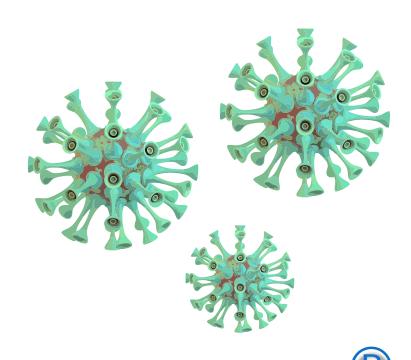


'Search for Medicine That Cures!'

is an everlasting process in the history of mankind.





Exporting the Goodness of Ayurveda to rest of the World





Threat of Viral Epidemic -220 known human viruses -about 320,000 Predicted human viruses

thats why an *Urgent need* of *Natural product drug discovery* that *expedite Antiviral drug discovery*







Viruses are of Two types
1-Enveloped Viruses
(more sensitive to
degradation)
2-Naked viruses







Sutroducing TM

Factors affecting Survival of Viruses -composition of virus (enveloped or naked)

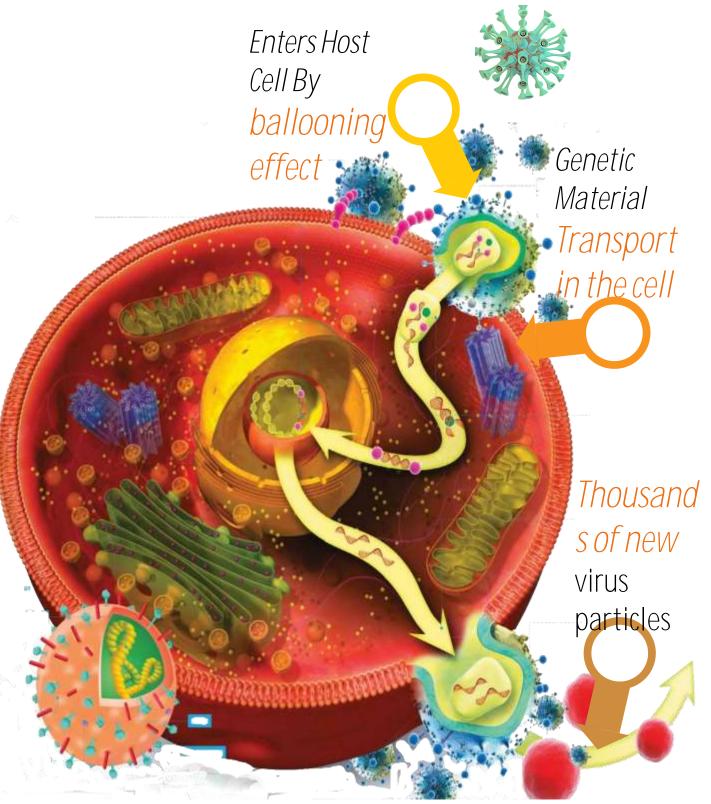
- -present in human & animal wastes
- -temperature
- -Humaidity
- -рН
- -Host Resistance (Munity)





How <mark>Viruses</mark> Spread In Human cell





virustat

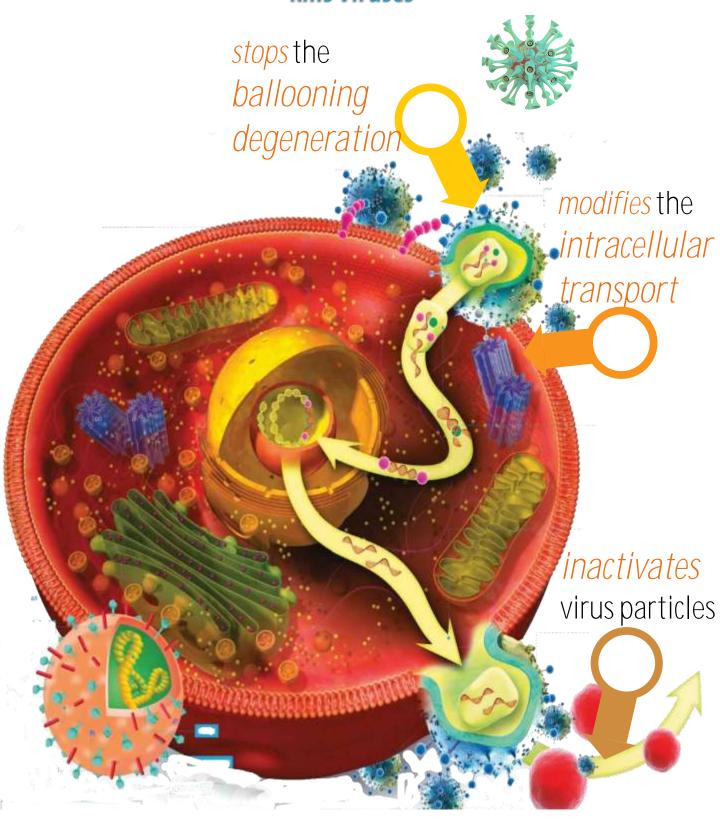
kills Viruses





Introducing TM

kills Viruses







'Search for Medicine **That Cures!**



Has MULTI TASK

To Cover All ASPECTs

TO KILL VIRUSES

broad-spectrum

Antiviral

Strongly

Virucidal



broad-spectrum

Anti bacterial

Strongly /irustatio

Introducing

TM kills Viruses





'Search for Medicine That Cures!'



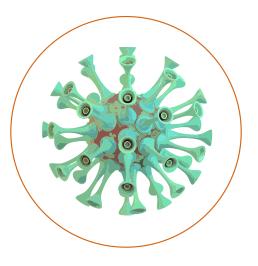
Has MULTI TASK

To Cover All ASPECTs

TO KILL VIRUSES

Immune Booster

No/Lesser Side effects



(pH Changer)

Post Infection Protection

Introducing TM Struses







Introducing TM

broad-spectrum Antiviral.... broad-spectrum Antibacterial.... Strongly Virustatic, Virucidal

within 36 hours the symptoms would have entirely abated kills Viruses







Sntvoducing TM

takes 4 to 8 hours to reach maximum serum concentration after oral ingestion; then it is slowly excreted and eventually eliminated entirely about 72 hours after ingestion









Introducing TM STATE STA

-prevents viral replication across a wide range of virus

- -inhibits viral growth,
- inhibits viral uptake,
- -neuraminidase in numerous influenza strains







Sutvoducing TM Sutvoducing TM Kills Viruses

-inhibits *virin-associated RNA dependent DNA polymerase*

- -inhibits *casein-kinase-ii-mediated activation* of *hiv-1 enzyme*
- -viral anigen expression of human cytomegalovirus
- inhibits *protein-kinase-a-*inhibits *casein-kinase-ii- mediated phosphorylation* of the *icp27 regulatory protein*







Sutvoducing TM Sutvoducing TM Kills Viruses

-inactivates virus particles, strongly inhibits viral cytokine cascades,

-stops the ballooning degeneration of fused cells,

-modifies the intracellular transport

and suppresses sialylation

-inhibits rantes secretion







Sutroducing TM Sutroducing TM Kills Viruses

-lowers lipid bilayer membrane fluidity,

(stopping the virus-induced development of membrane pores through which the viruses can enter host cells.)

- immunostimulant,
- it stimulates interferon production,
- enhances antibody formation,
- stimulates phagocytosis. <u>Symptoms entirely abated</u>







Sutroducing TM Sutroducing TM Kills Viruses

pH of Virustat is 11-13.2 higher than pH of Corona virus 5.5-8.5

> by changing the pH of Human Body fluid

virustat

kills Viruses







Introducing TM Introducing TM

Virustat are uptaken fairly quickly into the cell due to its cholesterol-like shape and rapidly across the membrane and concentrates on the inner membrane surface causes the cell membrane to become more rigid, significantly reducing the movement of virus through the membrane.

VIrustat_{kills Viruses}







Introducing TM Substitution of the substituti

Due to its nature, Virustat is
also uptaken by the Viruses and
incorporated into their viral envelope,
which also becomes more rigid. At
human body temperature the effects
on cell fluidity are significant. Once this
occurs, a virus's ability to fuse with a
host cell and create a pore in the
membrane through
Which

to enter the cell is inhibited.

VIrustat_{kills Viruses}







Introducing TM In the second of the second

Virustat also stops the ballooning degeneration that occurs in virus-infected/fused cells. influenza viruses, vaccinia virus, herpes simplex virus 1, Newcastle disease virus, measles, HIV-1,

and SARS have found that it acts in exactly this way with all those enveloped viruses.







Introducing TM IN STATE KILLS VIRUSES

Interferon. whose production is stimulated in the body by Virustat, also alters membrane fluidity, as well as being directly antiviral. Virustat acts through multiple mechanisms on membrane fluidity.







Introducing TM INTERPORT OF THE INTERPO

broadly antiviral.

-active against a wide range of viruses through multiple mechanisms.

-inhibits the ability of many viruses to create the membrane pores

-it is directly virucidal,

-and for others it stimulates the host immune system specifically to attack the invading virus.







Introducing TM Sutroducing TM Kills Viruses

especially effective against

- -enveloped viruses
- and this covers a wide range:
- -coronaviruses,
- -herpesviruses,
- -poxviruses,
- -hepadnaviruses,
- -flaviviruses, and......







Introducing TM Substitution of the substituti

-----togaviruses,
-hepatitis D,
-orthomyxoviruses,
-paramyxoviruses,
-rhabdoviruses,
-bunyaviruses,
-filoviruses, and
-retroviruses.

<u>Symptoms entirely abated</u>







Introducing TM Sutroducing TM Kills Viruses

effective against,

<u>irrespective of</u> <u>mechanism</u>,

- -*SARS*-related coronavirus (FFM-1, FFM-2 multiple isolates),
- -*influenza A* (various strains, H1N1, H2N2, H5N1, H9N2, novel H1N1, oseltamivir-resistant novel H1N1),
- -respiratory syncytial virus,
- parainfluenza virus 3,
- -dengue,
- -viral pneumonia,
- -avian infectious *bronchitis virus*,

<u>Symptoms entirely abated</u>







Introducing TM STATE STA

<u>inhibits cellular</u> <u>infection</u>

by 11 different flaviviruses, including some of the most damaging:

dengue,

Japanese encephalitis, tick-borne encephalitis, and yellow fever.







with added benefits of

COPPER OXIDE

- -treats Pitta and Kapha
- -predominance tuberculosis,
- -chronic respiratory conditions,
- -cough and cold,
- -asthma.







with added benefits of

Glycyrrhiza glabra

glycyrrhizin, practically wipe out the *SARS virus*

virologist Jindrich Cinatl of Frankfurt University Medical School, Germany and his colleagues.

- is *more potent* than *ribavirin*, the most commonly used treatment for SARS.
- -Glycyrrhizin *makes difficult* for the *SARS virus* to *attach to and invade a target cell*







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin hampers the growth of other *viruses*, including *herpes*, and helps restore liver function in patients with *hepatitis C*

Reffernce: Cinatl, J. et al. Glycyrrhizin, an active component of liquorice roots, and replication of SARS-associated coronavirus. The Lancet, 361, 2045 - 2046, (2003).

-glycyrrhizin *effectively inhibited* the *replication of two clinical isolates of SARS-associated coronavirus* (FFM-1 and FFM-2)







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin *inhibited virus* replication but also the adsorption & penetration of the virus into cells (Cinatl et al., 2003).
- -useful to *treat respiratory infections* and *acute respiratory distress syndrome* (ARDS).







Antroducing TM Solution Solut

with added benefits of

Glycyrrhiza glabra

- glycyrrhizin is *useful to patients* with *URTI* without acute bacterial infections (Yanagawa, Ogura, Fujimoto, Shono, 8z Okuda, 2004)

-antiviral activity of glycyrrhizin relies on both cytoplasmic and membrane effects by inhibiting virus penetration of the plasma membrane (Crance et al., 1994) and suppresses the secretion of viral antigens







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin *lowers the membrane fluidity* and thus *suppresses infection* by different viruses, such as HIV-1, HTLV-1, influenza A virus and vesicular stomatitis virus, (Harada, 2005)

-inhibition of viral lipid-dependent attachment of the virus envelope of the SARS-COV-2 to host cell plasma membrane

, has been proposed as a strategy for reducing SARS-COV-2 infectivity (Baglivo et al., 2020)







Antroducing TM Solution Solut

with added benefits of

Glycyrrhiza glabra

- glycyrrhizin *activates the immune* regulatory functions, notably promoting the expression of cytokines IFN-y, IL-6, and IL-10, and the production of nitric *Oxide* (Wang et al., 2018; Wang et al., 2018)

-found to *inhibit the cytopathic effect* of the *virus with an EC50 of 300 mg/ml*, while being *non cytotoxic to the host cells*. glycyrrhizin *inhibited virus replication*.







with added benefits of

Glycyrrhiza glabra

-Lipid rafts play an important role in the life cycle of SARS-coronavirus. The depletion of cholesterol (with methyl-ß-cyclodextrin) inhibits the production of coronavirus particles released from infected cells (Li, Li, Yamate, Li, 8{ Ikuta, 2007).







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin displays a marked antiinflammatory activity and modulates the immune system, via an action on multiple pathways such as MAPK and

Toll-like receptors signaling pathways (Zhao et al., 2016).

-its binding to high-mobility group proteins BI (HMGBI and possibly HMGB2), thereby inhibiting the DNA-binding and phosphorylation of the protein (Sakamoto, Okano, Takena, 8{ Ohtsuki, 2001). (Reffrence More than 2000 citation on PubMed alone)







Antroducing TM Solution Solut

with added benefits of

Glycyrrhiza glabra

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-inhibit the cytopathic effect of the virus, while being non cytotoxic to the host cells.







with added benefits of

Glycyrrhiza glabra

-amphiphilic and anisotropic structure of glycyrrhizin led to the formation of rod-like micelles and fibrils that self-assembled into a fibrillary network (Saha, Adamcik, Bolisetty, Handschin, 8{Mezzenga, 2015).
-process is highly pH-dependent; the drug is dissociate into monomers at pH 7 or more

(Matsuoka, Miyajima, Ishida, Karasawa, 8{ Yoshimura, 2016).







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin is *considered a safe natural product*, with a *long-established use in Human* as a hepatoprotecting agent. Adverse effects are relatively rare and manageable (Nazari, Rameshrad, 8{Hosseinzadeh, 2017).
- -shown marked activity against coronaviruses
- -useful to alleviate the respiratory distress syndrome associated to the viral infection.







Anti-SARS-CoV-2 agent

with added benefits of

Glycyrrhiza glabra

- glycyrrhizin serve as a codrug to increase the bioavailability of poorly soluble products.
- -makes sense also to combine *glycyrrhizin* with other antiviral agents having different mechanisms to reinforce the antiviral response (combination of cytoplasmic and membrane effects).
- glycyrrhizin *induces cholesterol-dependent* disorganization of lipid rafts which are important for the entry of coronavirus into cells







with added benefits of

Glycyrrhiza glabra

- glycyrrhizin is an efficient binder of HMGBI. The glycoside moiety of glycyrrhizin plays a major role in the interaction with the HMG box protein.

Considering the multiple functions of HMGBI in viral infections and replication, the trapping of HMGBI by glycyrrhizin could contribute significantly to a diminution of the virus-induced excessive inflammatory response and the viral replication.







Introducing TM Sutroducing TM Kills Viruses

with added benefits of

Ginger

a decent antiviral

for respiratory viral infections, very good supportive herb for most viral infections.

-active against influenza A, rhinovirus (especially 1B), human cytomegalovirus, hepatitis C, HIV-1, Epstein-Barr, HSV-1 and HSV-2 (resistant or otherwise),







Introducing TM In the second of the second

with added benefits of

Ginger

a decent antiviral

-active against influenza A,
Newcastle virus (Ranikhet strain),
vaccinia virus, tobacco mosaic virus,
and poliovirus (type 3 - mildly so).
-decent antimicrobial actions as well
-gingerols the volatile constituents
are the most antiviral.







Sutvoducing TM Sutvoducing TM Superior Superio

with added benefits of

Ginger

a decent antiviral

-an *elastase inhibitor*. Many bacteria use elastase *to break down cellular tissue*, helping their penetration of the body.

-increases immune markers across the board, pre- and post-infection. -Detoxification actions. acting as a heavy metal detoxifier.







Sutvoducing TM Sutvoducing TM Superior Superio

with added benefits of

Ginger

a decent antiviral

-synergist actions. ginger have been found to be not only antibacterial but to modify bacterial resistance in Acinetobacter baumanii and to help potentiate the action of tetracycline.

-Ginger also *potentiates the activity of aminoglycoside antibiotics* (arbekacin, gentamicin, tobramycin, streptomycin) and *other antibiotics such as bacitracin and polymyxin B against vancomycin-resistant enterococci.*







Sutvoducing TM Sutvoducing TM Superior Superio

with added benefits of

Ginger

a decent antiviral

- -reduce fever (by stimulating sweating),
- -reduce cold chills,
- -reduce inflammation in bronchial passageways, thin mucus and help it move out of the system,
- -reduce coughing (as much as codeine cough syrups),
- -ameliorate anxiety, and provide analgesic relief equal to or better than ibuprofen.
- -increasing the actions of other herbs and boosting their effectiveness by relaxing blood vessels and increasing circulation, thus carrying the active constituents of the other herbs more efficiently throughout the body.







Introducing TM Substitution of the substituti

with added benefits of

Ginger

a decent antiviral

-If used at the onset of a cold or flu, i.e., the very day you sense it coming on, it can cut down sick time to 3 days or less and the episode will often be mild. If used once the flu or cold is fully blown it will help ameliorate the symptoms considerably and shorten the illness.







Introducing TM In the second of the second

with added benefits of

Allium sativum

-Eighteen active substances, including 17 organosulfur compounds found in garlic,

-the inhibitory effect of the considered compounds on the host receptor angiotensin-converting enzyme 2 (ACE2) protein in the human body that leads to a crucial foundation about coronavirus resistance of individual compounds on the main protease (PDB6LU7) protein of SARS-CoV-2.







with added benefits of

Allium sativum

-the 17 organosulfur compounds, accounting for 99.4% contents of the garlic, have strong interactions with the amino acids of the ACE2 protein and the main protease PDB6LU7 of SARS-CoV- 2.

-strongest anticoronavirus activity is expressed in allyl disulfide and allyl trisulfide, which account for the highest content in the garlic (51.3%). exhibit good inhibition of the ACE2 and PDB6LU7 proteins.

-garlic is a valuable natural antivirus source, which contributes to preventing the invasion of coronavirus into the human body.







Introducing TM Substitution of the substituti

with added benefits of

Allium sativum

-inhibiting SARS-CoV-2, the inhibition of the ACE2 protein is absolutely necessary to reduce the operability of the host receptor of SARS-CoV-2.

-If the ACE2 protein is inhibited, coronavirus is prevented and treated.







with added benefits of Amukkara Kizhangu

The researchers targeted the *main SARS-CoV-2 enzyme* for *splitting proteins*, known as the *Main protease (Mpro)*. Mpro plays a key role in replication of the virus. The researchers have discovered that a chemical *Withanone (Wi-N) - C28H3806*, Derived from Ashwagandha and *Caffeic Acid Phenethyl Ester (CAPE)*, an active ingredient of New Zealand Propolis, has the *potential to block the activity of Mpro. Withanone* (steroidal lactone) also *potentially blocks the entry of virus through the cell membrane.*

study of DAI LAB at Indian Institute of Technology (NT) Delhi and National Institute of Advanced Industrial Science and Technology (AIST), Japan.









with added benefits of Amukkara Kizhangu

Rasayana that

- -revitalizing the body,
- -increasing immunity,
- -treating musculoskeletal conditions
- -as a general tonic to increase energy.







A blend of Alkaline Herbs
changes the
pH of Human Body fluid
Offers

Anti-thrombotic
or Blood Thining effect







Introducing TM STATE STA

offers Anti-thrombotic

Prevents

intravascular coagulation of the blood in any part of the circulatory system, as in the heart, arteries, veins, or capillaries.







A blend of Alkaline Herbs
changes the
pH of Human Body fluid
prevents

Black Fungus to Grow

Mucormycosis Black Fungus







WITH ADDED BENIFIT OF ACRIDHANCER

A blend of 13 herbs act as

Bio-Enhancers

<u>-Increase Bioavailability of</u> <u>Nutrients</u>

-Enhance Efficacy of Drugs

-Reduce Risk of Developing Antibiotic Resistance









WITH ADDED BENIFIT OF ACRIDHANCER

<u>Increase Bioavalability of</u> VIRUSTAT

-By increasing the plasma half-life and delays their excretion for increasing therapeutic effects and aims to correct the imbalance of the three "doshas" (VATA, PITTA, KAPHA psychophysical components of human body) that can lead to disease -Boost blood circulation.









Introducing TM Introducing TM

WITH ADDED BENIFIT OF

ACRIDHANCER

- -*Improves absorption* of *nutrients and medicines* in the intestine.
- -Reduces degradation of nutrients and medicines in the liver and intestine.
- -Enhances immunity of the person.
- -Increaseses bioavailability of nutrients and medicines at cellular levels.
- -Helps *maintain optimum digestion* and *metabolism*.
- -Improves tolerability of drugs.



THANKS YOU DOCTOR



For your valuable prescription support for













Introducing TM

Symptoms entirely abated

RE-INVENTING

OLD AYURVEDIC FORMULATIONS

TO TREAT PAITIENTS EFFECTIVELY IN

LESSER TIME.

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