

# T3iii: Essential Supplies - Eye Protection

### Why is this Tool Helpful to You?

Eye protection reduces the spread of virus due to coughing, breathing and talking. Physical barriers like face-shields or goggles can also protect against COVID-19 infection.

### **Disclaimer**

The use of information on this site is at reader's own risk and no party involved in the information production can be held responsible for its use. By using the content found on this website, you further acknowledge that it is not intended to be a substitute for public health agency guidance, professional medical advice, diagnosis, or treatment. Always seek the advice of your physician or other qualified health provider with any questions you may have regarding a medical condition. Never disregard public health agency or professional medical advice or delay in seeking it because of something you have read here.

### **What You Need**

Preferred: Plastic safety goggles or a face shield

**Somewhat Effective:** Wrap-around sunglasses, safety glasses

No evidence that they are effective: Prescription glasses, normal sunglasses

**Not Effective:** No eye protection



### **Should I Wear Eye Protection?**

When leaving the house - Yes.

When at home and you are symptomatic or have had recent contact with someone with COVID-19 – Yes.

When at home and you have been in lock-down for greater than 14 days and no one at home has symptoms – No.

There is no harm in wearing eye protection, and it is believed to prevent droplets and a gaseous cloud containing the virus traveling up to 8 meters / 27 feet from reaching the eyes, which can cause infection

- COVID-19 is transmitted in droplets or a gaseous cloud exhaled by an individual infected with COVID-19
  - o These droplets can travel 2 meters or 6 feet away from the individual
  - o A gaseous cloud can travel for up to 8 meters / 27 feet

### Source: JAMA

- Eye protection will prevent or reduce COVID-19 transmission through droplets contacting the eyes
  - Eye protection also discourages eye-rubbing, which also protects you against COVID-19
- Eye protection is **only effective** when used in combination with other personal protective equipment (PPE), frequent hand washing/sanitizing, social distancing, and avoiding facetouching
- You **are strongly advised to** wear eye protection when caring for someone suspected of having COVID-19 or if you exhibit symptoms of COVID-19 and must leave the house (e.g. to get tested)
- You **should** wear eye protection if you may come into contact with people
- Contact lenses **are safe to wear**, but are **not** protective and must be disinfected between uses (like prescription glasses) when leaving the house or in contact with someone suspected of having COVID-19

**Source:** <u>CDC</u> – see Eye Protection, <u>Government of Canada</u> – see Eye Protection, <u>UK Government</u> – see Eye Protection, <u>AAO</u>, <u>Southern College of Optometry</u>



### **Types of Eye Protection**

- Face shields or plastic safety goggles are sufficient to prevent COVID-19 transmission
  - The majority of hospital staff use face shields when caring for COVID-19 patients (UK Government)
  - The videos show how to make a soda bottle face shield and a more complex alternative





- Plastic safety goggles may also be worn by hospital staff when face shields are limiting or when using microscopes (<u>Public Health Ontario</u>)
- <u>Safety goggles or wrap-around sunglasses</u> can provide limited eye protection
- <u>Prescription glasses or normal sunglasses</u> have large gaps between the lenses and the face, and thus provide inadequate protection
  - There is no evidence that normal glasses provide significant protection against COVID-19

**Source:** CDC – see Eye Protection, UK Government, Southern College of Optometry



### **Putting-On Eye Protection**

Adapted from CDC Guidelines

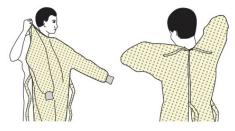
- Wash your hands with alcohol-based hand rub or soap and water for 20 seconds before putting on eye protection
- Place your eye protection on your face after putting on your face mask and before
  putting on your gloves, and adjust to fit
  - Place goggles/face shield over any prescription glasses

# SEQUENCE FOR PUTTING ON PERSONAL PROTECTIVE EQUIPMENT (PPE)

The type of PPE used will vary based on the level of precautions required, such as standard and contact, droplet or airborne infection isolation precautions. The procedure for putting on and removing PPE should be tailored to the specific type of PPE.

### 1. GOWN

- Fully cover torso from neck to knees, arms to end of wrists, and wrap around the back
- · Fasten in back of neck and waist



### 2. MASK OR RESPIRATOR

- Secure ties or elastic bands at middle of head and neck
- Fit flexible band to nose bridge
- · Fit snug to face and below chin
- Fit-check respirator





### 3. GOGGLES OR FACE SHIELD

· Place over face and eyes and adjust to fit



### 4. GLOVES

Extend to cover wrist of isolation gown

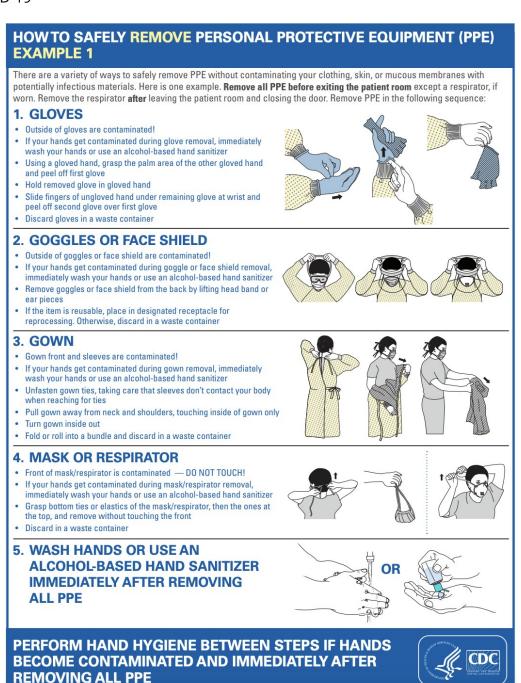




### **Removing Eye Protection**

Adapted from CDC Guidelines

- Only remove your eye protection after taking off your gloves and before taking off your mask
- Remove a face shield or goggles by removing it from behind, pulling the straps over the head and allowing the goggles or shield to fall forward, away from you
  - **Do not** touch the front of the goggles or face shield as it may be contaminated with COVID-19





## **Reusing Eye Protection**

- Eye protection must be cleaned between uses:
  - 1. Hand wash with hot water (greater than 70°C/160°F) and dish soap for about 1 minute, then rinse and dry before disinfecting with store bough disinfectant cleaning solution or disinfecting wipes
  - 2. Soak in 1-part bleach to 50 parts hot water (greater than 70°C/160°F) for greater than 5 minutes, then rinse with water
    - This means 2 tablespoons or 20mL of bleach per liter of water, or 1/3 of a cup bleach per gallon of water
- Eye protection should be dried with disposable paper towel or air dried
- Wash hands with soap and water or alcohol-based hand rub after cleaning eye protection
- Any prescription glasses or contact lenses should also be cleaned or disinfected often

**Source:** Government of Canada – Eye Protection