

HEFFERNAN MEMORIAL



HEALTHCARE DISTRICT

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601 HEBER AVE.
CALEXICO, CALIFORNIA 92231

Executive District
Manager
Tomas Virgen

NOTICE OF REGULAR MEETING
ON
Wednesday, May 13, 2020

General Counsel
Eduardo Rivera

Board Clerk
Brenda Ryan

THE BOARD OF DIRECTORS OF HEFFERNAN MEMORIAL HEALTHCARE DISTRICT
WILL CONDUCT A
REGULAR MEETING

THE MEETING WILL BEGIN AT
5:30 P.M
A T
THE BOARD'S REGULAR MEETING PLACE
601 HEBER AVE.
CALEXICO, CA. 92231

AGENDA

1. CALL TO ORDER
2. ROLL CALL-DETERMINATION OF QUORUM
3. PLEDGE OF ALLEGIANCE
4. CONSIDER APPROVAL OF AGENDA:

In the case of an emergency, item may be added to the Agenda by a majority vote of the Board of Directors. An emergency is defined as a work stoppage, a crippling disaster, or other activity that severely imperils public health, safety, or both. Also, items that arise after the posting of the agenda may be added by a 2/3 vote of the Board. Items on the agenda may be taken out of sequential order as their priority is determined by the Board of Directors. The Board may take action on any item appearing on the agenda.

5. PUBLIC COMMENT TIME:

Public comment time on items not appearing on the agenda will be limited to 5 minutes per person and 15 minutes per subject. The Board may find it necessary to limit total time allowable for all public comment on items not appearing on the agenda at anyone meeting to one hour. Persons desiring longer public comment time and/or action on specific items shall contact the Secretary and request that the item be placed on the agenda for the next regular meeting.

6. REPORTS ON MEETING AND EVENTS ATTENDED BY DIRECTORS, AND AUTHORIZATION FOR DIRECTOR ATTENDANCE AT UPCOMING MEETINGS AND EVENTS/DIRECTORS COMMENTS:

- a. Brief reports by Directors on meetings and event attended. Schedule of upcoming Board meetings and events.

7. REPORTS BY ALL HMHD COMMITTEES

8. COMMENTS BY PROMOTION AND PUBLIC RELATIONS TONY PIMENTEL

9. COMMENTS BY EXECUTIVE DISTRICT MANAGER TOMAS VIRGEN

10. COMMENTS BY GENERAL COUNSEL EDUARDO RIVERA

11. DISCUSSION AND/OR ACTION ITEMS:

- a. Discussion and/or action: Ratification of Heffernan Memorial Healthcare District and Pioneer Memorial Healthcare 2 year agreement to provide pediatric care at the Calexico Healthcare Clinic.
- b. Discussion and/or action: Amendment of Area Agency on Aging recurring contract in the amount of \$8720.00 for the Calexico Senior resident meals.
- c. Discussion and/or action: Letter to LAFCO from Maritza Hurtado and response by Heffernan Memorial Healthcare District.
- d. Discussion: Acknowledgement of receipt from Dr. Vo's proposal for medical equipment-supplies. No action to take.

12. ITEMS FOR FUTURE AGENDAS:

This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

13. ADJOURNMENT:

- a. Regular Board meetings are held on the second and fourth Wednesday of each month.
- b. The next regular meeting of the Board will be held at 5:30 P.M., May 27, 2020.
- c. The agenda package and material related to an agenda item submitted after the packet's distribution to the Board are available for public review in the lobby of the District office during normal business hours

POSTING STATEMENT

A copy of the agenda was posted May, 10 2020 at 601 Heber Avenue, Calexico, California 92231 at 5:25 p.m. Pursuant to CA Government code 54957.5, disclosable public records and writings related to an agenda item distributed to all or a majority of the Board, including such records and written distributed less than 72 hours prior to this meeting are available for public inspection at the District Administrative Office, 601 Heber Avenue, Calexico, CA.

NOTICE In compliance with the Americans with Disabilities Act, any individuals requesting special accommodations to attend and/or participate in District Board meetings may contact the District at (760)357-6522. Notifications 48 hours prior to the meeting will enable the District to make reasonable accommodations.

PIONEERS/HEFFERNAN JOINT PEDIATRIC JOINT VENTURE
Revenue and Expenses Model

ACTUAL											
	October	November	December	January	February	March	April	Year-1 Total	Year 2 100%	Inflation	
DIRECT COSTS											
volume	131	210	152	279	218	142	-	1,132	4,200		
Average Net Revenue / visit	\$ 23,711	\$ 38,010	\$ 27,512	\$ 50,499	\$ 39,458	\$ 25,702	\$ -	\$ 204,892	\$ 760,200		number was estimated per Roger
Salaries											
Total Salaries	7,426	7,158	6,833	6,308	7,578	7,160	-	42,463	87,049	2.5%	
Benefits	2,099	2,023	1,931	1,783	2,142	2,023	-	12,000	24,600		
Supplies	879	1,409	1,020	1,872	1,463	953	-	7,596	28,887	2.5%	
Purchase Service	549	880	637	1,169	913	595	-	4,743	17,598		
Pro Fees	40,700	18,200	18,200	18,200	18,200	18,200	-	131,700	223,860		
R & M	141	227	164	301	235	153	-	1,223	4,536		
Other expenses	616	987	714	1,311	1,025	667	-	5,320	19,740		
Overhead Allocations (See Detail)	6,284	6,026	6,768	6,768	6,768	6,768	-	39,382	83,390		
Lease	3,075	3,075	3,075	3,075	3,075	3,075	-	18,450	36,900		
TOTAL EXPENSES	61,769	39,985	39,342	40,787	41,399	39,595	-	262,877	526,560		
NET INCOME	(38,058)	(1,975)	(11,830)	9,712	(1,941)	(13,893)	-	(57,985)	233,639	7.6	

Rosalina Blankenship
Public Guardian
Public Conservator
Area Agency on Aging Director



778 W. State St.
El Centro, CA 92243
Telephone: (442) 265-7000
Fax: (442) 265-7035

May 5, 2020

Rodolfo Valdez, Chair
Board of Directors
601 Heber Avenue
Calexico, CA 92231

Dear Chair and Board of Directors:

We respectfully submit this Letter of Intent to feed 39 seniors on the weekends in Calexico during the COVID-19 Pandemic, from March 28, 2020 to June 28, 2020.

1. Name of the applicant with contract person, phone, fax, address and email address

Imperial County Public Administrator/Area Agency on Aging
Rosalina Blankenship, Public Administrator/Area Agency on Aging Director
(442) 265-7003
(442) 265-7035 Fax
778 W. State Street
El Centro, CA 92243
Email: Rosalinablankenship@co.imperial.ca.us

2. Description of the healthcare need, problem, or opportunity to be addressed

The Area Agency on Aging (AAA) is seeking to continue Home Delivered Meals (HDM) on the weekends starting March 28 to June 2020, for the 39 seniors that the AAA started feeding for the period of July 1, 2018 through June 20, 2019 via a grant provided by the Heffernan Memorial Healthcare District.

3. Statement of specific program objectives and intended program outcomes

This proposal seeks to increase the frequency that 39 Calexico seniors are receiving home delivered meals from five days a week to seven days a week. These 39 seniors are not able to leave their homes because of the Governor's stay at home order issued on March 19, 2020.

The purpose of the program is to improve the quality of life through the provision of basic nutritional meals while increasing the seniors basic standard of living and alleviating the need for the participant to make a choice between paying bills, purchasing medication and/or buying food.

4. Overview of program approach including key assumptions underlying the program planning

The Imperial County senior population is extraordinarily poor. At 23.8%, (this probably higher right now due to the pandemic) the Imperial County unemployment rate has been one of the highest in the state over the past years. The Senior Population in Imperial County is 34,029. Nearly a quarter of the City's population (17.94%) is 60 years of age or older, qualifying them for our services. Poverty, isolation, lack of transportation lack of understanding, cost, fear and cultural/language barriers are the primary barriers to service seniors in Imperial County.

5. Explanation of the proposed program's consistency with the District's priorities, policies, goals and guidelines

Projected goals are to satisfy basic nutritional needs and opportunities for social contact of homebound seniors that are unable to leave their homes due to the COVID-19 pandemic. The intent is to reduce the incidence of malnourishment and social isolation, which is consistent with the Districts program priorities of providing nutrition and health education programs and senior health care services. The AAA Director/Public Administrator, AAA Department Fiscal Manager, and the AAA Advisory Council along with the policy direction confirmed by the Imperial County Board of Supervisors, through contracted services provided by Catholic Charities, carry out these efforts for as long as the stay at home order remains in place.

6. Description of the applicant's agency and explanation of the applicant's capacity to carry out the proposed program

The mission of the Imperial County Area Agency on Aging (AAA) is to provide leadership at the local level in developing systems of home and community-based services that maintain the least restrictive home-like environments. The role of the organization through the years has been to meet the health needs of senior residents in Imperial County. The AAA is well positioned and experienced to provide linguistically and competent outreach services to the target population. The AAA's contracted service provider, Catholic Charities, has been successfully preparing meals, providing nutrition education, and social activities to seniors participating in the AAA's Senior Nutrition Program over 31 years.

7. The funding amount requested from the District

The amount requested to feed the 39 seniors on the weekends from March to June is \$8,720. The funds would provide 910 meals from March 2020 through June 2020.

8. Summary of the proposed budget

For 39 seniors

Month	March	April	May	June	Totals:
Weekend Days Delivered	2	8	10	8	28
Meals/month	76	312	390	132	910
Total billed	\$608	\$2,496	\$3,120	\$2,496	\$8,720

We hope the foregoing has been of assistance to you to determine approval.

Respectfully,

IMPERIAL COUNTY PUBLIC ADMINISTRATOR/AREA AGENCY ON AGING



Rosalina Blankenship
Public Administrator/Guardian/Conservator
Area Agency on Aging Director

May 1, 2020

Honorable Heffernan Memorial Healthcare District

RE: Providing Widespread SARS-CoV-2 Test To All Residents of Calexico Across All Socioeconomic Status and Funding Personal Protective Equipment (PPE) for Healthcare Personnel

Dear Heffernan Memorial Healthcare District,

We hope this letter finds you well and we are hopeful the Heffernan Memorial Healthcare District will collaborate with Vo Neighborhood Medical Clinic, a 501-(c) (3) non-profit organization, to combat the COVID-19 pandemic, which has resulted in a severe health crisis to include death to the most vulnerable populations in Calexico and across the Imperial County line. As a non-profit organization dedicated to providing health and improving lives, we recognize that we have a special responsibility to help. Our organization remains focused on community outreach during this COVID-19 pandemic and are providing essential healthcare services as well as diagnostic SARS-CoV-2 RT-PCR molecular assay (with FDA-Emergency Use Authorization) and high-quality SARS-CoV-2 serology antibodies testing to residents of Calexico as well as residents across the Imperial County.

With the current challenges of containment and the limitation of testing in Imperial County, we see COVID-19 pandemic silently persisting, infecting, killing, and draining resources. Vo Neighborhood Medical Clinic, in collaboration with Vo Medical Center and Imperial County Public Health officials, share common core values; that is to keep the death rates in the Imperial County low and to get COVID-19 testing on a larger scale so people can go back to work safely. This in turn will help our local economy get back on its feet.

Testing, clinical laboratory, and early intervention play an essential role in combating COVID-19. Vo Neighborhood Medical Clinic working in conjunction with Vo Medical Center, are at the front line of combating this corona virus. We are the first organization besides the two-local city-owned hospitals in the county to offer COVID-19 test to the residents of Calexico and the Imperial County. Since Monday, March 23rd to date, our center is accounted for more than half of the diagnostic RT-PCR tests performed in the Imperial County. We have a proven track record of testing more residents than any other entities combined. We see a demand for more testing and a rise in the number of cases in Calexico and across the

county in the recent weeks. The growing number of cases in part reflects the rapid infection rate and spread of COVID-19.

The push for MORE testing would assist local health officials to better understand and track the size and scope of the outbreak and strengthen prevention and response efforts. Moreover, higher volumes of diagnostic RT-PCR and high-quality serology antibodies testing are critical as Calexico and other cities are working to re-open businesses big and more, and students will soon return to school.

With the latest installment of two Beckman Coulter and two Cepheid machines at our facility in Calexico, we are able to run COVID19 testing in-house on a larger scale with 1 to 2 hours turn-around results. These new lab equipment allow us to scale up not only diagnostic SARS-CoV-2 RT-PCR molecular assay test but also High-Quality SARS-CoV-2 Antibody Test. This scale up in testing and quick turn-around result will play a key role in helping residents of Imperial County return to work and school safely.

The benefits of high-quality serology testing for SARS-CoV-2:

1. Help reduce pressure on healthcare resources by identifying individuals who have potentially developed an immune response to SARS-CoV-2, so critical patients and patients at risk can get the care they need
2. Mitigate shortage in the workforce by allowing those who have developed an immune response to safely return to work
help free healthcare system capacity for those who need most assistance by identifying patients who have developed an immune response.
3. Determine how much of the population has been exposed to help navigate the possibility of rolling reopening, need for vaccination and future disease management

The caveat is that the serology test used must be a high-quality test with the highest sensitivity and specificity, tested in a broad-based population. With that said, we are asking for assistance in FUNDING for chemical reagents and cartridges to run COVID-19 samples in our laboratory. This will allow faster turnaround time in the matter of 1-2 hours instead of 2-3 days. It will also allow us to provide free COVID19 testing to residents of Calexico who do not have insurance and do not have the means to pay for the test.

As COVID-19 pandemic continues to ripple across our country, it has also decimated our healthcare workers. More and more healthcare workers are getting sick by the day due to the lack of Personal Protective Equipment (PPE). Our organization is in dire need of funding to purchase PPE to protect our healthcare personnel who bravely work on the front lines. Funding for PPE such as gloves, medical masks, respirators, goggles, face shields, gowns, and aprons remain high. Given the infectiousness

and mode transmission of this virus, our organization's PPE reserve is depleting quickly. Inadequate supplies of PPE would leave our doctors, nurses and frontline workers dangerously ill-equipped to care for COVID-19 patients and residents of the Imperial County.

With the support of Heffernan Memorial Healthcare District, this will allow our organizations to carry on our mission to test, identify, contain and slow the spread of COVID-19. Looking into the near future, it is crucial, with the help of Heffernan Memorial Healthcare District, to safely bring the local workforce back to work all while keeping the rate of transmission low.

Organizational History

Vo Neighborhood Medical Clinic, established in November of 2017, is a tax exempt per IRS 501-(c) (3), is serving the wellness and healthcare needs of the people in the city of Calexico as well as residents of Imperial County. Our physical medical clinic and urgent care is located in Calexico at 222 E. Cole Rd. Calexico, CA 92231 and is serving the population of over 40,000 residents there.

As a non-profit organization dedicated to providing health and improving lives, we recognize that we have a special responsibility to help. Vo Neighborhood Medical Clinic, along with our strategic alliance with Vo Medical Center, our goals are to keep our communities healthy and safe in response to the COVID-19 pandemic. We are strongly committed to the health and well-being of our residents in Imperial Valley.

Our team of clinicians and healthcare workforce have been and are currently testing and treating COVID-19 patients. Testing started in the city of Calexico, and is now happening in the following cities El Centro, and Brawley. Our commitment to our community during the COVID-19 crisis focused on responding to the pandemic all while supporting our health care providers and the communities in which we serve.

Here are some examples of how we are helping our communities over the years:

- Doing community outreach on topics such as Diabetes, Obesity, Heart Disease related to Obesity, Asthma prevention program, and recently COVID-19 related health issues
- Providing free health screening to low-income families and the under-insured and uninsured
- Providing free health and sport physicals to children across many schools in the county
- Supporting local relief efforts
- Feeding the homeless of Imperial County
- Team up city mayors to bring COVID-19 testing to more cities in the Imperial County

- Providing fabric masks to more than 2,000 essential workers and seniors during the COVID-19 pandemic

Scope of Work

Since the outbreak of COVID-19, our regions have seen the demand for COVID-19 testing. Vo Neighborhood Medical Clinic, in collaboration with VO MEDICAL CENTER, have been providing Real-Time Reverse Transcriptase (RT)-PCR Diagnostic Test, use in testing patient specimens for severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19.

Why testing is so critical to controlling the Covid-19 pandemic:

SARS-CoV-2, the virus that causes Covid-19. It can spread directly and easily between people in close contact. Yet the symptoms of Covid-19 can be confusing, varying person to person, making it tricky to identify suspected cases. Meanwhile, asymptomatic carriers up to half of the total number infected can spread the virus unwittingly for weeks, triggering outbreaks in their wake.

The virus can also turn dangerous and deadly in some people, particularly high-risk populations. But it can also be dangerous in a small percentage of otherwise healthy people.

While most can fight off the infection on their own, an epidemic like the one the US is facing with hundreds of thousands of infected people means tens of thousands will need to be hospitalized. Those patients in urgent or critical care can then spread the virus to health workers a particular problem because of the shortage of personal protective gear who end up sidelined and further strain the capacity of the health system to care for the sick. And since it's a new virus, there is no cure, vaccine, or widespread immunity to SARS-CoV-2.

We are fortunate that our existing laboratory has 2 FDA approved CEPHEID machines and collection test kits for diagnostic COVID-19 very early on. These machines were purchased in August of 2019 to run RT-PCR streptococcus and influenza samples. On Sunday March 22nd, the Food and Drug Administration (FDA) issued an Emergency Use Approval for these machines to run COVID-19 testing. We collaborated with the local county officials and the Imperial County Public Health Department, and have started testing on Monday, March 23rd.

Vo Neighborhood Medical Clinic along with Vo Medical Center Group, is currently the only entity in Imperial County, beside the two local hospitals, to provide Diagnostic tests. We have a proven track record of testing more residents than any other entities combined.

VO Neighborhood Medical Clinic along with VO Medical Center Group is pleased to report since we started testing on Monday March 23, 2020 till today as of writing this proposal, we have successfully tested over 1,000 patients in Imperial County and are currently treating over 100 patients who are currently infected with the disease.

We are also excited to announce the latest installment of two new Beckman Coulter laboratory equipment at our facility in Calexico. With this new equipment, we are able to run COVID19 testing in-house on a larger scale with 1 to 2 hours turn-around results. Moreover, we are able to scale up not only diagnostic SARS-CoV-2 RT-PCR molecular assay test but also High-Quality SARS-CoV-2 Antibody Test. This scale up in testing and quick turn-around result will play a key role in helping residents of Imperial County return to work and school safely.

The benefits of high-quality serology testing for SARS-CoV-2:

1. Help reduce pressure on healthcare resources by identifying individuals who have potentially developed an immune response to SARS-CoV-2, so critical patients and patients at risk can get the care they need
2. Mitigate shortage in the workforce by allowing those who have developed an immune response to safely return to work

help free healthcare system capacity for those who need most assistance by identifying patients who have developed an immune response.

3. Determine how much of the population has been exposed to help navigate the possibility of rolling reopening, need for vaccination and future disease management

Impact and Target Population

Testing would allow the county health officials to better respond to the pandemic. Low cost and wide spread testing will also allow easy access to testing for the uninsured and the underinsured, particularly the agriculture populations, farm workers, beef plant workers as most either do not have insurance or have insurances that only works in Mexico like SIMSA.

All residents of Imperial County would benefit from wide testing. Moreover, low cost allows many of the minimum workers, agriculture population, were already at an economic disadvantage—generally earning lower wages and carrying less health-related insurance, to have access to testing

We, at VO MEDICAL CENTER, have been sharing and updating the general public on the number of testing and confirmed Diagnostic PR-PCR COVID-19 cases at VO MEDICAL CENTER. Diagnostic RT-PCR COVID-19 test (with FDA-Emergency Use Authorization) results are being reported to the Public

Health Department's Epidemiology for all COVID-19 RT-PCR diagnostic test results. Once the RT-PCR test result and report is submitted to the department, an Epidemiologists at the County Public Health Department will follow their investigation protocol and issue an isolation order and direction to the patient.

Organization Need

Despite major advances in the prevention and treatment of infectious diseases in general, there are currently no licensed vaccines, proven effective antiviral therapies, or proven post exposure prophylaxis strategies for COVID-19. In order to do this, we need:

- We are asking for assistant with funding for chemical reagents and cartridges used with our FDA approved machines to run COVID-19 test

We hope to aggressively mitigate the spread and do more diagnostic RT-PCR and high-quality serology antibody testing with quick turnaround time. Currently, all samples collected are being sent out to commercial labs, QUEST and LABCORP for analysis. Turnaround time takes 2-4 days.

With the latest installment of 2 Beckman Coulter and 2 Cepheid machines at our facility in Calexico, we are excited to be able to run COVID19 testing in-house on a larger scale with 1 to 2 hours turn-around results. In the week to come, we would be able to scale up not only diagnostic SARS-CoV-2 RT-PCR molecular assay test but also High-Quality SARS-CoV-2 Antibody Test. This scale up in testing and quick turn-around result will play a key role in helping residents of Imperial County return to work and school quickly and safely.

The benefits of high-quality serology testing for SARS-CoV-2:

1. Help reduce pressure on healthcare resources by identifying individuals who have potentially developed an immune response to SARS-CoV-2, so critical patients and patients at risk can get the care they need
2. Mitigate shortage in the workforce by allowing those who have developed an immune response to safely return to work
help free healthcare system capacity for those who need most assistance by identifying patients who have developed an immune response.
3. Determine how much of the population has been exposed to help navigate the possibility of rolling reopening, need for vaccination and future disease management

The caveat is that the serology test used must be a high-quality test with the highest sensitivity and specificity, tested in a broad-based population.

The U.S. Food and Drug Administration has also states there are multiple use cases for serological tests:

- 1.They could help decide whether people who are found to be immune can return to work
- 2.They could determine the people who may qualify for a vaccination once it is available
- 3.They could identify people who have recovered to see if they can donate plasma that may be used as a treatment for people with severe forms of the disease caused by the novel coronavirus

Therefore, we are seeking funding to purchase chemical reagent and cartridges to run COVID-19 testing in-house. And to be able to offer it FREE to the residents of Calexico, with The Hefernan Memorial Health Care District Help. Again, more readily available to all residents and turnaround time will be available in the matter of hours instead of days.

- We are asking for assistant funding for Personal Protective Equipment (PPE) for our healthcare personnel

Need for Personal protective equipment (PPE) plays a critical role in mitigating the risk of health care personnel (HCP) exposure to contaminated body fluids in the testing and care of patients with communicable infectious diseases, including COVID-19. The importance of PPE was recognized during the outbreak of severe acute respiratory syndrome (SARS), in which Health Care Workers accounted for ~20% of persons who were infected with SARS.

Patients infected with COVID-19 often present with nonspecific symptoms that frequently mirror common cold, but far more deadly. For this reason it is imperative that Health Care Personnel (HCP) implement the use of standard precautions consistently when providing care to all patients. The strict adherence to standard precautions before the identification of a COVID-19 infected patient is paramount to preventing nosocomial transmission to HCP. And because of the non-specific symptoms and the adherence to standard precautions, we are going through and depleting out PPE supplies quickly.

Key elements of standard precautions include the following: (1) risk assessment for appropriate PPE. (2) Proper waste management, and (3) environmental cleaning and disinfection of patient care equipment and environmental surfaces.

Healthcare workers rely on personal protective equipment to protect themselves and their patients from being infected and infecting others. But shortages are leaving doctors, nurses and other frontline workers dangerously ill-equipped to care for COVID-19 patients, due to limited access to supplies such as gloves, medical masks, respirators, goggles, face shields, gowns, and aprons.

PPE is one step in a comprehensive infection prevention and control strategy that is required to protect health care providers. Equipment and PPE are not medical-reimburse eligible. We would need proper gear to triage patients and test and treat COVID-19 patients. We would ask for PAPR suits, surgical masks, N95 masks, disinfectant supplies and surgical masks providing to sick patients, suspected cases or positive cases.

Personal Protective Equipment

Despite the lethal nature of this virus and the potential ease of transmission, infection can be prevented. Although the most effective interventions to protect HCP are those that physically separate HCP from infectious patients and body fluids, mortality rates of COVID19-infected patients can be decreased with more aggressive care that requires close contact with these patients. In this setting, PPE serves as the last physical barrier between a health care provider and infectious body fluids. In prior outbreaks, infection of HCP was substantially reduced with the institution of barrier precaution.

Mucous Membrane Protection, PAPR and Head Cover

Although there is no consensus on each of the specific components of PPE among the major organizations providing care to infected patients in the field, all agree that it should uniformly protect the major portals of virus entry, including mucous membranes and breaks in the skin. Centers for Disease Control and Prevention (CDC) guidelines, which are directed toward the use of PPE, recommend mucous membrane coverage with either an N-95 particulate respiratory or a powered air-purifying respirator (PAPR) that incorporates a full-face shield, helmet, or headpiece- If an N-95 respiratory is used, it must be accompanied by a single-use surgical hood that extends to the shoulders and a full-face shield. Similarly, if a PAPR is used with a helmet or headpiece, it also must be used in combination with a disposable hood that extends to the shoulders and fully covers the neck.

The WHO recommendations, which pertain to care of COVID-19-infected patients regardless of location, include the use of a face shield or goggles to protect conjunctival membranes and either a fluid-resistant

medical/surgical mask that does not collapse against the mouth (eg, duckbill or cup shape) or a fluid-resistant particulate respiratory if aerosol-generating procedures will be performed. In both cases, the WHO offers a conditional recommendation that health care providers also wear a separate head cover that protects the head and neck. This recommendation is conditional because there is no evidence to support the use of a head cover or hair cap for preventing infection.

Face Masks

Alternatives to N95s should be considered, including powered air-purifying respirators (PAPRs), other classes of disposable FFRs, elastomeric half-mask, and full face piece air-purifying respirators where feasible

Gloves

Both the CDC and the WHO recommend the use of 2 pairs of gloves with at least the outer pair having an extended cuff that reaches beyond the wrist.^{34, 35} The inner pair of gloves rests against the HCP's skin and underneath the gown/coverall (described in the Body and Skin Protection section), whereas the outer pair is worn on top of the gown/coverall to effectively protect the wrist from contamination. This also allows the outer glove to be changed between patients to mitigate risks of nosocomial transmission between patients.

Body and Skin Protection

Given the high risk of transmission through direct patient contact, the CDC and the WHO recommend the use a single-use fluid-resistant gown or coverall to prevent contamination. Although it is not known if COVID-19 can penetrate intact skin, the presence of virus on skin or clothing could be a source of self-inoculation. The use of a waterproof or impermeable apron worn over the gown/coverall is recommended to provide further protection against infectious body fluids. Both the CDC and the WHO recommend using a disposable apron if feasible because a reusable one will require decontamination after each use.

Foot Protection

Given the high degree of environmental contamination, supported by new data published by CDC, COVID19 can remain on surfaces and floor for days. Due to this new findings, HCP are advised to wear

waterproof boots or shoe covers if used with a coverall that has integrated socks. In addition to being easier to decontaminate, waterproof boots offer some protection against sharps injuries.

COST

PPE (cost is not medical eligible for re-imburement). Asking \$28,000.

Break down of PPE costs as follow:

N95 masks at \$6x2,000= \$12,000

Surgical masks \$1x2,000= \$2,000

PAPR suits \$1,400x4 = \$7,000

Gloves \$20x200cases= \$2,000

Gowns \$3x1000= \$3,000

Shoes covers\$1 x1000= \$1,000

Sanitization/cleaning solutions= \$1,000

Laboratory chemical reagent to run high-quality serology antibody IgG and IgM. Asking \$48,000.

Cartridges to run diagnostic RT-PCR (with FDA Emergency Use Approval). Asking \$120,000.

Cost breakdown \$30 per cartridge x 4,000 residents= \$120,000

Labor cost to carry out testing (cost is not medical eligible for re-imburement). Asking \$35,000.