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# **IHP DETOX TEA: A NIGERIA POTENTIAL HERBAL MEDICINE FOR THE TREATMENT OF COVID-19**

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# OUTLINE



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- ❖ Introduction
- ❖ Pharmacological activities and chemical constituents of the components of the IHP Detox Tea
- ❖ Scientific Case for IHP Detox Tea for the Treatment of COVID -19
- ❖ Conclusion

# Introduction



- COVID – 19 caused by Severe Acute Respiratory Syndrome Coronavirus - 2 (SARS CoV-2) has become a challenging source of mortality across the globe.
- Intercedd Health Products (IHP) has developed a novel nutraceutical, IHP Detox Tea which is an optimized natural blend of leaves of *Andrographis paniculata*, *Garcinia kola* seeds and *Psidium guajava* leaves.
- The IHP Detox Tea (NAFDAC number A7-1981L) has been produced and marketed in Nigeria since 2016 as herbal supplement for the treatment of infectious diseases.

# PHARMACOLOGICAL ACTIVITIES AND CHEMICAL CONSTITUENTS OF THE COMPONENTS OF THE IHP DETOX TEA



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## ***Andrographis paniculata* (Burm. F) Nees, (Family: Acanthaceae)**

- The major chemical constituent of *Andrographis paniculata* is Andrographolide. Other constituents include some bitter diterpene lactone.
- A wide range of antiviral activity including activity against **Influenza A virus** (Yu et al., **dengue virus** (Tseng et al., 2016; Panraksa et al., 2017), chikungunya virus (Wintachai et al., 2015) and human immunodeficiency virus (Reddy et al., 2005)..... has been reported for *Andrographis* and its major constituent Andrographolide.
- Specifically, for the treatment of Covid 19, Andrographolide showed activity **against SARS Coronavirus with an EC50 of 1.2 µg/ml in the Visual (cytopathic effect/toxicity) assay and 1.1 µg/ml in the Neutral Red (cytopathic effect/toxicity) assay.**

# *Garcinia kola* Heckel (Family: Clusiaceae)



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- Kolaviron, the major component of *Garcinia kola* seed, has been identified as the specific antiviral bioflavonoid in bitter kola as suggested by both *in vitro* and *in vivo* studies (Anchang *et. al.*, 2015).
- The biflavonoids constituents of the seeds of *G. kola* have shown remarkable broad-spectrum antiviral activity against a variety of viruses including *puntatoro*, *pichinde*, *sandfly fever*, ***influenza A***, *Venezuelan Equine Encephalomyelitis* HIV-1 and Ebola virus, with IC<sub>50</sub> values of 7.2-32 µg/ml and TMC of more than 320 µg/ml (Iwu, 2002).

# *Psidium guajava* L. (Myrtaceae)



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- ▶ Chemical investigations of *P. guajava* have revealed the abundant presence of cineol, tannins, triterpenes, flavonoids among other phytoconstituents.
- ▶ Bioactive compounds of *Psidium guajava* leaves have shown a wide range of antiviral activity, including activity against Influenza A virus and new castle disease virus (Sriwilaijaroen et al., 2012).
- ▶ Investigations have also indicated that the leaves of *Psidium guajava* possess a host of other pharmacological activities including antibacterial, hypoglycaemic, anti-inflammatory, analgesic, antipyretic, spasmolytic and CNS depressant activities (Ukwueze et al., 2015, Ukwueze and Okoye 2018)



# Scientific Case for IHP Detox Tea for the Treatment of COVID -19

- IHP Detox Tea contains *Andrographis*, *Garcinia kola* seed extract and *Psidium guajava* leaf extract.
- The extracts of these herbs as well as some of their major phytochemical constituents have shown validated antiviral,
- These herbs have long standing ethnomedicinal use and the safety profiles of their major phytoconstituents are well validated and documented.
- The potent antiviral activities of two of the major active ingredients of the tea namely, Andrographolide and Kolaviron on SARS Corona virus were recently validated by *In vitro* studies carried out by NIH.

# Conclusion



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- IHP Detox Tea have, thus, shown proven pharmacological efficacy in several of the conditions which supports its potential beneficial use in COVID-19 patients.
- Apart from the proven antiviral effects of the components of IHP Detox Tea, the immune boosting and adaptogenic effects of the major phytochemical constituents will definitely contribute to better prognosis of Covid-19 patients placed on the proposed therapy.
- The components of the IHP Detox tea have good pharmacokinetics profile and relatively non-toxic even at high doses making it an experimental herbal drug for the treatment of viral infections, with possible application in the control of the Novel Coronavirus, Covid-19.



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**THANK YOU**