

**Study-Group AIDS-therapy** c/o Felix de Fries Juliastr. 8 8032 Zürich

To people affected, their doctors and caretakers  
To Groups and Institutions  
To Media

Zürich 14<sup>th</sup> March 2021

**Azetylcysteine and non-invasive ventilation in the treatment of Covid-19**

Dear Sir/Madam

The disorders that occur with Covid-19 demonstrate that the oxygen transportation into the cells is increasingly disturbed in those affected. Glutathione-molecules, which are formed in the liver, are required for the transportation of reduced oxygen into the cells.

Mitochondria, which live inside of the cells as bacteria-like organelles, require reduced oxygen for production of the energy carrier molecule ATP, which is used for all functions in the organism.

If antibiotics are continuously administered, they interfere with the formation of the enzyme dihydrofolate-reductase, which is required for the formation of glutathione in the liver, itself required for the transportation of reduced oxygen into the cells. The fitness of the mitochondria is a critical factor in fighting off of viral infections.

Continued intake of antibiotics that go into cells damage there the weakly protected DNA of the mitochondria, which can then no longer fulfill their functions in the immune system and in cell metabolism.

As studies on the dispensing of antibiotics in many countries show, these are continuously given to the elderly as "infection prevention".

Particulate matter particles from internal combustion engines, heating, manufacturing processes, waste incineration and forest fires which enter the organism via the lungs, impair the mitochondrial function and the immune system in the epithelial tissues of the lungs, the brain, the cardiovascular system and the gastrointestinal tract.

Particulate matter particles also form the carriers for viral, bacterial and fungible pathogens and provide its transport over longer distances.

As has been known for many years, the administration of sulfur-containing protein compounds such as Acetylcysteine,

which can be delivered via infusion or as a preventive measure orally, can promote the formation of glutathione resulting in an enhanced formation of ATP in the mitochondria. By means of it an effective therapy against the severe course of Covid-19 is can be achieved, as has been demonstrated in recent tests. To what extent Azetylcysteine is preventively and clinically given to Covid-19 patients in Europe today is not known in detail.

The course of many cases in intensive care units makes it doubtful that there is a controlled systematic dispensing of Azetylcysteine in the prevention and therapy of Covid-19. The fact that invasive ventilation (intubation), which has become the standard treatment for Covid-19, is often used far too early and in half of the cases leads to permanent damage and death, is increasingly understood today. As recent studies show, non-invasive ventilation is an effective treatment measure also in more severe cases.

In regards of the new research published last year on the treatment of Covid-19 using Acetylcysteine, which you find listed below, it cannot be explained why this effective therapy, (which I have already documented in my treatment recommendations one year ago) is not systematically used preventively and clinically in Covid-19 patients. It can be hardly believed that there are purely medical reasons not to do this.

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Felix de Fries

<http://www.ummafrapp.de/deFries/Corona/treatment.pdf>

**[HTML] [Caution about early intubation and mechanical ventilation in COVID-19](#)**

[\[HTML\] springeropen.com](#)

**[HTML] [Basing respiratory management of COVID-19 on physiological principles](#)**

[\[HTML\] atsjournals.org](#)

**[Position paper for the state-of-the-art application of respiratory support in patients with COVID-19](#)**

[\[HTML\] karger.com](#)

**[Conservative management of Covid 19 associated hypoxemia](#)**

[PDF] [ersjournals.com](#)

**Case characteristics, resource use, and outcomes of 10 021 patients with COVID-19 admitted to 920 German hospitals: an observational study**

[HTML] [thelancet.com](#)

**N-Acetylcysteine: A potential therapeutic agent for SARS-CoV-2**

[HTML] [nih.gov](#)

**Therapeutic blockade of inflammation in severe COVID-19 infection with intravenous N-acetylcysteine**

[HTML] [nih.gov](#)

**SARS-CoV-2 infection pathogenesis is related to oxidative stress as a response to aggression**

[HTML] [nih.gov](#)

**The role of glutathione in protecting against the severe inflammatory response triggered by COVID-19**

[PDF] [mdpi.com](#)

**Glutathione Supplementation as an Adjunctive Therapy in COVID-19**

[PDF] [mdpi.com](#)

**de Rosa, Herzenberg et. al. N-acetylcysteine replenishes glutathione in HIV infection**

[https://web.archive.org/web/20101105175609/http://aliveandwellsf.org/articles/derosa\\_NAC\\_GSH\\_2000.pdf](https://web.archive.org/web/20101105175609/http://aliveandwellsf.org/articles/derosa_NAC_GSH_2000.pdf)

**[HTML] Safety and efficacy of N-acetyl-cysteine for prophylaxis of ventilator-associated pneumonia: a randomized, double blind, placebo-controlled clinical trial**

[HTML] [nih.gov](#)

**Modulation of Mitochondria During Viral Infections**

[HTML] [intechopen.com](#)

**[HTML] Redox control in the pathophysiology of influenza virus infection**

[HTML] [biomedcentral.com](#)