Using African alternative medicine to curb Covid-19: A case study of SAAAB, SAABFAT6, and SAABMAL HERBAL SUPPLEMENTS.

1Abue, Andrew Donatus, 2Amodu, Benjamin, 3Akukwu, Darlington CA
1Department of Anatomical Sciences, Faculty of Basic Medical Sciences, College of Health Sciences, University of Abuja, PMB 117, Abuja,Nigeria.
2Lead Phytochemical Researcher, African Alternative Medicine Hospital, Abuja,Nigeria
3College of Medicine and Health Sciences, Imo State University, Owerri, Imo State.

Abstract
SAAAB, SAABFAT6 and SAABMAL Herbal supplements have been used in the treatment of Cancers of different shades and classifications, Asthma,Hepatitis B and C,HIV and AIDS,as well as Malaria with improved clinical features and good laboratory results. The constituent of these herbal supplements includes Lemon leaf, Zobo Leaf, Bitter Leaf, Garlic Bulb, Sesame seeds, Aloe Vera, Millet, Soyabean and Amaranthus Caudatus. The aim of the research includes, to promote the use of African polyherbal formulations in the treatment of infectious diseases like Hepatitis B, HIV & AIDS and Covid-19 via inhibition of viral growth and replication; to promote the use of African polyherbal formulations in the treatment of Cancers; to promote the use of African polyherbal formulations in the treatment of Malaria. The objectives include, to recommend the use of SAAAB, SAABFAT6 and SAABMAL in the treatment of Covid-19; to determine the use of SAAAB in the treatment of Hepatitis B and probably Covid-19; to determine the use of SAAAB in the treatment of HIV and AIDS and probably Covid-19; to determine the use of SAABFAT6 in the treatment of Ca Prostate and probably Covid-19; to determine the use of SAABMAL in the treatment of Malaria and probably Covid-19; to give an overview of SAABVID-19 and its Prophylactic and Curative properties in the cure covid-19. The Covid-19 virus is a structural protein that sticks to heme and displaces oxygen, free iron ion is released into circulation, this stimulates inflammatory responses by the alveolar Macrophages. The released iron is converted into Porphyrin, creating more Porphyrin in circulation. The Covid-19 virus can dissociate Oxy - Carboxyl- and glycosylated Haemoglobins. Clinical trials were carried on with SAAAB, SAABFAT6, SAABMAL for patients diagnosed of 1. Hepatitis B and HIV AIDS 2. CaProstate, and 3. Malaria Fever. SAAAB was used for Hepatitis B and HIV and AIDS, SAABFAT 6 for CaProstate, while SAABMAL was used for Malaria. Ten (10) patients diagnosed of each disease were used with laboratory results confirming, at the African Alternative Medicine Hospital, Abuja, Nigeria. The patients were chosen using the simple random sampling technique using the lottery method. A double-blinded technique was used to administer the drugs. The result of the clinical trial using SAAAB, SAABFAT6 & SAABMAL shows the antiviral, anti-carcinogenic, anti-Malaria and prophylactic properties. There is abundant empirical evidences on the efficacy of the usage of these herbal remedies on their respective ailments as shown by patients in Group Y who showed progress in their clinical features as well as laboratory results. The X group that were on placebo conditions worsen progressively in both the clinical features and Laboratory results.

The World Health Organization is fully aware of the importance of herbal medicines to many of its Member States and supports the use of medicinal plants and their products (https://apps.who.int/medicinedocs/en/d/Jh2945e/2.2.html). SAAAB, SAABFAT6 and SAABMAL HERBAL SUPPLEMENTS have antiviral, anti-inflammatory, anti-allergy, immune-boosting, anti-oxidant, sedative properties, as well as good nervous and antiseptic properties which are needed to eliminate the corona virus. 

Keywords: Covid-19, SAAAB, SAABFAT6 and SAABMAL HERBAL SUPPLEMENTS

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I. Introduction
SAAAB, SAABFAT6 and SAABMAL Herbal supplements have been used in the treatment of Cancers of different shades and classifications, Asthma, Hepatitis B and C, HIV and AIDS, as well as Malaria with improved clinical features and good laboratory results at the African Alternative Medicine Hospital, Abuja, Nigeria. The constituent of these herbal supplements includes Lemon leaf, Zobo Leaf, Bitter Leaf, Garlic Bulb, Sesame seeds, Aloe Vera, Millet, Soyabean and Amaranthus Caudatus.

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Covid-19 symptoms

Covid-19 in Nigeria
Nigeria is the largest native Sub-saharan nation in the world with over 200 million people. The incidence rate is rising daily as a result of provision of testing kits with Lagos and Abuja the Epicentres for now. The Federal Government had just imposed travel ban on 13 countries with high incidence rate including the United Kingdom and the United States of America. Massive awareness campaign is on in both the print and electronic media as well as the social media. The erroneous belief that it doesn’t affect the Sub-Saharan Africans because of our tropical weather is gradually fading away as over four state governors in Nigeria have openly declared their status. Good hygiene practice is been advocated at homes and public places. Large gatherings have also been discouraged. Over 24 states have declared restriction of movements and partial curfew. The major challenge here is implementation of the lockdown as well as incentives to keep citizens at home for the stipulated period. Nigerians love socialization hope the lockdown won’t create more psychological problems. Taking of SAAB VID-19, SAAAB, SAABFAT6 & SAABMAL HERBAL SUPPLEMENTS at this point in time is the best as they also contain sedative and laxative properties outside performing their main function of containing the virus. At this period there is anxiety and fear in the air as well as misinformation.

OBJECTIVE OF THE RESEARCH
2. To promote the use of African polyherbal formulations in the treatment of Cancers.
3. To promote the use of African polyherbal formulations in the treatment of Malaria.

MODE OF TRANSMISSION Of Covid-19
Human to human transmission of corona viruses is primarily thought to occur among close contacts via respiratory droplets generated by sneezing and coughing. The interaction of the corona virus spike protein with its complement host cell receptor is central in determining the tissue tropism, infectivity, and species range of the virus. The SARS coronavirus, for example, infects human cells by attaching to the angiotensin-converting enzyme 2 (ACE2) receptor (Byeon et al. 1988; Simmon et al. 2013; www.cdc.gov. 2020). Seven strains of human coronaviruses are known:

1. Human coronavirus 229E (HCoV-229E)
2. Human coronavirus OC43 (HCoV-OC43)
3. Severe acute respiratory syndrome coronavirus (SARS-CoV)
4. Human coronavirus NL63 (HCoV-NL63, New Haven coronavirus)
5. Human coronavirus HKU1
6. Middle East respiratory syndrome-related coronavirus (MERS-CoV), previously known as novel coronavirus 2012 and HCoV-EMC
7. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), previously known as 2019-nCoV or "novel coronavirus 2019"


PATHOPHYSIOLOGY OF COVID-19 INFECTION IN THE LUNGS

The Covid-19 virus is a structural protein that sticks to heme and displaces oxygen, free iron ion is released into circulation, this stimulates inflammatory responses by the alveolar Macrophages. The released iron is converted into Porphyrin, creating more Porphyrin in circulation. The Covid-19 virus can dissociate Oxygen, Carboxyl- and glycylated Haemoglobins. The Lung inflammation results from the inability of both oxygen and CO2 exchange making the lungs to have a ground glass opacitity appearance on X-ray. CT-scan will show bilateral lung changes because of the inflammatory responses as well as the oxidative free iron released from the haemolysed red cells, this overwhelm the natural defenses against pulmonary oxidative stress with a resultant, Cytokine storm.

The consequences of this is that the non-binding of the free iron-ion to haemoglobin leads to an unavailability of oxygen to the tissues and cells including the brain, Heart, Liver, Lungs, Kidneys, etc. and multiple – organ failure. The free iron-ion radicals causes oxidative damage in the lungs which ordinarily are mopped up by the alveolar macrophages because there are overwhelmed it further worsen the organ failure. The epithelial lining of the lungs alveolar contains ascorbic acid which is a very good anti-oxidant but is destroyed in the course of the rapid oxidative reactions.

HISTOLOGY OF THE BLOOD

Red blood cells (abbreviated RBCs, also called erythrocytes from erythro- red + cyto- cell) are continually produced in bone marrow and recycled in spleen. In mature form they lack nuclei and most cytoplasmic structures; they are little more than discoid, flexible bags of hemoglobin (Ponder E, Yeager JF, and Charipper HA 1928) Studies in Comparative Haematology: I. Camelidae. Quarterly Journal of Experimental Physiology 19:2 pp 115-126. Erythrocytes comprise the sedimented material and their volume, normally about 44% of the total blood volume in healthy adults, is called the hematocrit. Blood is a distributing vehicle, transporting O2, CO2, metabolites, hormones, and other substances to cells throughout the body. Most O2 is bound to hemoglobin in erythrocytes and is much more abundant in arterial than venous blood, while CO2 is carried in solution as CO2 or HCO3−, in addition to being hemoglobin-bound. Nutrients are distributed from their sites of synthesis or absorption in the gut, while metabolic residues are collected from cells throughout the body and removed from the blood by the excretory organs. Hormone distribution in blood permits the exchange of chemical messages between distant organs regulating normal organ function. Blood is a specialized connective tissue consisting of cells and fluid extracellular material calledplasma. Propelled mainly by rhythmic contractions of the heart, about 5 L of blood in an average adult moves unidirectionally within the closed circulatory system. The so-called formed elements circulating in the plasma are erythrocytes (red blood cells), leukocytes (white blood cells), and platelets.

Granulocytes, also called polymorphonuclear leukocytes, have grainy cytoplasm and elongated or lobed nuclei. They arise in bone marrow from cells called myeloblasts and pass through stages called myelocytes and metamyelocytes. The granulocytes include neutrophils, eosinophils, and basophils.

PHARMACODYNAMICS & PHARMACOKINETICS OF SAAAB, SAABFAT6 & SAABMAL HERBAL SUPPLEMENTS

These Herbal supplements are taken orally via powder or capsule absorption rate, metabolism and excretion is very good. These provide raised immunity via the stimulation of humoral and cell mediated immunity there raising the CD4 and CD8 counts. The presence of zinc reduce the duplication of the Corona virus in the host cells, it also enhances leucocytes production, thereby boosting the immune system. These supplements have, antiviral properties, antibacterial properties and anti-oxidant properties as well as antiseptic and anti-inflammatory properties thereby reducing the viral load of the Coronavirus.

II. Research Materials And Method

Clinical trials were carried on with SAAAB, SAABFAT6, SAABMAL for patients diagnosed of 1. Hepatitis B and HIV AIDS, 2. CaProstate and 3. Malaria Fever. SAAAB was used for Hepatitis B and HIV and AIDS, SAABFAT 6 for CaProstate, while SAABMAL was used for Malaria. Ten (10) patients diagnosed of each disease were used with laboratory results confirming, at the African Alternative Medicine Hospital, Abuja, Nigeria. The patients were chosen using the simple random sampling technique using the lottery method.

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double-blinded technique was used to administer the drugs. The Patients were grouped into Two(2). Five patients per group name X and Y all presenting with symptoms of and Laboratory confirmation of the 3 ailments under investigation. The Age bracket for this research was 20 to 55. The research was carried out from the 24th April, 2017 to 22nd May, 2017.

Groups X was placed on the Placebos while Groups Y was placed on SAAAB, SAABFAT6 and SAABMAL therapies with both placebo and the herbal remedies looking alike.

The research lasted for a week for SAABMAL, and 30 Days for SAAAB and SAABFAT6 with 3 appointments of Ten days each(10) to review symptoms and Laboratory result looking at the Hepatitis B markers.

III. Result

FIRST APPOINTMENT (DAY 10)

Group X Patients:
Malaria parasite load was still very high with three pluses
Increased in the Hepatitis B markers by 10% of the basal viral load of the patients.
CD4 & CD8 counts decreased by 6% of the basal load of the patients.
Ca Prostate Markers increased by 10% of the basal load of the patient.

Group Y Patients:
Malaria parasite load had disappeared, clinical features also disappeared.
15% Decreased in the Hepatitis B markers.
CD4 and CD8 counts increased 19%.
Ca Prostate Markers reduced by 25%.

SECOND APPOINTMENT (DAY 20)

Group X Patients:
Increase in the Hepatitis B markers by 35%.
CD4 & CD8 counts decreased by 10%.
Ca Prostate Markers increased by 30%.

Group Y Patients:
Decrease by 80% of the Hepatitis B Markers.
CD4 and CD8 counts increased by 40%.
Ca Prostate cancer markers decreased by 55%.

THIRD APPOINTMENT

Group X Patients:
Hepatitis B Markers increased by 60%.
CD4 & CD8 counts decreased by 35%.
Ca Prostate Markers increased by 100% with marked clinical features.

GROUP Y Patient:
Hepatitis B markers decreased by 95%.
CD4 & CD8 counts increased by 65%.
Ca Prostate Cancer markers decreased by 75%.

DOSAGES:
SAAAB (500mg caps.) two capsules twice daily for 30 days.
SAABFAT6 (500mg caps.) two caps. Twice daily for 30 days.
SABMAL (500mg caps.) four caps. Stat. then two caps twice daily for 3 days.

IV. Discussions

A.SAAAB (500mg capsule) is a polyhedral herbal formulation produced by the Halamin herbal centre, its components includes sesame seeds, bitterleaf, Garlic, Aloe vera, sugar cane and Love-lie bleeding.

Bitter leaf: The biological active compounds of bitter leaf (Vernonia amygdalina) are saponins, flavonoids, alkaloids, terpenes, coumarins, phenolic acid, lignans, xanthones and anthraquinone, edotides. These have properties that retard, inhibit or reverse diseases that are caused by oxidative and inflammatory processes. Diseases like Hepatitis B and Covid -19 causes inflammatory and oxidative processes. The chemopreventive properties of bitter leaf have been attributed to their abilities to scavenge free radicals, induce detoxification, inhibit stress response protein and interfere with DNA binding activities of some transcription factors. Bitter leaf also helps to cleanse such vital organs of the body like the liver and the kidney. Bitter leaf is also used in the treatment of skin infections such as ringworm, rashes and eczema. However, bitter leaf and other vegetables contain both essential and toxic metals over a wide range of concentrations (Ogbonda et al. 2013)
Garlic
Garlic Bulb: The herb plant belongs to the family of Alliaceae, in the genus, Allium; and scientifically known as Allium sativum. It is believed to be originating in the mountainous Central Asian region, from where it spread all over the temperate and subtropical regions the world.

- Allicin and other essential volatile compounds also found to have antibacterial, antiviral, and anti-fungal activities.
- Garlic is an excellent source of minerals and vitamins that are essential for optimum health. The bulbs are one of the richest sources of potassium, iron, calcium, magnesium, manganese, zinc, and selenium. Selenium is a heart-healthy mineral and is an essential cofactor for antioxidant enzymes within the body. The human body uses manganese as a co-factor for the antioxidant enzyme, superoxide dismutase. Iron is essential for red blood cell formation.
- It contains many flavonoid antioxidants like β - carotene, zeaxanthin, and vitamins like vitamin-C. Vitamin-C helps the body develop resistance against infectious agents and scavenge harmful, pro-inflammatory free radicals.

Garlic cloves have amazingly high levels of vitamins and minerals. Just 100 g provides (in % of recommended daily allowance):
- 95% of vitamin B-6 (pyridoxine), 52% of vitamin C, 33% of copper, 21% of iron, 18% of calcium, 26% Selenium, and 73% of manganese.

Aloe vera - Aloe vera contains 75 potentially active constituents: vitamins, enzymes, minerals, sugars, lignin, saponins, salicylic acids and amino acids:

i. Vitamins: It contains vitamins A (beta-carotene), C and E, which are antioxidants. It also contains vitamin B12, folic acid, and choline. Antioxidant neutralizes free radicals.

ii. Enzymes: It contains 8 enzymes: alilase, alkaline phosphatase, amylase, bradykinase, carboxypeptidase, catalase, celluce, lipase, and peroxidase. Bradykinase helps to reduce excessive inflammation when applied to the skin topically, while others help in the breakdown of sugars and fats.

iii. Minerals: It provides calcium, chromium, copper, selenium, magnesium, manganese, potassium, sodium and zinc. They are essential for the proper functioning of various enzyme systems in different metabolic pathways and few are antioxidants.

iv. Sugars: It provides monosaccharides (glucose and fructose) and polysaccharides: (glucomannans/polymanose). These are derived from the mucilage layer of the plant and are known as mucopolysaccharides. The most prominent monosaccharide is mannose-6-phosphate, and the most common polysaccharide are called glucomannans [beta-(1,4)-acetylated mannan].

v. Anthraquinones: It provides 12 anthraquinones, which are phenolic compounds traditionally known as laxatives. Aloin and emodin act as analogesics, antibacterials and antivirals.

vi. Fatty acids: It provides 4 plant steroids; cholesterol, campesterol, β-sisosterol and lupeol. All these have anti-inflammatory action and lupeol also possesses antiseptic and analgesic properties (Chithra et al. 1998; Roberts & Travis 1995; Sato et al, 1990).

vii. Hormones: Auxins and gibberellins that help in wound healing and have anti-inflammatory action.

viii. Others: It provides 20 of the 22 human required amino acids and 7 of the 8 essential amino acids. It also contains salicylic acid that possesses anti-inflammatory and antibacterial properties. Lignin, an inert substance, when included in topical preparations, enhances penetrative effect of the other ingredients into the skin. Saponins that are the soapy substances form about 3% of the gel and have cleansing and antiseptic properties.

B.SAAABFAT6 (500mg capsule)- This is a polyhedral formulation produced at the Halamin Herbal Centre, Abuja, Nigeria. It also contains Love-lies bleeding, bitterleaf, Aloe vera, sugarcane, garlic bulb like SAAAB but additionally it contains lemon leaf and sesame seed.

Lemon Leaf: Based on our findings, the main constituents of the lemon leaf essential oil were linalool (30.62%), geraniol (15.91%), α-terpineol (14.52%), and linalyl acetate (13.76%). The following major components were geranyle acetate (6.75%), neryl acetate (4.24%), β-pinene (4.51%), and cis-ocimene (2.93%). They have sedative and antispasmodic properties.

Sesame seeds: They are an excellent source of copper, a very good source of manganese, and a good source of calcium, phosphorus, magnesium, iron, zinc, molybdenum, vitamin B1, selenium and dietary fiber. SAABFAT 6 is used for the treatment of cancer of different shades and classification as demonstrated by its clinical trial on the Caprostate. It has been used successfully to treat Ca Prostate with empirical evidence as also observed in our double-blind preliminary clinical trials.

C.SAABMAL(500mg)-SAABMAL is a phytochemical product produced at the Halamin herbal centre, Abuja. It is composed of lemon leaf, sesameseeds, Garlic bulb, bitterleaf, Aloe vera leaf, Love-lies bleeding leaf and Sugarcane leaf.

Love-lies bleeding (Amaranthus Caudatus)- Uncooked amaranth grain is 12% water, 65% carbohydrates (including 7% dietary fiber), 14% protein, and 7% fat. A 100 grams (3.5 oz) reference amount of uncooked
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**Mechanism of action of SAAB VID 19, SAAAB, SAABFAT6 & SAABMAL HERBAL SUPPLEMENTS**

i. **Anti-inflammatory action:** Aloe vera inhibits the cyclooxygenase pathway and reduces prostaglandin E2 production from arachidonic acid. Recently, the novel anti-inflammatory compound called C-glucosylchromone was isolated from gel extracts.

ii. **Effects on the immune system:** Alprogen inhibit calcium influx into mast cells, thereby inhibiting the antigen-antibody-mediated release of histamine and leukotriene from mast cells. In a study on mice that had previously been implanted with murine sarcoma cells, acemannan stimulates the synthesis and release of interleukin 1 (IL-1) and tumor necrosis factor from macrophages in mice, which in turn initiated an immune attack that resulted in necrosis and regression of the cancerous cells. Several low-molecular-weight compounds are also capable of inhibiting the release of reactive oxygen free radicals from activated human neutrophils.

iii. **Laxative effects:** Anthraquinones present in latex are a potent laxative. It increases intestinal water content, stimulates mucus secretion and increases intestinal peristalsis.

iv. **Antiviral and antitumor activity:** These actions may be due to indirect or direct effects. Indirect effect is due to stimulation of the immune system and direct effect is due to anthraquinones. The anthraquinonealoin inactivates various enveloped viruses such as herpes simplex, varicella zoster and influenza. In recent studies, a polysaccharide fraction has shown to inhibit the binding of benzopyrene to primary rat hepatocytes, thereby preventing the formation of potentially cancer-initiating benzopyrene-DNA adducts. An induction of glutathione S-transferase and an inhibition of the tumor-promoting effects of phorbolmyristic acetate has also been reported which suggest a possible benefit of using aloe gel in cancer chemoprevention.


The World Health Organization is fully aware of the importance of herbal medicines to many of its Member States and supports the use of medicinal plants and their products. In early 1978, the World Health Assembly, the WHO governing body, adopted a resolution on drug policies and management of medicinal plants, which recognized the importance of medicinal plants in the health care system. The World Health Assembly proposed coordinating efforts through the preparation of an inventory of medicinal plants, the development of criteria and methods for proving the safety and efficacy of medicinal plant products, and the dissemination of relevant information. In 1987, 1988 and 1989, three more resolutions were adopted covering the identification, evaluation, preparation, cultivation, utilization, regulation and conservation of medicinal plants’ policy on herbal Medicines.

**Sugarcane (Saccharum officinarum Linn.)-** is an important perennial grass of Poaceae family, indigenous to tropical South Asia and Southeast Asia. It is cultivated worldwide due to the economical and medicinal value of its high yielding product.

The phytochemistry of sugarcane wax (obtained from the leaves and stalks of sugarcane), leaves, juice, and its products has revealed the presence of various fatty acid, alcohol, phytosterols, higher terpenoids, flavonoids, -O- and -C-glycosides, and phenolic acids. SAABMAL have been effectively used in the treatment of Malaria which is endemic in tropical countries like Nigeria. Our double-blind clinical trial demonstrated its antimalarial and antiparasitic properties. It is given the desired efficacies in the treatment of Malaria. It properties are enhanced by the presence of phenolic acids, flavonoids, pantothentic acid, vitamin B6, folate. The folate and B6 promote red blood cells formation destroyed by the malaria parasite. This property makes it suited for the treatment of Covid-19 also.

**Amaranth (Amaranthus hypochondriacus Linn.)-** is a weed of worldwide distribution. It is a prolific plant and yields 371 calories, and is a rich source (20% or more of the Daily Value, DV) of protein, dietary fiber, pantothentic acid, vitamin B6, folate, and several dietary minerals. Uncooked amaranth is particularly rich in manganese (159% DV), phosphorus (80% DV), magnesium (70% DV), iron (59% DV), and selenium (34% DV).

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The result above using SAAAB, SAABFAT6 & SAABMAL show their antiviral, anti-carcinogenic, anti-Malaria and prophylactic properties. There is abundant empirical evidences on the efficacy of the usage of these herbal remedies on their respective ailments as shown by patients in Group Y who showed progress in their clinical features as well as laboratory results. The X group that were on placebo conditions worsen progressively in both the clinical features and laboratory results. The Covid-19 virus can be effectively handled with its anti-microbial and Prophylactic properties considering their constituents, all these are food used as staple foods in some cultures in Africa, Caribbean, South America, parts of Australia, North America and Europe.

The Covid-19 disease is indeed a global pandemic. China where the pandemic started has resumed commercial activities in Wuhan with little spread of the virus affecting other provinces. Commercial activities have resumed in full swing, there are the ones are hugely involved in the production of the personal protective equipments (PPE) as well as the drugs, hand sanitisers and ventilators. The USA have recorded the highest...
number of deaths and affected persons followed by European countries. Africa countries have lesser numbers because of lack of testing kits.

The economy of the world is drastically affected. The prices of sanitary products have increased. SAAAB, SAABFAT6 & SAABMAL HERBAL SUPPLEMENT are cheap, affordable and available it will provide great mitigating effect on the hardship experienced by all and quick reversal in the trend of activities in the world. This is accessible, affordable easily acceptable by the people. Many countries are practicing detect, contact tracing and isolation. Public gatherings are now prohibited. Handshakes are part of greetings in many cultures and are highly discourage now following the trajectory of the mode of the spread. In many countries of the world today, especially the developing countries, testing is subjected to a high index of suspicion on travelling history from endemic countries, what happens to those who have hard contacts with these persons unnoticed especially via handshakes and hugging, sometimes these are done reflexively.

V. Conclusion

SAAAB, SAABFAT6 & SAABMAL HERBAL SUPPLEMENTS have very excellent efficacy in the treatment of Hepatitis B, HIV and AIDS. The polyherbal formulations contain anti-inflammatory properties that hinders the alveolar inflammatory reactions in the lungs. There also have anti-inflammatory properties. They have the ability of stimulating antibodies to contain the virus as well as retard and stop the duplication of the virus. This combination has abundant zinc and ascorbic acid that will aid the epithelial cells in the lungs thus enhancing the oxygen carrying capacity of the red blood cells to all vital organs including the lungs, the multiple organ failure that leads to death in the disease is avoided.

Recommendation SAAB VID 19, SAAAB, SAABFAT6 & SAABMAL herbal supplements combination with their very desirable qualities should be given a chance in the treatment of Covid-19.

References

[17] https://apps.who.int/medicinedocs/en/d/Jh2954e2.2.html