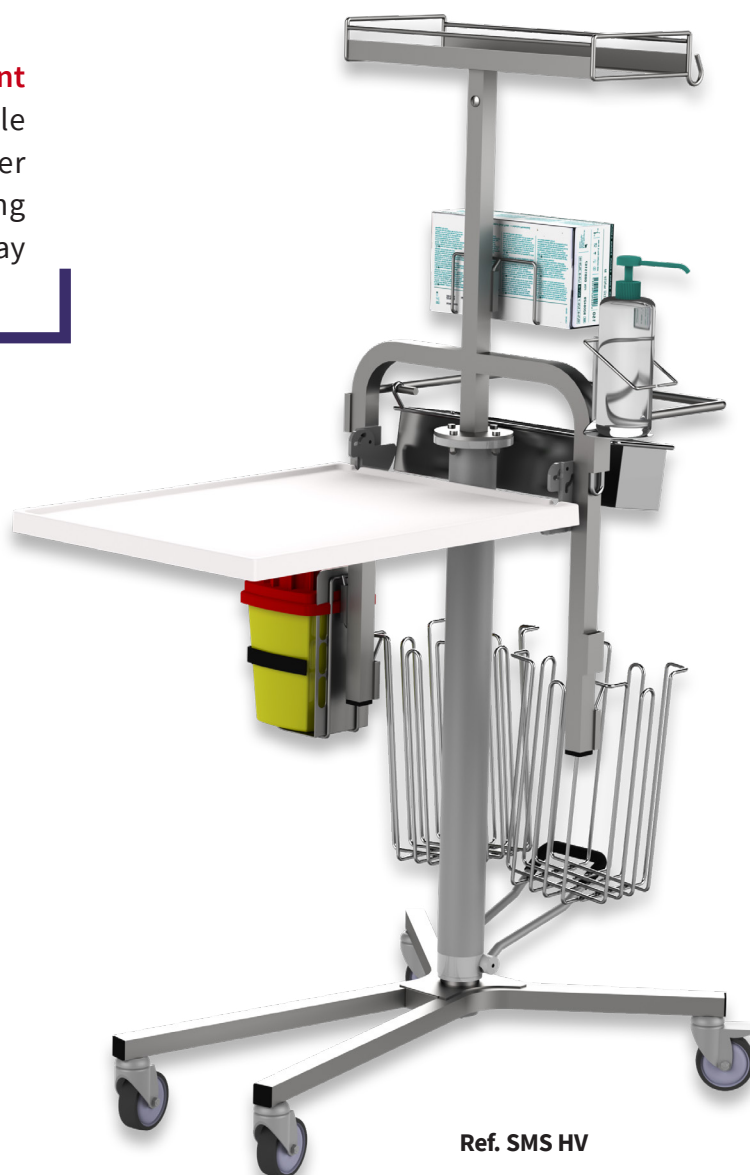
Complete attachment system with linked hook

Height-Adjustable Mobile Treatment Trolley (SMS®)

Registered models and trademarks



The **Height-Adjustable Mobile Treatment Trolley (SMS®)** is a unique variable treatment trolley offering better ergonomics to all caregivers during treatment to prevent the risks of everyday MSDs (musculoskeletal disorders).



Ref. SMS HV

Description

The Mobile Treatment Trolley (SMS®) is the only height-adjustable treatment trolley and is fully equipped for creating of individualised treatment conditions without returning to the treatment room between each patient's room (principle of "forward flow"), in compliance with health and safety rules.

► Height-Adjustable Mobile Treatment Trolley - Ref. SMS HV equipped with removable accessories:

- Folding treatment preparation worktop
- Top shelf with guard rails and hooks (L. 410 x D. 170 mm)
- 1 hand-disinfectant holder
- 1 glove box holder
- 1 sharps container holder
- Removable storage basket (L. 380 x D. 200 mm)
- 2 stainless steel wire 30L waste bag holders

Reference

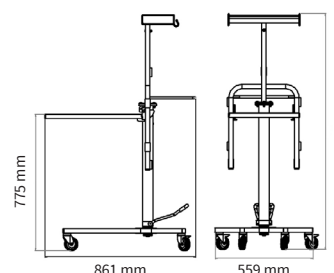
MOBILE TREATMENT TROLLEY (SMS®)

Height-Adjustable Mobile Treatment Trolley COMPLETE (as per picture)

Ref. **SMS HV**

Features

- Frame in 25mm section stainless steel square tube.
- Anti-bacterial, folding ABS worktop.
- 4 Ø 50mm multidirectional wheels including 2 wheels with brakes. Wheels with non-marking rubber tyres fitted with guards.
- Adjustable height (from 775 to 1125 mm) by pneumatic column actuated by pedal.



Mobile Nursing Trolley (SMS®)

Registered models and trademarks

The **Mobile Nursing Trolley (SMS®)** is an ergonomic solution designed to optimize the work of caregivers during well-being and comfort care in the room (toilet, bed making, ...).

This compact modular nursing trolley is equipped with the necessary equipment to facilitate linen and waste management in respect of standard precautions.



Ref. SMS AS

Description

The Mobile Nursing Trolley (SMS®) is a compact fully equipped trolley that recreates the conditions of individualised care without returning to the corridor at the time of treatment, in compliance with the rules health and safety.

► Mobile Nursing Trolley - Ref. SMS AS equipped with removable accessories:

- Folding treatment preparation worktop
- Top shelf with guard rails and hooks (L. 410 x D. 170 mm)
- 1 hand-disinfectant holder
- 1 glove box holder
- 1 sharps container holder
- Removable large storage basket (L. 380 x D. 200 mm)
- Low retractable shelf (L. 400 x D. 350 mm)
- Laundry basket
- 1 stainless steel wire 30L waste bag holder

Reference

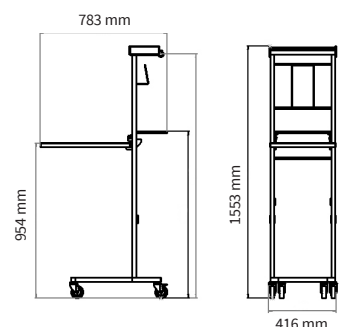
MOBILE NURSING TROLLEY (SMS®)

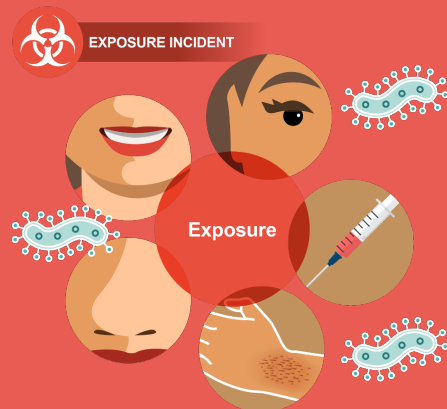
Mobile Nursing Trolley
COMPLETE (as per picture)

Ref. **SMS AS**

Features

- Frame in 25mm section stainless steel square tube.
- Anti-bacterial, folding ABS PMMA worktop.
- 4 Ø 50mm multidirectional wheels including 2 wheels with brakes. Wheels with non-marking rubber tyres fitted with guards.





What solutions exist to protect healthcare professionals?

Each year, many people are victims of Accidental Exposure to Blood (AEB), accidents are defined as any contact with blood or a body fluid containing blood and involving either a skin breakage (puncture, cut) or a projection on a mucous membrane (eye ...) or on damaged skin. Such AEB can be responsible for the transmission of infectious diseases, and mainly affect and endanger the lives of nursing staff in health establishments. AEB is today one of the most serious risks in the health field.

► What solutions exist to prevent AEB in healthcare establishments?

The prevention of AEB is essential to guarantee the safety of the healthcare worker and their patient. **Four main principles guide the prevention of accidental exposure to blood (AEB):**

- vaccination against hepatitis B
- the use of suitable and secure equipment
- worker awareness and training
- compliance with the infection control rules: (wearing gloves, mask, gowns...)

While a large majority of caregivers know the standard precautions and seem to be sufficiently trained in the proper use of the recommended safety equipment, **a non-negligible proportion of accidents is always attributable to non-compliance with the standard precaution of infection control due to the simple absence of protective equipment at the time the treatment is administered** (gloves, face protection, sharps container within easy reach).

At the time of the accident, did you have the following equipment ?

	YES	NO	Not applicable	Total
<u>Gloves</u>	47,82% 3295	44,12% 3040	8,07%	6891
<u>Mask</u>	9,63% 645	56,58% 3788	33,79%	6695
Sharp container	75,48% 5168	17,96% 1230	6,56%	6847

European Biosecurity Summit - 18/01/2018

The AEB data has also provided information on **the increasing, but still insufficient, availability of safety devices in health establishments**. The work of Safety Authority in this area has assessed the positive impact of safety equipment (in addition to infection control precaution) in reducing the incidence of needle sticks, the number 1 factor of AEB.

HAND HYGIENE

**Hand-disinfectant
holder**

PERSONAL PROTECTIVE EQUIPMENT

Glove box holder

TREATMENT PREPARATION

**Height-adjustable
folding worktop
with storage area**

WASTE DISPOSAL

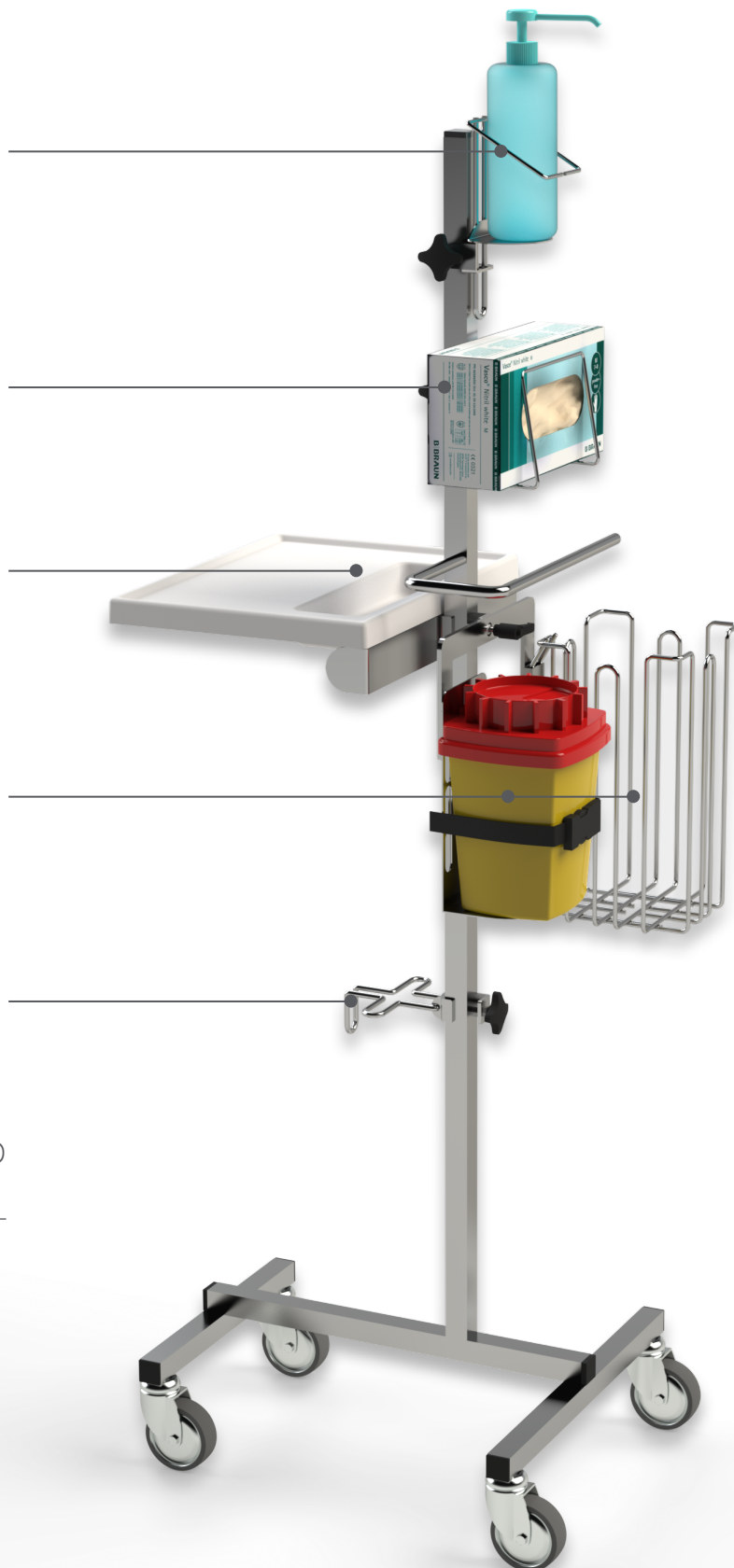
**Sharps container
& waste bag holders**

COMPLEMENTARITY

**Universal attachment
system to connect
with a treatment cart**

PREVENTION & CONTROL
OF HEALTHCARE-ASSOCIATED
INFECTIONS

**Mobile Blood
Collection
& Phlebotomy
Trolley (SPI®)**



Mobile Blood Collection & Phlebotomy Trolley (SPI®)

Registered models and trademarks



The **Mobile Blood Collection & Phlebotomy Trolley (SPI®)** is designed to play a role in preventing Accidental Exposure to Blood (AEB), and is the only tool fitted with the equipment necessary to obtain full compliance with the standard precautions defined by the SF2H (The French Society for Hospital Hygiene).



Ref. SPI C

Description

The compact and ergonomic Mobile Blood Collection & Phlebotomy Trolley (SPI®) secures the care procedures of caregivers during injections or blood samples by being as close as possible to the patients. Equipped with a universal attachment system, this satellite is complementary to the treatment storage trolley.

► Mobile Blood Collection & Phlebotomy Trolley - Ref. SPI C equipped with removable accessories:

- Foldaway variable height treatment preparation area in antibacterial ABS PMMA, integrating a storage space for small care equipment (tourniquet, compresses, antiseptics, etc.)
- 1 holder for sharps container
- 1 holder for hand-disinfectant
- 1 glove box holder
- 1 stainless steel wire holder for 30L waste bag
- Universal variable height hanging system

Reference

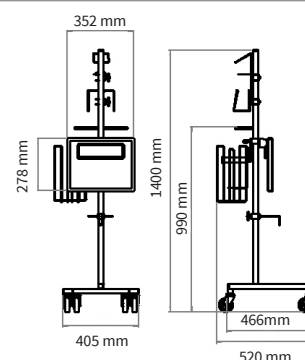
MOBILE BLOOD COLLECTION & PHLEBOTOMY TROLLEY (SPI®)

Mobile Blood Collection & Phlebotomy Trolley COMPLETE (as per picture)

Ref. SPI C

Features

- Frame in 25mm section stainless steel square tube.
- Anti-bacterial, height-adjustable folding ABS PMMA shelf.
- 4 Ø 50 mm multidirectional wheels. Wheels with non-marking rubber tyres fitted with guards.



Mobile Blood Collection & Phlebotomy Trolley (SPI®)

Registered models and trademarks

► Spare Parts Equipment:



Ref. **CHAS TAB SPI**

Frame mounted on 4 swivel wheels equipped with a folding PVC worktop with storage area



Ref. **CROCH PERF SPI**

2 IV hooks for SPI®



Ref. **BTE GANTS BP**

Glove box holder with clamp



Ref. **SHA BP**

Hand-disinfectant holder with clamp



Ref. **SPCT S/BP**

Universal sharps container holder with strap



Ref. **SFI 20/30 D**

Waste bag holder - Right setting for 20/30 liter bag

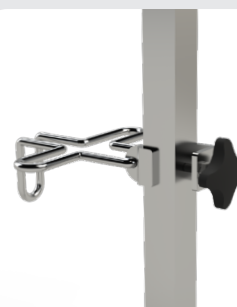
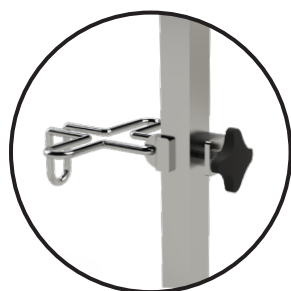


Ref. **SFI 20/30 G**

Waste bag holder - Left setting for 20/30 liter bag

► Universal & adjustable attachment system

for the connection of the trolley to a treatment cart



Ref. **SYST ACCRO SPI**

Complete attachment system with linked hook



PH² International, serving Hospital Prevention & Hygiene



PH² International, specialist in Hospital Prevention and Hygiene, designs and distributes innovative hospital equipment in the fields of:

- **Infection Prevention & Control,**
- **Healthcare Waste Sorting,**
- **Prevention & Control of Healthcare-Associated Infections (HAI).**

Since 25 years, PH² International has been giving healthcare personnel reliable designed in collaboration with hospital staff team to respond to unsolved problems or to enable the best possible adjustment to new instructions and standards

Our innovations bring ergonomic and instructional solutions. By working closely with health professionals to help them carry out their projects, PH² International solutions leads its users to a new behavior to ensure safety to people.



Sterilization
Operating theater
Intensive Care Units (ICU)



Treatment furniture
& Service equipment



Examination
& Consultation
equipment



Hospital
Logistics
& Pharmacy



Laundry & Waste
Management
furniture



Hospital
Prevention
& Hygiene

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