Original Resea	Volume - 10 Issue - 7 July - 2020 PRINT ISSN No. 2249 - 555X DOI : 10.36106/ijar Healthcare
Stol Compolica	CORONA PREVENTION AND CONTROL
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KEYWORDS :	

INTRODUCTION:

The coronavirus COVID-19 pandemic is the defining global health crisis of our time and the greatest challenge we have faced since World War Two. Since its emergence in Asia late last year, the virus has spread to every continent except Antarctica. Cases are rising daily in Africa the Americas, and Europe. Countries are racing to slow the spread of the virus by testing and treating patients, carrying out contact tracing, limiting travel, quarantining citizens, and cancelling large gatherings such as sporting events, concerts, and schools. The pandemic is moving like a wave—one that may yet crash on those least able to copeTill date(04/11/2020), the coronavirus disease has spread to 210 countries with over 1.7 million cases and over 106,000 deaths worldwide. There is no vaccine and no definite treatment. The best way to prevent illness is to avoid being exposed to this virus. So prevention is better than cure(1).

What is of the highest priority for health team and governments during a crisis is the well-being of people – the individuals. The nursing leadership need to contribute and complement the efforts by having a professional crisis management plan. A strong crisis management plan can also help health team ensure the well-being of their people, keep their resources protected and strengthen their ability to perform optimally when the odds are stacked against them.(2)

COVID CRISIS IN SAUDI ARABIA:

In the kingdom COVID-19 Monitoring Committee held its 83rd meeting. Chaired by the Minister of Health, Dr. Tawfik bin Fawzan Al-Rabiah, the meeting was attended by the committee members, who represent the relevant government agencies. During the meeting, all relevant COVID-19 updates and reports were reviewed. The committee has discussed the global epidemiological situation, as well as the cases reported locally and their health condition. All precautionary measures carried out at the points of entry into the Kingdom will continue in full, the Committee stressed, and will be further tightened. Meanwhile, the Committee commended the citizens' compliance with the curfew, and called on them to stay home, and refrain from going unless necessary. Following the meeting, Dr. Muhammad Al-Abdulaali, Assistant Minister of Health and MOH spokesman, stated that the total number of confirmed COVID-19 cases worldwide has jumped to 4,200,000 cases, of which 1,400,000 cases have recovered to date. As for the COVID-19 death toll, it has jumped to about 286,000. Besides, 1,911 new confirmed cases were reported in the Kingdom, distributed as follows: 443 in Riyadh, 407 in Makkah, 306 in Jeddah, 176 in Madinah, 91 in Hofuf, 78 in Dammam, 74 in Al-Khobar, 57 in Al-Majmaah, 42 in Heddah, 33 in Al-Jubail, 27 in Tabuk, 18 in Al-Dhahran, 18 in Qaraah, 18 in Hazm Al-Jalameed, 17 in Al-Qatif, 17 in Bish, 16 in Taif, 16 in Hael, 10 in Al-Kharj, 5 in Najran, 4 in Khamis-Misheit, 4 in Wadi Al-Dawaser, 3 in Safwi, 3 in Hotat Bani Tamim, 3 in Al-Dalam, 3 in Al-Derivah, 2 in Mahayel Assir, 2 in Bisha, 2 in Hafr Al-Batin, 2 in Qunfudah, 2 in Layla, and one case in Baqiq, Buraidah, Uqlat Al-Soqour, Sabt Al-Elaya, Rabigh, Al-Muzailef, Namira, Sakaka, Al-Qurayyat, Thadiq, Shaqraa and Huraimelaa. This brings the total COVID-19 cases in the Kingdom to 42,925 cases, including 27,404 active cases, receiving the medical care they may be in need of. Of these, there are 147 critical cases, whereas the health condition of the rest is stable. Of the 1,911 cases reported today, 31% are Saudi citizens, and 69% are non-Saudi residents. About 18% of the cases are females, and 82% are males. Only 2% of the reported cases are older persons, 6% are children, and 92% are adults.

The number of new recoveries has amounted to 2,520, bringing the total recoveries to date to 15,257. And 9 new deaths were reported, bringing the total deaths to 264. The new deaths include a 53-year-old Saudi woman in Jeddah, a 64-year-old Saudi man in Jeddah, and 7 non-Saudi residents in Makkah, Jeddah and Wadi Al-Dawaser, aged 29 - 64 years old. They mostly suffered from chronic diseases. (3)

LEADERSHIP AT THE CRISIS : BE A ROLE MODEL NURSING DIRECTOR AT THE FOREFRONT



LEADERSHIP ROLE DURING CRISIS: Strong leadership is critical in disaster and public health emergency situations when the demand for care challenges a public health department or health care facility's capacity to respond and normally acceptable patterns of care are disrupted. Activation of the organization's emergency operations plan triggers: •an incident command system structure for leadership decision-making "protocols for allocating scarce resources "guidelines for both internal and external emergency communications.Yet implementation of the emergency plans and protocols is ultimately subject to medical, nursing, public health and hospital leadership at the service level. The results of these leadership decisions have the potential to directly impact staff and patient safety, quality of care and ultimately, patient outcomes. Despite the critical nature of these events, health care providers receive relatively little education or training regarding crisis leadership and decision-making during disaster and major public health emergency eventsgreatest asset. In times of a crisis, organizations have the responsibility to act in the best interests of their people - and their customers and other stakeholders. It's also best for business in times like these when acquiring, managing and retaining talent while controlling cost becomes tougher than ever before. This will require companies to be adaptable to rapid change.

Communicate and prepare your team :- promptly, clearly and transparentlyThe best lines of communication are the most open. Clear, prompt and transparent communications are essentials in all business scenarios. In crisis scenarios, it is even more so, especially if you need to secure ongoing support from customers, employees, suppliers, investors and regulatory authorities. Companies will want to keep customers apprised of any impact to product or service delivery. If contractual obligations cannot be met as a result of supplier or production disruption, be prompt to negotiate. Proactive communication and actions will help mitigate punitive damages, liabilities associated with disrupted customer obligations and damage to brand reputation.

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The AFHSR Nursing Team Lead By Dr. Krishnevellie Chetty

2.Motivate the team: The nursing leader needs to stay focused and needs to remain a role model which will allay fear and anxiety among the nursing team functioning with her. She needs to motivate them through various means of incentives to maintain staff morale.



Encouraging notes from the Nursing Director keeps up the Staff Motivation

3. Keep expenses in check and have backups for budget deficits: Determine how the crisis affects budgets and business plans. Stress-test financial plans for multiple scenarios to understand the potential impact on financial performance and assess how long the impact may continue. If the impact is material and former budget assumptions and business plans are no longer relevant, remain agile and revise them. Where the business is significantly impacted, consider minimum operating requirements, including key dependencies of workforce, vendors, location and technology.If required, look at near-term capital raising, debt refinancing or additional credit support from banks or investors, or policy support from the government. At the same time, review overall operating costs and consider slowing down or curtailing all nonessential expenses.

4. Identify and repair broken links in the supply chain:Most companies are likely to experience significant disruption to their operations and will underperform throughout the duration of the COVID-19 crisis. Companies that are operating in or exposed to countries that are significantly affected by COVID-19 will experience disruption to their supply chain and production commitments.When working with broken supply chains, companies need to maintain regular contact with suppliers regarding their capability to deliver goods and services, and work out recovery plans. When required, promptly consider alternative supply chain options.Reimagine the supply chain model, leverage digital ecosystems and market networks, and enable newer forms of collaboration to work around disrupted supply chains.

5. Prepare for the unexpected :Organizations are generally prepared for legal roadblocks during business-as-usual scenarios. Unforeseen crises can however present unforeseen legal challenges. Companies will have to conduct contract risk assessment and identify preventive actions, manage customer-supplier contract disputes due to economic impacts or supply disruptions, and even be prepared to invoke "force majeure" clauses when required. When communicating with relevant stakeholders, consult with legal teams for advice on potential liabilities. Consult also with business units regarding how to manage communication around ongoing breaches and collection of proofs, if any.(4)

Basics Of Prevention And Control Of Corona: It's imperative that the health care team disseminate the importance of the following both to the health team colleagues and the society .Simple measures taken will save lives far more than the advanced technics which will be exhaustive for everyone.

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I)IMPORTANCE OF HAND HYGIENE: Pay attention to personal hygiene. Hand hygiene is the very best weapon in any fight between human and contagious disease. There are a lot of things we don't know about this virus, but we do know it spreads through respiratory droplets produced when an infected person coughs or sneezes.

- Other individuals may be infected when they touch a surface that has virus particles on it and then touch their own mouth, nose, or eyes.
- Global Handwashing Day (GHD) is an international handwashing promotion campaign to motivate and mobilize people around the world to improve their handwashing habits. Washing hands at critical points during the day and washing with soap are both important.
- Global Handwashing Day occurs on 15 October of each year.
- The CDC(Centers for Disease Control and Prevention) has initiated Life is Better with Clean Hands campaign which encourages adults to make handwashing part of their everyday life and also encourages parents to wash their hands to set a good example for their kids.

During this COVID-19 pandemic, you should clean hands specially:

- After you have been in a public place and touched an item or surface that may be frequently touched by other people, such as door handles, tables, gas pumps, shopping carts, or electronic cashier registers/screens, etc.
- Before touching your eyes, nose, or mouth because that's how germs enter our bodies.
- Wash your hands often with soap and water for at least 20 seconds especially after you have been in a public place, or after blowing your nose, coughing, or sneezing.
- To time handwashing to 20 seconds, you can sing the Happy Birthday song twice.
- If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands and rub them together until they feel dry.
- Proper hand washing techniques



WHO guidelines:

- Washing hands with soap and water is the best way to get rid of germs in most situations.
- If soap and water are not readily available, you can use an alcoholbased hand sanitizer that contains at least 60% alcohol (Look at the product label to know the alcohol content).
- Sanitizers can quickly reduce the number of germs on hands in many situations. However,
- Sanitizers do not get rid of all types of germs.
- Hand sanitizers may not be as effective when hands are visibly dirty or greasy.
- Hand sanitizers might not remove harmful chemicals from hands like pesticides and heavy metals.
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Rotational rubbing, backwards and forwards with clasped fingers of right hand in left palm and vice versa

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II)AVOID TOUCHING YOUR EYES,NOSE,AND MOUTH WITH UNWASHED HANDS:

Our Hands touch many surfaces and can pick up viruses.

- Once contaminated, hands can transfer the virus to your eyes, nose or mouth.
- · From there, the virus can enter your body and can make you sick.
- This is a lot harder than it sounds and requires conscious effort.
- The average person touches their face 23 times an hour, and about half of the time, they're touching their mouth, eyes, or nose the mucosal surfaces that COVID-19 infects.

III) PRACTICE RESPIRATORY HYGIENE:

- Make sure you, and the people around you, follow good respiratory hygiene. This means covering your mouth and nose with your bent elbow or tissue when you cough or sneeze. Then dispose of the used tissue immediately.
- Immediately wash your hands with soap and water for at least 20 seconds. If soap and water are not readily available, clean your hands with a hand sanitizer that contains at least 60% alcohol.
- Droplets spread virus. By following good respiratory hygiene you protect the people around you from viruses such as cold, flu and COVID-19.
- Stay home if you are feeling sick, and seek appropriate medical guidance.

IV) SOCIAL DISTANCING:



The CDC recommends that people should stay at least six feet apart (1.83 meters).

 Respiratory droplets from a cough or sneeze can travel up to six feet and be inhaled into the lungs of people within range. Protect yourself by staying out of range.

- Researchers say that the coronavirus rapid spread is likely due to the movements of people with no or very mild symptoms namely, those who are unaware that they even have the virus. That is why social distancing is such an important containment measure and the only way to break the chain of contagion.
- Social distancing is exactly what it sounds like: keeping your distance from other people.
- It's often used to describe public health measures imposed by local governments-measures like quarantining the sick, closing schools,workplaces,restricting travel and canceling public gatherings. And, when it's done early enough during a pandemic illness, it's been shown to save lives. But you don't have to wait for the government to tell you what to do; you can begin practicing social distancing right now for your own safety.
- Make your meetings virtual. Or postpone meetings entirely.
- Don't hug or shake hands or kiss on the cheek. If you have to meet with someone in person, find an alternative greeting that reduce the transfer of virus.
- You can just say 'hello', tip your hat, wave, give a nod ,bow, highfive in the air, place hand over the heart like you're about to make a pledge or try the Vulcan salute which consists of raising one's hand, with space between the middle and ring fingers, and the index finger and the thumb.
- The Vulcan salutation is a hand gesture popularized by the 1960s television series Star Trek.
- One gesture that WHO director-general Tedros Adhanom Ghebreyesus recommends is the Hindu greeting of Namaste, which is accompanied by placing one's palms together, fingers pointed upwards and drawing the hands to the heart.
- From US President Donald Trump to French President Emmanuel Macron to Prince Charles to Irish Prime Minister Leo Varadkar, all have resorted to greet with namaste during this period of pandemic Make a conscious effort to avoid crowds. For example, with warmer weather upon us, think about walking or riding a bike to campus instead of taking the subway or a bus.
- This recommendation relates both to keeping your distance and avoiding contaminated surfaces.



V) KEEP SURFACES CLEAN:

- Among the things we don't know about COVID-19 is how long the virus can survive outside of a human host. But we do know that -The virus is susceptible to disinfectants. Here's some cleaning tips.
- Use the right product:

According to the CDC, diluted household bleach solutions, alcohol solutions with at least 70% alcohol, chlorine-containing disinfectant, hydrogen peroxide disinfectant, chloroform and other lipid solvents can effectively inactivate the virus.

- Use the product right:
- First, clean dirt off of the surface. Then wipe the surface with disinfectant. Leave the surface wet with disinfectant for as many minutes as the product instructions require. This is a vital step that people often miss. It's not enough to just wipe the surface and go.

Clean the right surfaces:

- High-touch areas such as door handles, phones, remote controls, light switches, and bathroom fixtures.
- Horizontal surfaces such as countertops, kitchen tables, desktops and other places where respiratory droplets could land.
- AND your mobile phone! It's filthy. Did you wash your hands and then touch that phone? Just like that, you're re-contaminated.

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- AND your mobile phone! It's filthy. Did you wash your hands and then touch that phone? Just like that, you're re-contaminated.
- Do not reuse disinfectant wipes on multiple surfaces. This can transfer germs from the used wipe to other surfaces. Use one wipe for each surface and then throw it out.
- Do not dry surfaces after wiping them down. Surfaces you are disinfecting need to stay wet for the amount of time listed on the label. The contact time with the disinfectant is what actually kills the germs.

There are many types of masks:

- The paper mask
- Cotton mask
- Activated carbon mask
- Sponge mask
- Surgical mask

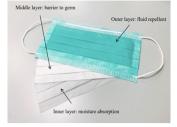


- N95 respirator
- The best masks for protection against COVID-19 are Surgical
- mask and N95 respirator.



SURGICAL MASKS:

- Surgical masks are disposable, loose-fitting face masks that cover your nose, mouth, and chin.
- Also called procedure mask or medical mask, it is generally worn by health professionals during surgery and during nursing.
- They're typically used to:
- Protect the wearer from sprays, splashes, and large-particle droplets.
- Prevent the spread of potentially infectious respiratory secretions from the wearer to others.
- They are not designed to protect the wearer from inhaling airborne bacteria or virus particles and are less effective than respirators, such as N95 masks, which provide better protection due to their material, shape and tight seal.
- Remember that while surgical masks don't protect against COVID-19 infection, they can help trap infectious respiratory secretions. This can be a vital tool in helping prevent the spread of the virus to others in your surroundings.
- Usually, the masks are three-ply (three layers).
- The outer layer is waterproof to prevent the droplets from entering the mask.
- The middle layer is provided with a filtration layer, that filters microbes.
- The inner layer is used for moisture absorption.
- Most surgical masks feature pleats or folds. Three pleats are used to allow the user to expand the mask such that it covers the area from the nose to the chin.



- Wear a facemask if you are sick and if you are coughing or sneezing.
- If you are healthy, you do not need to wear a facemask unless you are caring for someone who is sick.
- If you are sick: You should wear a facemask when you are around other people (e.g., sharing a room or vehicle) and before you enter a healthcare provider's office.
- If you are NOT sick: If you are healthy, you only need to wear a mask if you are taking care of a person with suspected COVID-19 infection. Facemasks may be in short supply and they should be saved for caregivers.
- Masks are effective only when used in combination with frequent hand-cleaning with alcohol-based hand rub or soap and water.

how to use a surgical mask properly:

- Clean your hands, either by washing with soap and water or by using an alcohol-based hand sanitizer.
- Before putting the mask on, inspect it for any tears or holes.
- Locate the metal strip in the mask. This is the top of the mask.
- Orient the mask so that the colored side faces outward, or away from you.
- Place the top part of the mask on the bridge of your nose, molding the metal strip to the shape of your nose.
- Carefully loop the elastic bands behind your ears or tie the long, straight ties behind your head.
- Pull the bottom of the mask down, ensuring that it covers your nose, mouth, and chin.
- Try to avoid touching the mask while you're wearing it. If you must touch or adjust your mask, be sure to clean your hands immediately afterward.
- To take off the mask, unloop the bands from behind your ears or undo the ties from behind your head. Avoid touching the front of the mask, which may be contaminated.
- Promptly dispose of the mask in a closed garbage bin, thoroughly cleaning your hands afterward.
- Replace the mask with a new one as soon as it is damp and do not re-use single-use masks.

n-95 respirator:

An N95 respirator is a respiratory protective device designed to achieve a very close facial fit and very efficient filtration of airborne particles.

- The edges of the respirator are designed to form a seal around the nose and mouth.
- The 'N95' designation means that when subjected to careful testing, the respirator blocks at least 95 percent of very small (0.3 micron) test particles.
- If properly fitted, the filtration capabilities of N95 respirators exceed those of face masks.
- However, even a properly fitted N95 respirator does not completely eliminate the risk of illness or death.
- People with chronic respiratory, cardiac, or other medical conditions that make breathing difficult should check with their health care provider before using an N95 respirator because the N95 respirator can make it more difficult for the wearer to breathe.
- Some models have exhalation valves that can make breathing out easier and help reduce heat build-up.
- All FDA-cleared N95 respirators are labeled as "single-use," disposable devices.
- If your respirator is damaged or soiled, or if breathing becomes difficult, you should remove the respirator, discard it properly, and replace it with a new one. To safely discard your N95 respirator, place it in a plastic bag and put it in the trash. Wash your hands after handling the used respirator.
- Ensure the entire team is well aware of the importance of PPE's and adhere to the infection control policies.

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VI) IF YOU HAVE FEVER, COUGH AND DIFFICULTY BREATHING, SEEK

MEDICAL CARE EARLY:Regular surveillance is very imperative:

Surveillance and seeking medical care at the earliest is imperative in prevention and control of COVID. There needs to be disaster preparedness and staffing plan as back up if many registered nurses on the floor had to leave the unit temporarily for quarantine.



- Stay home if you feel unwell. If you have a fever, cough and difficulty breathing, seek medical attention and call in advance. Follow the directions of your local health authority.
- · There needs to be separate blocks allotted for staff quarantine.-
- If novel coronavirus is suspected, it may be necessary to go to the local designated medical institutions on time for screening, diagnosis and treatment.
- It is important to truthfully give a detail about your travel history, the contact history of pneumonia patients or suspected patients, and the contact history of animals.
- It should be noted that surgical masks should be worn throughout the treatment to protect yourself and others.
- Stay home from work, school and public areas, except to get medical care.
- Avoid taking public transportation if possible.
- Isolate yourself as much as possible from others in your home.
- Use a separate bedroom and bathroom if possible.
- Avoid sharing dishes, glasses, bedding and other household items.

VII) FOUR CORNERSTONES OF HEALTH:

A.Reasonable diet

- B.Sports and physical exercise
- C.Quitting smoking and alcohol
- D. Psychological balance





a)Reasonable diet:

- One of the best ways to stay healthy is to eat a nutritious diet. That's because our immune system relies on a steady supply of nutrients to do its job.
- Here are some key nutrients that play a role in immunity, and food sources of them:
- Beta carotene
- Beta carotene gets converted to vitamin A, which is essential for a strong immune system. It works by helping antibodies respond to toxins and foreign substances.
- Good sources of beta carotene include sweet potatoes, carrots, mangoes, apricots, spinach, kale, broccoli, squash and cantaloupe.

Vitamin C :

- Vitamin C increases blood levels of antibodies and helps to differentiate lymphocytes.
- Research has suggested that higher levels of vitamin C (at least 200 milligrams) may slightly reduce the duration of cold symptoms.
- Vitamin C rich diet include oranges, grapefruit, kiwi, strawberries, Brussels sprouts, red and green peppers, broccoli, cooked cabbage and cauliflower.

Vitamin D :

- Vitamin D is an immunomodulator.
- Winter-associated vitamin D deficiency from a lack of suninduced vitamin D production can weaken the immune system, increasing the risk of developing viral infections that cause upper respiratory tract infections.
- Inversely, research suggests that vitamin D supplements may help to protect against acute respiratory tract infections.
- Good food sources of vitamin D include fatty fish, including canned fish like salmon and sardines; eggs, fortified milk and plant milk products; cheese, fortified juice, tofu and mushrooms.

Zinc:

- Zinc is known to play a central role in the immune system, and zinc-deficient persons experience increased susceptibility to a variety of pathogens.
- Zinc is crucial for normal development, differentiation and function of cells mediating immunity such as neutrophils, macrophages, natural killer cells and antibodies.
- One meta-analysis revealed that zinc supplements may shorten the duration of symptoms of the common cold.
- Sources of zinc include beans, chickpeas, lentils, tofu, fortified cereals, nuts, seeds, wheat germ, oysters, crab, lobster, beef, pork chop, dark meat poultry and yogurt.

Protein:

- Protein is a key building block for immune cells and antibodies and plays a crucial role in helping our immune system do its job.
- Protein comes from both animal and plant-based sources and includes fish, poultry, beef, milk, yogurt, eggs and cottage cheese, as well as nuts, seeds, beans and lentils.

Probiotics and prebiotics:

- Probiotics and prebiotics help boost the immune system by increasing population of beneficial microbes in the intestines.
- Probiotics are live beneficial bacteria whereas prebiotics are specialized plant fibers which act like fertilizers that stimulate the growth of healthy bacteria in the gut.
- Prebiotics reach the colon undigested and are fermented by the beneficial bacteria in the colon.
- Sources of probiotics include fermented dairy foods such as yogurt and kefir -a milk drink that has been fermented using kefir grains and contains lactobacilli and bifidobacteria in high doses. Other sources include aged cheeses, as well as fermented foods such as kimchi, sauerkraut, miso, tempeh and sourdough bread.
- Sources of prebiotics include whole grains, bananas, onions, garlic, leeks, asparagus, artichokes and beans.

Stay hydrated:

- Mild dehydration can be a physical stressor to the body.
- Our body depends on water to survive. Every cell, tissue, and organ in our body needs water to work properly. Water is needed for overall good health.
- Drink 8, 8-ounce glasses of water each day.
- Eat more fruits and vegetables with high water content like cucumbers, tomatoes, spinach, mushrooms, watermelon, broccoli, brussels sprouts, oranges, apples, lettuce etc.

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Healthy eating habits during this corona pandemic:

- Do not eat diseased animals and their products.
- To buy poultry from hygienic areas.
- Wash your hands thoroughly with soap and water for at least 20 seconds before preparing any food.
- Cook thoroughly when consuming meat, eggs and milk.
- Separate cutting boards and knives for handling raw and cooked food.
- Wash your hands thoroughly after handling raw food.
- Even in areas with outbreaks, meat is safe to eat if it is thoroughly cooked and properly handled during food preparation.
- Cooking and eating together is a great way to create healthy routines, strengthen family bonds and have fun.
- Keep perishable items refrigerated or frozen, and pay attention to product expiry dates
- Aim to recycle or dispose of food waste and packaging in an appropriate and sanitary manner, avoiding build-up of refuse which could attract pests.
- Wash your hands with soap and water for at least 20 seconds before eating and make sure your children do the same.
- Always use clean utensils and plates.

b.Physical exercise:

Engaging in regular physical activity is a great way to help manage stress and strengthen your immune system. In fact, research shows those who partake in regular physical activity have a lower incidence of infection compared to inactive and sedentary individuals.

- Being physically active may help reduce the risk of chronic diseases that could further weaken your immune system, including cardiovascular disease, diabetes and obesity.
- Exercise also reduces levels of the body's stress hormones, such as adrenaline and cortisol, Lower levels of stress hormones may protect against illness.
- Exercise also stimulates the production of endorphins-chemicals in the brain that are the body's natural painkillers and mood elevators
- For an at-home cardio workout, you can do jumping jacks, high knees, butt kicks, burpees and switch jumps
- Also you can use resistance bands for back, bicep, triceps, shoulders and leg work.
- And don't forget about the joy of dancing!
- If you are looking for something a bit more structured, there are plenty of online options to choose from YouTube.
- You can also practice physical activity

C.Quit alcohol and smoking:

- Studies have shown that drinking too much alcohol can suppress the immune system and make people more vulnerable to infection.
- A weakened immune system not only means a heightened risk for becoming infected with the coronavirus, but also may intensify the severity of the coronavirus disease, COVID-19.
- As social distancing sets in, loneliness and depression might also increase, raising the specter of wider alcohol use.
- People with depression, anxiety, and substance abuse are also at higher risk when stressed.
- As the coronavirus is new, many people around the globe are experimenting with home remedies, including drinking alcohol, in attempts to ward off an infection.
- The World Health Organization (WHO) put out a statement on social media dispelling the myth that drinking alcohol prevents coronavirus
- Over 44 people have died from alcohol poisoning in Iran in attempts to prevent coronavirus contagion, according to Iranian news agencies.
- A child in Iran went into coma and lost his vision after being given alcohol by his family as a supposed protective measure
- Smokers are likely to be more vulnerable to COVID-19 as the act of smoking means that fingers are in contact with lips which increases the possibility of transmission of virus from hand to mouth. Sharing contaminated cigarettes also can increase transfer risk
- Smokers may also already have lung disease or reduced lung capacity which would greatly increase risk of serious illness.
- Smoking products such as water pipes often involve the sharing of mouth pieces and hoses, which could facilitate the transmission of COVID-19 in communal and social settings.
- Conditions that increase oxygen needs or reduce the ability of the body to use it properly will put patients at higher risk of serious lung conditions such as pneumonia.

d)Psychological balance:

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The outbreak of coronavirus disease COVID-19 may be stressful

- Fear and anxiety about a disease can be overwhelming and cause strong emotions in adults and children.
- Coping with stress will make you, the people you care about, and your community stronger.
- Take breaks from watching, reading, or listening to news stories, including social media. Hearing about the pandemic repeatedly can be upsetting.
- Much of the reporting around the coronavirus is poor quality and factually inaccurate, feeding feelings of mass hysteria and paranoia.
- Stay connected with people. Stay in touch with friends on social media but try not to sensationalize things. Fake news circulates like a wildfire. If you are sharing content, use this from trusted and credible sources, and remember that your friends might be worried too
- You can try reading books or watching movies, have an exercise routine, try new relaxation techniques, or find new knowledge about your interest on the internet.
- Embracing hobbies and areas of interest daily can relax the mind. Listen to songs and spend time practicing a musical instrument you always wanted to play.
- There are still plenty of activities you can engage with at home, including crafts, painting, cooking and baking.
- Take care of your body and your emotions . Be optimistic and positive.
- Take deep breaths, stretch, or meditate. Get plenty of sleep.
- Learn to absolve and control anger, which seriously affects immune function.
- Good relationships boost immunity, health and longevity.
- Those who are feeling anxious, isolated and disappointed, know this: you are not alone.
- Psychological balance can improve our immunity in fighting this COVID-19 pandemic.(5)

CONCLUSION:

for people

On 31 December, at the end of 2019, some cases of pneumonia of unknown etiology were notified to the World Health Organization (WHO) Country Office in China, regarding Wuhan, a city in the province of Hubei(6). This unknown agent, a few weeks later, was identified as part of the coronavirus family and named 2019 novel coronavirus. Since then, the epidemic of 2019 novel coronavirus (currently renamed SARS-CoV-2) and causing the disease Covid-19 has expanded from Wuhan throughout China and is being exported to a growing number of countries, with an increasing number of other cases with different rate of transmission (7.8). In the last few weeks, several scientific reports have been published on the epidemiology of the infection, the clinical course, laboratory testing and treating support. At the same time, the WHO and Center for Disease Control (CDC) and European center for Disease Control (eCDC) regularly updated case definition and all procedures and activities aimed to contain the spread (9-10). The coronavirus COVID-19 pandemic is the defining global health crisis of our time and the greatest challenge we have faced since World War Two. Since its emergence in Asia late last year, the virus has spread to every continent except Antarctica. Cases are rising daily in Africa the Americas, and Europe. Countries are racing to slow the spread of the virus by testing and treating patients, carrying out contact tracing, limiting travel, quarantining citizens, and cancelling large gatherings such as sporting events, concerts, and schools. The pandemic is moving like a wave-one that may yet crash on those least able to cope.(11).It's the responsibility of nurses who play vital role in the health care team to protect ourselves and the community around through compassiom, care, proper discretion in handling the crisis.

REFERENCES:

- https://www.undp.org/content/undp/en/home/coronavirus.html
- https://www.eed.org/coronavirus/en/). https://www.moh.gov.sa/en/Ministry/MediaCenter/News/Pages/News-2020-05-12-3) 003.aspx
- handle/10755/621629/Veenema) leadership. 4.h) 5)
- https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/ Pro-MED. PRO/AH/EDR. Undiagnosed pneumonia China (HU): Request For Information. Archive Number: 20191230.6864153. 30 Dec 2019. 23:59. Available at: https://promedmail.org/mond-post?id=6864153 https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd 6)
- 7) 40299423467b48e9ecf6.
- https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/ 8) 9)
- Cowling BJ, Leung GM. Epidemiological research priorities for public health control of the ongoing global novel coronavirus (2019-nCoV) outbreak. Euro Surveill 2020; 25. doi: 10.2807/1560-7917.ES.2020.25.6.2000110. 10)
- Wiens J, Shenoy ES, Machine learning for healthcare: on the verge of a major shift in healthcare epidemiology. Clin Infect Dis 2018; 66: 149-153. 11) undp.org.

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