







do You know how to give an authentic & genuine shower to a bedridden patient? easily & effortlessly for the Caregiver ?



This is how a patient is washed in bed today



Soap and water basins are used contaminated with dirt and germs that sponges collect, and are spread in the basin water, thus infecting the person's skin again





The traditional way of **washing** a patient in bed can be **improved** with a much more **hygienic**, **+efficient**, **+professional** & **+ecological** system



https://youtu.be/Rd8Zr0jxTOk see in this link how the old hygiene system works

Photos from a video tutorial on the internet. It is observed that **2 sponges** have been used to **lather / rub / rinse** the person, and the **same basin** and the **same water have been used**, thus dragging and **dispersing dirt** and **germs** from the person all over his skin. This traditional washing technique **should** be **improved**, with a system that provides an **authentic**, **genuine** and **more** hygienic shower for the patient, like **miniSHOWER** hygienic system







we introduce the **new hygiene system in bed**

miniSHOWER

to shower effortlessly !! a bedridden patient

now it is possible to **"really" showering** a patient with **soap foam & atomized** hyperfine clean water





#1 = miniSHOWER benefits

- miniSHOWER reduces the time spent on hygiene of the person in bed to less than 15 minutes of work to give an authentic and genuine shower
- miniSHOWER can be used by a single Caregiver, or with 2 Caregivers, easily in both cases
- Scrubbing and damaging the skin of the person is avoided since the use of sponges is not required
- Not using sponges, dirt or *germs* are not dragged or dispersed from one area of the body to another, thus avoiding cross-contamination
- * **Cleanses** the **skin** of the person, and **eliminates** germs & bad odors, prevents infections & diseases
- Eliminates microorganisms, waste and dead skin cells, body secretions, excretions
- Very little atomized soap foam is used but results in more effective cleaning & hygiene of the skin
- The system makes it easy for the *Caregiver* to wash the person's head in a comfortable, easy and fast way
- Hair can be washed with less than 900ml of water and very little atomized soap foam is used

Remove excess oil from skin and hair roots using very little soap foam

- With atomized water, the shower becomes a relaxing and pleasant activity for the convalescent person and comfortable and effortless for the Caregiver
- Saves Caregivers the tedious and exhausting task of repeatedly lathering, washing and manually rinsing the person....with dirty sponges and dirty water
- Is avoided the use of different basins and recurrent change of dirty water that occurs repeatedly with old washing systems
- Protects, respects and avoids damaging the skin of the person since it is not necessary to use sponges and no polluting residues are generated
- The hyperfine always clean water drops act as a true and genuine shower and cleanse, hydrate and relax the patien skin
- The system offers the Caregiver a lot of comfort, reducing the effort and fatigue in the task of providing hygiene to the convalescent patient in bed



#2 = miniSHOWER more **benefits**

- The always clean and hyperfine water drops of the miniSHOWER system stimulates blood circulation, help the convalescent person to relax, and also keep the body moist and hydrated, which reduces the itching due to dry skin, as well as generating negative ions, which are very beneficial for the organism
- The miniSHOWER system provides cleanliness, convenience and comfort to the person, and improves hygiene, well-being and freshness of the skin
- The miniSHOWER system it is greener and more sustainable, and consumes less than 1500ml of clean water for a full shower to one bedridden patient
- miniSHOWER system is quick and easy to implement, and no prior installation of any kind is required
- miniSHOWER guns are portable, does not take up space, are light and can be used anywhere and in confined spaces, and does not require specialized personnel

- The autonomy of the water gun range till 4 hours of continuous use, with charged batteries
- The guns are used without connection to the electrical network, use rechargeable batteries with very low consumption, and without any risk to the convalescent person or the Caregiver during their use.
- The miniSHOWER towels set absorb moisture adequately, especially suitable for touching and drying the skin without rubbing or scrubbing it, so as not to damage or irritate the delicate skin
- The always clean and hyperfine water drops of miniSHOWER gun and the soft microfiber towels are especially indicated for the effective cleaning of the eyes, ears, nose and face of the person
- The miniSHOWER system is a comprehensive hygiene system that reduces the efforts of the Caregiver and improves the quality of convalescent patient hygiene



miniSHOWER system simplify the task of shower a bedridden patient to a more hygienic, +effective, +professional & +ecological way



Benefits of miniSHOWER:

the patient receives a pleasant and authentic shower with soap foam & clean water

Ino basins or sponges needed
dirt and germs are not spread on the skin, because are eliminated
the use of gloves is optional
does not use disposable materials
avoid generating dirty water
water consumption is minimal
liquid soap consumption is minimal
cares the delicate elder patients skin
Caregiver does not make efforts and task is more comfortable and faster
the entire shower process is more hygienic, +effective, +comfortable, fast and +patient stimulating



Knowing water in deep

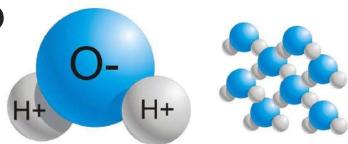
Does the Caregiver **know** the properties of **water**, to provide a **genuine** and **authentic shower** to a person in bed in a **more hygienic**, **+effective**, **+professional & +ecological** way ?

Water is **essential**, therefore it is convenient to know it thoroughly to decide whether to shower the Patient with **only clean water**, or with **clean water + soap foam**, to obtain greater hygiene by providing a **true, relaxing, healthy** and **therapeutic shower**.

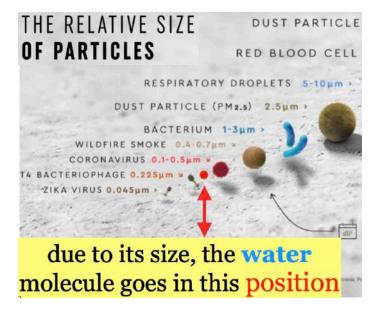
The water **molecule** (H2O) is composed of only 2 hydrogen atoms (with +charge) and 1 oxygen (with -charge) and is one of the most **essential** and abundant elements that also has the **important** capacity to **dissolve** many others substances.

The **versatility** of water as a **solvent** is essential for all processes of living organisms **and also during the patients shower.**

The water molecule is very simple but its **physical & chemicals properties** are very complex and unusual and these extraordinary anomalies lie in their **special electronic structure**, among them **intermolecular** cohesion and surface tension, which cause water to slide over surfaces without completely wetting them, or stick and **penetrate** them when **water is used with soap foam**.



The water **molecule** is very **small**, its diameter is only 0.275 nm (nanometers)





The water used as "disinfectant"

Obtain maximum **DISINFECTION**, without using **chemicals**, just using water.

Like hydrogen peroxide (H₂O₂) and It is known to be a **powerful oxidant.** Is a powerful oxidizing agent when in contact with organic matter.

Hydrogen peroxide is found in low concentrations (3-9%) in many household products for medicinal uses and as a hair and clothing bleach. It is used more as a substitute for chlorine.

Industrial hydrogen peroxide usually has concentrations greater than 30%, unlike that intended for domestic use that is purchased in pharmacies and supermarkets, which usually contains only 3%.

Therapeutic use & Wound healing

Historically, hydrogen peroxide was used for disinfecting wounds, partly because of its low cost and prompt availability compared to other antiseptics.

Dilutions of hydrogen peroxide up to 6% are generally recognized as safe for use as an antimicrobial agent, oxidizing agent and other purposes by the world's major health agencies. Due to its oxidizing effect, it has been used for many years as an antiseptic and antibacterial agent. Its use has decreased in recent years due to the popularity of other substitute products. It is still used in many hospitals, medical centers, and clinics.

There exist the Deposon system that turns tap water into a powerful and natural disinfectant, without using chemicals or generating waste or pollutants.

The water generated by the Deposon system offers a 99.99% disinfection rate and kills viruses, bacteria, fungi and other pathogens in seconds. It does not use chemicals, it converts regular water into oxidizing ozonated disinfectant water (OH,O,O3). Disinfects without damaging since it does not produce residues or contaminants, neither in the environment, nor on the skin, nor on the treated surfaces.

Deposon is the **most ecological and sustainable system,** ideal to **replace chemical** liquids or disinfectant hydrogels, since it **does not irritate the skin** and saves recurring spending on chemical products.

The portable **mini-sprayer** is ideal for disinfecting all types of surfaces at home and in kitchen. Safely disinfects fruits, vegetables, crockery, cutlery, utensils, furniture, surfaces of all kinds, railings, doorknobs, buttons, tables, chairs, etc.

For patients in bed, the Deposon **gun** is designed to provide a pleasant and authentic shower with ozonated water, ideal for use on very sensitive skin that does not allow contact with chemicals that irritating or harmful the skin.

Deposon simplifies the task of disinfecting in a more hygienic, +natural, +effective, +professional, +ecological and +sustainable way, since it does not generate waste or pollutants. Check Deposon website: https://www.deposon.com

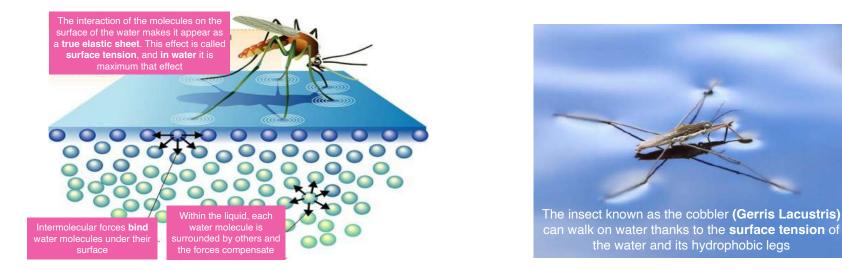


Skin after being exposed to a concentration of 80% hydrogen peroxide.





The water surface tension



Raindrops are formed by the forces of **intermolecular cohesion** and the **surface tension** of water. It is very important to understand these two properties of water to obtain an effective cleaning in the hygiene tasks of a person.

The **hyperfine** droplets of always clean water that the **miniSHOWER** system constantly projects on the skin of the person **have very little surface tension**, due to their **tiny** size, so they **penetrate** more easily into **microscopic cracks** in the skin and **clean** it and **hydrate more effectively and in depth**.

If, in addition to showering the person with **always clean water**, **liquid soap** is added, it has the peculiarity of **breaking** the intermolecular cohesion and the surface tension of the water and greatly **facilitates** the water to **wash away the dirt** that the soap finds in its path, when it is washed when Caregivers provide a **real shower** with water and soap foam **atomized** with the new **miniSHOWER** hygienic system.



Do you know water does **NOT** get you completely wet?

The water does not get me wet?

You may be thinking:

"I'm pretty sure that the water gets me wet"

It is true that **water** it does wet, but not as much as it should, since its **intermolecular cohesion** force (the force that forms the drops) exceeds the **adhesion** force it needs to adhere to depending on which surfaces (such as your skin, a towel, etc.)

Check it: pour water on the palm and back of your hand and observe that an amount of water has stuck to areas of your skin in a very **thin film**, another amount has **stuck** to your skin in the form of **drops** and the rest of the **water** has **slipping down your skin**, and it **hasn't completely wet you**.

Why does water have this behavior? because water **molecules** are very **independent** and **elusive**, and they do not like to mix or be with other molecules and they **avoid oils** and **fats**, and in the **skin of your hand there are vital oils**, **so that the water has decided not to stick to your skin in those areas**, **and does not wet them**.

Knowing the **properties** of **water**, you can decide whether to shower the person in bed with only **atomized clean water (to protect the vital oils of their skin)** or with **water + soap foam** (to cleanse the skin more thoroughly).



Soap has the property of **breaking** the **cohesion** and **surface tension** of **water** molecules.....so if you use **soap** + **water** to shower the patient, you will cleanse their skin in a **+hygienic**, **+effective** and **+deep** way.



Know the **skin** and **pores**

The skin is the largest organ in the human body, it reaches 2 square meters and its weight reaches 4 kg. approx. Its thickness varies according to the areas, 0.4 mm in the eyelids, 1.5 mm in the palmar area and up to 4 mm in the heels. It is the protective barrier that defends our body from the aggressions of external agents such as viruses, bacteria or other pathogens, which can **penetrate** our body through the mouth, nose and eyes.

It is said that we discard more than 35,000 skin scales every day, so it is **essential** to take **good care** of the **skin**, **to promote its continuous regeneration**.

Depending on the area, the skin has more than 400 pores per cm2 and they measure between 30 to 50 μ m microns of \varnothing . The thousands and thousands of **droplets** of hyperfine always **clean water** that **miniSHOWER** system constantly projects, **clean** the pores of the skin in **depth**, leaving it **smooth** and **soft**.

The always clean and hyperfine drops of **water** helped by **the soap foam remove** sweat, debris that expel pores, dirt, dead skin, dust and many other impurities, and also **hydrate** and provide oxygen to the skin.

All that is needed for good skin care is just clean water....and soap foam, if needed.

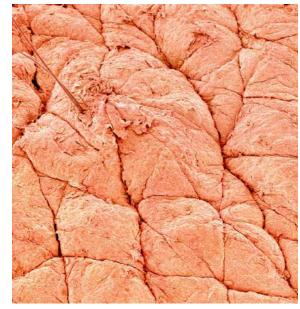
Just clean water, so **soap foam** is complementary. Water **does** an excellent **job** of washing away dirt **without removing** vital oils from the skin.

Specific **soap foam** can be used to wash the **armpits**, **feet**, **genital area**, **folds**, **hair** or any other part of the body. The new **miniSHOWER** hygiene system provides an authentic and genuine shower to the person in bed, providing hygiene, cleanliness, wellbeing and comfort, and also simplifies, **improves** and **mitigates** the **hard daily task** of the Caregiver, **avoiding unnecessary efforts**.

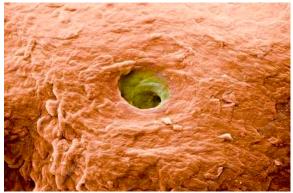
What are the functions of the skin?

- Protection: against mechanical and physical agents
- Maintenance: body shape
- * Absorption: of fat-soluble substances
- Barrier: against external agents
- Excretion: elimination of waste products through sweat (inorganic salts, urea, uric acid, creatinine)
- Corporal temperature regulation
- * Maintenance: water balance
- Secretion: of substances such as fat, keratin as protection and water repellent
- Synthesis: of vitamin D and hormones
- Sensitive capacity: it has multiple nerve endings that detect cold, heat, pressure, touch, pain

Skin - 40x



Skin Pore - 240x





Do you know how **soap** & **water** works?

Soap was discovered more than **3,100 years ago**, and it is so **perfect** that it has **not** yet been improved.

It has the peculiarity of **breaking** the **intermolecular** forces and the **surface** tension of **water**, and it makes the **oil** or **fat** molecules **bind to the water**, that is why the **soap** makes it easier for the water **to clean in depth**.

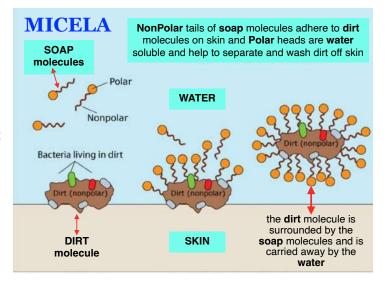
Soap is made with only **2** components, a **fat** or **oil** (it can be vegetable or animal) and an alkali (sodium hydroxide) to make a solid soap, or potassium hydroxide to make **liquid soap**.

The result of the mixture is: soap (emulsifier) & glycerin (humectant)

Using **soap foam**, it **breaks** the **cohesion** of water molecules and makes easier to penetrate **microscopic cracks** in the skin, cleaning and hygiene in depth....(the water cleanses, the soap foam helps).

The **water molecules do not mix** with **oils** or **fats**, as they are incompatible, but the **soap foam** molecules (the emulsifier) do work by **enveloping** the **dirt / grease / germs** molecules, found on the skin and surround and isolate them with an infinity of soap molecules (thus **creating** a **micelle**) and all these micelles are dragged by the surrounding water, producing the miracle of cleaning ... the water is what cleanses, the soap foam aid.

Therefore, it is not necessary to rub the skin with a **sponge** to remove dirt ... with always **clean water**, and letting the **soap foam to work** (+20 '') and rubbing with your hands is enough to clean the skin, without damaging it, or damage it by using sponges.



***Glycerin** (humectant) hydrates and softens the skin and is produced when water is mixed with the soap.

What about germs and dirt?

Fortunately for us, the **bacteria**, **viruses** or **dirt** that stick to our skin are **covered** in many cases by a layer of **lipids** (oils or fats) so that the **soap foam** detects them and **sticks** to them like a magnet. **Soap** is **ambivalent** and adheres to both polar (water) and non-polar (dirt & germs) molecules. Soap **destroys** the **fatty** layers that surround **germs and dirt**, **wraps** them in a **micelle** and removes them washed away...... **Goodbye** to germs and dirt. **Hello** good health.

What about anti-germ agents?

The **FDA** has not yet been able to show that these agents are **more** effective than **soap**. Using **soap** and **clean water** and a little **time** (+20") for the soap to act and do its job is **more** effective than any anti-germ agent that **does not clean hands or skin when used.**



Know the **negative ions**

Negative ions, or **anions**, are **water molecules** whose atoms they have gained one or more **negative electrons** thus acquiring a **negative electrical charge**.

In nature, **negative ions** are generated naturally by rain, lightning, winds, sunlight, storms, by **falling water** or water that is agitated or in **motion** such as in **showers**, **fountains**, **waterfalls**, **rivers**, **waves**, etc. because the water droplets collide with each other and **fragment** and **divide**, producing very **light** or **hyperfine water droplets**, which are **negatively** charged, **becoming ions** that we then breathe (Lenard Effect -Nobel Prize in Physics in 1905).

It is known that negative ions **stimulate** us and that they **facilitate oxygenation**, **detoxification** and the **biological regeneration** of our organism.

Enjoying an environment **loaded** with **negative ions** is very **beneficial** for a patient in bed and Caregiver as it improves mood and is **therapeutic** by **reducing stress** and **anxiety**.

A high concentration of negative ions can be found in a variety of environments such as **forests**, **mountains**, **waterfalls**, **and beaches**. As a curiosity, it is known that **Niagara Falls** is the largest natural source of negative ions in the world.





Singing under the shower

People sing when they shower, but without knowing that a shower produces favourable negative ions that promote oxygenation of the body and improve mood.....that's why most people sing under the shower

miniSHOWER is the new system that provides a genuine and authentic shower of always clean water & soap foam to patient in bed and generates thousands and thousands of hyperfine droplets of atomized water that clean and hydrate the skin in a more hygienic, effective and pleasant way.





The miniSHOWER soap foam dispenser to atomize the liquid soap

The integral miniSHOWER hygiene system includes:
the special soap foam dispenser to atomize the liquid soap
atomize and throw a hyperfine soap foam and water mixture to obtain a rich lather then just rubbing gently the skin with hand
Use a graduated cup to precisely dose the liquid soap
with 350 ml unscrewable tank to mix water & liquid soap
works with 4 AA batteries (> 5 months of autonomy) without risks for the patient and Caregiver during use
2 modes, use with induction sensor to provide dosified soap foam

approaching the hand, or pushing the trigger to obtain continuous soap foam



Recommended liquid Soap

To use in **miniSHOWER** hygiene system **dispenser**, we recommend:

.- Dermos liquid soap by miniSHOWER

It is dermoprotective, moisturizing, pH neutral, fragrance-free & has white colour To use follow the **User Manual & Technical Guide** instructions.

*Caregiver can use any brand of liquid soap that deems







The water gun to atomize hyperfine clean water

*to shower bedridden patients **effortlessly**

- miniSHOWER hygiene system gun provides water that is always clean, never dirty or contaminated
- ***atomize** clean water at thousands upon thousands of hyperfine droplets per second
- *works with long-life **rechargeable** batteries
- without risks for the person or the Caregiver during use
 with rotating nozzle that adjusts the output volume of projected water to suit the Caregiver or the user needs

Benefits using miniSHOWER water gun:
* the patient receives a real and genuine shower
* only provides clean water avoiding cross-infection
* sponges impregnated with dirt are not used
* no polluting waste is produced (no sponges)
* no dirty or sponge-contaminated water is generated
* no basins with dirty or contaminated water are used
* no other polluting wastes are produced
* dirt neither creeps nor scatters on the skin
* it is ecological with miminal use of water and soap
* Caregiver provides more hygiene to the patient
* Caregiver do the hygiene tasks without effort/fatigue



USB charging ____ port protected with waterproof silicone cover





The **hygiene** with **miniSHOWER** it's **more** than a real **shower**

There is the **"fountain effect"** by which many people feel *more* **well-being** and *more* **energy** when they are in places where there are **fountains** or **moving water**.

On very hot days the temperature near a water source is lower and the degree of humidity is higher, but there is also another phenomenon that Physics explains like this:

When water is **projected** into the atmosphere, it **fragments** into many **small** droplets that collide with each other when they fall and fragment **again** into very **small** droplets or into larger ones.

If the electric potential of these **small droplets** is measured, it is observed that they have **acquired** an **electric** charge. miniSHOWER water gun provides a real shower with always clean and hyperfine atomized water Wate with 1.

Water atomizer gun with 1,5 L. water tank



Only the **smallest droplets acquire** an electric charge in the form of **negative electrons** and due to their **lightness**, they mix with the air, **changing** their state and become **negative ions**.

Patient in bed showered with the miniSHOWER water gun breathe in these negative ions and feel more well-being with more energy, and improve their mood.



The **shower** with hyperfine **clean water** is **more hygienic**

- miniSHOWER uses special atomizer gun that project thousands and thousands of hyperfine water drops that penetrate into the microscopic cracks of skin providing +hygiene and a *deep* and *effective* cleaning
- The hyperfine water of miniSHOWER drags dirt from patient skin and naturally and deeply cleans the skin pores and epidermis, with the help of soap foam.
- The patient feels a very pleasant tingling on skin when receiving a genuine and authentic shower with always clean atomized and hyperfine water of miniSHOWER
- miniSHOWER it is super gentle on skin because the minimal pressure of the water spray and little volume used.
- Hyperfine water droplets do not change the patient blood pressure or heart rate.

Effortless for the Caregiver, with the miniSHOWER gun, an authentic and genuine shower with always clean & sprayed water, in a more hygienic, fast & comfortable way is provided to the convalescent patient in bed





the giant UNDERPAD

To **protects** the mattress & bedding during the shower

Included in miniSHOWER hygiene system:

*1 giant absorbent underpad to fully protect the mattress
*giant measures: 90 cm wide and 200 cm long
*absorbs water, soap foam & dirt and germs during the shower
*it is waterproof, avoids wetting the mattress during the shower
*can absorb liquids up to 6,3 liters
*made of very soft fabric for patient skin
*washable and reusable up to 300 times
*very easy to put on / take off from bed
*follow the instructions for use in the User Manual

* 130x100 cm disposable underpads are also available for use on patients with contagious diseases









Hair washtub

Included in miniSHOWER hygiene system:

- * the **50x60**cms inflatable washtub
- * very **comfortable** for patient and for Caregiver
- * simplifies and facilitates the Caregiver's tasks
- * ideal for washing the hair of bedridden patient
- $\boldsymbol{\ast}$ with $\boldsymbol{1}$ inflatable floor adjustable as per user needs









the **Bedpan** to easily **wash** the **genital** area

Included in miniSHOWER hygiene system:

the ergonomic bedpan made of light plastic in white
it is perfect to help wash the pubic / genital / perineal / anal area of the patient during the shower in bed
provides maximum comfort to the person in bed
the smallest size bedpan on the market, designed to make it easy to put on & take off from under the person







Set of 11 towels

Included in miniSHOWER hygiene system in bed:

Pack of 11 towels to cover the needs during the shower. It is advisable **not to scrub or rub** the skin. Use by tapping according to recommendations in the **User Manual**

The **miniSHOWER Towel set** includes:

- 5 blue mini-towels of 30x30 cm (cotton 380 g/M2): to gently clean and dry the eyes, ears, face, nose, navel and genital area (see the User Manual) & also protect patient eyes during hair shower.
- 1 white towel of 30x50 cm (cotton 450 g/M2): to dry pubic, genital, perineal and anal areas (see the User Manual)
- ✤ 3 blue towels of 50x100 cm (cotton 450 g/M2): to dry and isolate legs and hair (see the User Manual)
- 2 blue towels of 70x140 cm (cotton 450 g/M2): to cover the patient, avoiding cold and provide privacy, and to dry arms, chest, abdomen, back and buttocks (see the User Manual)





+Accesories

Mesh bags for washing machine

As miniSHOWER system accessory:

- Mesh bags for washing machine, 60x90 cm for the Underpads and Towels
- For greater **durability** it is recommended to wash the Underpads and Towels in **separate** bags from the rest of the clothes.





Know the **miniSHOWER User Manual** and the **Technical Guide** on its components

The **miniSHOWER** hygiene system **advises** and **teaches** you to:

- how to provide more hygiene to patient in bed, with less effort,
 without fatigue and with more comfort for the Caregiver
- * how to **lateralize** the person in bed, quickly and easily
- * how to quickly and easily **place** and **remove** the giant underpad
- the Technical Guide teaches you how to use the soap & water spray guns and how to use the other components of the system
- easily and effortlessly showering the patient in bed & obtaining more hygiene, more cleaning and more comfort
- how to wash the face, eyes, ears and hair of the patient,
 effectively, comfortably and without efforts for Caregiver
- * how to use and dose the best recommended liquid soap
- how to pat dry, without scratching, to respect the patient skin and not damage it
- * visit our website for more information: www.minishower.pro

