TRUST THE EXPERTS

CDC REPORTS ‘CLUSTER’ OF DENTAL PROFESSIONALS DIAGNOSED WITH LUNG DISEASE
March 13, 2018

...The Centers for Disease Control and Prevention has concluded that dentists are 23 times more likely to contract a rare, progressive lung disease - one that has no cure and few survive...

PROTECTING DENTAL STAFF FROM THE MOST HAZARDOUS JOB IN AMERICA
John McMahon, DDS  December 2017

...New schools of thought have developed on the importance of cleaning dental office air as part of a proper infection control regime...Dental workers breathe 11,000 litres of indoor air a day; take the time to protect yourself, your staff and your patients with clean, pure, reenergized air...

AEROSOLS AND SPLATTER IN DENTISTRY
John Molinari, PhD; Stephen K. Harrel, DDS

...Aerosols represent a route for disease transmission.....Air filters and UV can reduce aerosol contamination...

MENACE IN THE AIR
Journal of Integrated Dentistry  2016

...Dental procedures inadvertently generate aerosols, containing organisms and debris from each patient’s oral activity, and these can be harmful to everyone present in the clinic...Air filters resulted in a significant reduction of viable particles in the air...

RISK OF BACTERIAL TRANSMISSION IN DENTAL PRACTICE
Michael John - MB, Ch.B., FRPC(C)

...Bacteria capable of causing serious disease are present in the mouth and saliva of patients who show no symptoms...

IN-OFFICE AIR QUALITY CONTAMINATION:
What you don’t know WILL harm you
Mark H.E. Lin - BSc, DDS, MSc (Prosthio), FRCD©  July 2017

...As dental professionals, we are mandated to use universal precaution protocols, sterilize our instruments, and disinfect surface contaminants, but indoor air quality controls have been IGNORED. Indoor air quality control should clearly be part of infection control protocol to protect patients, staff members and professionals.
A Pilot Study of Bioaerosol Reduction Using an Air Cleaning System During Dental Procedures
School of Dentistry, Cardiff University 2010

...Hazardous bio-aerosols created during dental procedures can be significantly reduced using an air cleaning system...

Dental Aerosols: A Silent Hazard in Dentistry
International Journal of Science and Research 2016

... Air is the carrier of infection...Droplet nuclei remain suspended in the air for hours and circulate from room to room by convection currents. Two methods that target the contamination of the air are UV lights and air filters...

The Effectiveness of an Air Cleaner in Controlling Droplet/Aerosol Particle Dispersion Emitted from a Patient’s Mouth in the Indoor Environment of Dental Clinics
Department of Periodontology, Peking University, Beijing 2009

...Use of an air cleaner can prevent airborne droplets/particles from contacting DHCW's in an occupational setting...

Role of High-Efficiency Particulate Arrestor Filters in Control of Airborne Infections in Dental Clinics
Journal of Research in Dental Sciences 2015

...Air filters are very effective in reducing bio-aerosols, and hence, preventing airborne infection...

Dental Bioaerosols as an Occupational Hazard in a Dentist’s Workplace
Department of Paedodontics, Medical University of Lublin, Poland 2007

...Aerosols and splatter are contaminated with bacteria, viruses and fungi, often with blood. They can remain in air for long periods of time and transported long distances...UV light shows a very high fungicidal, viricidal and bactericidal action through destruction of DNA and protein denaturation. UV lamps are obligatory dental surgery equipment, which follows from the sanitary and epidemiological regulations...

Indoor Air Quality in a Dental Practice
University of Athens, Greece 2007

...It is essential to improve the ventilation in order to prevent the occupants from inhaling high pollutant concentrations, especially the doctors who spend most of their everyday time in these environments...
CLEANER AIR IN THE DENTAL OFFICE
Joseph Zeisler, BSc, MSc, DDS  September 2009

...An efficient air cleaner will remove particulate matter from the air – including potentially infective droplet nuclei. This reduction or complete elimination of viruses and bacteria breaks the cycle of airborne disease transmission...

STALE OFFICE AIR IS MAKING YOU LESS PRODUCTIVE
Joseph G. Allen  March 2017

...Breathing better air led to significantly better decision making performance...

WHICH JOBS ARE MOST DAMAGING TO YOUR HEALTH – DENTAL
Andy Kiersz  November 2015

...Using U.S. Dept. of Labor data from 125 million workers, 10 million employers and 974 occupations, the #1 most unhealthy job was determined to be: dentists, dental surgeons, dental laboratory technicians, dental hygienists and dental assistants. The top two reasons are exposure to contaminants and exposure to disease and infections...

DENTAL GERMAPHOBICS: WHEN PATIENTS ARE NOT ‘CRAZY’
Anne Nugent Guignon, RDH, MPH  April 2015

...Like it or not, you and everyone else is breathing air contaminated by microbes, detergents, solvents, particulates and metals. Some very progressive offices have installed clean air systems, but that is certainly not the norm...

IMPORTANT ROLE FOR STANDALONE INDOOR AIR PURIFICATION SYSTEMS
Volume 31, Number 2, Fall 2016

...Hospitals, health care institutions, and medical labs have taken proactive steps to take care of their indoor air quality and established a new school of thought on the use of standalone medical grade air purifiers in managing infectious and non-infectious airborne particulates...

IN THE AIR TONIGHT
Paul Feuerstein, DMD  January 2011

...[Since installing a Surgically Clean Air system] there has not been a full-time employee who has missed work due to a cold or similar ailment. There is a tremendous reduction in dust...
Airborne Microbial Contamination of Dental Units
School of Public Health, Shahid Beheshti University of Medical Sciences, Tehran-Iran 2008

…occupational risk of dental personnel to microbial airborne contamination has been demonstrated through the increased prevalence of respiratory infections….unfortunately, there are no standards for acceptable levels of indoor air contamination

A Scoping Review on Bio-Aerosols in Healthcare and the Dental Environment
Department of Preventative Dentistry, University of Amsterdam, The Netherlands 2017

…all aerosols can be hazardous to both patients and healthcare workers

Quantitative microbial monitoring in a dental office.
Department of Biomedical Sciences, Faculty of Medicine, Via dei Vestini, Italy 2001

…a system of air filtration can be efficacious in reducing airborne environmental contamination in a dental office

Aerosol Contamination – A Hazard to Dentists
Department of Periodontics, Yenepoya Dental College 2012

…Aerosols containing microbes (bacteria, fungi and viruses) from the oral activity of the patient are created intensively when using high speed instruments and ultrasonic scalers…

Aerosols in Dental Practice – A Neglected Infectious Vector
JSS Dental College and Hospital, JSS University, India, 2016

…Dental fraternities are highly exposed to the hazardous effects of the aerosols and splatter produced during dental procedures…

Airborne Microbial Contamination in Dental Practices
Oral Health and Dental Management in the Black Sea Countries, 2010

…This study confirms high levels of microbial air contamination during dental treatment, which represents an important source of health-care associated infections (tuberculosis, common cold, influenza, herpetic viruses infection and SARS but also bloodborne infections such as hepatitis B and C or HIV infection because blood is very often found in the aerosols)...This air contamination can be controlled by air filtration. . .

AEROSOLS
Dr. Rella Christensen

…The most common reason reported by dental clinicians for missing work is respiratory infection. . .