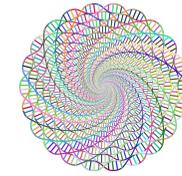


**Mitochondrion  
Application  
Biomedicine**

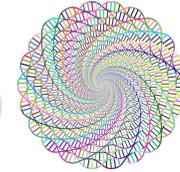


# **Introduction to New Generation Mitochondria-Based Solution against COVID-19**

***Scientifically-Proven Regenerative Healthcare***

***March 2020***

# About MitoBioMed and Dynamito®

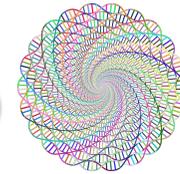


-  **Mitochondria: the “batteries” of all cells, including stem cells. More precise than stem cells, good mitochondria health prevents against all aging and degenerative diseases**
-  **One of the world's only two institutions to apply mitochondria therapy to approved medical treatments (Harvard University and MitoBioMed)**
-  **Recipient of more than 15 international patents on the application of mitochondria for medical treatment and regenerative health purposes, including USA, Japan, Taiwan and China**
-  **Since 2003, MitoBioMed and its programs have successfully treated: chronic fibrosis, neurodegenerative diseases, diabetes, cellular aging, muscle damage, heart injury and more**
-  **Dynamito®: formulated in the USA, it is a patented, certified and approved (UKAS, TAF, SGS and more) stem cell rejuvenation formula suitable for daily regenerative health, one which boosts rejuvenation growth factor, increases youth hormone and reverses stem cell age**
-  **For COVID-19, Dynamito activates and protects the macrophages mitochondria, helping macrophages establish the first line of defense when the human body fights against viruses including coronavirus**

**This Program is applicable to currently healthy (for preventative purposes) or at-risk (for mitigating purposes) individuals.**

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# About MitoBioMed and Dynamito®

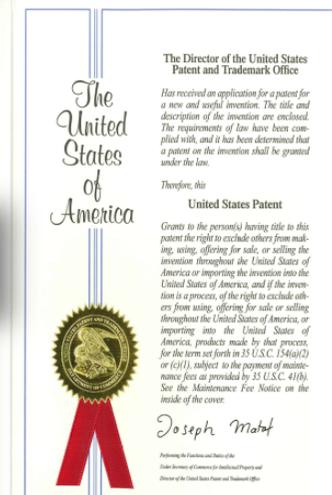
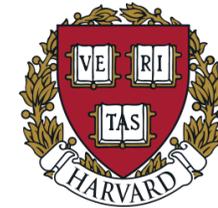


Since inception, the Company has focused on mitochondrial technology and medical application development and is one of the world's only two teams to apply mitochondria to treatment (Harvard University and MitoBioMed).

The world's only mitochondrial activated stem cells and related products have been developed through the mitochondrial evaluation system and mitochondrial activation technology.

Accredited university research and clinical trials include:

 MASSACHUSETTS GENERAL HOSPITAL  
 Boston Children's Hospital  
 Until every child is well™  
 NEW YORK MEDICAL COLLEGE  
 A MEMBER OF THE YORKE COLLEGE AND UNIVERSITY SYSTEM  
 HARVARD MEDICAL SCHOOL  
 UK College of Medicine  
 Department of Neuroscience  
 HKU Med LKS Faculty of Medicine  
 The University of Hong Kong 香港大學李嘉誠醫學院  
 HADASSAH Medical Organization  
 Research Fund of the Hadassah Medical Organization



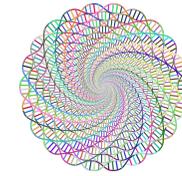
Proud to be a  
Global SDG  
#3 Affiliate



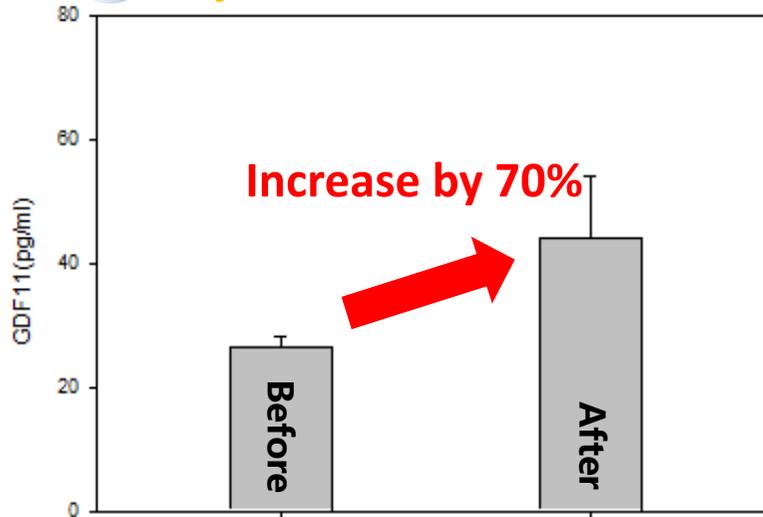
NUTRITION. STRATEGY. SOLUTIONS.

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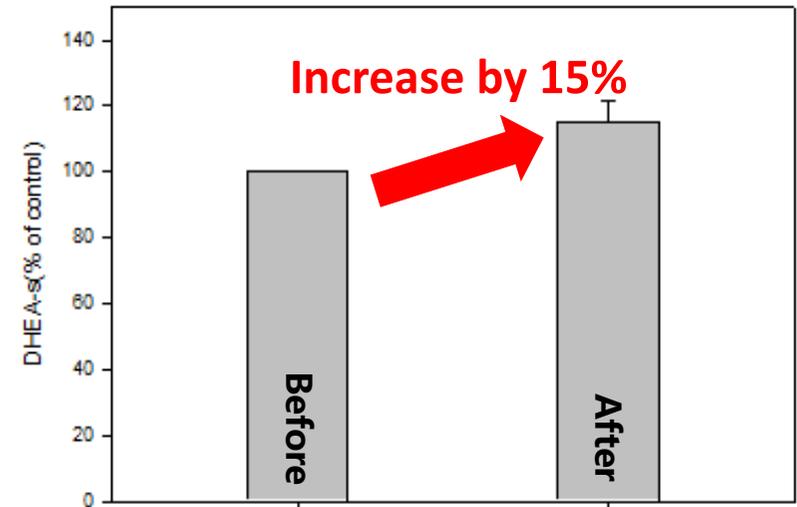
# Human Clinical Trial Results



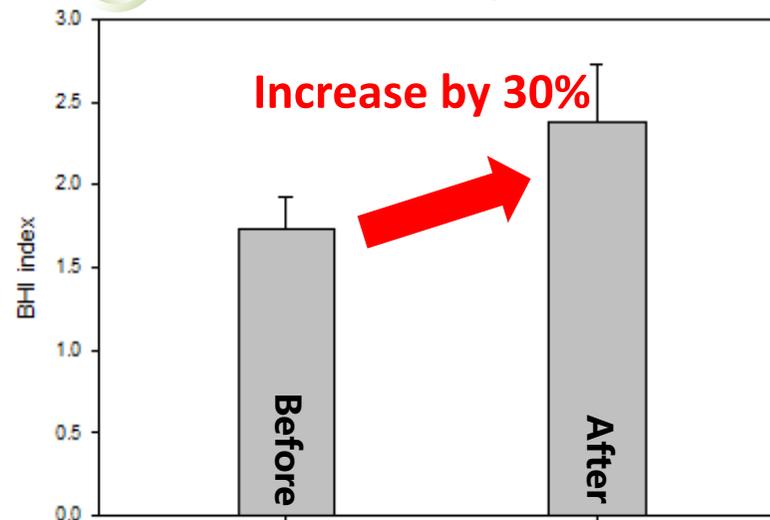
1 Rejuvenation Growth Factor



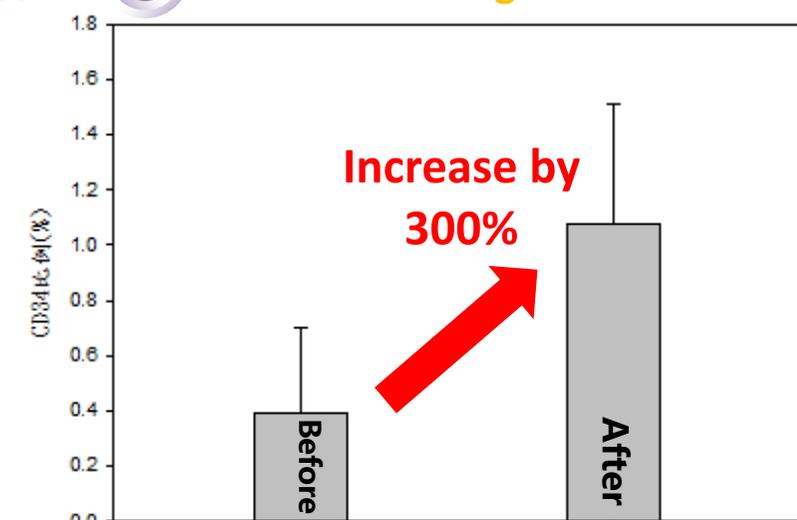
2 Youth Hormone Level



3 Mitochondrial Rejuvenation Energy



4 Stem Cells Age-Reversal



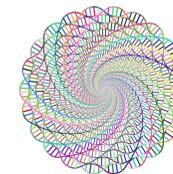
## Key Ingredients:

- Borage Oil
- Myrobalan
- Green Tea Extract
- Mito Nucleic Acid

100% Natural Ingredients

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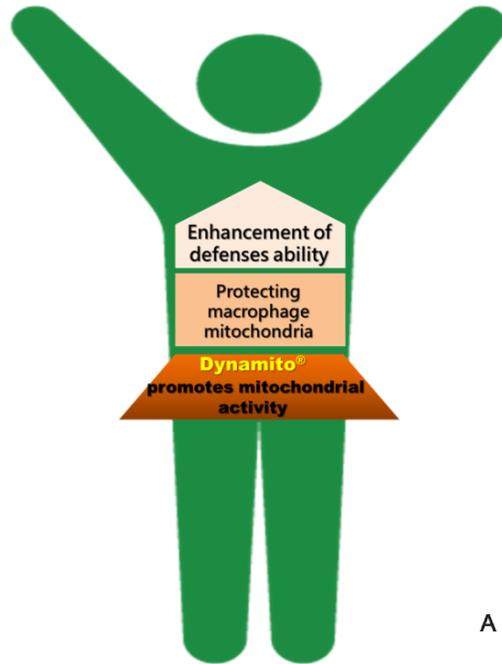
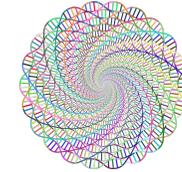
# Human Clinical Trial Results



	① GDF11	② DHEA	③ BHI	④ CD34 <sup>+</sup>
Cardiovascular System	⊙	⊙	⊙	
Bone and Muscle System	⊙	⊙	⊙	
Immune System		⊙	⊙	⊙
Endocrine System	⊙	⊙		
Metabolic System	⊙	⊙	⊙	⊙
Nervous System	⊙	⊙	⊙	
Indicators	<ol style="list-style-type: none"> <li>1. TAC (total Anti-oxidative Capacity)</li> <li>2. GPX (Glutathione Peroxidase)</li> <li>3. 8-OHdG (8-hydroxy-2'-deoxyguanosine)</li> <li>4. MPO (Myeloperoxidase)</li> <li>5. DHEA-S (Dehydroepiandrosterone sulfate)</li> <li>6. CRP (C-reactive protein)/hsCRP</li> <li>7. Creatinine and BUN</li> <li>8. Erythrocyte sedimentation rate</li> <li>9. TG/Cholestrol</li> <li>10. HbA1c/C-Peptide/Glycated albumin</li> </ol>			

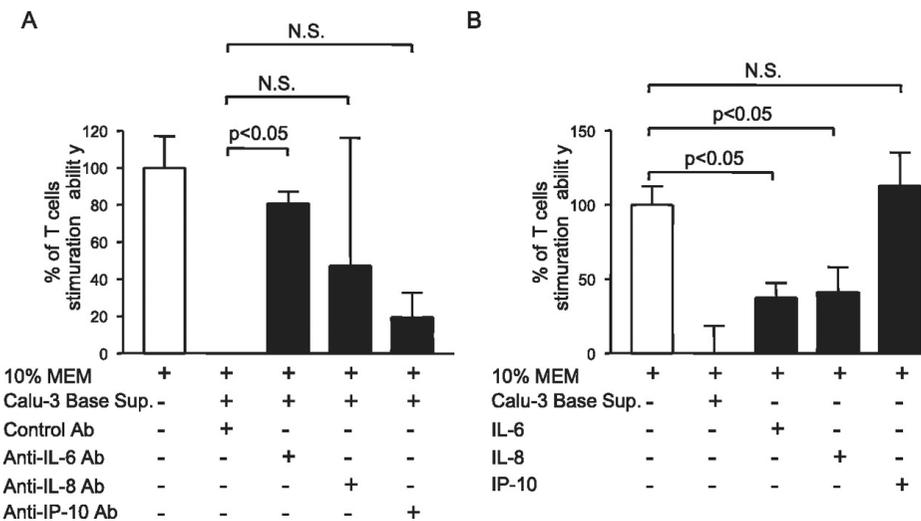
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# Immunity Boost against COVID-19



COVID-19 is now proven to cause irreversible lung tissue damage in an increasing number of cases.

Numerous studies completed in 2019 and 2020 have demonstrated that MitoBio / Dynamito MAPEs® can activate and protect the macrophages mitochondria, helping macrophages to establish the first line of defense when the human body fights against foreign unknown viruses (such as the new coronavirus and new influenza viruses) to avoid further lung damage. IL-8, or IP-10.

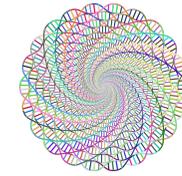


IL-6 and IL-8 are critical SARS-CoV-induced Calu-3 cell cytokines responsible, in part, for inhibiting the ability of DC to prime naïve T cells. Aliquots of DC were incubated with M-10 medium alone in the presence of control Ab and specific neutralizing Abs against IL-6

Note: IRB Test 2020 results (MitoBioMed)

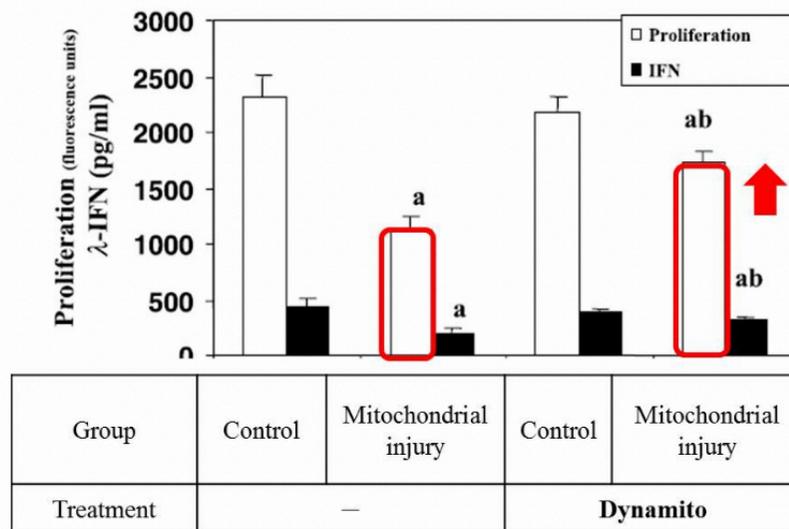
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# Immunity Boost against COVID-19

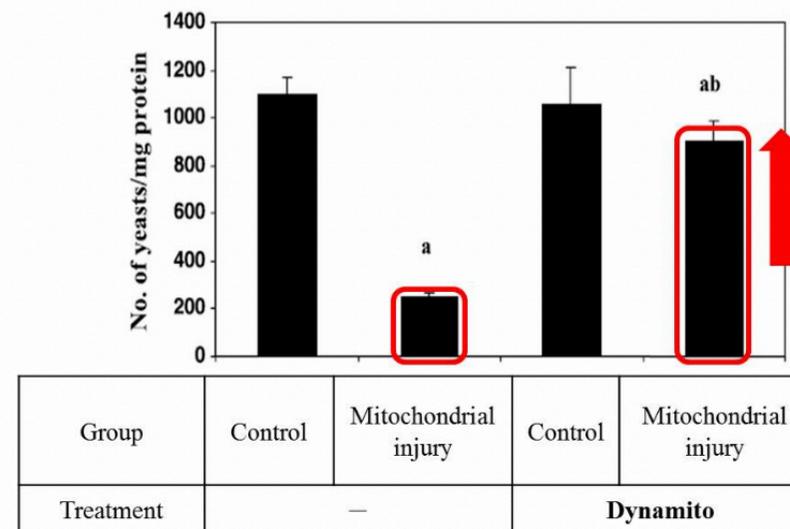


Experiments clearly show that the free radicals involved in the energy production of the cells are effectively neutralized by many of the free radicals of our complexed plant extracts, and this action defends part of the free attack on body tissues. The intracellular activity of mitochondria was significantly enhanced, and furthermore an increase of the number of stem cells is witnessed.

Number of Macrophage



The Phagocytic Function of Macrophage

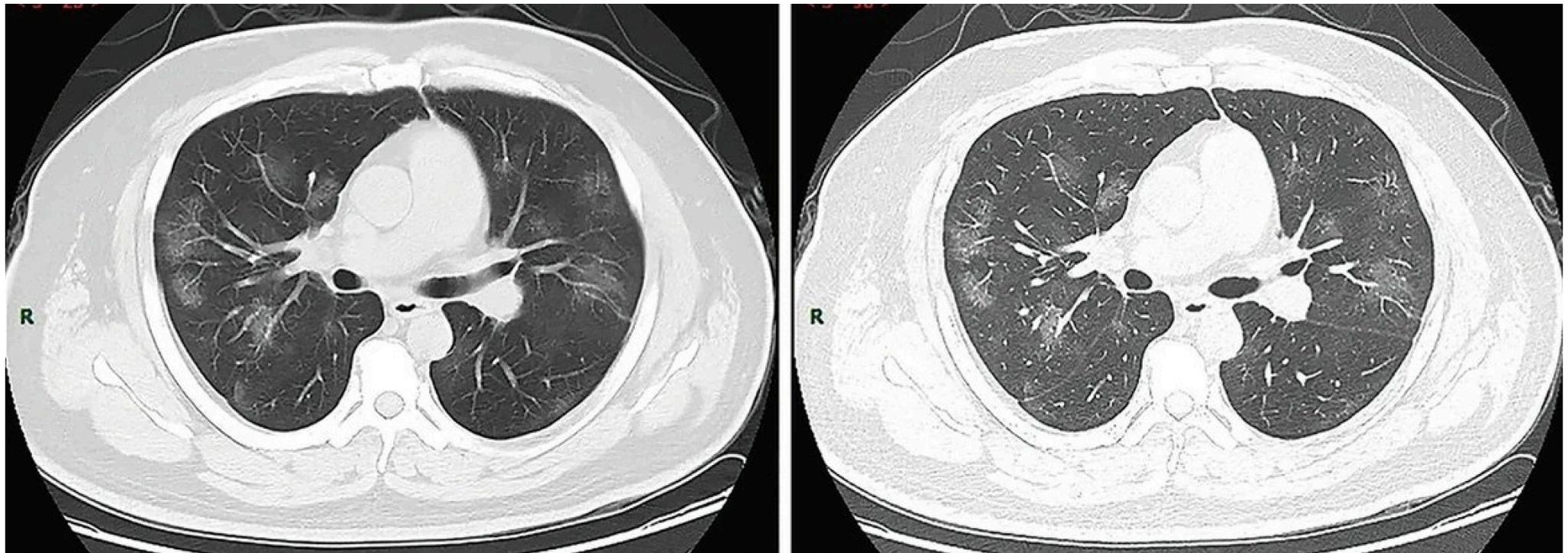
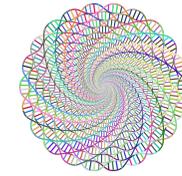


Note: IRB Test 2020 results (MitoBioMed)

**Just 1-2 capsules of Dynamito, equivalent to 600 – 1,200 mg concentration, per day will achieve the desired macrophage defense function. Minimum three months recommended.**

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# Case Study – Irreversible Lung Scarring caused by COVID-19

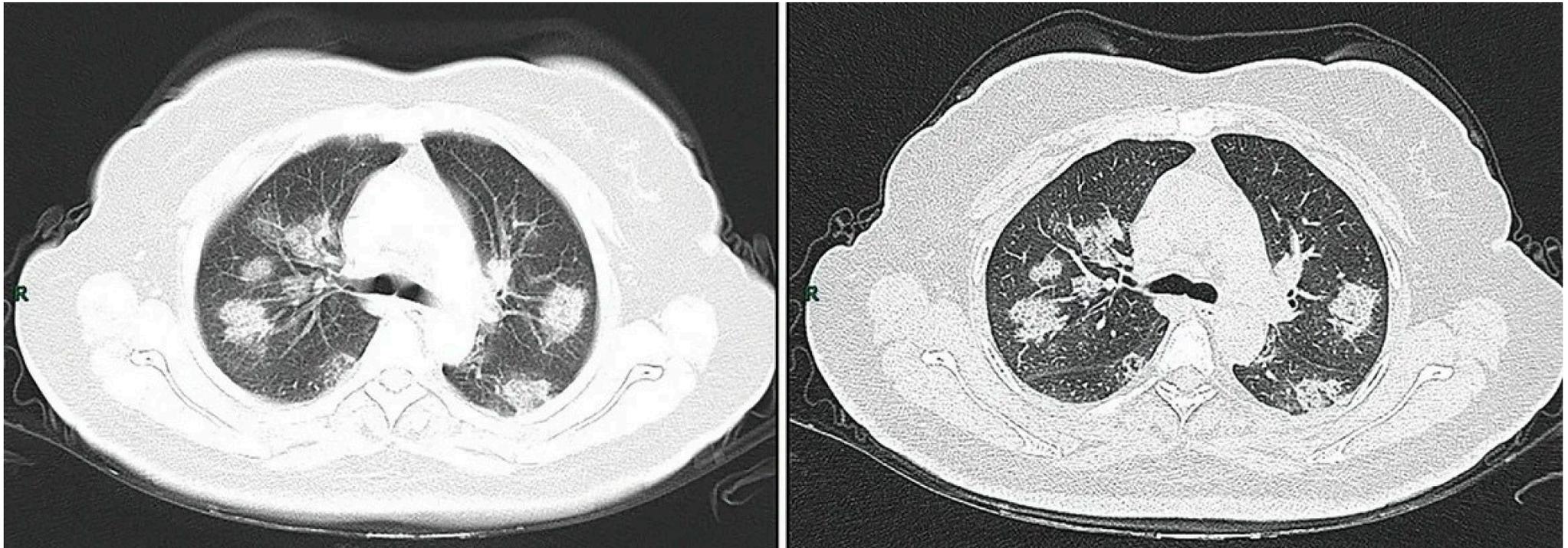
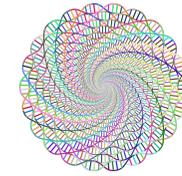


Typical CT imaging manifestation (Sample Case 1). A 38 years old male with fever without obvious inducement (39.3 °C), dry cough and shortness of breath for 3 days.

Source: [Military Medical Research](https://mmrjournal.biomedcentral.com/articles/10.1186/s40779-020-0233-6) <https://mmrjournal.biomedcentral.com/articles/10.1186/s40779-020-0233-6>

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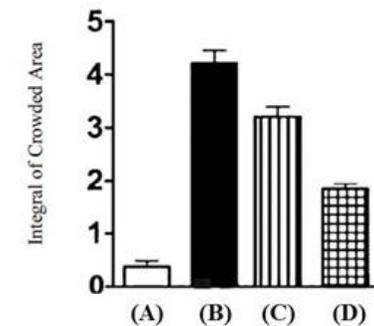
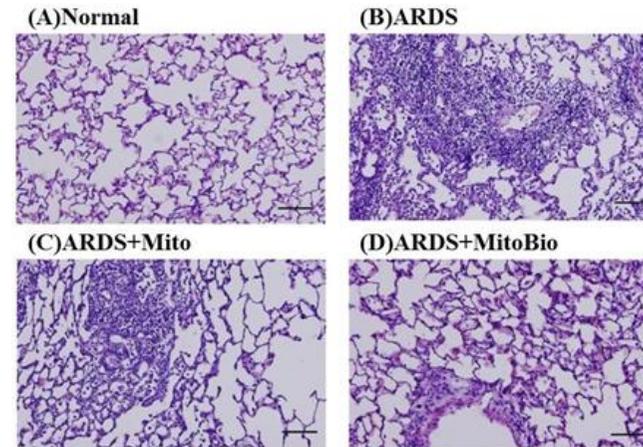
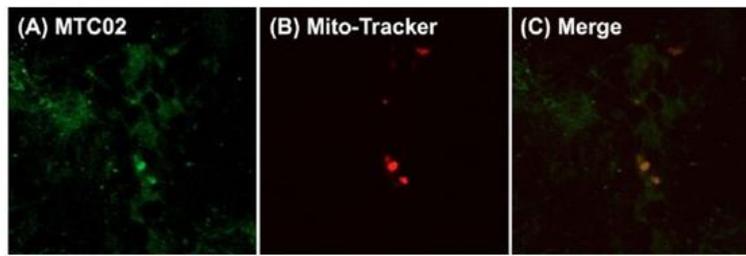
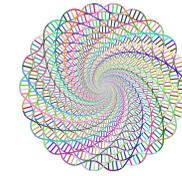


CT imaging of rapid progression stage (Sample Case 2). A 50 years old female with anorexia, fatigue, muscle soreness, nasal congestion and runny nose for 1 week, sore and itching throat for 2 days

Source: [Military Medical Research](https://mmrjournal.biomedcentral.com/articles/10.1186/s40779-020-0233-6) <https://mmrjournal.biomedcentral.com/articles/10.1186/s40779-020-0233-6>

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# Mitochondrial Transplantation in the Treatment of Lung Injury



Exogenous mitochondria can enter tissues in the lungs by intravenous injection. As a result of tissue sectioning and quantification, it can be clearly seen that mitochondrial transplantation can effectively increase the number of alveolar sacs and reduce the occurrence of neutrophil infiltration. This can significantly reverse the damage to lung tissue and function due to COVID-19