

A unique oral spray Oro-InflaMin for alleviating Inflammation in Chronic lung diseases

TECHNOLOGY:

This is a synergistic formulation of Nanosized curcumin, Turmeric oil (with standardized alpha and beta turmerones), and Ginger extract (with standardized Gingerol) for targeted delivery to the lungs via oral/nasal inhalation to modulate the immune system, reducing chronic lung inflammation and fibrosis without nonspecific suppression.

Intellectual Property:

Pat. App. no.:

202231003211

Category of the invention:

- ✓ Biomedical Innovations
- ✓ Therapeutic Formulations
- ✓ Immunomodulatory treatments
- ✓ Drug delivery system

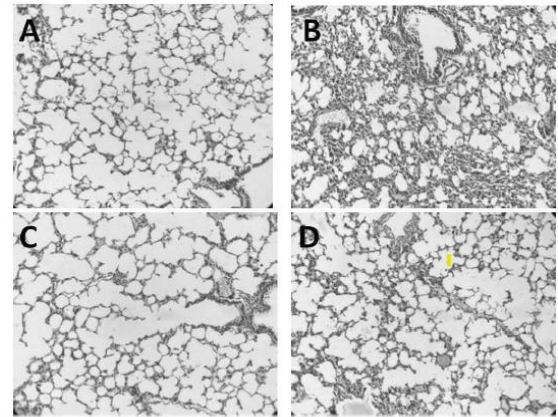


Figure. Histology profile in Lung tissue of

- A) Normal control
- B) LPS exposed
- C) LPS exposed followed by Nanocurcumin with Turmeric oil and gingerol formulation and
- D) LPS exposed followed by Turmeric oil and Gingerol combination

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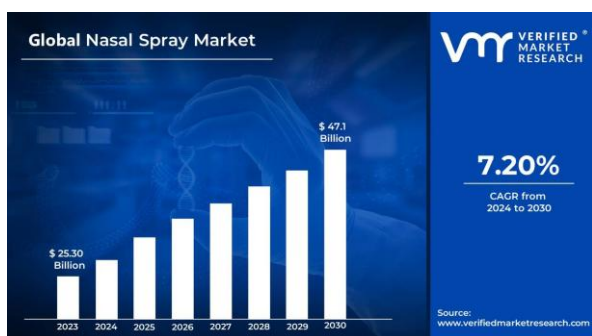
PROBLEM ADDRESSED

Pulmonary chronic inflammation, exacerbated by acute respiratory infections and chronic diseases like COPD and asthma, is a leading cause of global mortality. Dysregulated inflammation can lead to chronic cases, causing tissue damage. Environmental pollution exacerbates these conditions, contributing further to chronic inflammation and fibrosis in the lungs. Chronic inflammation can lead to severe complications, yet treatment options are limited and often come with adverse effects. Innovative solutions are urgently needed to address these complex issues and improve respiratory health outcomes worldwide.

ADVANTAGE

- ✓ Proprietary "Nanotized curcumin" is extensively tested for safety and effectiveness in reducing chronic inflammation, formulated with safe essential oils and plant extracts to protect lung function.
- ✓ Administered directly to the lungs as an aerosol for targeted delivery.
- ✓ Alleviates mood, promotes relaxation and improves quality of life by immunomodulation and homeostasis promotion.
- ✓ Offers reduced cost and can serve as an adjuvant therapy.
- ✓ Ingestible for additional health benefits like maintaining gut microbiota and supporting cardiovascular health due to its natural, plant-derived composition.
- ✓ Suitable for long-term use by both affected and healthy individuals without adverse side effects, enhancing compliance in reducing chronic inflammation.

POTENTIAL VALUE:



USP:

- ✓ Direct aerosol delivery ensures targeted action.
- ✓ Offers mood alleviation, relaxation, and enhanced quality of life.
- ✓ Cost-effective adjuvant therapy option.
- ✓ Versatile usage for various health benefits.
- ✓ Long-term use without adverse effects enhances compliance.

Reach Us:

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