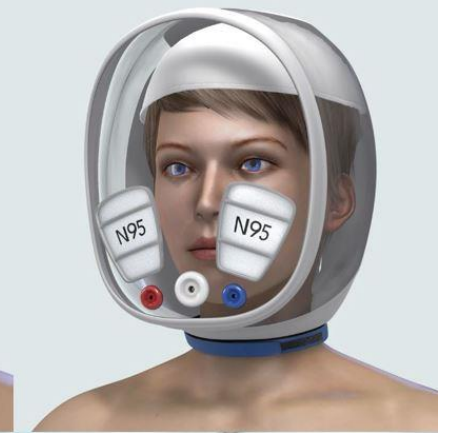
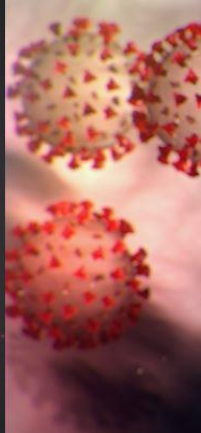
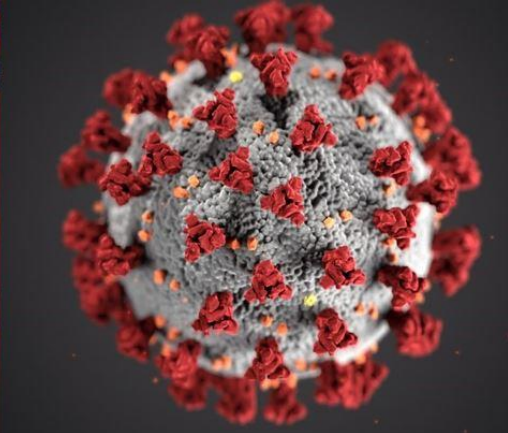
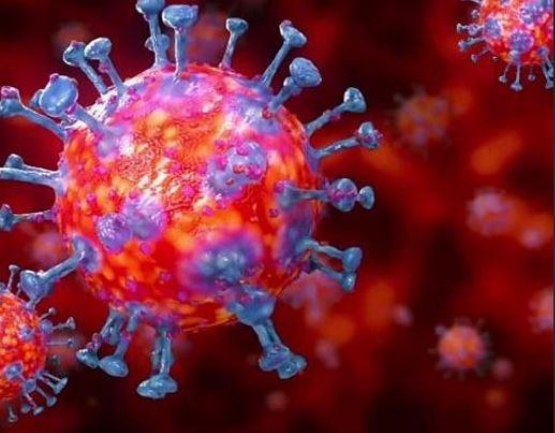
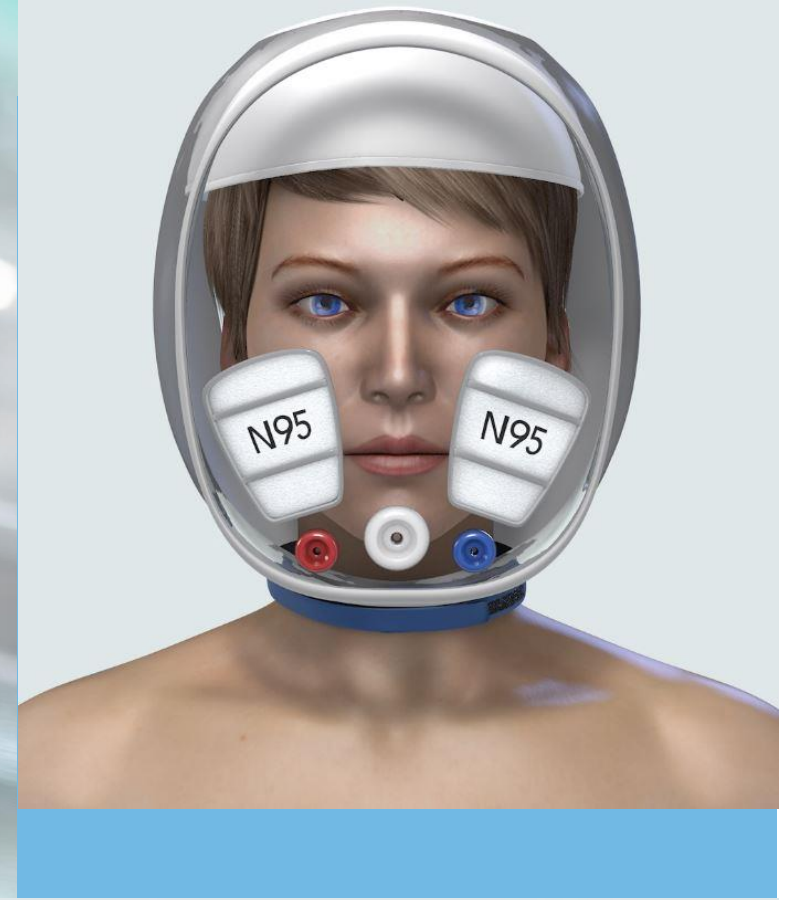


# N95 HEAD ENCAPSULATION UNIT

[WWW.N95ENCAPSULATIONUNIT.COM](http://WWW.N95ENCAPSULATIONUNIT.COM)



# THE N95 HEAD ENCAPSULATION UNIT FILTERS VIRUS CONTAMINATED AIR.

## The N95 Head Encapsulation unit:

- Does not require a fitting process since the primary interface between the head encapsulation unit and the user is the user's neck
- Expandable seal that a user can insert his or her head.
- The seal is then wrapped around and places light pressure against the person's neck so that virus contaminated air that does not enter the inner volume or escape of the head encapsulation unit and infect the user.
- A cap at the upper portion of the unit and the seal aligns the head encapsulation unit on the user's head.
- This head encapsulation unit allows for both medical personnel and infected individuals to better and more easily communicate than mouth covered filters, goggles and face shield while offering substantially more mitigation from spreading an infection or being infected.
- Can be easily put on and sealed without any extensive training in the event of an emergency or pandemic.
- There is a need in the respirator market for an improved device that a user can wear for filtering viruses and from the user spreading harmful viruses.

## N95 Head Encapsulation Unit with N95 Protection Efficiency

- Virus	up to	100%
- Bacterial	up to	100%
- Dust	up to	100%
- Pollen	up to	100%





## Current deficient devices exist in the marketplace:

- Filter contaminated air so that the user does not inhale or spread harmful viruses and bacteria that may be in the air.
- These devices suffer from certain deficiencies so that they still leave the user vulnerable to infection from the harmful virus.
- May not form a sufficient seal with the person skin because of facial hair. The harmful virus may bypass the filtering mechanism of the device and be inhaled by the user through an air pathway formed at the interface between the device and the person's skin.
- Sometimes, a seal is broken between the device the person's skin when the user talks, smiles, coughs or sneezes. These facial movements break the seal and allow unfiltered air which may be contaminated to bypass the filtering mechanism of the prior art device. Moreover, these prior devices leave the eyes, ears, facial & head hair exposed to harmful viruses and bacteria (i.e., microorganisms). These and other prior devices suffer from these and other deficiencies.



## BRIEF SUMMARY

The various aspects of the N95 Head encapsulation unit discussed herein relate to a device that can be worn over a person's head.

- May be positioned on the user's head by way of a cap and a seal.
- The cap is disposed inside the head encapsulation unit and fits on top of the person's head.
- The seal is at a bottom portion of the head encapsulation unit and sealing engages the person's neck.
- The cap and the seal positions the rest of the parts of the head encapsulation unit to the user's head and face.
- The head encapsulation unit has a body (i.e. housing, frame and front transparent layer) with cutouts.
- A filtering mechanism is mounted to the cutouts. The filtering mechanism allows the person to breathe and exhale filtered air since the filtering mechanism traps harmful contaminants such as viruses.
- The seal is easy to wrap around the user's neck and does not require extensive training and fitting to ensure that contaminated air is not transferred into the head encapsulation unit via the interface between the seal and the user's neck.
- The frontal area of the head encapsulation unit may be transparent to allow the user to speak freely without fear of contaminated air seeping into the mask when the user speaks, makes a facial expression or through faulty fitting of the device to a user's anatomical features.
- The head encapsulation unit also when worn by an infected person would trap viruses in the head encapsulation unit so that the infected person is not spreading harmful viruses when they are contagious.
- More particularly, a head encapsulation unit for mitigating contact of an airborne virus from contacting mucous membranes of the eyes, nose and mouth is disclosed.
- The head encapsulation unit may comprise a body, a filter, and a seal. The body may define an interior volume. The body may include a bottom portion, a transparent front panel having a first cutout, and a top portion.
- The filter may be removably attachable to the first cutout.
- The seal may be attached to the bottom portion of the body.
- The seal may include a strap, a base, and a cushion.
- The strap may be removably attachable to the base.
- A through hole in the bottom portion of the body may be sufficiently large so that a person's head may be inserted through the through hole of the bottom portion so that the person can wear the head encapsulation unit.
- The cushion may provide a seal against a user's neck when the strap is pulled and attached to the base.

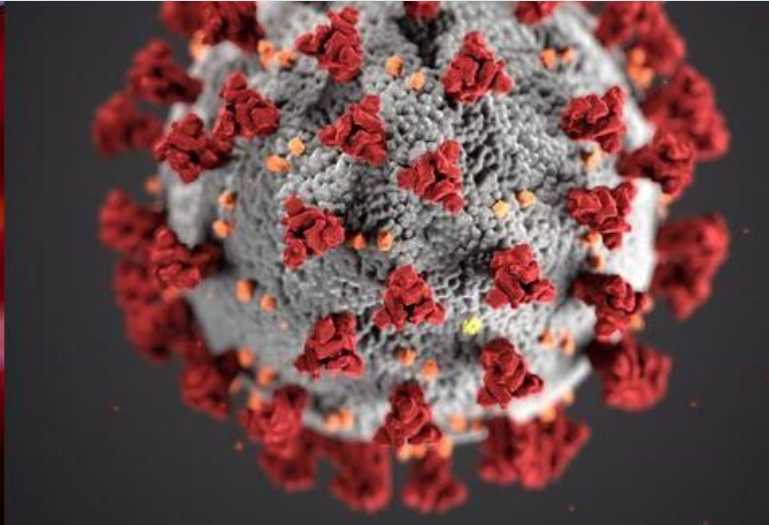


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**1. N95 Encapsulation unit collapsed**



**2. N95 Encapsulation unit Expanding**



**3. N95 Encapsulation unit Expanded**

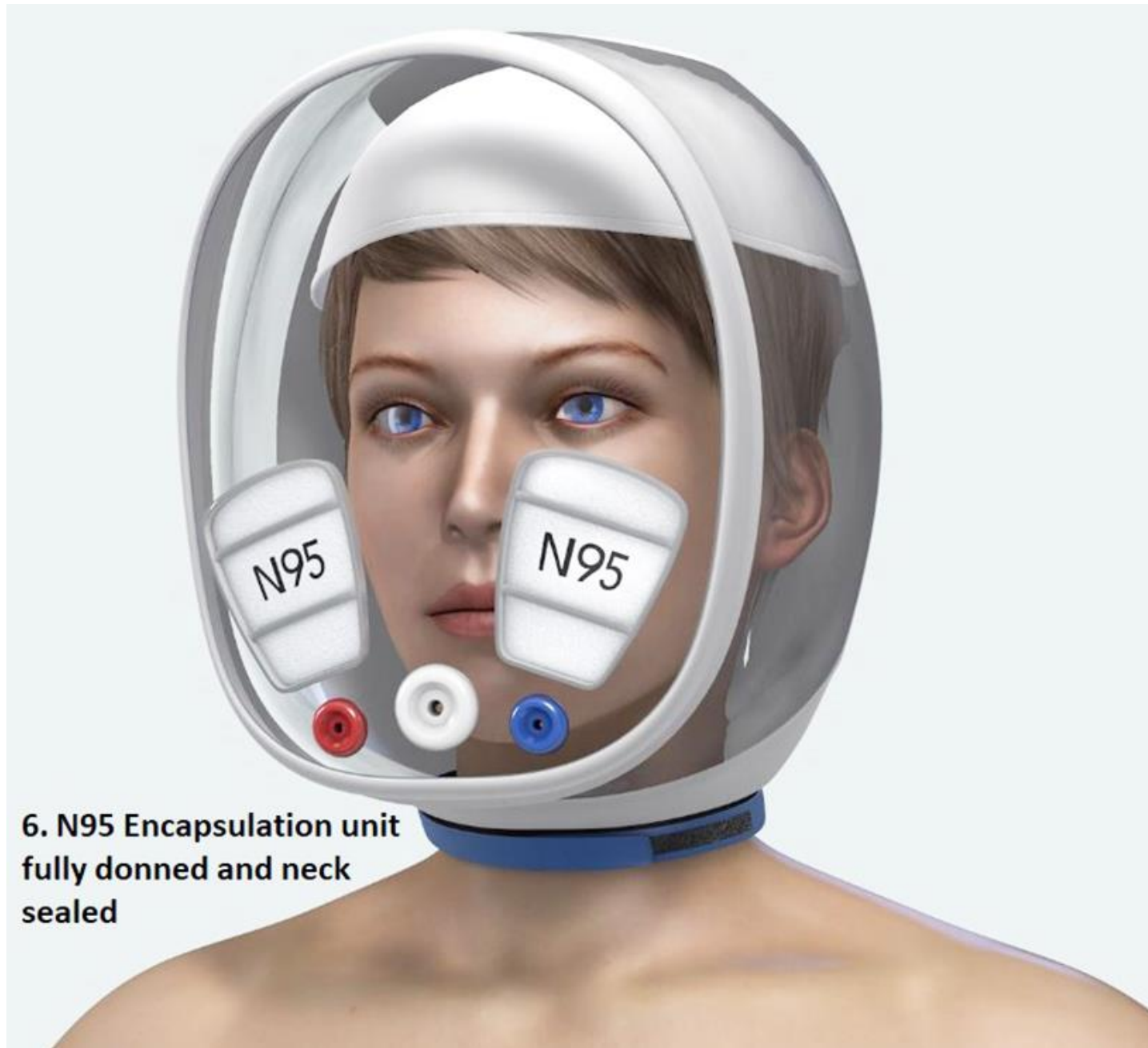




**4. N95 Encapsulation unit Expanded with N95 bi-directional filters**

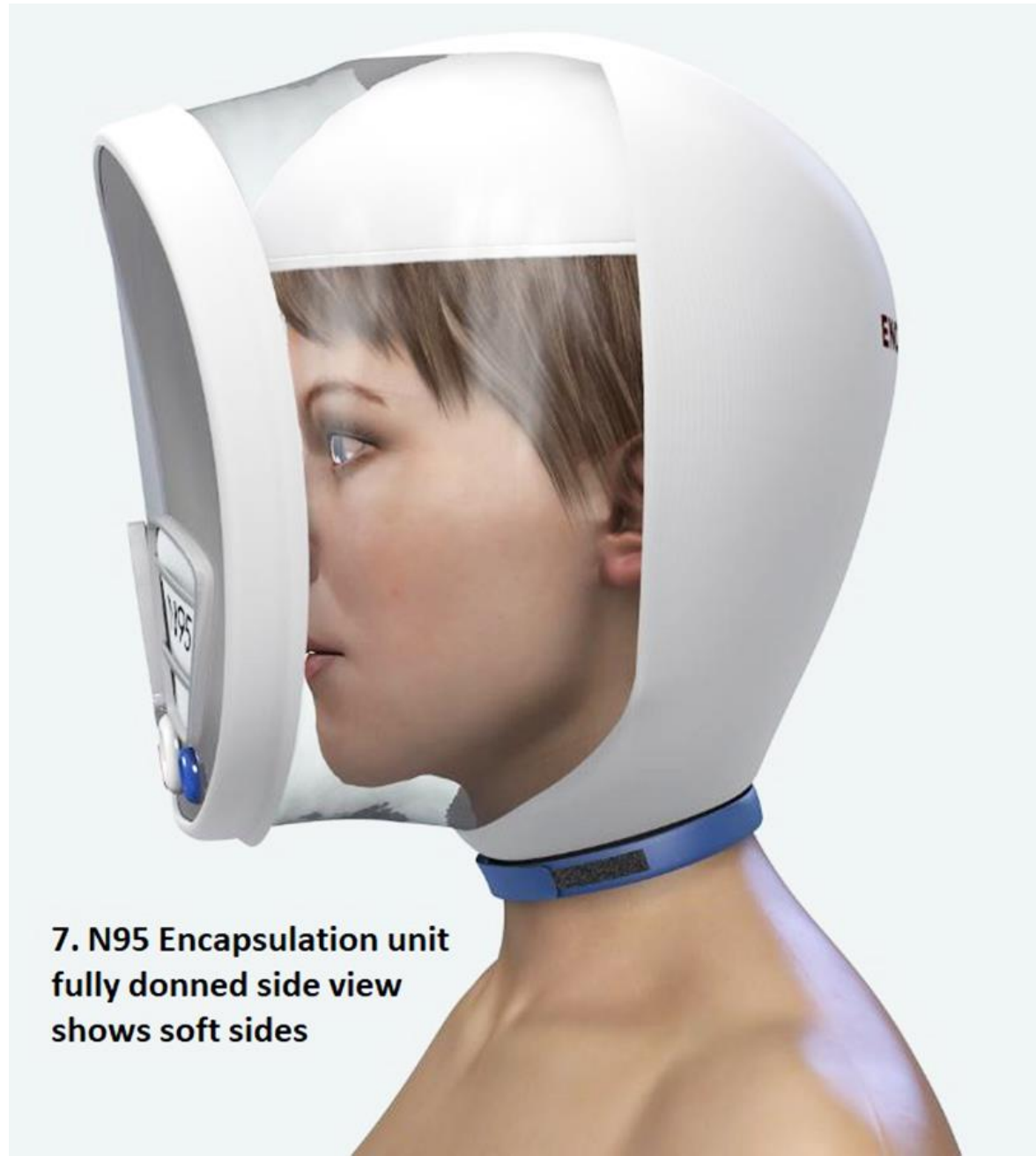


**5. N95 Encapsulation  
unit while donning**



**6. N95 Encapsulation unit  
fully donned and neck  
sealed**



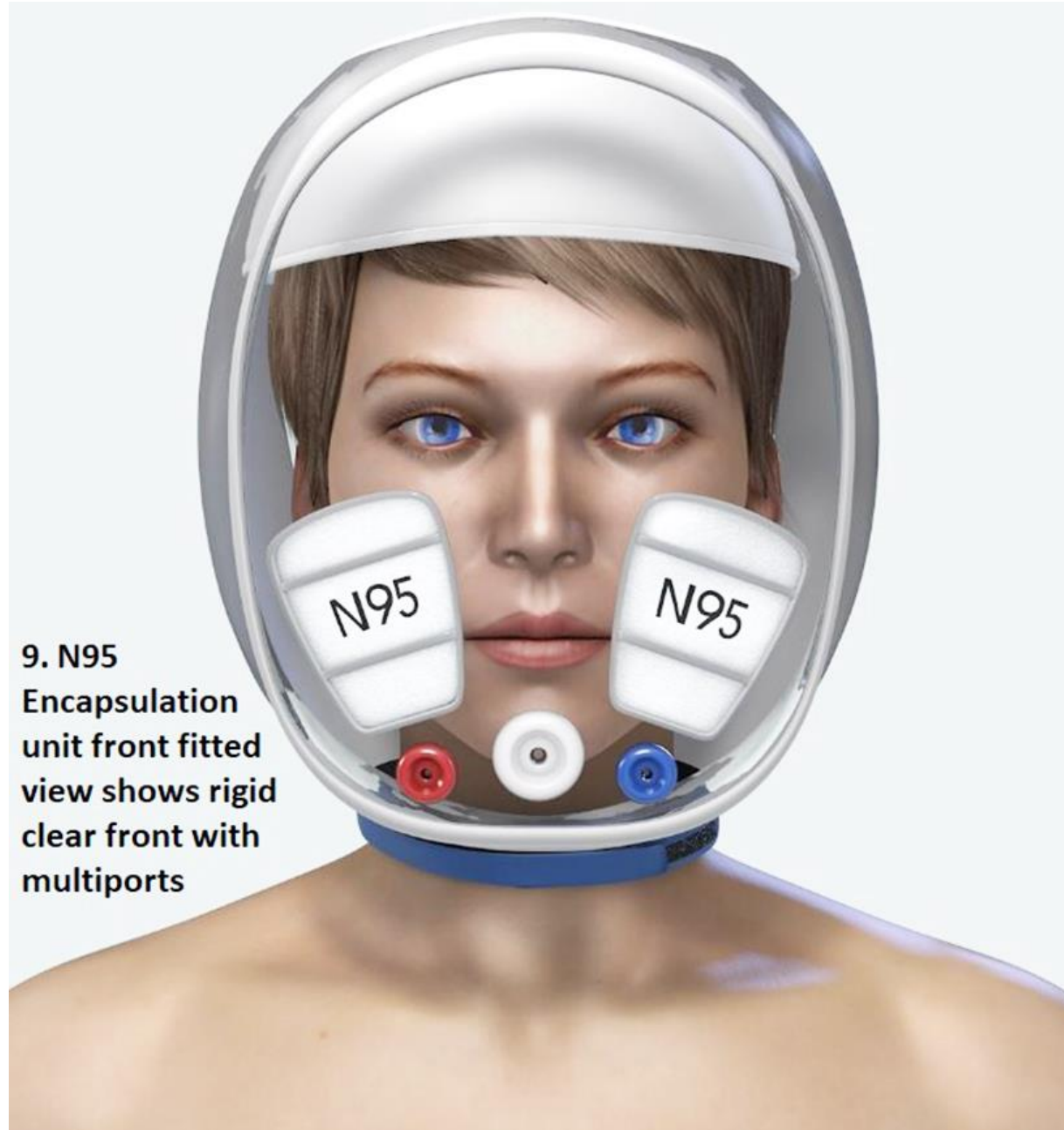


**7. N95 Encapsulation unit  
fully donned side view  
shows soft sides**

**N-95  
ENCAPSULATION  
UNIT**

**8. N95  
Encapsulation unit  
fully donned back  
view**





9. N95  
Encapsulation  
unit front fitted  
view shows rigid  
clear front with  
multiports