

American Thinker

June 13, 2023

The Nuclear Theory You Never Knew Was Nonsense

By [John Dale Dunn](#)

Steve Milloy, long-time editor and founder of [JunkScience.com](#), announced an explosive exposé this month in an extended [article](#). Government and private scientists in radiation safety have been attempting to cover up a pattern of misconduct and hijack the [Health Physics Society](#), a professional organization of radiation safety experts and officials, to take down the society's series of twenty-two videos featuring Dr. Ed Calabrese, which exposes a longtime scam in radiation safety matters.

The issue is [Linear No Threshold](#) Toxicology — LNT for short, also called the "one hit" theory of toxic radiation genetic mutation. These bad actors have also conspired to censor and silence Calabrese, a prominent toxicologist and the subject of the video series, who did the investigation that exposed the lies used to promote LNT during the '40s and '50s by the influential Hermann Muller, awarded the 1946 Nobel Prize in Physiology or Medicine for what Calabrese has demonstrated is a pack of lies, creating the LNT scam that is with us today.

Milloy says:

JunkScience.com is presenting for the first time emails uncovered via the Freedom of Information Act that expose the inner workings of a little-known bureaucracy dedicated to keeping in place the so-called "linear non-threshold model" (LNT). The LNT is used by regulatory agencies to set permitted exposure standards for radiation.

In 2018, I was asked to submit a paper and make a presentation on the fraud of LNT to a joint meeting of the [American Nuclear Society](#) (ANS) and the [Health Physics Society](#) (HPS) on low-level radiation hazards and risk management. I was asked because the organizers of the meeting knew that I was critical of LNT radiation biophysics — I thought it was a crock.

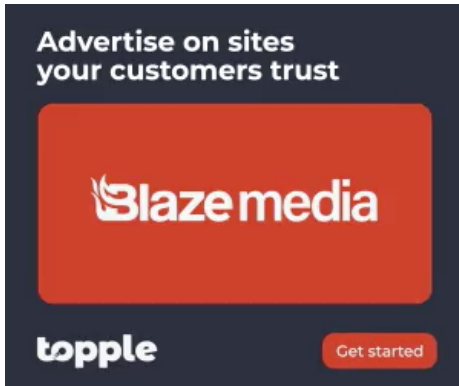
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LNT says there is no safe level of radiation exposure, but obviously, the better rule is the rule of Paracelsus: "All things are *poison* and nothing is without *poison*; only the dose makes that a thing is no *poison*." (The dose makes the poison.) No

threshold of LNT throws that maxim out the window.

My negative attitude about LNT was nurtured by a twenty-plus-year interest in the work of Ed Calabrese, U. Mass Amherst, reigning expert on low-level radiation hazards and the [theory](#) of heresies that asserts a tri-phasic effect of exposure of all kinds — 1) a no effect level, 2) a beneficial effect at low exposure levels, and 3) a toxic effect at higher levels of exposure. My medical experience with drug effects shows that same hermetic diphasic effect — drugs have a sweet spot between no effect and toxic effect.



I prepared my papers, [short](#) and [long](#), for the meeting, favorably referencing Dr. Calabrese and Dr. John Carderelli, president of HPS. I am sure Carderelli was influential in organizing the anti-LNT meeting, and he and HPS membership were committed to discarding the LNT model because of its detrimental regulatory impact on nuclear power development and utilization.

Hormesis is a concept that flies in the face of the LNT/"one hit" radiation risk theory, planted and promoted by Muller and his acolytes, that there is no safe level of radiation and that any exposure to radiation puts people at risk. Muller's advocacy is that any radiation exposure — one hit of an alpha, beta, or gamma — can and will cause cancer because they cause mutations, according to Muller's fruit fly studies. The critical part of the video series is Calabrese's exposure of Muller's lies about his fruit fly research that resulted in his Nobel Prize.

Cancer caused by genetic mutations induced by one hit of radiative energy, and the related theory of one hit toxicology, is just plain bad science designed to promote regulatory hyperactivity — create a scare. Consider LNT claims when ambient (environmental) radiation is in the soil, the water, and the air. It is coming at us from the universe as cosmic rays. Every person, animal, plant is constantly exposed to radiation. Obviously, there must be a safe level. And combine that with the phenomenon of hormesis, and it is clear that a low level of exposure to radiation is beneficial.



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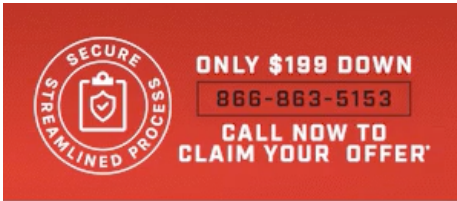
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Hermann Muller's one hit/no safe level theory doesn't follow the evidence, but it does achieve Mencken's description of practical politics: "The whole aim of practical politics is to keep the populace alarmed (and hence clamorous to be led to safety) by an endless series of hobgoblins, most of them imaginary."

The 2018 meeting was positive about pushback on LNT — enough that I was asked to participate in an extra panel on the last day to consider how to alert the public that LNT is wrong and we need to reset public policy on radiation risk management. The LNT proponents, meanwhile, were apoplectic.



This year, the HPS put together [twenty-two videos](#) explaining Calabrese's work and concepts, including his investigation of how Dr. Muller's misconduct resulted in adoption of LNT radiation biophysics and the resultant public policy decisions made since. The videos are compelling because Ed Calabrese is a living and breathing monument to good science and professional integrity. Dr. Calabrese asserts:

I have never seen anything like this in my nearly 50 years in the field. ... The documentary tells a powerful story that exposes numerous critical errors, profound bias for influential scientific leaders and organizations, and scientific misconduct at the highest levels in this country. The entire series is based on 14 hours of interviews with me, and I had to provide documentation for all my statements, many of which are incorporated into the documentary. I hope this documentary will take center stage in this international re-evaluation process and help lead to substantial change in cancer risk assessment.

The fallout (that's not radiation fallout, but political fallout) of the 2018 Pasco meeting on low-level radiation risk and the recent Health Physics Society decision to do the Calabrese video series debunking LNT has been an organized effort by mostly government-affiliated members of the society to try to stack the Board of Directors of the HPS because the election participation rate is very low.

The efforts made by government-employed or funded actors and others committed to LNT are documented in detail by the Milloy exposé. He has the emails. He published them with the names and then described them — what their positions are and how they are participating in the takeover.

The perps' goal is to remove anti-LNT members from leadership of the Health Physics Society and crush Calabrese. They represent the army of leftist environmentalists who dominate public radiation safety science and are funded by government agencies with a political agenda. This is not radiation biophysics in the public interest.

Ike Eisenhower warned us in his farewell speech: "We must also be alert to the equal and opposite danger that public policy could itself become the captive of scientific-technological elite." And Angelo Codevilla eloquently described the dangers of an army of unelected "experts" controlling an administrative state tyranny.

John Dale Dunn, M.D., J.D. is a retired emergency physician/inactive attorney/consultant in Brownwood, Texas.



Image via [Pxfuel](#).

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Kerry M Eberly 4 hours ago

I've been a nuclear pharmacist for 20 years after 20 years of traditional practice. I can validate the good Dr. Dunn's premise that there is an overreaction to radiation exposure. I have had multiple individuals from pharmacy inspectors to IT installers to colleagues that would not enter the restricted area of the nuclear pharmacy because we had area monitors beeping away to natural background radiation levels. If highly educated people are terrified, we certainly are not educating laypeople about the dangers of radiation.

LNT is easy to monitor so it is used but what is the safe upper level in hormesis? My hands take the brunt of my exposure as I keep my body behind adequate shielding while I handle -with tools- the highly concentrated radioactive drugs I dispense. My fingernails seem to grow more rapidly than before my radiation work and small injuries to my hands heal very rapidly. Is it hormesis? Probably.

Biologists: "We live in a sea of bacteria, fungi and viruses."

Chemists: "We live in an ocean of chemicals in our daily lives."

Physicists: "Without radioactive materials and radiation, the Universe, meaning everything, does not exist."

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David Richter 1 hour ago

May I ask if this means that nuclear war should not be so feared?

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Mark Glenn 17 minutes ago

I enjoy driving a Mazda 3. Mazda is a Hiroshima based corporation. They are reputed to have excellent engineers, perhaps evidence that two heads are better than one! :)

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Joe Strader 1 hour ago

Nuclear war should be feared, but the aftermath may not be universally fatal as some predict. While many of those downwind from Chernobyl were affected, not all were.

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David Richter 21 minutes ago

Seems our leaders are moving toward the 6th trumpet. 1/3 of the world population is about 2 billion people who will be departing. Those who remain will experience first hand the aftermath.

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Kirk McDonald II 2 hours ago

Thank you for the thoughtful response. I am very new to this issue, but as a lay person, very open to learning.

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Donn Reeves 3 hours ago

Awfully sad we are discovering more and more the very people in medicine and science who were always held to a higher standard seem to be more corrupt than we ever imagined. Only difference here is the ego (the need to be "published") part is just as strong as the money part. After Covid who would ever trust the medical and science industries like we previously did?

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David Richter 1 hour ago

COVID response revealed just how many physicians did not have the moral integrity to resist the forced jabs. The pay was too important to lose.

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Donn Reeves 1 hour ago

Just remarkable how 95% of physicians were all in on the jab. My own GP, a young woman in her 30's never questioned it. She had at least 4 jabs herself. Last time I was in she was out for a week -- recovering from Covid. Go figure.

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Joe Strader 1 hour ago

I had one particular doctor that was all in. He had done research in the field and thought the mRNA was a viable track for developing vaccines. A year later, he was telling people that they probably should not get them. Not everyone was closed minded.

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Donn Reeves 21 minutes ago

Good for him. Yes, thankfully not everyone.

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Susan Cook 2 hours ago

It was a real eye opener for me during my Ph.D. days. It's why I left the program and am working on my book on "Reality Theory: A Philosophical Perspective"



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George Daddis 17 minutes ago

To me the wider problem is that LNT has been adopted by the Health Complex, whether you are talking about charities (e.g. Amer Heart Assoc) or government agencies (EPA re particulate matter).

In the former, we are being told minute exposure to something they are advocating against is still lethal, the number of people to die is just a decreasing linear function (the other half of LNT). Actual data of fatalities is never used, only the LNT extrapolation. (Where are the bodies??)

The EPA is well known for using the LNT concept to regulate against fossil fuels; again no hard data - only an extrapolation.
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Richard Kozlovich 4 hours ago

Good article, and even though this has been exposed over and over again the same bad actors are in play promoting the junk science behind this, and needs to be exposed over and over again. Excellent job!

Reply Share  6  0

Mark Glenn 28 minutes ago

Excellent article. I was exposed to the rule of Paracelsus and to the term hormesis thanks to the [Politically Incorrect Guide to Science](#) by Tom Bethell. These are very important concepts that are probably unfamiliar to most people. Bethell's book is great. If my endorsement is not enough, consider what Wikipedia has to say:

"The Politically Incorrect Guide to Science is a 2005 book by conservative journalist Tom Bethell, in which the author makes questionable and highly politicized claims."

On ideological matters, Wikipedia is always wrong. In their own way, they are a dependable resource.

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HAL 8999 25 minutes ago

"Duck and cover" made sense in the 1950's. "Remove and replace" is much more appropriate for today's enemy: Our own government!

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Randyhall44 36 minutes ago

" And combine that with the phenomenon of hormesis, and it is clear that a low level of exposure to radiation is beneficial!"
Yeah I'm going to get some sun now.

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Kirk McDonald II 2 hours ago

Very interesting. My complaints to AT.

I have never heard of the issue before today. My immediate thoughts were, if even one hit of radiation is bad, why do they use it in cancer treatment?

Well the good doctor has answered it.

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Joe Strader 1 hour ago

I will guess your complaint is actually a complement.

Reply Share  0  0

Richard Kozlovich 1 hour ago

Compliment. Just nitpicking.

Reply Share  1  0

Dwilliams180 1 hour ago

Excellent article. Believe nothing said by the federal gov't or their funded "scientists" - the bureaucracy is completely corrupt.

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Lydia 1 hour ago

A lie told often enough becomes the truth. The real question is why lie? Because fear is a method of control. People who

The told often enough becomes the truth. The real question is, why not. Because fear is a method of control. People who were always fearful and imagined they had some disease were called hypochondriacs. (Now it's encouraged.) This misplaced anxiety causes depression and unhappiness. Depressed, fearful people are easy to manipulate and control.

Science (like everything) has been hijacked for a social control system. Be afraid, be very afraid. Your gas stove will make you sick. But a flimsy cloth mask will stop a microscopic virus. **Trust the Science!**

Trust the scientists who tell you what to do. You must not question a scientist. The science is settled. "Attacks on me are an attack on science."--Fraudci.

Follow the money. Those who cannot stand scrutiny are not scientists. They need to be exposed and driven out as charlatans and tyrants.

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Daniel Lee 3 hours ago

"The perps' goal is to remove anti-LNT members from leadership of the Health Physics Society and crush Calabrese. They represent the army of leftist environmentalists".

Without recognizing it he saw how the devil takes over a center of power. And once in power it will only promote to management and executive positions its' own servants and the organization is permanently lost.

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Jack Coupal 32 minutes ago

As a retired nuclear pharmacist and long-time former member of the Health Physics Society (1960s-1980s), I'll point out that the HPS did publish opinion pieces and research papers over the years that refuted the LNT concept in its journal, "Health Physics".

There did not appear to me to be a bias against publishing - or presenting scientific presentations at HPS meetings - opposing thoughts and evidence contrary to LNT.

Those years seemed kinder and gentler ones to opinions and evidence that disputed "conventional wisdom" regarding radiation, or any other scientific endeavor.

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Grant Hodges 4 hours ago

Grant slowly backs out of the room

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Susan Cook 3 hours ago

Don't let the isotope hit you on the way out! :-D

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Bob Wilson 3 hours ago

good one, susan. (the quality of the repartee in the comment section here is incredible. unfortunately, the way things are going, that will be a lost art as we geezers fade into history.)

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Susan Cook 3 hours ago

Awww... Don't glow away! Stay and radiate a while and let your light shine through!

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👍 6 🗨️ 0

Bob Wilson 3 hours ago

ha, ha, ha

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Timothy Bishop 54 minutes ago

I trust nuclear energy zealots as much as I trust environmental ones. Coal and natural gas will do just fine, thank you.

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Joe Strader 1 hour ago

If you really want to question the LNT theories, look into the increased radiation exposure from flying on commercial aircraft.

Without further research, I would guess that the microwave oven, radon and cell phone radiation scares were partially built out of this one-hit theory.

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Curt 3 hours ago

Gosh, and I thought the Health Physics Society was the only institution remaining not corrupted.

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Richard Kozlovich 1 hour ago

There isn't one foundational institution that hasn't been infected, and that started with Stalin and became the rule during FDR's administration with all those agencies he created. It's been said the FDR administration was the most heavily infiltrated government in the history of the world. And he had to have known it.

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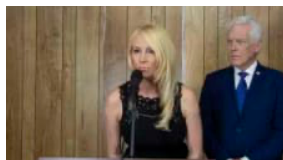
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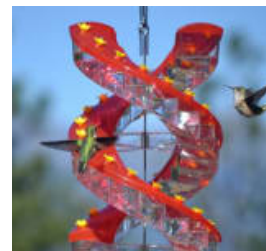
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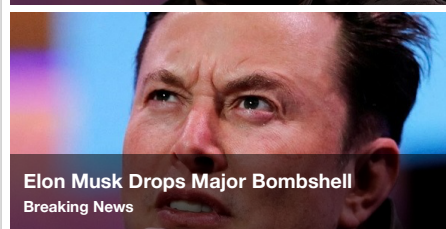
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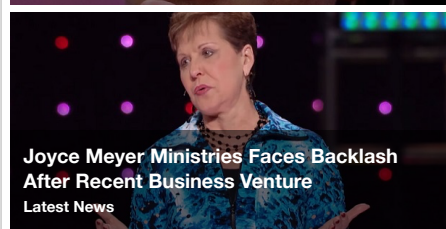
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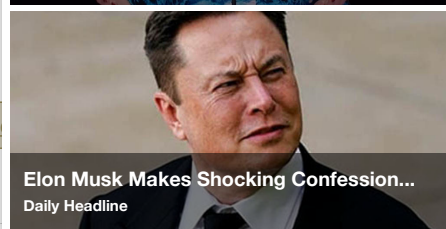
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