

The 4th Belt and Road Teenager Maker Camp and Teacher Workshop
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Protection Guideline for COVID-19

Development Report

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1. INTRODUCTION

Getting Involved in the Camp

First of all, we are honoured to be a part of this international and innovative event, Belt and Road Teenager Maker Camp & Teacher Workshop that is co-sponsored by the China Association for Science and Technology (CAST) and Ministry of Science and Technology of China, and supported by the IAP Science Education Program, ECO Science Foundation and Network of African Science Academies (NASAC). After being informed about the event, we quickly formed a team and instant messaging group. We had our first online meeting.

Choosing the Theme

When we examined the themes, we found each theme interesting and inspiring, but we were more interested in Health Theme (Protection Guideline for COVID-19) because of its impact on our lives. Therefore, after discussing all the themes, we all agreed on the health theme. We wanted to share our knowledge with many others. Our teacher informed us about the activities and final task. With the help of the guidebook for student, science videos and documents for self-learning and our research on the subject, we started our project.



2. KNOWLEDGE

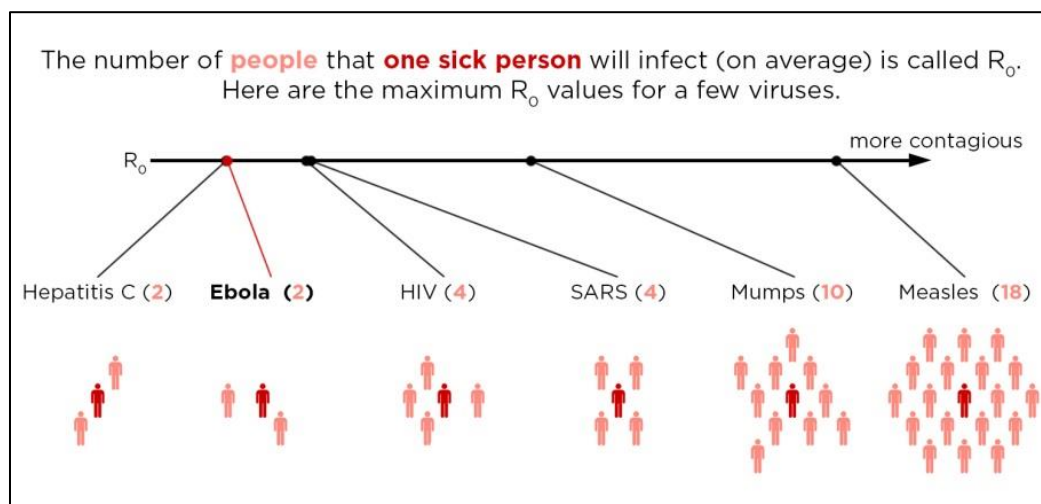
Virus and Bacteria

Bacteria are single-celled living microorganisms that can reproduce and develop in an environment suitable for them. Some bacteria can be pathogenic. Viruses are DNA-carrying microorganisms with protein capsids. They are not living. They only inject their DNA to reproduce.



R0 Value

R0 is a calculation standard that shows how contagious a disease is. Each disease has its own specific R0 values. These values may vary by country.



Different Types of Masks

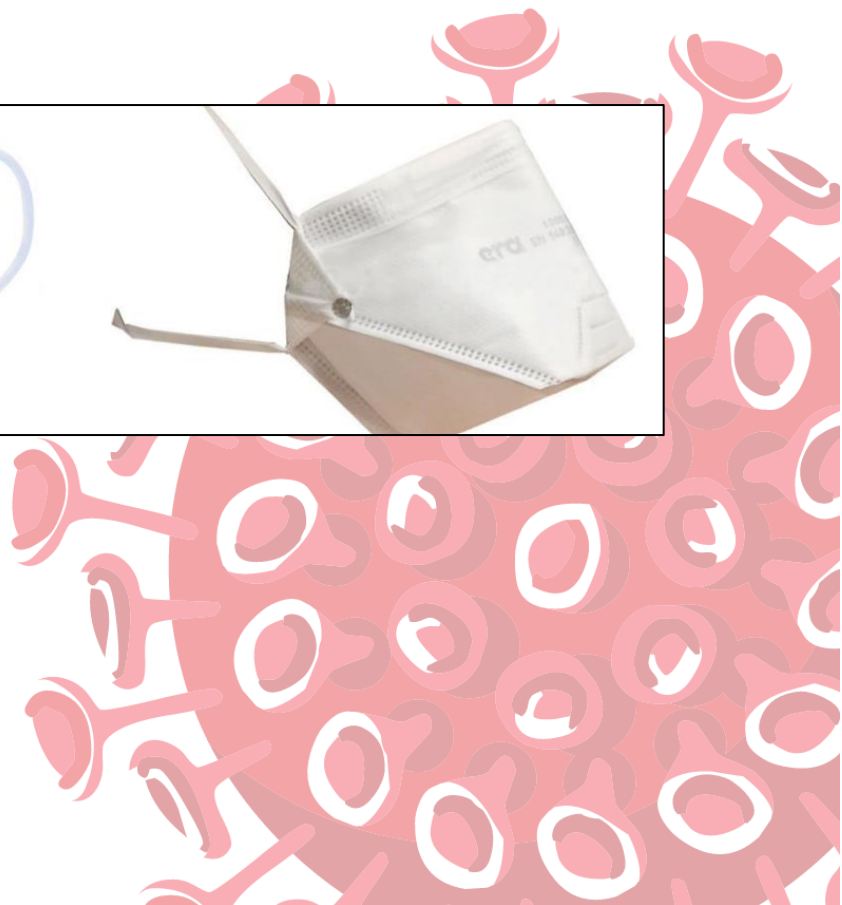
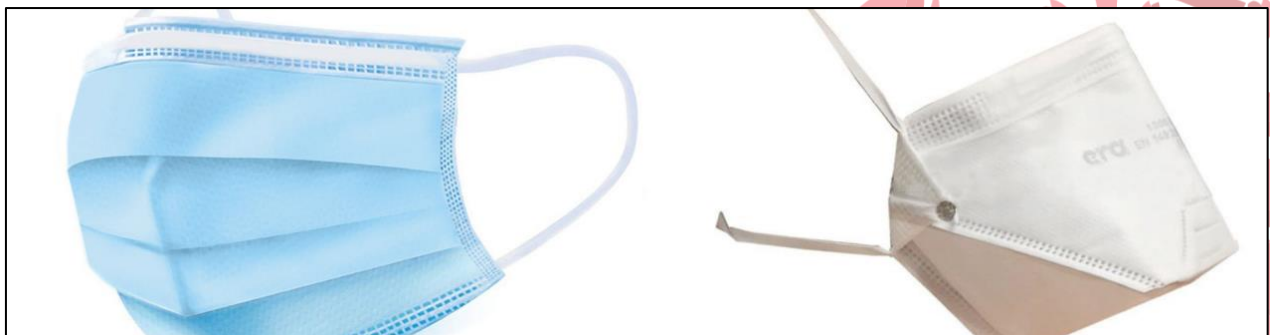
There are 2 different types of masks.

1-) Single-Use Non-Woven Fabric Masks

This type of mask has 5 micron diameter filters and is generally 3-layer masks. It is used during the epidemic, when conducting scientific studies and in the food field.

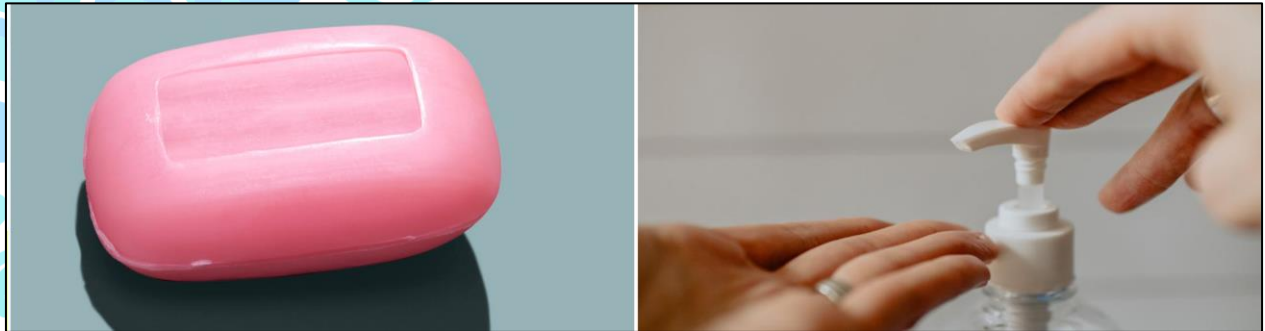
2-) Medical Masks (N95)

N95 masks are masks that can filter 95% of airborne particles and pathogens. It is used by healthcare professionals, industrial work and some sensitive jobs during the coronavirus process.



The main ingredients of soap and hand sanitizers

Soaps are one of the most important products for hygiene. They have antibacterial properties. Glycerin, coconut oil, palmitic acid and etc. are one of the ingredients of soaps. Hand disinfectants are one of the most used products, especially in the pandemic. Hand disinfectants are liquid chemicals. It has antibacterial properties.



How to block transmission?

The most important point is to reduce the droplets emitted from our mouth to the least amount. For this, everyone in the place should wear a mask.

Then we must maintain social distance. The droplet rate we breathe will be minimized and the virus will not infect us.

In addition, it can be completely finished with filtration studies and foreign country ban.

In an epidemic area how to protect your own security?

There are 3 basic steps that you should take as an individual. First of all, try to be isolated from the crowd as much as possible. Be careful about your personal hygiene. Finally, keep your social distance (2m) in order to be safe.

Going to School

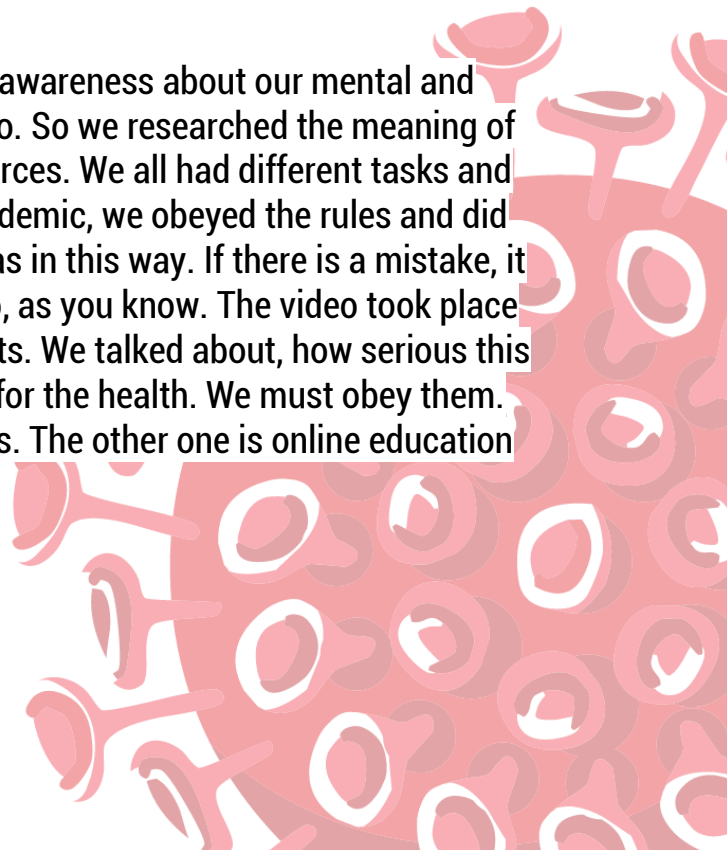
If you are a student, be careful when schools start. Do not contact your friends. Do not remove your mask. Wash your hands frequently and thoroughly. Pay attention to social distancing during breaks - especially in corridors.

Transportation

Do not use public transport unless it is compulsory. If you are using public transport, do not let anyone sit next to you.

3.METHODS

When we started our project, we decided to raise awareness about our mental and physical health. During these times it is hard to do. So we researched the meaning of health and the importance. We used so many sources. We all had different tasks and we have done them together. Also during the pandemic, we obeyed the rules and did online chats, online meetings. We shared our ideas in this way. If there is a mistake, it was fixed quickly by us. We also prepared a video, as you know. The video took place not just in the school, also you can the house parts. We talked about, how serious this situation. About the poster, there are some rules for the health. We must obey them. Some of them are, social distance, wearing masks. The other one is online education and the place of face to face in our country.



4. CONCLUSION

We worked as a team and helped each other at every step of the project. We tried our best online to overcome the obstacles of virus. Through the website of the event, we learned more about different cultures as well.

5. RESOURCES

1. <https://www.npr.org/sections/health-shots/2014/10/02/352983774/no-seriously-how-contagious-is-ebola>
2. <https://www.who.int/>
3. <https://www.forbes.com/sites/brucelee/2020/05/20/10-indoor-places-to-avoid-due-to-covid-19-coronavirus/?sh=6d2b81d57a58>
4. <https://www.livescience.com/51641-bacteria.html>
5. <http://2020.brmakercamp.cyscc.org.cn/>
6. <https://www.saglik.gov.tr/>