

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

To people affected
Their doctors and caretakers
To Media

Zürich 18th October 2020

ref. Particulate Matter and Covid-19 in Germany and elsewhere

Dear contemporaries

In view of the currently rapidly increasing number of cases, the German federal government is issuing new rules for living together, such as masking requirements in entire cities and regions wherever people come together closer or longer, a limit of 10 participants for private gatherings in public spaces and of 7 people in private rooms, as well as a curfew at 11 p.m. for dining restaurants and the closure of all bars and clubs. The French government is imposing a nightly curfew between 9 p.m. and 6 a.m. in the Paris region and 8 more metropolises. In Switzerland, too, people are again called to work in the home office and the closure of schools and daycare centers is up for discussion.

A study by the University of Münster, which investigates the connection between the long-term exposure to particulate matter between 2002 and 2019 and Covid-19 or the mortality from this disease, comes to the conclusion that this is mainly visible in western Germany. Another overview from the statal Helmholtz Institute thinks that the legislation has made it possible to deal with Covid-19 in an exemplary manner, while a study on nitrogen oxide emissions from VW diesel vehicles found harmful effects for large groups of the population in Germany, which was also shown in a long-term study on cardiovascular disease in which malfunctions are mainly attributed to fine dust from road traffic.

[Long-term Exposure to Particulate Matter \(PM10\) Air Pollution: COVID-19 Cases and COVID-19 Fatality in Germany](#)

[Free access](#)

[\[HTML\] Environmental pollution and COVID-19 outbreak: insights from Germany](#)

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

[Public health impacts of excess NO_x emissions from Volkswagen diesel passenger vehicles in Germany](#)

[\[PDF\] iop.org Full View](#)

[Mutagenicity and cytotoxicity of particulate matter emitted from biodiesel-fueled engines](#)

[\[PDF\] researchgate.net](#)

[\[HTML\] Long-term exposure to ambient source-specific particulate matter and its components and incidence of cardiovascular events–The Heinz Nixdorf Recall study](#)

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

[\[HTML\] Vertical distribution of particulate matter, black carbon and ultra-fine particles in Stuttgart, Germany](#)

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

Long-term inhalation of particulate matter leads to permanent changes in the immune system's reaction to it, which then can also be measured in the case of short-term exposition, whereby its regionally determined components may lead to varying effects.

[Short-term NO₂ exposure is associated with long-chain fatty acids in prospective cohorts from Augsburg, Germany: results from an analysis of 138 metabolites and ...](#)

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

[\[PDF\] Particulate Matter and Climate Change in Bavaria \(Germany\)](#)

[\[PDF\] core.ac.uk](#)

[\[HTML\] Long-term monitoring of black carbon across Germany](#)

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

Scientists from Italy, who see a close connection between particulate matter and the spread of Covid-19, ask whether the virus is spread via fine dust particles in the outside air and not only via personal contacts indoors,

[\[HTML\] Searching for SARS-COV-2 on particulate matter: A possible early Indicator of COVID-19 epidemic recurrence](#)

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

while animal experiments with mice show how particulate matter triggers chronic inflammation in the nose and throat area.

[Airborne particulate matter induces nonallergic eosinophilic sinonasal inflammation in mice](#)

[\[PDF\] atsjournals.orgFull View](#)

The effect of particulate matter in indoor and outdoor spaces was examined more closely,

[Inflammatory health effects of indoor and outdoor particulate matter](#)

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

[\[HTML\] Particulate matter and the airway epithelium: the special case of the underground?](#)

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

[World air particulate matter: sources, distribution and health effects](#)

[\[PDF\] researchgate.net](#)

[Differing toxicity of ambient particulate matter \(PM\) in global cities](#)

[\[PDF\] core.ac.uk](#)

[The association of air pollution with congenital anomalies: An exploratory study in the northern Netherlands](#)

[\[PDF\] rug.nl](#)

[\[HTML\] Long-term exposure to particulate matter, NO₂ and the oxidative potential of particulates and diabetes prevalence in a large national health survey](#)

[HTML\] sciencedirect.com](#)

[Long-term exposure to fine particulate matter, blood pressure, and incident hypertension in Taiwanese adults](#)

[\[PDF\] nih.gov](#)

[Effects of short-and long-term exposures to particulate matter on inflammatory marker levels in the general population](#)

[\[PDF\] uzh.ch](#)

[Airborne particulate matter](#)

[PDF\] royalsocietypublishing.org](#)

[\[PDF\] Impact of tropospheric ozone and particulate matter on plant health](#)

[\[PDF\] researchgate.net](#)

[A comparison of the health effects of ambient particulate matter air pollution from five emission sources](#)

[\[PDF\] mdpi.com](#)

[\[PDF\] Assessments of gaseous and particulate matter emissions from biomass combustion and their effect on human health](#)

[\[PDF\] researchgate.net](#)

[Imperative role of particulate matter in innate immunity during RNA virus infection](#)

[PDF\] biorxiv.org](#)

and also the effects of various particulate matter components in individual locations on exhaled nitrogen oxides, oxidative stress and DNA methylation.

[HTML\] The effects of fine particulate matter constituents on exhaled nitric oxide and DNA methylation in the arginase–nitric oxide synthase pathway](#)

[HTML\] sciencedirect.com](#)

[\[HTML\] Protein oxidation and degradation caused by particulate matter](#)

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

[Taurine ameliorates particulate matter-induced emphysema by switching on mitochondrial NADH dehydrogenase genes](#)

[PDF\] pnas.org](#)Free from Publisher

[Particulate Matter Toxicity Is Nrf2 and Mitochondria Dependent: The Roles of Metals and Polycyclic Aromatic Hydrocarbons](#)

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

Vitamin D supplementation attenuates asthma development following traffic-related particulate matter exposure

[HTML\] jacionline.org](#)

Contributions of City-Specific Fine Particulate Matter (PM_{2.5}) to Differential In Vitro Oxidative Stress and Toxicity Implications between Beijing and Guangzhou

[\[PDF\] _researchgate.net](#)

[PDF] Evaluation of the potential relationship between Particulate Matter (PM) pollution and COVID-19 infection spread in Italy

[\[PDF\] guapo-air.org](#)

Whilst the role of particulate matter for the blocking of immune reactions in epithelial tissues, causing an immune deficiency towards various pathogens becomes more and more evident, the transmission of the postulated SARS-Cov2 virus on particles via the air over longer distances remains questionable.

Deposition rates of viruses and bacteria above the atmospheric boundary layer

[HTML\] nih.gov](#)

[HTML] Modelling aerosol transport and virus exposure with numerical simulations in relation to SARS-CoV-2 transmission by inhalation indoors

[HTML\] sciencedirect.com](#)

Is Particulate Matter of Air Pollution a Vector of Covid-19 Pandemic?

[\[PDF\] cell.com](#)

No SARS-CoV-2 detected in air samples (pollen and particulate matter) in Leipzig during the first spread

The reduction of particulate matter emissions during the lockdown in Indian cities has once again raised the question of what means could be used to reduce particulate matter in cities in order to improve the health of the population there.

HTML] Temporary reduction in fine particulate matter due to 'anthropogenic emissions switch-off' during COVID-19 lockdown in Indian cities

[HTML] [sciencedirect.com](https://www.sciencedirect.com)

Monitoring particulate matter in India: recent trends and future outlook

[PDF] urbanemissions.info

[PDF] Characteristics and Reducing Methods of Urban Particulate Matter

[PDF] kieae.kr

Can Green Walls Reduce Outdoor Ambient Particulate Matter, Noise Pollution and Temperature?

[PDF] mdpi.com

New carbon emission reducing technologies for Diesel Engines:

Hydra-Gen from Dynacert

<https://dynacert.com/page/hydragen>

Evaluating the efficacy of cloth facemasks in reducing particulate matter exposure

[PDF] ceh.org.in

A question that the German Federal Government, to whom the close connection between emissions of particulate matter and the blocking of immune cells in epithelial tissues must be evident since a long time from publicly available data on air pollution and its effects on health, has not asked themselves in the 9 months since the outbreak of the Covid-19 pandemic. Based on the virologist Dr. Christian Drosten, who in his video podcasts ascribed the pandemic solely to the extraordinary disease-causing properties of the new RNA-virus, he had discovered, defining the pcr-test used world-wide for its detection, they concentrated solely on curbing its transmission and returned after the exit from the lockdown to the old operating of the economy with high emissions of particulate matter.

In this way the German Chancellor, Dr. Angela Merkel, who is an active advocate for the car- and the pharmaceutical-industry, wanted to enforce tax breaks for buying new cars with gasoline and diesel engines, or hybrid vehicles, which become pure diesel or gasoline vehicles after 30 KM of course.

Preventive, immune system-supporting therapies administrated by general practitioners using anti-inflammatory substances,

nutritional advice and fitness training for population groups who have already suffered damage to the epithelial tissues of their lungs and their cardiovascular system from decades of particulate matter emissions, were no issue for her government.

As is now clear from the so-called 2nd wave, the Covid-19 pandemic cannot be contained, if effective measures in the environmental sector such as speed restrictions, retrofitting vehicles with catalytic converters and devices to improve combustion, local driving bans for vehicles that do not meet the actual standards, coordinated transport of goods in inner cities, increased building isolation, retrofitting of heating systems and shutdown of high-emitting systems are not taken.

The now implemented rules and protective measures paralyze the economy again with great costs for citizens, business and state institutions. They are bad for the health and the coexistence of millions of people across Europe, who finally have to wear masks outdoors as protection against the inhalation of particulate matter.

The consistent denying of particulate matter emissions as main cause of Covid-19 and the diseases of the lungs, the cardiovascular system and inner organs, that lead to a severe course of the disease by the German federal government and compliant media is now proving to be counterproductive for a solution of the problems.

Daily reported numbers of infections and deaths again without data on the hospitalizations and patines in intensive care units are intended to prompt us to take rapidly developed vaccines which, as we are now being told, may have limited effects, while their longer-term side effects remain unknown.

If there is a persistence or an increase in particulate matter pollution, which leads to the blockage of defense reactions in endothelial tissues of the lungs, the cardiovascular system and inner organs, different pathogens could spread disease at any time leading to serious health conditions in many people. The new laws and orders implemented now by European governments can apparently not stop diseases said to be induced solely by a new RNA virus. A vaccine against the SARS-Cov-2 virus can certainly not resolve the problem of the blockage of immune reactions in epithelial tissues by particulate matter from traffic, heating, industry and fires, that now endanger the health of millions of people.

Study Group AIDS-therapy

Felix de Fries