

feeling symptoms in April

<https://www.dailymail.co.uk/tvshowbiz/article-8612557/Alyssa-Milano-shows-SHOCKING-hair-loss-result-COVID-19-considered-long-hauler.html>

The 47-year-old actress took to Twitter on Sunday to share a video brushing her locks after a shower which resulted in her pulling out several strands
She began the video by saying: 'Hey everybody, I just wanted to show you the amount of hair that is coming out of my head as a result of COVID'
She concluded the video by lifting the entire bunch of long hairs and saying: 'One brushing, this is my hair loss from COVID-19. Wear a damn mask!'
She recently revealed that she had tested positive for COVID-19 antibodies after testing negative three times after experiencing symptoms in April
Milano said she is considered a 'long hauler' by physicians
Milano said she is going to donate her plasma for antibody research with the hopes that it could save lives

2. Hair Loss an Unexpected COVID Misery for Many

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3107958/>

Since getting COVID-19 in March, Juli Fisher, a travel nurse who was caring for COVID patients in an assisted living facility, has dealt with a long list of crippling symptoms herself. Most were ones she expected because they were in line with well-known symptoms. But one was more surprising to her when it emerged several weeks into her illness – hair loss.

3. Radiation-induced Alopecia

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3107958/>

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Anonymous 08/15/20 (Sat) 12:06:03 ID: 7608c9 (118) No.10297222 >>10297365 >>10297487 >>10297557 >>10297774 >>10298081 >>10298324 >>10298412 >>10298476 >>10298579 >>10298627 >>10298776 >>10298861 >>10299181 >>10306393 >>10339423 >>10390486

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While high doses of radiation can cause acute pericarditis, most manifestations of radiation induced heart disease are observed more than a decade after radiation therapy and include accelerated atherosclerosis, adverse myocardial remodeling, conduction abnormalities, and injury to cardiac valves [4-6]. Jul 10, 2016
www.ncbi.nlm.nih.gov/pmc/articles/PMC3144922/
Effects of Ionizing Radiation on the Heart - NCBI

- > [10295469](#) Expanding a Hypothesis
- > [10296698](#) Both Covid-19 and radiation poisoning cause coagulopathy
- > [10297137](#) Both Covid-19 and radiation poisoning cause alopecia.

Both Covid-19 and radiation poisoning cause sudden and long term heart damage.

1. Heart condition linked with COVID-19 fuels Power 5 concern about season's viability

https://www.espn.com/college-football/story/_/id/29633697/heart-condition-linked-covid-19-fuels-power-5-concern-season-viability

A rare heart condition that could be linked with the coronavirus is fueling concern among Power 5 conference

administrators about the viability of college sports this fall.

Myocarditis, inflammation of the heart muscle, has been found in at least five Big Ten Conference athletes and among several other athletes in other conferences, according to two sources with knowledge of athletes' medical care.

2. Effects of Ionizing Radiation on the Heart

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5144922/>

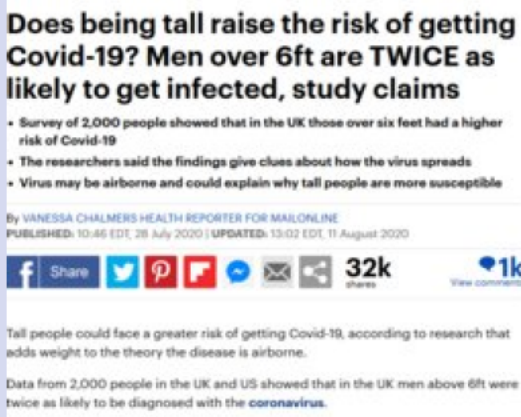
Exposure of the heart to high doses of ionizing radiation has long been known to cause cardiac injury. Although some pathology can be observed early after irradiation, the heart is considered a late responding organ with the appearance of most manifestations of radiation injury a decade or more after exposure. More recently, clinical, epidemiological, and experimental studies have provided evidence that the cardiovascular system may also be injured by ionizing radiation at low doses.

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- > [10295469](#) Expanding a Hypothesis
- > [10296698](#) Both Covid-19 and radiation poisoning cause coagulopathy
- > [10297137](#) Both Covid-19 and radiation poisoning cause alopecia
- > [10297222](#) Both Covid-19 and radiation poisoning cause myocarditis

Both Covid-19 and radiation poisoning are more severe based on gender, height and weight

1. Does being tall raise the risk of getting Covid-19? Men over 6ft are TWICE as likely to get infected, study claims

<https://www.dailymail.co.uk/news/article-8568125/Men-6ft-TWICE-likely-infected-Covid-19-study-claims.html>

Survey of 2,000 people showed that in the UK those over six feet had a higher risk of Covid-19
The researchers said the findings give clues about how the virus spreads
Virus may be airborne and could explain why tall people are more susceptible
(it's actually radiation absorption is dependent on body mass, body surface area and height)

2. Coronavirus: Obesity increases risks from Covid-19, experts say

<https://www.bbc.com/news/health-53532228>

Being obese or overweight puts you at greater risk of serious illness or death from Covid-19, experts say after examining existing studies.

The review of evidence by Public Health England found excess weight put people at greater risk of needing hospital admission or intensive care.

And the risk grew substantially as weight increased.

3. Coronavirus gender gap: Scientists try to explain why men are much more likely to die of COVID-19

<https://www.cbsnews.com/news/coronavirus-gender-gap-men-more-likely-to-die-covid-19-women/>

Researchers have been studying the effects of the coronavirus on both men and women, and they've found that men are more likely to suffer worse outcomes from the disease, and are as much as 2.4 times more likely to die.

4. Sex Difference of Radiation Response in Occupational and Accidental Exposure

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6509159/>

Data are also available for sex differences among atomic bomb survivors following acute radiation exposure. According to the Committee for the Compilation of Materials on Damage Caused by the Atomic Bombs in Hiroshima and Nagasaki (1981), 33.1–75% of the male atomic bomb survivors experienced symptoms of radiation sickness depending on their location and distance from the hypocenter; they also had a higher risk of sepsis after acute injuries. These gender-specific radiation responses are due to immunological and hormonal differences (Stricklin and Millage, 2012).

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Shocking X-ray images of Chinese man, 44, killed by coronavirus show what the disease does to victims' lungs

- X-ray images and CT scans show how the disease ravages its victims' lungs
- White patches in the lower corners of the lungs indicate presence of virus
- The white patches seen in the scans were also present with SARS and MERS
- Coronavirus symptoms: what are they and should you see a doctor?

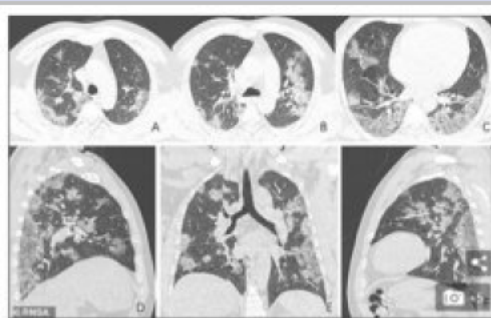
By SOPHIE TANNO FOR MAILONLINE
 PUBLISHED: 15:32 EDT, 11 March 2020 | UPDATED: 17:24 EDT, 11 March 2020

Share 24k shares 664 View comments

X-ray images and CT scans including those of a Chinese man, 44, who died from coronavirus show how the disease ravages its victims' lungs.

The scans show white patches in the lower corners of the lungs which indicates what radiologists call ground glass opacity - the partial filling of air spaces.

Such abnormalities identified by doctors in the scans of coronavirus patients are similar to those found in patients suffering from SARS and MERS.



The shocking chest X-rays (pictured) of one coronavirus victim, a 44-year-old man who worked at the Wuhan seafood market thought to be the origin of the outbreak, clearly show the ground glass opacity abnormality

The shocking chest X-ray of one coronavirus victim, a 44-year-old man who worked at the Wuhan seafood market thought to be the origin of the outbreak, clearly show the ground glass opacity abnormality.

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Lung Disease & Respiratory Health > Coronavirus > Reference >

Coronavirus and Pneumonia

Most people who get COVID-19 have mild or moderate symptoms like coughing, a fever, and shortness of breath. But some who catch the new coronavirus get severe pneumonia in both lungs. COVID-19 pneumonia is a serious illness that can be deadly.

IN THIS ARTICLE

- What is Pneumonia?
- COVID-19 Pneumonia Symptoms
- How Many People With COVID-19 Will Get Pneumonia?

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Radiation pneumonitis is inflammation of the lung caused by radiation therapy to the chest. It most commonly develops 1 to 3 months after treatment is over, but it can happen up to 6 months after treatment. Chronic pneumonitis can lead to permanent scarring of the lungs (called pulmonary fibrosis).

[www.cancer.ca - managing-side-effects - radiation-pne...](#)

Radiation pneumonitis - Canadian Cancer Society

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CNBC

POLITICS

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Trump and 3M strike deal to bring 166.5 million masks to US in three months to help coronavirus response

PUBLISHED MON, APR 6 2020 4:06 PM EDT
 UPDATED MON, APR 6 2020 7:39 PM EDT

Kevin Beevinger @KEVINWILLIAMS

- > [10295469](#) Expanding a Hypothesis
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- > [10297365](#) Both Covid-19 and radiation poisoning are more severe based on gender, height and weight

Both Covid-19 and radiation poisoning cause pneumonia and pulmonary fibrosis (permanent scarring)

1. Shocking X-ray images of Chinese man, 44, killed by coronavirus show what the disease does to victims' lungs

<https://www.dailymail.co.uk/news/article-8101383/Shocking-X-ray-images-coronavirus-does-victims-lungs.html>

X-ray images and CT scans show how the disease ravages its victims' lungs
 White patches in the lower corners of the lungs indicate presence of virus
 The white patches seen in the scans were also present with SARS and MERS

2. Coronavirus and Pneumonia

<https://www.webmd.com/lung/covid-and-pneumonia#1>

Most people who get COVID-19 have mild or moderate symptoms like coughing, a fever, and shortness of breath. But some who catch the new coronavirus get severe pneumonia in both lungs. COVID-19 pneumonia is a serious illness that can be deadly.

3. Trump and 3M strike deal to bring 166.5 million masks to US in three months to help coronavirus response

<https://www.cnbc.com/2020/04/06/coronavirus-trump-and-3m-strike-deal-to-bring-55point5-million-masks-a-month-to-us.html>

President Donald Trump said the White House and 3M “reached an agreement” that will bring more than 55 million masks to the U.S. each month, following a public dispute between the manufacturing giant and the president.

Under the terms of the new deal, 3M will deliver 166.5 million respirator masks to the U.S. “over the next couple of months,” Trump said.

The remarks at the latest daily press briefing marked a major shift in tone for the president, who last week harshly accused 3M of wrongdoing over “what they were doing with their masks.”

4. Radiation pneumonitis

<https://www.cancer.ca/en/cancer-information/diagnosis-and-treatment/managing-side-effects/radiation-pneumonitis/?region=on>

Radiation pneumonitis is inflammation of the lung caused by radiation therapy to the chest. It most commonly develops 1 to 3 months after treatment is over, but it can happen up to 6 months after treatment. Chronic pneumonitis can lead to permanent scarring of the lungs (called pulmonary fibrosis).

Causes

Radiation pneumonitis is more likely to happen when high doses of radiation are used or a large area of the lung is treated with radiation. Certain chemotherapy drugs, such as bleomycin (Blenoxane), cyclophosphamide (Procytox) and carmustine (BiCNU, BCNU), can also increase the risk of developing radiation pneumonitis if given along with radiation therapy.

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More evidence vitamin D can help against coronavirus: Study finds patients with a severe deficiency are TWICE as likely to die from COVID-19

- Patients with severe deficiency were twice as likely to experience complications
- This, the US researchers claim, includes a higher risk of dying from COVID-19
- Builds on research which linked low levels of vitamin D to a higher mortality rate
- Here's how to help people impacted by Covid-19

By JOE FRANKSTONE FOR MAILONLINE
PUBLISHED: 09:30 EDT, 8 May 2020 | UPDATED: 05:56 EDT, 13 May 2020

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More evidence has emerged which suggests COVID-19 patients with high vitamin D levels are more likely to survive the disease.

A study from the US found patients with a severe deficiency are twice as likely to experience major complications and die.

Researchers led by Northwestern University say the observational evidence is still preliminary and caution against raising the supplement aisles.

Radiation Oncology

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CLINICAL INVESTIGATION | VOLUME 12, ISSUE 3 | P113-119, JULY 01, 2019

Vitamin D Deficiency Is Associated With the Severity of Radiation-Induced Proctitis in Cancer Patients

Azar Ghobranzadeh-Moghaddam, MD + Ali Ghosseinian, MD, A. J. + Sina Hensli, MD
Published: February 11, 2019 + DOI: <https://doi.org/10.1016/j.ro.2019.02.011>

Check for updates

PainX Metrics

Purpose

Radiation-induced injury to normal tissues is a common complication of radiation therapy in cancer patients. Considering the role of vitamin D in mucosal barrier homeostasis and inflammatory responses, we investigated whether vitamin D deficiency is associated with the severity of radiation-induced acute proctitis in cancer patients.

>10295469 Expanding a Hypothesis

- >>[10296698](#) Both Covid-19 and radiation poisoning cause coagulopathy
- >>[10297137](#) Both Covid-19 and radiation poisoning cause alopecia
- >>[10297222](#) Both Covid-19 and radiation poisoning cause myocarditis
- >>[10297365](#) Both Covid-19 and radiation poisoning are more severe based on gender, height and weight
- >>[10297487](#) Both Covid-19 and radiation poisoning cause pneumonia and pulmonary fibrosis

Both Covid-19 and radiation poisoning symptoms are more severe with Vitamin D deficiencies

1. More evidence vitamin D can help against coronavirus: Study finds patients with a severe deficiency are TWICE as likely to die from COVID-19

<https://www.dailymail.co.uk/sciencetech/article-8300797/Coronavirus-patients-severe-vitamin-D-deficiency-TWICE-likely-die-COVID-19.html>

Patients with severe deficiency were twice as likely to experience complications
This, the US researchers claim, includes a higher risk of dying from COVID-19
Builds on research which linked low levels of vitamin D to a higher mortality rate

2. Vitamin D Deficiency Is Associated With the Severity of Radiation-Induced Proctitis in Cancer Patients

[https://www.redjournal.org/article/S0360-3016\(15\)00178-9/abstract](https://www.redjournal.org/article/S0360-3016(15)00178-9/abstract)

Radiation-induced injury to normal tissues is a common complication of radiation therapy in cancer patients. Considering the role of vitamin D in mucosal barrier hemostasis and inflammatory responses, we investigated whether vitamin D deficiency is associated with the severity of radiation-induced acute proctitis in cancer patients.

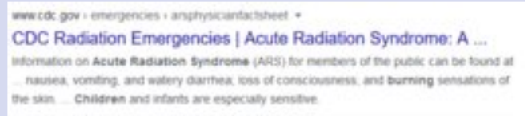
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- > [10295469](#) Expanding a Hypothesis
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- > [10297487](#) Both Covid-19 and radiation poisoning cause pneumonia and pulmonary fibrosis
- > [10297557](#) Both Covid-19 and radiation poisoning symptoms are more severe with Vitamin D deficiencies

Both Covid-19 and radiation poisoning cause rash-like radiation burns, particularly on the feet

1. COVID Toe and Other COVID-19 Skin Conditions

<https://weillcornell.org/news/covid-toe-and-other-covid-19-skin-conditions>

Dermatologists around the world have noticed an increasing number of patients presenting with an unusual rash that may be related to COVID-19: red-purple, tender or itchy bumps that develop mostly on the toes, but also on the heels and fingers. The skin findings resemble perniosis or chilblains, a rash that typically is associated with exposure to cold conditions. According to Dr. Harp, "These skin findings are typically linked to cold weather. So seeing so much of it now is very unusual. Dermatologists think it may be one of the ways the body responds to the COVID-19 virus."

Since COVID-19 is a new disease, there is very little data about it, including about COVID toe. However, physicians have observed that the majority of patients who develop COVID toes do not become severely ill from the virus.

"The majority of COVID toe patients seem to be completely asymptomatic or have only mild symptoms," reassured Dr. Harp. "These patients often recover fully at home."

2. Acute Radiation Syndrome: A Fact Sheet for Clinicians

<https://www.cdc.gov/nceh/radiation/emergencies/arsphysicianfactsheet.htm>

Cutaneous Radiation Syndrome (CRS)

The concept of cutaneous radiation syndrome (CRS) was introduced in recent years to describe the complex pathological syndrome that results from acute radiation exposure to the skin.

ARS usually will be accompanied by some skin damage. It is also possible to receive a damaging dose to the skin without symptoms of ARS, especially with acute exposures to beta radiation or X-rays. Sometimes this occurs when radioactive materials contaminate a patient's skin or clothes.

When the basal cell layer of the skin is damaged by radiation, inflammation, erythema, and dry or moist desquamation can occur. Also, hair follicles may be damaged, causing epilation. Within a few hours after irradiation, a transient and inconsistent erythema (associated with itching) can occur. Then, a latent phase may occur and last from a few days up to several weeks, when intense reddening, blistering, and ulceration of the irradiated site are visible.

In most cases, healing occurs by regenerative means; however, very large skin doses can cause permanent hair loss, damaged sebaceous and sweat glands, atrophy, fibrosis, decreased or increased skin pigmentation, and ulceration or necrosis of the exposed tissue.

[A]lthough the dose ranges provided in this document apply to most healthy adult members of the public, a great deal of variability of radiosensitivity among individuals exists, depending upon the age and condition of health of the individual at the time of exposure. Children and infants are especially sensitive.

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500x570, 50:57, [covid_diarrhea.PNG](#)) (h) (u) 503x558, 503:558, [covid_more_diarrhea.PNG](#)) (h) (u)



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Symptoms of Radiation Sickness

The most common early symptoms of radiation sickness are the same as for many other illnesses -- nausea, vomiting, and diarrhea. They can start within minutes of exposure, but they may come and go for several days. If you have these symptoms after a radiation emergency, you should seek medical help as soon as it's safe to do so.

You might also have skin damage, like a bad sunburn, or get blisters or sores. Radiation may also damage the cells that make hair, causing your hair to fall out. In some cases, hair loss might be permanent.

The symptoms can go away entirely for anywhere from a few hours to weeks. But if they come back, they're often worse.

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- > [10297557](#) Both Covid-19 and radiation poisoning symptoms are more severe with Vitamin D deficiencies
- > [10297774](#) Both Covid-19 and radiation poisoning cause rash-like radiation burns, particularly on the feet

Both Covid-19 and radiation poisoning have initial symptoms of nausea, vomiting and diarrhea

1. Mild COVID-19 Often Appears With Only Gastro Symptoms: Study

<https://www.webmd.com/lung/news/20200401/mild-covid-19-often-appears-with-only-gastro-symptoms-study#1>

When most people think of COVID-19, they imagine symptoms such as a dry cough and high fever. But new research out of China shows that a minority of cases appear with gastrointestinal symptoms only.

In about one-quarter of patients in the new study, diarrhea and other digestive symptoms were the only symptoms seen in mild COVID-19 cases, and those patients sought medical care later than those with respiratory symptoms.

"Failure to recognize these patients early and often may lead to unwitting spread of the disease among outpatients with mild illness, who remain undiagnosed and unaware of their potential to infect others," said a team from Union Hospital and Tongji Medical College in Wuhan, China, the original epicenter of the coronavirus pandemic.

2. Diarrhea is first sign of illness for some COVID-19 patients

<https://www.livescience.com/coronavirus-diarrhea-symptoms.html>

The study is not the first to report digestive symptoms as a sign of COVID-19. For example, a study posted March 18 in the same journal found that, among about 200 COVID-19 patients at three hospitals in Wuhan, China, around

50% reported at least one digestive symptom, and 18% reported diarrhea, vomiting or abdominal pain. However, that study and others have tended to focus on patients with severe illness, rather than those with mild disease.

In the new study, the researchers analyzed information from 206 patients at Union Hospital, Tongji Medical College in Wuhan, which was designated as a hospital for COVID-19 patients. To be included in the study, patients needed to have a mild illness, without difficulty breathing or low blood oxygen levels.

3. What Is Radiation Sickness?

<https://www.webmd.com/cancer/radiation-sickness-facts#1>
<https://www.webmd.com/cancer/radiation-sickness-facts#2>

Symptoms of Radiation Sickness

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- > [10295469](#) Expanding a Hypothesis
- > [10295895](#) Elysium - Official Trailer
- > [10295908](#) Elysium - Doomed to Die Scene
- > [10295919](#) Star Trek - Spock Dies

When you blood clots so rapidly you can't stop moving or you die.

Crank (2006) - Official Trailer

Professional assassin Chev Chelios learns his rival has injected him with a poison ("Chinese Shit" what else?) that will kill him if his heart rate drops.

<https://www.youtube.com/watch?v=8rvYrVTnSWw>

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- > [10295908](#) Elysium - Doomed to Die Scene
- > [10295919](#) Star Trek - Spock Dies
- > [10298187](#) Crank - Blood clots so fast you die

When the CCP and the corporations take the only heart you have.

Crank: High Voltage (2009) - Official Trailer

In this high-octane sequel, hitman Chev Chelios (Statham) launches himself on an electrifying chase through Los Angeles in pursuit of the Chinese mobster who has stolen his nearly indestructible heart.

<https://www.youtube.com/watch?v=t2koYVqwzT4>

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File (hide): [92cd8a0050e7aba...png](#) (82.92 KB, 668x617, 668:617, [covid_strokes.PNG](#)) (h) (u)

File (hide): [6ad29ffe0b8aac6...png](#) (19.08 KB, 643x199, 643:199, [ars_hemorrhaging.PNG](#)) (h) (u)

Is THIS why Covid-19 causes strokes? Scientists find the coronavirus causes 'hyper-activity' in blood-clotting cells in 'important' discovery

- University of Utah compared the blood of 82 people - half were Covid-19 patients
- Platelets, which are blood cells that clot, were more active in Covid-19 patients
- They aggregated faster - a process that leads to blood clot formation
- Scientists suggest inflammation is behind the changes in function

By VANESSA CHALMERS HEALTH REPORTER FOR MAILONLINE
PUBLISHED: 10:54 EDT, 1 July 2020 | UPDATED: 10:58 EDT, 1 July 2020



'Hyper-activity' in blood clotting cells could be the cause of strokes and heart attacks in Covid-19 patients, scientists say.

University of Utah experts made the 'important' discovery by comparing the blood of 82 people — half of whom tested positive for the coronavirus.

Platelets, blood cells that clot, were much more active in samples taken from Covid-19 patients, according to the study.

www.ncbi.nlm.nih.gov/pmc/articles/PMC5041298/
A Review of Radiation-Induced Coagulopathy and New ...
Jul 26, 2016 - Results from our recent studies have led to the novel hypothesis that radiation-induced coagulopathy (RIC) and associated hemorrhage occurring as part of the acute radiation syndrome (ARS) is a major cause of death resulting from radiation exposure in large mammals, including humans.
By Ari Kennedy - 2016 - Cited by 13 - Related articles
Abstract INTRODUCTION ... MATERIALS AND METHODS DISCUSSION

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Both Covid-19 and radiation poisoning cause strokes and hemorrhaging due to coagulopathy

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1. Is THIS why Covid-19 causes strokes? Scientists find the coronavirus causes 'hyper-activity' in blood-clotting cells in 'important' discovery

<https://www.dailymail.co.uk/news/article-8479057/Is-Covid-19-causes-strokes-coronavirus-causes-hyper-activity-blood-clotting-cells.html>

University of Utah compared the blood of 82 people - half were Covid-19 patients
Platelets, which are blood cells that clot, were more active in Covid-19 patients
They aggregated faster - a process that leads to blood clot formation
Scientists suggest inflammation is behind the changes in function

2. A Review of Radiation-Induced Coagulopathy and New Findings to Support Potential Prevention Strategies and Treatments

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5041298/>

Results from our recent studies have led to the novel hypothesis that radiation-induced coagulopathy (RIC) and associated hemorrhage occurring as part of the acute radiation syndrome (ARS) is a major cause of death resulting from radiation exposure in large mammals, including humans. This article contains information related to RIC, as well as potential strategies for the prevention and treatment of RIC. In addition, new findings are reported here on the occurrence of RIC biomarkers in humans exposed to radiation. To determine whether irradiated humans have RIC biomarkers, blood samples were obtained from radiotherapy patients who received treatment for different types of malignancies.

Blood samples from allogeneic hematopoietic cell transplantation (allo-HCT) patients obtained before, during and after irradiation indicated that exposure led to prolonged clot formation times, increased levels of thrombin-

antithrombin III (TAT) complex and increased circulating nucleosome/ histone (cNH) levels, which suggest potential coagulopathies in the allo-HCT patients. Since these allo-HCT patients received chemotherapy prior to radiotherapy, it is possible that the chemical agents could have influenced the observed results. Frozen plasma samples from radiotherapy patients with prostate, lung and breast cancer were also obtained for analyses of cNH levels.

The results indicated that some of these patients had very high cNH blood levels. Analysis of cNH levels in plasma samples from irradiated ferrets also indicated increased cNH levels compared to preirradiation baseline levels. The results from irradiated animals and some radiotherapy patients suggest the possibility that anti-histone antibodies, which block the toxic effects of elevated cNH levels in the blood, might be useful as therapeutic agents for adverse biological radiation-induced effects. The detection of increased levels of cNH in some radiotherapy patient blood samples demonstrates its potential as a biomarker for diagnosing and/or predicting the propensity for developing coagulopathies/hemorrhage, offering possible treatment options with personalized medicine therapies for cancer patients.

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Anonymous 08/15/20 (Sat) 13:47:48 ID: 7608c9 (118) No.10298412

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Coronavirus may inflict the same damage as heart attacks: Study finds disturbing signs of the infection's cardiac effects in more than 75% of survivors

- Two studies by German researchers found disturbing signs of heart damage in people who survived or died of coronavirus
- More than 75% of survivors had high levels of a protein in their blood that typically indicates someone has suffered a heart attack
- In people who died after contracting coronavirus, more than 60% had virus in their heart muscle, showing the coronavirus directly infects cardiac muscle

By NATALIE RAHHAL, ACTING US HEALTH EDITOR
PUBLISHED: 14:56 EDT, 27 July 2020 | UPDATED: 03:19 EDT, 28 July 2020

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Coronavirus may leave the heart with lasting, dangerous damage, two new studies suggest.

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Coronavirus may inflict the same damage as heart attacks: Study finds disturbing signs of the infection's cardiac effects in more than 75% of survivors

<https://www.dailymail.co.uk/health/article-8565201/Coronavirus-inflict-damage-heart-attacks-study-suggests.html>

Two studies by German researchers found disturbing signs of heart damage in people who survived or died of coronavirus

More than 75% of survivors had high levels of a protein in their blood that typically indicates someone has suffered a heart attack

In people who died after contracting coronavirus, more than 60% had virus in their heart muscle, showing the coronavirus directly infects cardiac muscle

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>>[10390486](#)

File (hide): [68f29c08343946f... .png](#) (71.06 KB, 665x559, 665:559, [covid_sense_of_smell.PNG](#)) (h) (u)

File (hide): [53221024b92bde9... .png](#) (132.81 KB, 509x605, 509:605, [ars_sense_of_smell.PNG](#)) (h) (u)

Scientists discover how Covid-19 can rob patients of their sense of smell after months of being baffled by the 'devastating' symptom

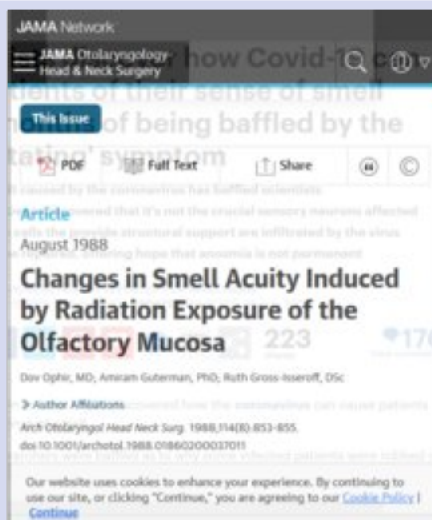
- Loss of smell caused by the coronavirus has baffled scientists
- Now, it has been discovered that it's not the crucial sensory neurons affected
- Instead, the cells the provide structural support are infiltrated by the virus
- These can be repaired, offering hope that anosmia is not permanent

By VANESSA CHALMERS, HEALTH REPORTER FOR MAILONLINE
PUBLISHED: 06:10 EDT, 28 July 2020 | UPDATED: 10:17 EDT, 28 July 2020

 223 shares 176 View comments

Scientists claim to have finally discovered how the coronavirus can cause patients to lose their sense of smell.

Until now, researchers were baffled as to why some infected patients were robbed of their senses.



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- > [10298324](#) Both Covid-19 and radiation poisoning cause strokes and hemorrhaging due to coagulopathy

Both Covid-19 and radiation poisoning cause a loss of a sense of smell

1. Scientists discover how Covid-19 can rob patients of their sense of smell after months of being baffled by the 'devastating' symptom

<https://www.dailymail.co.uk/news/article-8567523/Loss-smell-Covid-19-not-permanent-scientists-say.html>

Loss of smell caused by the coronavirus has baffled scientists
Now, it has been discovered that it's not the crucial sensory neurons affected
Instead, the cells that provide structural support are infiltrated by the virus
These can be repaired, offering hope that anosmia is not permanent

2. Changes in Smell Acuity Induced by Radiation Exposure of the Olfactory Mucosa

<https://jamanetwork.com/journals/jamaotology/article-abstract/616007>

The effects of ionizing radiation on smell acuity were assessed in 12 patients in whom the olfactory mucosa was exposed to radiation in the course of treatment for nasopharyngeal carcinoma or pituitary adenoma. Olfactory detection thresholds for two odorants (amyl acetate and eugenol) were determined before the start of radiation therapy, within a week of termination of therapy, and 1, 3, and 6 months later. The results show clearly that smell acuity is profoundly affected by therapeutic irradiation. Thresholds had increased in all 12 patients by the end of treatment and were still high one month later. Varying degrees of recovery were noted in most patients three to six months after treatment. None of the patients showed full recovery even six months after cessation of treatment. The fate of the sense of smell deserves more attention when considering the disability caused by irradiation to certain head and neck tumors.

3. Olfactory sensations produced by high-energy photon irradiation of the olfactory receptor mucosa in humans

<https://pubmed.ncbi.nlm.nih.gov/1822956/>

During irradiation of volumes that incorporate the olfactory system, a proportion of patients have complained of a pungent smell. A retrospective study was carried out to determine the prevalence of this side-effect. A questionnaire was sent to 40 patients whose treatment volumes included the olfactory region and also to a control group treated away from this region. The irradiated tumor volumes included the frontal lobe, whole brain, nasopharynx, pituitary fossa, and maxillary antrum. Of the 25 patients who replied, 60% experienced odorous symptoms during irradiation. They described the odor as unpleasant and consistent with ozone. Stimulation of olfactory receptors is considered to be caused by the radiochemical formation of ozone and free radicals in the mucus overlying the olfactory mucosa.

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THE SUN HOME NEWS ENTERTAINMENT LIFESTYLE SPORT

SIDE EFFECTS Now coronavirus survivors face losing their HEARING, doctors warn

Terrill Ann Williams Digital Health & Fitness Reporter
Jul 30 2020, 9:00 ET

Comment now

CORONAVIRUS survivors could face losing their hearing as well as their sense of taste and smell, doctors have warned.

Experts at the University of Manchester said people who have recovered from the virus have reported a deterioration in their hearing as well as conditions such as tinnitus.

Indian J Otolaryngol Head Neck Surg 2011 Apr; 63(2): 151-154
Published online 2011 Feb 23 doi: 10.1007/s12076-011-0162-9

PMCID: PMC3102171
PMD: 2268252

Otoxic Effects of Irradiation

L. Sivathar^{1,2}, S. Jeyaraj¹ and J. Datta¹

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Abstract [Go to: \[5\]](#)

In this study ototoxic effect of ionizing radiation was studied in 70 ears with maximum follow up of 6 months post radiotherapy. Patients of nasopharyngeal carcinoma and with conductive deafness pre radiotherapy were excluded from the study to eliminate mechanical obstruction that may play role in Eustachian tube dysfunction. We found that Eustachian tube dysfunction and conductive deafness were reversible where as Sensorineural hearing loss was an irreversible effect of radiotherapy. Dose of radiation was directly proportional to ototoxicity, minimum 60 Gys of total radiation dose was required to produce significant ototoxicity.

Keywords: Sensorineural hearing loss, Eustachian tube, Conductive hearing loss, Radiotherapy

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- > [10298476](#) Both Covid-19 and radiation poisoning cause a loss of a sense of smell

Both Covid-19 and radiation poisoning cause tinnitus (ringing ear)

1. Now coronavirus survivors face losing their HEARING, doctors warn

<https://www.the-sun.com/news/1229878/coronavirus-survivors-face-losing-hearing/>

Experts at the University of Manchester said people who have recovered from the virus have reported a deterioration in their hearing as well as conditions such as tinnitus.

2. Ototoxic Effects of Irradiation

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3102171/>

In this study ototoxic effect of ionizing radiation was studied in 70 ears with minimum follow up of 6 months post radiotherapy. Patients of nasopharyngeal carcinoma and with conductive deafness pre radiotherapy were excluded from the study to eliminate mechanical obstruction that may play role in Eustachian tube dysfunction. We found that Eustachian tube dysfunction and conductive deafness were reversible where as Sensorineural hearing loss was an irreversible effect of radiotherapy. Dose of radiation was directly proportional to ototoxicity, minimum 60 Gys of total radiation dose was required to produce significant ototoxicity.

Common complaints experienced by the patients after irradiation was ear heaviness, earache, decreased hearing, tinnitus and dizziness. All these were acute and transient complaints which may start as early as immediately after the radiotherapy, may appear later, might last till 6 months. Bohne et al. [1] in their study have mentioned slight pain or discomfort in the ear as well as tinnitus as symptoms of serous otitis media resulting due to ionizing radiation of the ear. They attributed tinnitus to acute changes consisting of edema of the middle ear mucosa, radiation otitis media and transient vasculitis of the vessels of the inner and middle ear. Borsanyi et al. [2] and Evans et al. [3] found that tinnitus was one of the symptoms of radiation otitis media and was an occasional, early and temporary complaint in the affected ear.

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Nearly half of COVID-19 patients at a New York City hospital developed severe kidney damage - and 82% of them had NO history of renal problems

- Researchers looked at 4,000 patients at Mount Sinai Health System in New York City from February 24 to May 30
- About 48% of coronavirus patients developed acute kidney injury, which is when they kidneys fail to filter waste, with 17% requiring dialysis
- Around 82% had no history of kidney problems and one-third of those who survived did not regain the same kidney function they had
- Some theorize that the damage occurs due to cytokine storms while others suggest the virus enters the kidneys through ACE-2 receptors

By MARY KEKAROS SENIOR HEALTH REPORTER FOR DAILYMAIL.COM
PUBLISHED: 11:08 EDT, 3 August 2020 | UPDATED: 13:28 EDT, 3 August 2020

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More evidence has emerged that the novel coronavirus attacks and severely damages the kidneys.

Radiation nephropathy is kidney injury and impairment of function caused by ionizing radiation. It may occur after irradiation of one or both kidneys, and it may result in kidney failure. Exposure to ionizing radiation can cause tissue reactions depending on the absorbed dose. (w/27/2019)

emedicine.medscape.com - article : 243766-overview +

Radiation Nephropathy: Practice Essentials, Etiology ...

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- > [10298579](#) Both Covid-19 and radiation poisoning cause a loss of a sense of smell

Both Covid-19 and radiation poisoning cause severe kidney damage, or 'radiation nephropathy'

1. Nearly half of COVID-19 patients at a New York City hospital developed severe kidney damage - and 82% of them had NO history of renal problems

<https://www.dailymail.co.uk/health/article-8588277/Nearly-half-COVID-19-patients-New-York-City-developed-severe-kidney-damage.html>

Researchers looked at 4,000 patients at Mount Sinai Health System in New York City from February 24 to May 30 About 46% of coronavirus patients developed acute kidney injury, which is when they kidneys fail to filter waste, with 17% requiring dialysis Around 82% had no history of kidney problems and one-third of those who survived did not regain the same kidney function they had Some theorize that the damage occurs due to cytokine storms while others suggest the virus enters the kidneys through ACE-2 receptors

2. Radiation Nephropathy

<https://emedicine.medscape.com/article/243766-overview>

Radiation nephropathy is kidney injury and impairment of function caused by ionizing radiation. It may occur after irradiation of one or both kidneys, and it may result in kidney failure. Exposure to ionizing radiation can cause tissue reactions depending on the absorbed dose.

Acute radiation nephropathy develops 6-12 months after irradiation, whereas chronic radiation nephropathy develops years later. Classic radiation nephropathy occurs after bilateral, local kidney irradiation and is characterized by chronic renal failure occurring months or years after renal irradiation

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File (hide): [5291a1103a98080...png](#) (310.89 KB, 832x565, 832:565, [ars_tobacco_smoke_exposure.PNG](#)) (h) (u)

MORE evidence smokers are at less risk of Covid-19: Study of 90,000 infected patients in Mexico reveals adults addicted to cigarettes are 23% LESS likely to catch the virus

- The research also showed smokers are less likely to suffer adverse outcomes
- It adds to the theory that smokers are somehow protected from the coronavirus
- International researchers have reported a low prevalence of smokers in patients
- Scientists say nicotine may be able to block the coronavirus from entering cells
- Doctors are keen to start trials of nicotine patches, but advise kicking the habit
- Here's how to help people impacted by Covid-19

By VANESSA CHALMERS HEALTH REPORTER FOR MAILONLINE
PUBLISHED: 09:17 EDT, 8 June 2020 | UPDATED: 09:27 EDT, 8 June 2020

2.7k shares

Smokers are less likely to be diagnosed with Covid-19 compared to those who have never touched a cigarette, another study has claimed.

Tobacco smoke exposure suppresses radiation-induced inflammation in the lung: a study of bronchoalveolar lavage and ultrastructural morphology in the rat

L. Ejlertsen, Y. Cai, K. Nilsson, S. Hellstén, R. Henriksson

Tobacco smoke exposure suppresses radiation-induced inflammation in the lung: a study of bronchoalveolar lavage and ultrastructural morphology in the rat. L. Ejlertsen, Y. Cai, K. Nilsson, S. Hellstén, R. Henriksson. *2020 Journal of Inflammation*. [DOI: 10.1186/s12931-020-01601-0](#)

ABSTRACT: Previous studies on patients with breast cancer, who received postoperative irradiation, displayed a markedly suppressed inflammatory response in the lung of smoking patients compared to nonsmokers. The aim of the present study was to investigate further the effect of exposure to tobacco smoke on the development of irradiation-induced pneumonitis in the rat. Four groups of animals were used: controls (C), those exposed to tobacco smoke (S), those irradiated but not exposed to smoke (IR), and those irradiated and exposed to tobacco smoke (IRS). The rats were exposed to a diluted main stream of cigarette smoke, at a concentration of about 0.6 mg/l, in a non-occlusive exposure system for 1 h/day, 5 days/week for 10 weeks. Exposure to tobacco smoke started 3 weeks before irradiation. The basal one third of both lungs was exposed to a single radiation dose of 10 Gy.

Keywords: Bronchoalveolar lavage; Irradiation; Lung; Morphology

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Both Covid-19 and radiation poisoning pneumonitis and lung damage are less likely for smokers

1. MORE evidence smokers are at less risk of Covid-19: Study of 90,000 infected patients in Mexico reveals adults addicted to cigarettes are 23% LESS likely to catch the virus

<https://www.dailymail.co.uk/news/article-8398191/MORE-evidence-smokers-risk-Covid-19-23-likely-catch-virus.html>

The research also showed smokers are less likely to suffer adverse outcomes. It adds to the theory that smokers are somehow protected from the coronavirus. International researchers have reported a low prevalence of smokers in patients. Scientists say nicotine may be able to block the coronavirus from entering cells. Doctors are keen to start trials of nicotine patches, but advise kicking the habit.

2. Tobacco smoke exposure suppresses radiation-induced inflammation in the lung: a study of bronchoalveolar lavage and ultrastructural morphology in the rat

<https://erj.ersjournals.com/content/erj/6/8/1173.full.pdf>

Tobacco smoke exposure suppresses radiation-induced inflammation in the lung: a study of bronchoalveolar lavage and ultrastructural morphology in the rat. L. Bjenner, Y. Cai, K. Nilsson, S. Hellstrom, R. Henriksson. @ERS Journals Ltd /993. ABSTRACT: Previous studies on patients with breast cancer, who received post-surgical irradiation, displayed a markedly suppressed inflammatory response in the lung of smoking patients compared to nonsmokers. The aim of the present study was to investigate further the effect of exposure to tobacco smoke on the development of irradiation-induced pneumonitis in the rat. Four groups of animals were used: controls (C); those exposed to tobacco smoke (S); those irradiated but not exposed to smoke (RNS); and those irradiated and exposed to tobacco smoke (RS). The rats were exposed to a diluted main stream of cigarette smoke, at a concentration of about 0.4 mg/l, in a non-occlusive exposure system for 1 h/day, 5 days/week for 10 weeks. Exposure to tobacco smoke started 3 weeks before irradiation. The basal one third of both lungs was exposed to a single radiation dose of 28 Gy (6 MeV photons). All animals were killed 7 weeks after irradiation. We compared findings in bronchoalveolar lavage (BAL) and tissue morphology.

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More than HALF of hospitalised Covid-19 patients develop a psychiatric disorder after being discharged, Italian study finds

- A total of 402 coronavirus patients at San Raffaele hospital in Milan were studied
- More than half had at least one psychiatric disorder a month after recovering
- It is believed physical inflammation to the brain and the psychological stress lead to the conditions developing

By JOE PINKSTONE FOR MAILONLINE
PUBLISHED: 11:40 EDT, 3 August 2020 | UPDATED: 04:51 EDT, 4 August 2020

2.3k shares | 344 comments

More than half of patients who receive hospital treatment for Covid-19 later develop a psychiatric disorder, a study reveals.

A total of 402 coronavirus patients at San Raffaele hospital in Milan were assessed as part of a research project to see the long-term impacts of the virus on the brain.

It revealed that one month after leaving hospital, a large amount of people suffered from either post-traumatic stress (PTSD), anxiety, insomnia or depression.

IJPC Indian Journal of Palliative Care

Indian J Palliat Care 2019 Jul-Sep; 24(3): 369-371
doi: 10.4103/IJPC.IJPC_216_17

PMCID: PMC688615
PMID: 32111353

Radiation-Induced Neuropsychiatric Manifestations in a Patient with Brain Metastasis: A Diagnostic and Therapeutic Challenges for Consultation-Liaison Psychiatrist

Sumati Prabha, Deepa Narasimhan,¹ Siddhi Parde,² Sandhya Ramani, and Sushrutha Kulkarni³

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Abstract

The aim of this case report is to highlight diagnostic and therapeutic challenges for consultation-liaison psychiatrist in the case of radiation-induced neuropsychiatric syndromes. We report the case of a 61-year-old man presented with neurological and psychiatric manifestations following the radiation therapy for non-small cell lung carcinoma with brain metastasis. We have briefly reviewed and discussed the risk factors, clinical features, diagnostic, therapeutic, and preventive aspect of radiation-induced neuropsychiatric manifestations.

Keywords: Acute radiation syndrome, acute stroke, delirium, non-small cell lung carcinoma

- > [10295469](#) Expanding a Hypothesis
- > [10296698](#) Both Covid-19 and radiation poisoning cause coagulopathy
- > [10297137](#) Both Covid-19 and radiation poisoning cause alopecia
- > [10297222](#) Both Covid-19 and radiation poisoning cause myocarditis
- > [10297365](#) Both Covid-19 and radiation poisoning are more severe based on gender, height and weight
- > [10297487](#) Both Covid-19 and radiation poisoning cause pneumonia and pulmonary fibrosis
- > [10297557](#) Both Covid-19 and radiation poisoning symptoms are more severe with Vitamin D deficiencies
- > [10297774](#) Both Covid-19 and radiation poisoning cause rash-like radiation burns, particularly on the feet
- > [10298081](#) Both Covid-19 and radiation poisoning have initial symptoms of nausea, vomiting and diarrhea
- > [10298324](#) Both Covid-19 and radiation poisoning cause strokes and hemorrhaging due to coagulopathy
- > [10298579](#) Both Covid-19 and radiation poisoning cause a loss of a sense of smell

>>10298627 Both Covid-19 and radiation poisoning cause severe kidney damage, or 'radiation nephropathy'
>>10298776 Both Covid-19 and radiation poisoning pneumonitis and lung damage are less likely for smokers

Both Covid-19 and radiation poisoning survivors experience psychiatric disorders

1. More than HALF of hospitalised Covid-19 patients develop a psychiatric disorder after being discharged, Italian study finds

<https://www.dailymail.co.uk/sciencetech/article-8588693/Some-COVID-19-survivors-suffer-psychiatric-disorders-Italian-study-says.html>

A total of 402 coronavirus patients at San Raffaele hospital in Milan were studied
More than half had at least one psychiatric disorder a month after recovering
It is believed physical inflammation to the brain and the psychological stress lead to the conditions developing

2. Radiation-Induced Neuropsychiatric Manifestations in a Patient with Brain Metastasis: A Diagnostic and Therapeutic Challenges for Consultation-Liaison Psychiatrist

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6069615/>

The aim of this case report is to highlight diagnostic and therapeutic challenges for consultation-liaison psychiatrist in the case of radiation-induced neuropsychiatric syndrome. We report the case of a 61-year-old man presented with neurological and psychiatric manifestations following the radiation therapy for non-small cell lung carcinoma with brain metastasis. We have briefly reviewed and discussed the risk factors, clinical features, diagnostic, therapeutic, and preventive aspect of radiation-induced neuropsychiatric manifestations.

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Anonymous 08/15/20 (Sat) 15:08:40 ID: 7608c9 (118) No.10299082 >>10299121 >>10299214 >>10300361 >>10423570 >>10423625

File (hide): [7c3917107e20bb9...png](#)
(313.71 KB, 504x620, 126:155,
[covid_kirkland_nursing_hom...PNG](#)) (h) (u)

File (hide): [80c77f7c8d496ee...png](#) (471.25 KB, 503x595, 503:595,
[covid_kirkland_nursing_hom...PNG](#)) (h) (u)



>10295469 Expanding a Hypothesis

1. (March 23, 2020) One Nursing Home, 35 Coronavirus Deaths: Inside the Kirkland Disaster

This account shows how Life Care Center management missed opportunities to launch a more aggressive response

<https://www.wsj.com/articles/one-nursing-home-35-coronavirus-deaths-inside-the-kirkland-disaster-11584982494>

2. (March 18, 2020) Coronavirus spread at Life Care Center of Kirkland for weeks, while response stalled

<https://www.seattletimes.com/seattle-news/times-watchdog/coronavirus-spread-in-a-kirkland-nursing-home-for-weeks-while-response-stalled/>

From her room inside the nursing home, Judie Shape has heard the coughs of other residents with the novel coronavirus illness down the hall and watched the ambulances come and go for weeks.

Shape, 81, had moved into Kirkland's Life Care Center on Feb. 26 for short-term care following time in the hospital for blood-clot surgery. It was terrible timing: that same day, Life Care said it notified state officials of an outbreak of severe respiratory illness, which staff had noticed was spreading for weeks.

But the outbreak, which turned out to be COVID-19, may have been circulating in the facility much longer. A Life Care official said staff noticed a respiratory outbreak by Feb. 10, and interviews and a review of 911 call logs obtained by The Seattle Times show it could have appeared even sooner.

Exacerbating the problem: Confusion inside the nursing home and among state health officials over who was responsible for testing sick patients allowed the disease to continue spreading, turning Life Care into the nation's largest source of COVID-19 fatalities.

Last month, there were 120 residents at Life Care. As of Wednesday, at least 81 have tested positive for the coronavirus and of those, 34 have died, as well as a visitor. About a fourth of the coronavirus fatalities in the U.S. have been linked to the nursing home, according to state and federal data.

Interviews with residents' family members and a review of 911 call logs obtained by The Seattle Times show a tragedy slowly unfolding. And as nursing homes nationwide prepare to protect residents from a virus that is especially dangerous for the elderly, the situation in Kirkland demonstrates a worst-case scenario and a cautionary tale for other facilities.

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Anonymous 08/15/20 (Sat) 15:14:08 ID: 7608c9 (118) No.10299121 >>10299214 >>10300361 >>10423570 >>10423625

File (hide): [71fdf2f29e96089...png](#) (439.69 KB, 508x488, 127:122, covid ny nursing home deat...PNG) (h) (u)

Blame Spreads for Nursing Home Deaths Even as N.Y. Contains Virus

With more than 6,000 nursing home residents dying of the coronavirus, a fight over whether relatives should be allowed to sue has erupted in Albany.



> [10295469](#) Expanding a Hypothesis

> [10299082](#) Articles on the Kirkland, Washington nursing home deaths

Blame Spreads for Nursing Home Deaths Even as N.Y. Contains Virus

With more than 6,000 nursing home residents dying of the coronavirus, a fight over whether relatives should be allowed to sue has erupted in Albany.

<https://www.nytimes.com/2020/07/23/nyregion/nursing-homes-deaths-cuomo.html>

As New York moves from coronavirus crisis to sustained recovery, there remains a heartbreaking fact that some are trying to explore and others seem to be trying to exploit: Nearly 6,500 people have

died of the virus in nursing homes and other long-term facilities in the state.

Republicans in Washington and elsewhere have attacked Gov. Andrew M. Cuomo for his role in, and response to, those deaths; Mr. Cuomo has returned fire, accusing his foes of politicizing a human tragedy and arguing that the blame for the number of deaths lay with infected health care workers, not his own policies.

The death toll — a figure that surpasses that of many states — has also inspired questions from Mr. Cuomo's fellow Democrats, who rule the State Legislature and have scheduled hearings on the issue next month.

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Anonymous 08/15/20 (Sat) 15:22:50 ID: 7608c9 (118) No.10299181

> [10295469](#) Expanding a Hypothesis

- > [10296698](#) Both Covid-19 and radiation poisoning cause coagulopathy
- > [10297137](#) Both Covid-19 and radiation poisoning cause alopecia
- > [10297222](#) Both Covid-19 and radiation poisoning cause myocarditis
- > [10297365](#) Both Covid-19 and radiation poisoning are more severe based on gender, height and weight
- > [10297487](#) Both Covid-19 and radiation poisoning cause pneumonia and pulmonary fibrosis
- > [10297557](#) Both Covid-19 and radiation poisoning symptoms are more severe with Vitamin D deficiencies
- > [10297774](#) Both Covid-19 and radiation poisoning cause rash-like radiation burns, particularly on the feet
- > [10298081](#) Both Covid-19 and radiation poisoning have initial symptoms of nausea, vomiting and diarrhea
- > [10298324](#) Both Covid-19 and radiation poisoning cause strokes and hemorrhaging due to coagulopathy
- > [10298476](#) Both Covid-19 and radiation poisoning cause a loss of a sense of smell
- > [10298579](#) Both Covid-19 and radiation poisoning cause tinnitus (ringing ear)
- > [10298627](#) Both Covid-19 and radiation poisoning cause severe kidney damage, or 'radiation nephropathy'
- > [10298776](#) Both Covid-19 and radiation poisoning pneumonitis and lung damage are less likely for smokers
- > [10298861](#) Both Covid-19 and radiation poisoning survivors experience psychiatric disorders

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Anonymous 08/15/20 (Sat) 15:26:56 ID: 7608c9 (118) No.10299214 >>[10300361](#) >>[10423570](#) >>[10423625](#)

YouTube embed. Click thumbnail to play.

[pop]



- > [10295469](#) Expanding a Hypothesis
- > [10299082](#) Articles on the Kirkland, Washington nursing home deaths
- >>[10299121](#) Blame Spreads for Nursing Home Deaths Even as N.Y. Contains Virus

Everybody, including governors, are scrambling for both state and federal blanket immunity for their potential faulty assumptions and bad decisions.

"Some nursing homes are seeking immunity from pandemic lawsuits"

<https://www.youtube.com/watch?v=Ch4AX6L6oHo>

Six groups representing California nursing homes are petitioning Governor Gavin Newsom for immunity from pandemic-related lawsuits. At least 15 states have passed laws offering long-term care facilities some legal protection after several outbreaks and thousands of deaths were traced back to nursing homes around the country. Jonathan Vigliotti shares startling information uncovered by CBS News about the level of infection prevention in some of the facilities.

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Anonymous 08/15/20 (Sat) 15:43:10 ID: 7608c9 (118) No.10299342 >>[10299550](#) >>[10299835](#) >>[10299848](#) >>[10300686](#)

>>[10300741](#) >>[10300862](#)

File (hide): [4145a7b1bb1ae4e...pdf](#) (6.99 MB, [us_nursing_homes.pdf](#)) (h) (u)



>[10295469](#) Expanding a Hypothesis

Attached is a list of US nursing homes with geocoded addresses. These tend to be approximate and sometimes they can be significantly incorrect, as when Post Office boxes are used as addresses. Use your own discernment. These are provided here for academic and research purposes only.

1. Medicare.gov Nursing Home Compare Database

<https://www.medicare.gov/nursinghomecompare>
<https://data.medicare.gov/data/nursing-home-compare>
<https://www.medicare.gov/nursinghomecompare/Data/About.html>

2. The US Census provides a free batch geocoding service . Batch sizes are limited, but number of batches are not.

<https://geocoding.geo.census.gov/>

3. For address that the Census cannot successfully geocode, you can fallback to Google Earth or Google Maps Platform.

<https://developers.google.com/maps/documentation>

Worst case scenario it will cost \$5 per 1,000 addresses.

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Anonymous 08/15/20 (Sat) 16:16:42 ID: 7608c9 (118) No.10299550 >>[10299835](#) >>[10299848](#) >>[10300686](#) >>[10300741](#)
>>[10300862](#)

File (hide): [3787b27bcd3542f...pdf](#) (5.22 MB, [us_hospitals.pdf](#)) (h) (u)



- > [10295469](#) Expanding a Hypothesis
- > [10299342](#) US Nursing Home geocoded dataset

Attached is a list of US hospitals with geocoded addresses. Geocoded addresses tend to be approximate and sometimes they can be significantly incorrect, as when Post Office boxes are used as addresses or in rural areas in general.

There are different kinds of hospitals - civilian, military, for-profit, non-profit, acute care, psychiatric, long-term care - and some in the list are shown as open for business and others are shown as closed. If you plan to use this data, you will bear the responsibility to learn enough about it to use it correctly.

Use your own discernment. These are provided here for academic and research purposes only.

1. Department of Homeland Security US Hospital database
<https://catalog.data.gov/dataset/hospitals-dcdfc>
<https://hifid-geoplatform.opendata.arcgis.com/datasets/hospitals/data>

2. The US Census provides a free batch geocoding service . Batch sizes are limited, but number of batches are not.

<https://geocoding.geo.census.gov/>

3. For addresses that the Census cannot successfully geocode, you can fallback to Google Earth or Google Maps Platform.

<https://developers.google.com/maps/documentation>

Worst case scenario it will cost \$5 per 1,000 addresses.

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Anonymous 08/15/20 (Sat) 16:52:52 ID: 7608c9 (118) No.10299835 >>[10299848](#) >>[10300686](#) >>[10300741](#) >>[10300862](#)
>>[10308576](#) >>[10311252](#) >>[10311278](#) >>[10311652](#) >>[10316066](#) >>[10316340](#) >>[10328691](#) >>[10328762](#)

File (hide): [822fb03fcddd6b...pdf](#) (5.72 MB, [us weekly covid deaths by ...pdf](#)) (h) (u)



- > [10295469](#) Expanding a Hypothesis
- > [10299342](#) US Nursing Home geocoded dataset
- > [10299550](#) US Hospital geocoded dataset

Attached US death counts attributed to the Coronavirus by week, by state and county since tracking began in late January 2020. The data run up until about a week ago. The first and last weekly data columns represent partial weeks. All others represent seven day periods.

More current data can be downloaded at the following site as either discrete or cumulative (running total) datasets.

1. US Coronavirus Cases and Deaths Track COVID-19 data daily by state and county

<https://usafacts.org/visualizations/coronavirus-covid-19-spread-map/>

2. The dataset includes a column for 2019 county populations. County population is important if you wish to view Covid-19 data because it can be used to normalize the data as a denominator - transforming the county death counts into death rates that can be better compared among one another.

<https://usafacts.org/>

3. Each of these three datasets include a column for "Combo FIPS". These are 5-digit character fields that are composed of a two-digit state FIPS concatenated to a three-digit county FIPS code. US protectorates weren't in focus for the analysis being done. They could have been dropped from any, all or none of the datasets.

4. Even after summing the daily data into one-week periods, there were too many data columns to fit on one page. Pay close attention to the structure of data attachment. The left columns headers repeat and the data column headers change halfway through the document to cover different date ranges. It's a response to what's possible to deliver here.

If you don't understand what all of that means, it's best to leave the data alone and focus on reading.

Use your own discernment. These data are provided here for academic and research purposes only.

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Anonymous 08/15/20 (Sat) 16:54:47 ID: 7608c9 (118) No.10299848 >>10300686 >>10300741 >>10300862

> [10295469](#) Expanding a Hypothesis

> [10299342](#) US Nursing Home geocoded dataset

> [10299550](#) US Hospital geocoded dataset

> [10299835](#) US weekly deaths attributed to Covid-19 by county

A summary of the datasets so far.

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Anonymous 08/15/20 (Sat) 17:46:17 ID: 7608c9 (118) No.10300361 >>10423570 >>10423625

File (hide): [3c599f87e778bdf... .png](#) (254.6 KB, 502x613, 502:613, [half of covid deaths.png](#)) (h) (u)



> [10295469](#) Expanding a Hypothesis

> [10299082](#) Kirkland, Washington nursing home deaths

> [10299121](#) Blame Spreads for Nursing Home Deaths

> [10299214](#) Everybody is running from potential liability

Almost half of US COVID-19 deaths are linked to nursing homes

<https://nypost.com/2020/06/27/almost-half-of-us-covid-19-deaths-are-linked-to-nursing-homes/>

Nursing homes are tied to nearly half of the 124,000 fatalities from the coronavirus in the US, according to a troubling new analysis of data from 12,000 senior facilities.

Eleven percent of people killed by the virus died in nursing homes or long-term-care centers, but the facilities are linked to many more COVID-19 fatalities — more than 54,000, or 43 percent of the national toll when

accounting for workers who contracted the disease at the facilities, according to a New York Times database.

In at least 24 states, the majority of deaths were nursing-home-related. New Hampshire recorded the largest percentage of nursing-home COVID-19 deaths, with 80 percent, or 293, of the state's fatalities coming from the facilities. Rhode Island and Minnesota followed, each with 77 percent, according to the database, which includes stats from the facilities, along with local, state and federal governments.

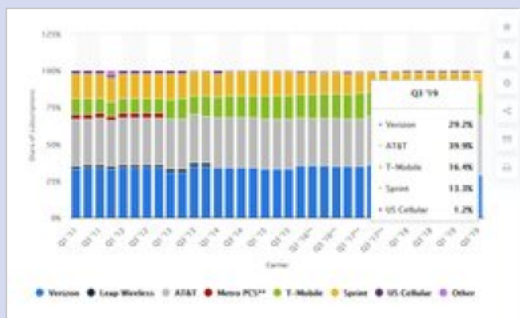
The data also show the death rate is a staggering 17 percent among infected nursing-home patients, compared

with 5 percent nationwide.

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Anonymous 08/15/20 (Sat) 17:55:38 ID: 7608c9 (118) No.10300454 >>10423679 >>10423721

File (hide): abf15216b359aaa...png (37.04 KB, 783x472, 783:472, cellular_companies.png) (h) (u)



>10295469 Expanding a Hypothesis

ATT is the largest cellular phone provider in the US. The consumer radiation companies within the US include cellular service providers, home, business and public space Wi-Fi providers (including those wiring office buildings, nursing homes, schools, colleges and sporting arenas) and satellite providers.

But if we select the largest cellular subscription provider, it's currently ATT. These values could vary by 4G and 5G and 5G 1mm services, but it's a place to start.

Wireless subscriptions market share by carrier in the U.S. from 1st quarter 2011 to 3rd quarter 2019

<https://www.statista.com/statistics/199359/market-share-of-wireless-carriers-in-the-us-by-subscriptions/>

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Anonymous 08/15/20 (Sat) 18:03:49 ID: 7608c9 (118) No.10300583 >>10300686 >>10300741 >>10300862 >>10308576

>>10311252 >>10311278 >>10311652 >>10316066 >>10316340 >>10328691 >>10328762

File (hide): [644872472fbce4b... .png](#) (669.78 KB, 1026x625, 1026:625, partial att us rollout.PNG) (h) (u)



>10295469

ATT took down the page linked below recently. It is formatted irregularly and imprecisely. In general though it provides a roadmap for the ATT 5G national rollout.

The dates are suspect for precision as they likely do not always turn on all cell towers in a given geography on the same day. And then the boundary definition of those locations is not precisely defined.

But we know what counties these cities are in, even when the county isn't named. Some cities cross into several counties. Feel free to make your own decisions on how that should work on a case by case basis.

AT&T Continues to Build 5G on the Nation's Best Wireless Network

https://about.att.com/newsroom/2020/5g_announcements/ (removed)

<http://archive.is/7efoG>

http://webcache.googleusercontent.com/search?q=cache:https://about.att.com/newsroom/2020/5g_announcements.html

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Anonymous 08/15/20 (Sat) 18:11:44 ID: 7608c9 (118) No.10300686 >>10300741 >>10300862 >>10308576 >>10311252 >>10311278 >>10311652 >>10316066 >>10316340 >>10328691 >>10328762

File (hide): [e9949c05aabe3d1...pdf](#) (337.51 KB, [att_5g_rollout_imprecise.pdf](#)) (h) (u)



- > [10295469](#) Expanding a Hypothesis
- > [10300583](#) ATT 5G rollout by city and county by type of 5G (imprecise, archived)

- > [10299848](#) A summary of the datasets so far
- > [10299342](#) US Nursing Home geocoded dataset
- > [10299550](#) US Hospital geocoded dataset
- > [10299835](#) US weekly deaths attributed to Covid-19 by county

This database is being provided sooner than I had planned as the bots have arrived.

If I don't make it, carry on.

Attached is a best guess for the imprecise ATT rollout previously summarized on their website newsroom page. Think of these as really rough estimates in some cases.

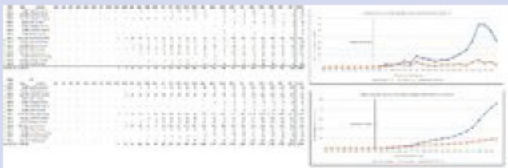
For cities mentioned that cross into several counties, in general, the additional counties were added but segmented so they could be included or excluded based on analyst discretion later.

Use your own discernment. These data are provided here for academic and research purposes only.

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Anonymous 08/15/20 (Sat) 18:17:20 ID: 7608c9 (118) No.10300741 >>10300862

File (hide): [25cb4beecfe9c6c...png](#) (154.17 KB, 2663x861, 2663:861, [arizona_teaser.png](#)) (h) (u)



- > [10295469](#) Expanding a Hypothesis
- > [10300583](#) ATT 5G rollout by city and county by type of 5G (imprecise, archived)
- > [10299848](#) A summary of the datasets so far
- > [10299342](#) US Nursing Home geocoded dataset
- > [10299550](#) US Hospital geocoded dataset

>>[10299835](#) US weekly deaths attributed to Covid-19 by county

>>[10300686](#) ATT 5G, 5G DSS and 5G+ national rollout summary dataset

In case the thread fills up over night, this is what is easily possible with the datasets. Much, much more is possible.

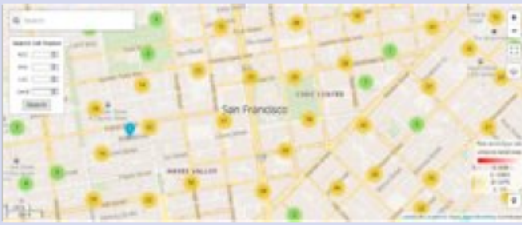
Tread lightly on trying to establish causality with these datasets. These are for educational and research purposes only, but are interesting for analysis and discussion.

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Anonymous 08/15/20 (Sat) 18:31:19 ID: 7608c9 (118) No.10300862

File (hide): [07bd11d42ab9588...png](#) (617.92 KB, 1172x485, 1172:485, [open_cell_id.PNG](#)) (h) (u)

>[10295469](#) Expanding a Hypothesis



- >>[10300583](#) ATT 5G rollout by city and county by type of 5G (imprecise, archived)
- >>[10299848](#) A summary of the datasets so far
- >>[10299342](#) US Nursing Home geocoded dataset
- >>[10299550](#) US Hospital geocoded dataset
- >>[10299835](#) US weekly deaths attributed to Covid-19 by county
- >>[10300686](#) ATT 5G, 5G DSS and 5G+ national rollout summary

dataset

>>[10300741](#) Arizona analysis teaser

OpenCellID describes itself as the world's largest open database of cell towers. The data is insanely helpful.

Download the 1 gigabyte dataset as soon as you can because you may have to finish this yourselves.

<https://opencellid.org>

<https://opencellid.org/downloads.php>

If you are curious when any particular cell provider was broadcasting a signal that reached your home, your office, any given hospital or nursing home, this open database could be a good starting point.

By using any individual or set of geolocation latitudes and longitudes, you can do a "spatial join" and find intersections of places and cellular provider signals and over time.

Not everyone will understand the significance of what you have here, but hopefully many will in time.

Good luck.

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Anonymous 08/15/20 (Sat) 18:36:13 ID: 7608c9 (118) No.10300909

YouTube embed. Click thumbnail to play.

[\[pop\]](#)

>>[10295469](#) Expanding a Hypothesis



"All wings report in"

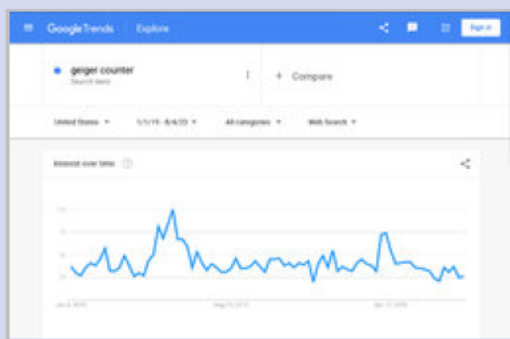
<https://www.youtube.com/watch?v=uJmdeg4eqmU>

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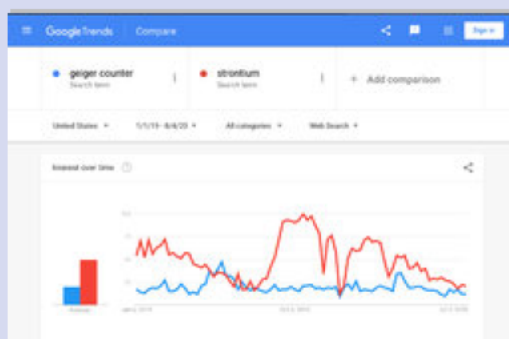
Anonymous 08/15/20 (Sat) 19:00:27 ID: 7608c9 (118) No.10301109 >>[10306532](#) >>[10306610](#) >>[10382110](#) >>[10382184](#)

File (hide): [5a4d59c80c34d60...jpg](#) (398.92 KB, 2048x1331, 2048:1331, [geiger_1.JPG](#)) (h) (u)

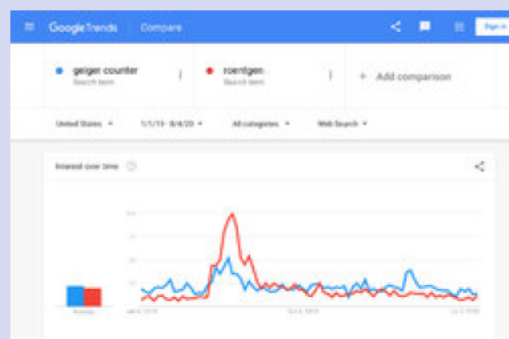
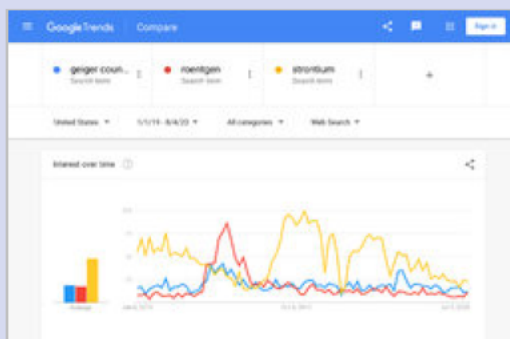
File (hide): [e44f6738312f410...jpg](#) (472.53 KB, 2048x1335, 2048:1335, [geiger_2.JPG](#)) (h) (u)



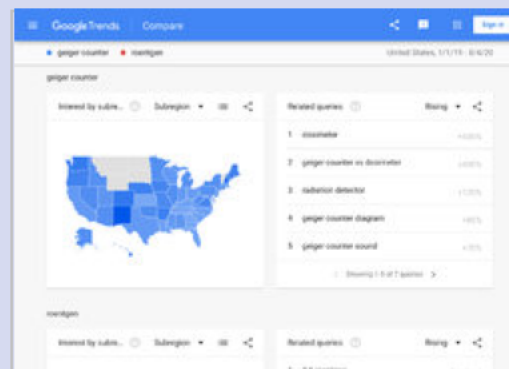
File (hide): [c06ddfdb2bca14...](#).jpg (498.27 KB, 2048x1330, 1024:665, [geiger_3.JPG](#)) (h) (u)



File (hide): [e28d3ffed79466b...](#).jpg (427.71 KB, 2048x1327, 2048:1327, [geiger_4.JPG](#)) (h) (u)



File (hide): [db7529835abc121...](#).jpg (488.44 KB, 2048x1457, 2048:1457, [geiger_5.JPG](#)) (h) (u)



[>10295469](#) Expanding a Hypothesis

Geiger Counter search term on Google Trends over time.

The key aspect here is it spiked in Summer 2019 and it spiked from New Mexico.

Several days after I grabbed these and socialized some related research, Google wiped out the spike for "geiger counter", but not for the other terms in the screen grabs shown here.

Two of the US Department of Energy weapons labs - Sandia and Los Alamos - are in New Mexico. These two labs make up a good percentage of the advanced degrees in the small state of New Mexico. It ranks 17th in the country for advanced degrees largely because of these labs.

They are exactly the kind of people that either the US military or the latest coup plotters would contact if a radiation event was potentially going to occur.

Do you know who had a ranch roughly equidistant between Sandia and Los Alamos, using the back road?

Jeffrey Epstein.

Just weeks after this spike in the search for "geiger counter", largely from New Mexico, the Wuhan flu is thought to have broken out in China as early as August or September 2019.

https://en.wikipedia.org/wiki/List_of_U.S._states_and_territories_by_educational_attainment

<https://www.sandia.gov/>

<https://www.lanl.gov/>

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Anonymous 08/15/20 (Sat) 19:10:09 ID: 7608c9 (118) No.10301190 >>10306532 >>10306610 >>10382110 >>10382184
File (hide): [7772e271ecafb8d... .png](#) (783.29 KB, 1003x823, 1003:823, [geiger_counter_geiger_tube.png](#)) (h) (u)



>10295469 Expanding a Hypothesis

This is a standard geiger counter and geiger tube.

I have a hunch that many Fortune 500 companies hired scientists around the country to measure their office building radiation levels. Both for a background reading prior to the 5G rollout and for impact afterwards.

If you saw anything that looked like this in 2019 or 2020 at work, near a window and facing cellular emitters on opposing buildings or nearby cell towers, then there are good odds your employer knows something you don't.

And they never shared the report.

Do you know what they all did do though? They all demanded lockdowns, work from home, mask hysteria and... legal immunity at both the state and federal levels.

Geiger Counter

http://nuclearconnect.org/know-nuclear/science/radiation-detection/attachment/geiger_counter

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Anonymous 08/16/20 (Sun) 09:35:12 ID: 7608c9 (118) No.10306393 >>10339423 >>10390486
File (hide): [89d103efad7a409... .png](#) (84.01 KB, 659x577, 659:577, [covid_diabetes_fat.PNG](#)) (h) (u)

File (hide): [3a6b59fc881e5db... .png](#) (49.13 KB, 767x571, 767:571, [ars_diabetes_fat_1.PNG](#)) (h) (u)

Nearly 40% of people who died of COVID-19 in 'diabetes belt' states like Alabama and Louisiana had the metabolic condition

- CDC analysis has found that nearly 40% of people who died of coronavirus in at least 15 states had diabetes
- A separate Reuters analysis found similarly high rates of diabetes among COVID-19 victims in 12 states - mostly in the South - and Washington, DC
- Many of these states, including North Carolina, Alabama and Mississippi fall in what the CDC calls the 'diabetes belt' of the US
- Job losses are leaving diabetics unable to afford insulin - but going back to work means potential coronavirus exposure for the at-risk group
- Coronavirus thrives in blood rich in sugar, like that of diabetics who cannot properly process glucose
- Doctors warn coronavirus itself may trigger a surge of new diabetes cases

By REUTERS and NATALIE BAHAL, ACTING US HEALTH EDITOR
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Published online 2012 Aug 23. doi: 10.1093/ajph/102.12.2040.6

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PMID: 22921982

Abdominal radiation and diabetes: one more piece in the puzzle

Sees, C. Offhaus, and Charles A. Sklar

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The publisher's final edited version of this article is available at [Latent Diabetes](#)
See the article "Diabetes, dose to the testes, and risk of diabetes mellitus in childhood cancer survivors, a retrospective cohort study," in [Latent Diabetes](#), volume 13 on page 962.
[See other articles in PMC that cite the published article.](#)

In 1995, Circle Treatment and colleagues¹ noted that a young adult who had been treated with abdominal radiation during early childhood developed diabetes 20 years later. This observation prompted them to review records of 121 nephroblastoma (Wilms' tumor) survivors who had been similarly treated. They

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