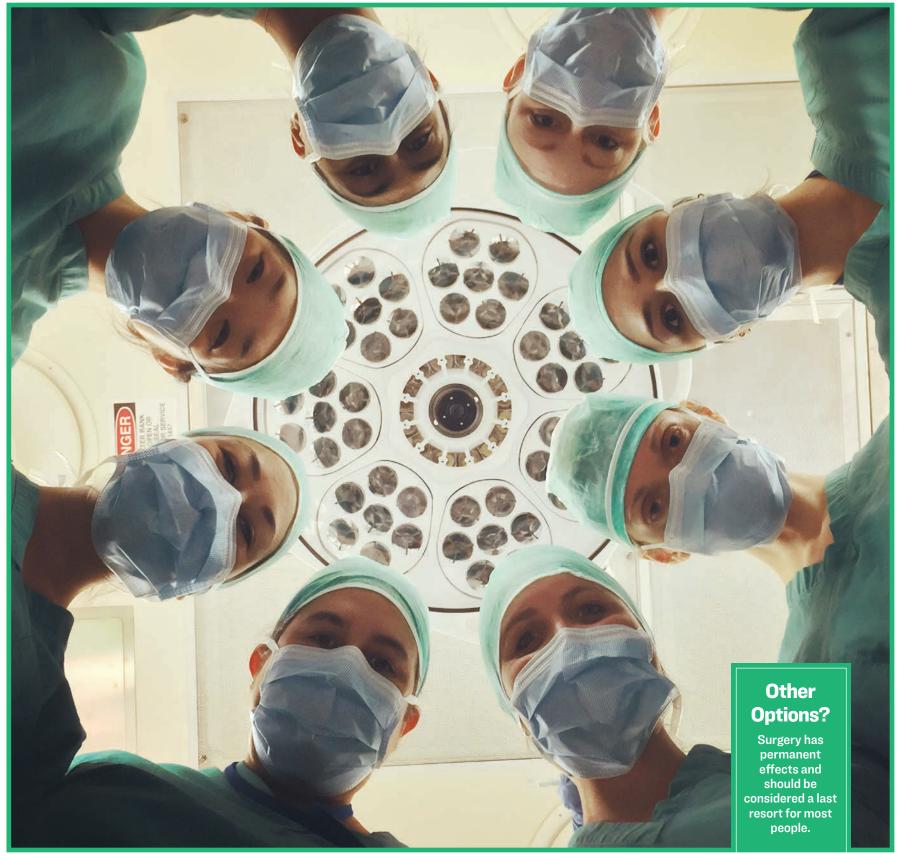
# THE EPOCH TIMES **MINING BODDE** What You Need to Know **ABOUT SURGERY**

PART 2 YOU CAN TALK TO YOUR DOCTOR ABOUT SURGERY

Patients should consider initiating questions, conversations to protect themselves



By Amy Denney

In this series, we'll share how to determine if your surgery is right for you, how to ask the right questions, and what you can do to prepare and recover optimally. bbie Colgan visited her doctor 13 years ago because she was constantly fatigued and left the appointment disappointed at the perplexing recommendation: gastric sleeve weight loss surgery.

At 310 pounds, she was able to easily lose 20 pounds and change her lifestyle habits. Ms. Colgan initially rejected the suggestion of surgically shrinking her stomach. Over subsequent visits, her doctor persisted and used her young son and the fact that her insurance would cover the procedure to convince her it was right for her.

"My blood pressure was starting to get higher. Anything I told her about stomach issues, acid reflux, and stuff, she would just say, 'It's because you're fat,'" Ms. Colgan said. "She said it could be considered abuse if I wasn't taking care of myself, and if I'm a single mom, why don't I care about my son enough to take care of me?" Conflicted and worn down, she caved to the advice for her son's sake and had an event-free surgery—one that's now considered safe enough to be performed on children. From the outside, she appears to be a picture of better health, but she traded pounds for problems that were never fully explained. Since then, her stomach symptoms have worsened and multiplied.

A review of studies across various surgical procedures published in a 2017 *Continued on Page 8* 

### Ultimate Detox: Expert Strategies to Prevent Disease

Detox efforts should focus on enhancing the body's natural detoxification phases

#### **By Christy Prais**

Every day, our bodies are under siege from the air that we breathe to the prod-

ucts that we use. We're exposed to more than 86,000 chemicals, according to the Environmental Protection Agency.

Chronic exposure to these toxins, including heavy metals, has been linked to cancer, respiratory disease, diabetes, cardiovascular problems, allergies, autoimmune conditions, and more.

The body's natural detoxification sys-

tems work hard to counter this chemical assault. But when the amount of toxins that we take in outpaces the body's ability to remove them, they accumulate in tissues and cells, depleting our protective mechanisms and potentially contributing to various diseases.

So, it's important to support the body's *Continued on* **Page 9** 

## Promise or Peril

**COVID-19 mRNA Vaccine Issues Series** 

THE SURPRISING LACK OF RESEARCH BEHIND THE FDA'S MRNA VACCINE APPROVAL PART I

Stunning gaps in safety studies reveal the need for a regulatory overhaul at the FDA

The FDA modified its approval process in problematic ways for new mRNA vaccines.

The pandemic has ended, but the introduction of the COVID-19 vaccines, which use mRNA technology, signifies the start of a new era in modern medicine. The lagging regulatory framework that the FDA cobbled together specifically for mRNA vaccine approval has set the stage for adverse events related to genetic therapies using this new technology. In this series, we reveal emerging concerns about mRNA injections related to the lipid nanoparticles, spike protein, and vaccine contamination as public documents are released.

#### By Allison Krug, Dr. Ram Duriseti, Xiaoxu Sean Lin & Yuhong Dong



happens. To illustrate what actually from EMA reports. The Pfizer rehappened with the mRNA vaccines, port submitted to the FDA, which it'll help to use an analogy. Let's say the we'll also cover, was only avail-COVID-19 vaccine was the first bioengineered egg to be tested by the FDA for safe human consumption. The egg "shell" is the LNP capsule that carries the genetically modified "contents," the mRNA and spike protein.

The FDA decided to relax its regula- Relaxed Regulations for tions and only test the LNP shell in animals and bypassed testing of the contents (mRNA and spike protein) in animals or humans. This testing would have determined how the body responds to the new technology (biodistribution study).

the first-ever mRNA "vaccine" to be released, absorbed, distributed, meinjected into the human body without checking the biodistribution of the This is called a biodistribution study. "contents" (the mRNA and spike protein) for human safety. It only checked demic, the FDA modified its typical the LNP "shell" on animals before approval process for new vaccines in giving its stamp of approval. Even the response to the public health emerlimited LNP testing data is alarming. gency. The new "nonbinding recom-Despite this lack of adequate safety mendations" for the pharmaceutical

IRINA BG/SHUTTERSTOCI

used in humans, the FDA granted authorization and assured the public with authoritative certainty that the entire product was safe. As serious adverse events unfolded at an unprecedented rate, the FDA doubled down on its safety claims, requiring no additional studies.

The limited data we do have is concerning because it shows that the LNP spreads throughout the body instead of just staying in one place. This limited level of testing isn't permitted for the approval of other drugs.

The European version of the U.S. FDA-the European Medicines Agency (EMA), was more open than the FDA regarding the limited data available. The EMA shared many details about how the LNP (the "shell") spreads throughout the body. It also expressed concerns about impurities in the vaccines during manufacturing. This series will discuss these isthen in humans. That's what normally sues thoroughly, including excerpts able after a Freedom of Information Act request, a legal mechanism to compel disclosure. Why is there such reluctance to share testing data?

**COVID mRNA Vaccines** Before a new drug or vaccine is approved by a health authority, it must understand how the body will process the drug.

Typically, a nonclinical pharmacokinetics study report is submitted to In other words, the FDA approved the FDA to explain how the drug is tabolized, and excreted from the body.

However, during the COVID-19 pantesting for the first mRNA "vaccine" industry issued in June 2020 relaxed

During the COVID-19 pandemic, the **FDA modified its** typical approval process for new vaccines in response to the public health emergency.

The FDA studied the parts of the vaccine in animals but not its biodistribution in humans.

To find the studies nentioned in this article please see the article online at TheEpochTimes.com

the rules for mRNA vaccine approval compared to what's typically required for "gene therapy."

The new FDA guidance, titled "Development and Licensure of Vaccines to Prevent COVID-19," allowed companies to present data collected from other development platforms. In other words, studies that were conducted on other products were permitted to support the application for emergency use of the mRNA vaccines:

"COVID-19 vaccine development may be accelerated based on knowledge gained from similar products manufactured with the same wellcharacterized platform technology, to the extent legally and scientifically permissible.

"In some cases, it may not be necessary to perform nonclinical safety studies prior to FIH [first in human] clinical trials because adequate information to characterize product

safety may be available from other sources. For example, if the CO-VID-19 vaccine candidate is made using a platform technology utilized to manufacture a licensed vaccine or other previously studied investigational vaccines and is

sufficiently characterized, it may be possible to use toxicology data (e.g., data from repeat dose toxicity studies, biodistribution studies) and clinical data accrued with other products using the same platform to support FIH clinical trials for that COVID-19 vaccine candidate."

The request for biodistribution studies is written in very general terms, without sufficient specificity for a novel therapeutic such as the COVID-19 mRNA vaccines:

"Biodistribution studies in an animal species should be considered if the vaccine construct is novel in nature and there are no existing biodistribution data from the platform technology. These studies should be



▲ Both COVID-19 and its vaccines are linked to white dot syndrome, which can cause dark blind spots, phantom light flashes, and overall decreased vision.

### COVID-19 and Vaccine Linked to Eye Ailment

Woman suffers white dot syndrome in right eye after vaccine and in left eye after infection

#### **By Mary Gillis**

Scientists from New Zealand have uncovered the first case of a rare eye disease linked to both the COVID-19 vaccine and the virus itself, a new study published in the Journal of Ophthalmic nflammation and Infection reveals.

An otherwise healthy 28-year-old patient was diagnosed with multiple eva-

nescent white dot syndrome (MEWDS) after complaining of vision problems just two days after receiving her second dose of the Pfizer-BioNTech vaccine.

The woman's symptoms included dark blind spots, phantom light flashes, and overall decreased vision—all specific to for COVID-19, leading researchers to her right eye.

Doctors discovered that the vision in her right eye went from 20/20 to 20/50, ment was required, and symptoms remeaning that she could see something solved after nine months.

at up to only 20 feet that someone with average eyesight could see at up to 50 feet, according to the study. In addition, her eye tissue was torn, optic nerves were swollen, and multiple pale-colored lesions were scattered throughout the back of her eye. After three months and without treat-

ment, vision in the woman's right eve returned to normal, and all other symptoms subsided.

One year later, the woman showed similar symptoms and was once again diagnosed with MEWDS, but this time, it was in her left eye. Symptoms emerged seven days after she had tested positive suspect a link between the two events. Similar to the first instance, no treat-



conducted if there is a likelihood of altered infectivity and tissue tropism or if a novel route of administration and formulation is to be used."

While the FDA authorized these products under these relaxed rules, other scientists have suggested that more specificity was needed. For example, Vervaeke and colleagues states: "The resulted in a regulatory framework that is somewhat lagging." They explain further in the abstract that a "multilayered approach" should be used to understand what the new products do in vivo (in the human body).

"Biodistribution studies for RNA therapeutics should encompass both the RNA molecule(s), the individual components of the carrier, the combined RNA-carrier drug, and the produced protein," they said.

egg and the contents.

such guidelines would have been very helpful prior to authorization for human use. However, to our knowledge, none of the current COVID-19 mRNA vaccines have ever been through such only in animals, not humans.

#### FDA Review of Pfizer **Biodistribution Study**

Based on the FDA's modified rules for tively high mRNA concentration at mRNA vaccines, the agency reviewed the injection site, the vaccine began to Pfizer's BNT162b2 LNP carrier biodis- disperse to different organs throughtribution study report in November out the body, reaching the liver and 2020 to understand how the mRNA vaccine would work. The report was marked as "approved" on Nov. 9, 2020.

As will be presented here and in Part 2, this report was widely adopted by adrenal glands and bone marrow. the European Medicines Agency, the Australian Therapeutic Goods Administration, and the Japanese government.

However, the LNP is only the carrier of the vaccine mRNA (the "shell" of integration instead of how long mRNA the "egg"), it isn't the key active ingredient of the mRNA vaccine (the contents of the "egg").

The inside of the "egg" was replaced with a substitute—the mRNA carried in the LNP study was coded for luciferase, not the same spike-protein encoda review by mRNA researcher Pieter ing that mRNA used in the vaccine. Finally, two of the lipids used in the rapid rise of mRNA therapeutics has LNP molecule hadn't previously been authorized for use in humans. Thus, novel lipids were being developed to carry a novel vaccine for a mass vaccination campaign, yet no human biodistribution studies were solicited.

The FDA typically requires human studies early in drug development, and as few as six healthy volunteers would have been required. Given that our bodies manufacture the spike protein once the vaccine is injected, human studies should have been done to In other words, test the shell of the evaluate the production, distribution, and metabolism of the mRNA and As we'll demonstrate, adhering to spike protein throughout the body.

While not ideal, animal studies do reveal helpful information. The biodistribution study report submitted by Pfizer used radioactive labeling to tag the LNPs in the vaccine adminisbiodistribution studies to evaluate the tered to 21 male and 21 female rats. RNA molecule and its encoded spike This allowed the scientists to track protein. Only the LNP carrier capsule and quantify the amount of vaccine has been studied in this manner, and reaching various organs over 48 hours following injection.

The rats were injected with 50 micrograms of mRNA vaccine. After 15 minutes, in addition to having a relaspleen first.

After an hour, the concentration of the vaccine in the liver and spleen increased further, and it reached the

After 24 hours, the researchers examined the distribution of the mRNA vaccine in the rats and found that in addition to the highest level being a

the injection site, the next highest lev- adolescents and editor for 400+ els were in the spleen, liver, adrenal research manuscripts published in glands, ovaries, bone marrow, lymph high impact factor, peer-reviewed nodes, kidneys, muscles, and heart, journals. She's also the founder and in order of the concentration. The CEO of Artemis Biomedical Commuliver reading was 24.288 at 48 hours. *nications, LLC*. This number can be found in both the Australian and Japanese reports, Dr. Ram Duriseti is a clinical associwhich will be discussed in Part 2 of ate professor and physician-scientist this series.

#### **CDC's Silent Removal** of Reassuring Message

After issuing authorization, the U.S. sion Modeling from Stanford Uni-Centers for Disease Control and Pre- versity. He has practiced in clinical vention (CDC) sought to

calm fears about toxicity and claimed that the mRNA is broken down and removed from the body quickly, while the spike protein may take longer to clear.

Yet these claims (see below in the red box), which were stated on the CDC website on July 15, 2022, have been quietly removed. Does the CDC, therefore, acknowledge that evidence is lacking to support these claims?

Sometime after July 2022, the CDC a member of Committee on the Presupdated this web page to reassure ent Danger: China. the public that the mRNA vaccine doesn't integrate into the human ge- Yuhong Dong, M.D., Ph.D., is a nome, with no mention of how long senior medical columnist for The the spike protein and mRNA will last Epoch Times. She is a former senior in the body.

Why did the CDC change the messaging on its website to focus on DNA Headquarters in Switzerland, and and spike protein last in the body?

Allison Krug is an epidemiologist and program manager with experience leading population health programs. She's the lead author of the first stratified risk-benefit analysis of mRNA vaccination among

at Stanford University. He received his M.D. from the University of Michigan and his medical training and Ph.D. in Computational Deciemergency medicine in

both community and academic settings for over 22 years.

Xiaoxu Sean Lin is an assistant professor in the Biomedical Science Department at Feitian College in Middletown, New York. He is also a frequent analyst and *commentator* for Epoch Media Group, VOA, and RFA. He is a veteran who served as a U.S. Army microbiologist and also

Novel lipids were

developed to

carry a novel

vaccine for a

mass vaccination

campaign, yet

no human

biodistribution

studies were

solicited.

medical scientific expert and pharmacovigilance leader at Novartis was a Novartis award winner for four years. She has preclinical research experience in virology, immunology, oncology, neurology, and ophthalmology, and also has clinical experience in infectious disease and internal medicine. She earned her M.D. and a doctorate in infectious diseases at Beijing University in China.

### **VACCINE INFORMATION FROM THE CDC.GOV WEBSITE**

The CDC originally claimed that the mRNA in COVID-19 vaccines was broken down and removed from the body quickly but then quietly removed these claims sometime after July 2022.

- Facts About mRNA COVID-19 Vaccines
- mRNA COVID-19 vaccines cannot give someone COVID-19 or other illnesses.
- mRNA vaccines do not use any live virus. mRNA vaccines cannot cause infection with the virus that causes COVID-19 or other viruses.
- They do not affect or interact with our DNA
- mRNA from these vaccines do not enter the nucleus of the cell where our DNA (genetic material) is located, so it cannot change or influence our genes.
- The mRNA and the spike protein do not last long in the body.
- Our cells break down mRNA from these vaccines and get rid of it within a few days after vaccination. Scientists estimate that the spike protein, like other proteins our bodies create, may stay in the body up to a few weeks

#### Facts About mRNA COVID-19 Vaccines

Currently, there are three main types of COVID-19 vaccines that are approved or authorized for use in the United States: mRNA, viral vector, and protein subunit. Each type of vaccine prompts our bodies to recognize and help protect us from the virus that causes COVID-19

#### None of these vaccines can give you COVID-19

- Vaccines do not use any live virus. • Vaccines cannot cause infection with the virus that causes COVID-19 or other viruses.
- They do not affect or interact with our DNA.
- These vaccines do not enter the nucleus of the cell where our DNA (genetic material) is located, so it cannot change or influence our genes

SOURCE: CDC.GOV WEB ARCHIVE

Revelations from international health authorities. NEXT WEEK

What Is MEWDS?

MEWDS, which dates to 1984, is considered an idiopathic inflammatory disease of the outer retina that occurs spontaneously and without concrete explanation, according to the study. It's thought to be an autoimmune response.

It often occurs in young, myopic women, with a mean age of 28. However, it's also seen among people older than 65. MEWDS patients may have flu-like early symptoms that include:

- Visual disturbances such as flashes of light.
- Sudden, painless decline in
- central acuity in one eye.
- Partial color blindness.

It can be bilateral in some cases. The multiple white dots in the retina

of the disease, hence the name "evanescent." Recurrences of MEWDS are rare. Treatment for the disease is often unnecessary, and most patients recover in

weeks to months. About one-third of cases occur after a to both viral infections and several vaccinations, including hepatitis A and B, two weeks after being diagnosed with authors concluded.

human papillomavirus (HPV), influenza, measles-mumps-rubella (MMR), now, COVID-19.

#### **Other Case Studies**

This isn't the first time that a patient was tion study wrote. diagnosed with MEWDS after receiv-

ing the COVID-19 vaccine. A 2022 study case is the first instance of recurrent found that a 31-year-old female was di- MEWDS following both COVID-19 vacusually disappear after the acute phase agnosed with the syndrome when she cination and subsequent infection, the presented similar symptoms two weeks authors said, urging practitioners to be after her second dose of the Moderna on the lookout for more. vaccine. A year later, she was diagnosed with MEWDS again after getting a sec- monitor susceptible patients, especially ond Moderna booster.

COVID-19.

"There have been 15 reported cases of Mary Elizabeth Gillis is a health rechickenpox, rabies, yellow fever, and MEWDS following COVID-19 vaccina- porter and cardiopulmonary specialtion and at least 3 following COVID-19 *ist with over a decade of experience.* infection," the authors of the Journal of After graduating with her doctorate Ophthalmic Inflammation and Infec- *in applied physiology, she earned a* 

However, the 28-year-old woman's from Columbia University.

"It would be prudent for clinicians to those who have had [inflammation] fol-There have also been cases reported lowing COVID-19 vaccine, to be moniviral illness. MEWDS has been linked after viral infection. In 2022, a 28-year-tored for ocular disease in the event of old man was diagnosed with MEWDS subsequent COVID-19 infection," the

master of science degree in journalism

## The Ultimate Guide to KICKING SUGAR

#### THE DISEASE-FIGHTING POWERS OF HONEY PART 5

Honey fights bacteria, viruses, inflammation, and more-and can even outperform some antibiotics

In this series, we explore the good and bad sugars and sweeteners, including popular natural ones, uncover the unexpected outcomes of cutting out sugar, and discover the ultimate way to do so.

By Flora Zhao

oney is a sweet food and medicine that nature has gifted us. Its history of medicinal use can be traced L back 8,000 years. Some-

times, the therapeutic effects of honey surpass even those of medications, particularly its outstanding antibacterial and antiviral properties.

#### Honey's Antibacterial Properties Are Superior to Antibiotics'

"Bacteria quickly learn how to fight off the effects of the antibiotic drugs, but they don't have honey resistance," Nural Cokcetin, a research fellow at the Australian Institute for Microbiology and Infection in the science fac-Sydney, said in an interview with The **Epoch** Times.

problems and wound infections for thousands of years. For instance, ancient Greeks and Egyptians would apply honey topically to the skin to treat wounds and burns. Honey's effectiveness in treating wounds and eczema was also documented in Persian traditional medicine. Interestingly, the concept of microorganisms such as bacteria and fungi causing wound infections during those historical periods might not have even been known.

The broad-spectrum antibacterial activity of honey has been increasingly recognized and substantiated. In recent years, the prevalence of wound infections caused by antibiotic-resistant bac- microorganisms. teria has become a major global health Interestingly, water is necescare challenge. Honey can disrupt bio- sary to induce honey's hydrofilms that are formed by these resistant bacteria and sometimes penetrate the The maximum level of hybiofilm structure to eliminate the embedded bacteria. An article published in the journal of the American Society honey to a concenfor Microbiology in 2020 reported no documented cases of bacteria developing resistance to honey.

In clinical settings, medical-grade ternational Journal honey has been utilized in various of Microbiology. ways. It's formulated into topical ointments, dressings, and bandages for Bees Contribute the treatment of postoperative wound infections, burns, necrotizing fasciitis, nonhealing wounds, boils, venous **Defensin-1** ulcers, diabetic foot ulcers, eczema, Bee defensin-1 is another psoriasis, and dandruff. Additionally,

it has proven effective in both preventing and treating infections caused by multidrug-resistant microorganisms. In vitro studies have shown that honey can kill Helicobacter pylori. Furthermore, oral consumption of honey

can reduce the duration of bacterial diarrhea. The antibacterial properties of honey

originate from its inherent characteristics and a diverse array of components derived from both nectar-producing plants and bees themselves.

#### Key Antimicrobial Components

The antibacterial properties of honey originate from its inherent characteristics and a diverse array of components derived from both nectar-producing plants and bees themselves. Additionally, some of these components are formed during the maturation process of honey.

#### High Viscosity and pH

Honey has a high sugar content, reaching up to 82.5 percent. As a result, it has ulty at the University of Technology a viscous and syrupy consistency, exhibiting hygroscopic properties (ability to absorb moisture) and high osmolar-Honey has been used to treat skin ity. Bacteria that come into contact with honey undergo dehydration and ultimately perish.

Honey is acidic due to its various organic acids, with a pH value ranging from 3.2 to 4.5. Bacteria can't survive in honey; their optimal pH typically ranges between 6.5 and 7.5.

**Primary Antibacterial Agent:** Hydrogen Peroxide

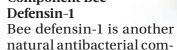
An important enzyme in honey derived from bees facilitates the oxidation of glucose, resulting in the production of hydrogen peroxide.

Hydrogen peroxide is an effective bactericidal agent that can inhibit and kill

gen peroxide production.

drogen peroxide can be obtained by diluting tration of 30 to 50 percent, according to a paper in the In-

Antibacterial **Component Bee** 



Honey has been used to treat skin problems and wound infections for thousands of years.

Bees collect a complex and unique set of compounds from flowers and process it into an incredible food.

ponent in honey originating from the honeybee's hypopharyngeal gland. Bee defensin-1 is an antimicrobial peptide that can kill various bacteria and microorganisms. Specifically, the defensin protein has been shown to create pores within the bacterial cell membrane, leading to cell death.

Additionally, bee defensin-1 can aid in wound healing by stimulating keratinocytes, the most common type of skin cell.

**Unique Antibacterial Component** in Manuka Honey: Methylglyoxal Manuka honey is often mentioned in studies regarding the antibacterial effects of various kinds of honey. As a globally recognized honey with high antibacterial potency, it possesses a unique natural component called methylglyoxal (MGO).

After honeybees gather nectar from the flowers of manuka trees, a natural substance that's found in the trees undergoes spontaneous dehydration, leading to the formation of MGO in the honey.

"The more of [methylglyoxal] there is, the more antibacterial that honey is," Dee Carter, a professor from the School of Life and Environmental Sciences at the University of Sydney, told The Epoch Times.

MGO exhibits remarkable antibacterial properties by itself. It can alter the structure of bacterial fimbriae and flagella (appendages), and induce damage to their cell membranes, ultimately resulting in cell death.

However, this substance is sensitive to heat. Heating manuka honey to 98.6 degrees F (37 degrees C) can increase the levels of MGO, but heating it to 122 degrees F (50 degrees C) results in the loss of MGO.

Honey's Antiviral Properties May Reduce COVID-19 Complications

Honey not only possesses antibacterial properties but also exhibits antiviral effects, which help protect the body and boost the immune system. Many individuals find relief from symptoms of cold and respiratory illnesses by consuming honey water, and there's a valid basis for this remedy.

> **Combats Influenza** and COVID-19 MGO can inhibit the

growth of enveloped viruses, including the virus

#### **FOOD AS MEDICINE**

## Unique Sugar Shows Cancer-Fighting Abilities

Researcher says mannose sugar an 'untapped treasure trove' of potential cancer treatments

#### **By George Citroner**

Could a spoonful of sugar help treat malignant cancer?

the latest to suggest that mannose, or D-mannose, a natural sugar lethal to honeybees and abundant in many fruits, starves human cancer cells by blocking glycosylation processes in their ability to build DNA and grow.

#### A New (Sweet) Way to Combat Cancer

In recent years, mannose's anti-can-

cer properties have garnered much attention from researchers. Several

studies have shown that mannose can inhibit the growth of various cancers, including lung, colorectal, and prostate A recent study published in eLife is cancer. The mechanism of action isn't yet fully understood but is thought to involve the disruption of

cancer cells, which impairs

cell growth and DNA syn-

thesis. The following are

some of the ways mannose

• LUNG CANCER: A study

published in Cancer

fights cancer:



Mannose is a natural sugar found in fruits like cranberries, blueberries, oranges, apples, and peaches. RBKOMAR/GETTY IMAGES

Management and Research in 2020 found mannose sugar slowed lung cancer tumor growth and helped make chemotherapy more effective at fighting the disease in an animal study. "Mannose could probably solve the problem of drug resistance during chemotherapy," the study authors wrote.

- **PROSTATE CANCER:** Research from 2022 found that mannose sugar can retard growth and stimulate
- cell death of prostate cancer in mice through its effect on the mitochondria of these cancer cells.

COLORECTAL CANCER: A 2022 study found that mannose sugar can halt tumor growth in mice with colorectal cancer.

Mannose's Possible Role in Preventing Cancer

While the exact mechanisms are still being un-

raveled, some scientists hypothesize mannose may also help prevent cancer by supporting healthy cells in the following ways:

- ACTIVATING THE IMMUNE SYSTEM: Mannose has been suggested to enhance the activity of immune cells, particularly macrophages, which play a role in identifying and eliminating cancer cells.
- **REDUCING INFLAMMATION:** Chronic inflammation is associated with an increased risk of cancer. Mannose may have anti-inflammatory properties that could help reduce chronic inflammation.
- INHIBITING TUMOR GROWTH: One 2021 study suggested that mannose can hinder the growth of tumors by interfering with specific metabolic pathways that cancer cells rely on for energy.
- DISRUPTING GLYCOSYLATION: Mannose is involved in glycosylation, a process where

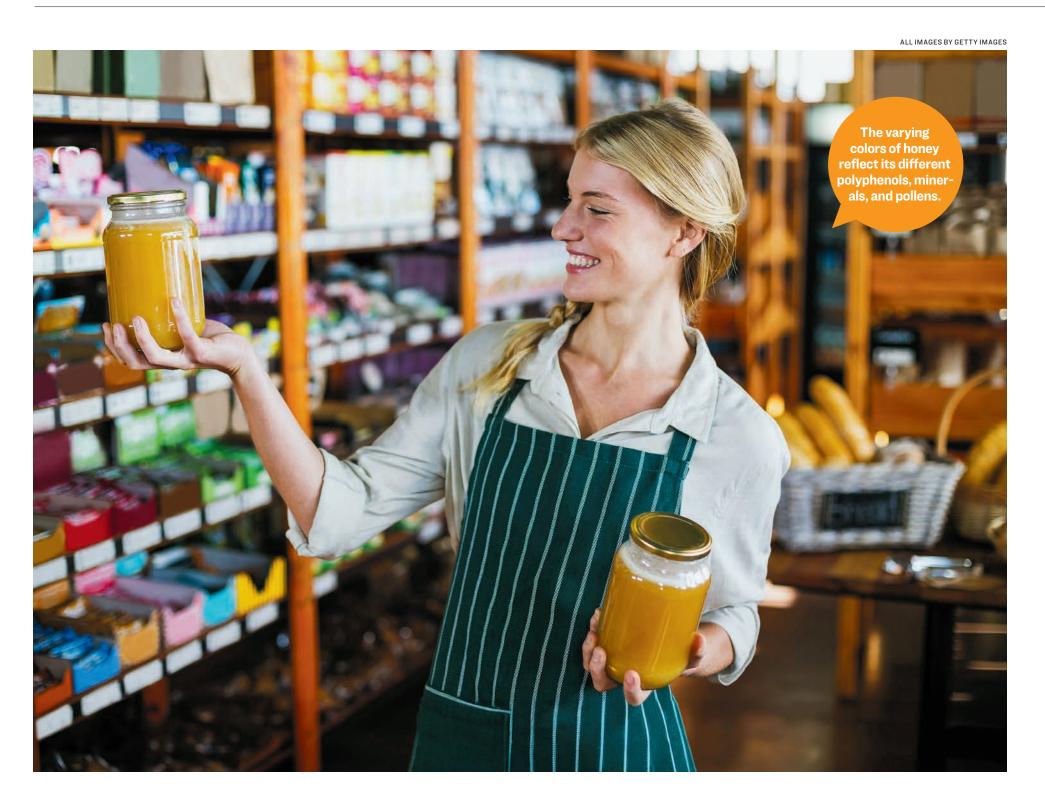


Honey water can

provide effective

relief for cold and

respiratory symptoms.



Honey's

renowned anti-

bacterial proper-

ties come from

various compo-

nents from plants

and bees.

Many stud-

ies indicate that

darker honey has

higher phenolic

compound lev-

els and stronger

activity.

Ով

#### that causes COVID-19.

the Eurasian Journal of Medicine and Oncology in 2020, computer simulations revealed that multiple compounds found in honey can bind to the protease of SARS-CoV-2, effectively inhibiting its Honey's Anti-Inflammatory replication.

MGO in manuka honey can also inhibit the replication of influenza vi- currence in bacterial or viral ruses, including drug-resistant strains. Currently, scientists are researching it can significantly harm the the potential of MGO for managing and treating COVID-19.

#### **Boosts the Immune System**

cells, enabling them to eliminate vi- downregulate anti-inflammaruses effectively. For example, oligosac- tory factors, thereby reducing charides that are present in honey can inflammation damage, and enhance the activity of natural killer cells. Additionally, certain immune inflammatory mediators, procells can "remember" specific viruses moting wound healing. during the antiviral response, offering future protection against the same viral invasions.

Honey can promote the proliferative She attributes this effect to the activity of immune cells, thus increas- abundant presence of phenolic ing their quantity.

#### **Promotes Autophagy**

crucial in combating deadly viruses such as SARS-CoV-2, which causes COVID-19. volves the degradation and metabolism inhibiting the growth of harmful bac-

of cells, allowing for the removal and teria. Additionally, consuming honey According to a study published in recycling of unwanted or damaged cells and impurities. This process contributes to the generation of healthier cells and promotes recovery.

#### and Gut-Health Benefits

Inflammation is a common ocinfections. Left unchecked, body, potentially leading to life-threatening complications. Moreover, honey has been

suggested to have a dual role Honey can activate several immune in inflammation control: It can stimulating the production of In one of Ms. Cokcetin's stud-

ies, honey could reduce inflammation levels in the intestines. compounds found in honey. She explained that honey

also contains oligosaccharides Honey can promote autophagy, which is and polysaccharides, which are com- exhibits more potent activity. plex sugars. These compounds serve as prebiotics, supporting the growth It's an internal cellular process that in- of beneficial bacteria in the gut and

promotes the production of short-chain fatty acids in the intestines.

#### **Choosing Honey With** Potent Properties

Generally, raw and darker honrobust efficacy. Commercially available honey

differs from raw honey sold by beekeepers or at bazaars, as it's generally pasteurized. Research has shown that heat processing can lower the antioxidant high-pressure techniques.

Honey comes in a diverse range of colors, from light yellow to amber, dark red, and even nearly black. These colors reflect the varying composition of honey, such as polyphenols, minerals, and pollen. Numerous studies suggest that dark-colored honey genof phenolic compounds and

NEXT WEEK Is maple syrup a good sugar?

tional antibacterial properties, it's recommended to opt for pure honey sourced from New Zealand and Australia. The manuka tree is exclusive to spe-

To obtain manuka honey with excep-

cific New Zealand and Australian regions, and its annual yield is limited. ey varieties tend to have more Certain products labeled as manuka honey may contain blends of other honey types, potentially affecting the found on supermarket shelves honey's properties. Furthermore, some of these products may even include lowquality ingredients such as sucrose.

Opting for single-origin honey sourced exclusively from the manuka tree and checking for its Unique Manuka Factor capacity of honey by 33.4 per- (UMF) rating is recommended. A higher cent. Alternatively, you can also UMF rating indicates higher levels of choose honey processed using substances related to MGO. Some honev products also specify the amount of MGO in milligrams per kilogram.

> However, manuka honey with a higher UMF rating may have a strong flavor that some people find pungent.

Ms. Cokcetin recalled that when she began her research on the antibacterial properties of honey, a professor she worked with said, "We've already got this great gift from nature that is a soluerally contains higher levels tion to superbugs; we just have to figure out how it works and why it works the way it does."

sugar molecules are added to proteins. Some cancer cells exhibit abnormal glycosylation patterns. The theory is that mannose supplementation may interfere with this abnormal glycosylation, inhibiting the growth and spread of cancer cells.

What the Latest Research Says "It's been known for more than a century that mannose is lethal to honeybees because they can't process it like humans do—it's known as 'honeybee syndrome," Hudson Freeze, who holds a approach is an unexplored frontier and doctorate in biology and is the director of may represent an "untapped treasure the Human Genetics Program at Sanford trove" of potential treatments waiting Burnham Prebys Medical Discovery Institute and coauthor of the study recently published in the eLife journal, said in a press statement.

His team aimed to investigate if this anti-cancer effects.

Using genetically engineered huresearchers replicated honeybee syndrome in the lab. They found that the

to chemo.

quires more research to determine which cancer types respond best to this treatment.

"If we can find cancers that have a low activity of the enzyme that processes mannose, treating them with mannose could give just enough of a nudge to make chemotherapy more effective," Mr. Freeze said, noting that this to be discovered.

#### Mannose Is Already Used to Treat Some Diseases

syndrome was connected to mannose's Mannose is a naturally occurring simple sugar found in fruits, including blueberries, cranberries, oranges, apples, man cancer cells from fibrosarcoma, and peaches. Chemically similar to glua rare cancer in connective tissue, the cose, it's less sweet and impacts blood sugar differently.

cancer cells struggled to build DNA and it elicits a lower insulin response, poreplicate without the enzyme to process tentially beneficial for diabetes, Emily mannose, making them more vulnerable Feivor, a registered dietitian at Northwell Long Island Jewish Forest Hills, While promising, the approach re- told The Epoch Times. It may also encourage gut health.

#### Infections

Mannose nurtures the growth of good bacteria in the gut, said Ms. Feivor, noting this is unlike regular table sugar.

"And may have preventative properties for urinary tract infections due to it being metabolized through the kidneys and excreted as urine."

A healthy gut microbiome can have cascading effects on the body, including tion was dian improved immune system.

Mannose may prevent recurrent UTIs, a 2013 randomized controlled trial found. A systematic analysis of over 32,000 studies found that mannose is an effective and safe treatment for cystitis and other UTIs, especially during pregnancy.

Genetic Disorders Mannose sugar has also

Mannose isn't readily absorbed, so shown effectiveness in treating

congenital disorders of glycosylation, a group of rare genetic conditions that impact the incorporation of sugar building blocks.

Glycosylation is a process that involves adding sugar molecules to proteins and lipids to stabilize their structure and function. Disorders in the process can cause severe symptoms, including seizures and stroke-like episodes. Mannose was found to normalize this process.

The only side effects associated with use have been relatively minor. According to one study, the

most common adverse reacarrhea.

The body's poor absorption of mannose reduces insulin reactions-a benefit for diabetics.

M.M.PHOTO/SHUTTERSTOC

## A Gut Microbe That Heals the Gut Is Dying Off Limosilactoba-

#### By Amy Denney

onna Schwenk's kitchen is overflowing with bacteria. That comes as no surprise after more than two decades of culturing food for healing first as a personal mission to heal her baby, and now for her business.

Still, she was a bit reluctant to try out tem—believed to be a root cause a new bacteria. Afterall, her health was of autoimmune disease. in tip-top shape, and her business, Cultured Food Life, was growing. The author L. Reuteri's Origins of three bestselling books and a podcast Discovered in 1962, L. host, Ms. Schwenk had her hands full with her courses teaching others the ins and man gastrointestinal outs of how to make their own fermenta- tracts and can withtion labs at home.

She reluctantly began culturing yogurt with a new bacterial strain—Limosilactobacillus (formerly Lactobacillus) reuteriat the encouragement of Dr. William Davis, a cardiologist and author of several books including "Super Gut." Dr. Davis also asked her to eat it daily for a year.

The human gut is also a fermentation vat of sorts because it nurtures the growth of many

different bacteria.

"It blew my mind. I thought I was really smart. I thought I knew everything," Ms. Schwenk said. "They use L. reuteri to clean fermentation vats because it's so strong." She said the human gut Science Daily

is also a fermentation vat article in of sorts because it nurtures the growth of many different bacteria, some of which

may also need to be cleaned out. That's where L. reuteri comes in.

"It will kill all the other [microbes] that don't belong there, and it will thrive. That's why it's working so well for people, because in that upper gastro area, without L. reuteri, you start having problems if you get other bacteria in there," Ms. Schwenk said.

She began to offer it to friends, including one who had chronic diarrhea and couldn't leave the house. Relief from pain and embarrassment came in just a few days. Other testimonies included improved energy and mental health, less muscle fatigue, easier breathing, appetite suppression, and more.

A single bacterial species can have widespread effects in the gut by altering the

entire community of microbes in the human microbiome-the total collection of bacteria, viruses, and fungi.

In the case of L. reuteri, it inhibits the growth of pathogenic species while remodeling the biome, benefits host immunity, and decreases the translocation of bacteria out of the gastrointestinal tract into the bloodstream or lymphatic sys-

reuteri colonizes hustand a wide range of pH environments, making it a rare beneficial bacteria that can proliferate in the small intestine. Typically, bacterial overgrowth in the small intestine can lead to digestive problems, but that isn't the case with L. reuteri. Back when it was discovered, L. reuteri was found in about 30 percent to 40 percent of the population. A

cillus reuteri is a rare and beneficia pacteria that can be used to create yoghurt.

2010 said its presence had shrunk to 10 percent to 20 percent by then. Dr. Davis and others claim its level is now at 4 percent.

As with many other bacteria that are disappearing from the human microbiome, L. reuteri's extinction is connected to antibiotic overuse, glyphosate, emulsifiers in processed food, and stomach acid blockers. Dr. Davis told The Epoch Times that L. reuteri is quite susceptible to death by antibiotics.

"Even though reuteri is ubiquitous in mammals and in indigenous human population like New Guinea or in the Brazilian rainforest, almost nobody in the modern world has reuteri anymore because we've all killed it," he said.

It's believed that L. reuteri is conferred to infants from breastfeeding mothers. A 2008 study published in Microbial Ecology in Health and Disease looked at samples of breast milk from different regions to illustrate the differences between the bacterial makeup of breast milk by country. Breastfeeding translates to greater protection against childhood diseases such as asthma and obesity.

> About half of the mothers from Japan and Sweden had L. reuteri in their milk. Mothers in South Africa, Israel, and Denmark had very low or undetectable levels. Urban and rural living didn't appear to play a significant role, although the authors speculated that diet could be a factor. The Japanese diet, for instance, is high in function-

## Who Should Not Use Ibuprofen

#### By Vance Voetberg

Popping an ibuprofen for that pounding headache or twisted ankle can provide and degrading drugs. Ibuprofen can be quick relief from pain. But although this toxic to these processes." easily accessible over-the-counter drug could temporarily mask discomfort and sometimes eliminate pain, experts say

it does little to spur true healing. Furthermore, for these five groups of people, ibuprofen poses serious health risks that outweigh potential benefits.

#### 1. People With Liver and **Kidney Problems**

People with an impaired liver or impaired kidneys should avoid ibuprofen, as the drug can damage these vital organs, Dr. Joseph Maroon, a professor of neurological surgery at the University kidneys, as it damages blood of Pittsburgh Medical Center, told The Epoch Times.

Even as it's considered one of the safer a kidney disease caused by excesnonsteroidal anti-inflammatory drugs sive medication. It's more common (NSAIDs) for the liver, ibuprofen can among those older than 45 and with cause damage to liver cells, also known kidney or liver problems, and those as hepatotoxicity or toxic hepatitis, ac- populations should avoid ibuprofen, cording to a systematic review analyz- according to Dr. Maroon. ing 22 studies. This liver injury occurred within 12 days of starting treatment and **2. People With Asthma** was more common in women.

As the body's detoxifier, the liver breaks Americans. It causes down and assesses compounds. Ibupro- inflamed airways that

fen is challenging for the liver to process, Dr. Maroon said.

"The liver is critical in removing wastes

The standard dosage of 200 to 400 milligrams three times daily is burdensome for the liver. Though ibuprofen overdose is rare, it can cause liver damage. A 2020 study from the University of California-Davis found that even moderate doses of ibuprofen may have more significant adverse effects on liver health than doctors realize. Research in mice showed that ibuprofen treatment altered metabolic pathways, including those regulating amino acids, hormones, and vitamins.

Ibuprofen is also toxic to the vessels that filter waste. Overuse can lead to analgesic nephropathy,

Asthma affects 1 in 13

People with an impaired liver or impaired kidneys should avoid ibuprofen, as the drug can damage

these vital organs.

ESCO Healt uprofen 200mg Tablets Ibuprofen 2 EASY TO SWALLO ESCO Health ouprofen 200mg Tablets MADDIE RED/SHUTTERSTOCK

produce excess mucus, leading to breathing issues. People with asthma should avoid NSAIDs such as ibuprofen. Ibuprofen blocks inflammation pathways but can increase compounds called leukotrienes, causing bronchospasms, a tightening of the muscles that line the lung's airways.

A 2016 study published in Medicine linked short-term use of ibuprofen, aspirin, and diclofenac to asthma exacerbation.

"This study urges the physicians to reassess their treatment strategies for fever in children with asthma," the researchers wrote.

Another 2019 study from Taiwan showed that ibuprofen has higher asthma attack risks than acetaminophen in young children if they had an ER visit or hospitalization the prior year.

#### 3. People With Hypertension or Heart Failure

Studies show that ibuprofen and NSAIDs such as naproxen can raise blood pressure.

Two meta-analyses found that NSAID use causes a significant increase in mean blood pressure, especially in hypertensive patients, according to a review article published in Drug Safety. One report noted that NSAID users had a 1.7 times higher risk of needing antihyperten-

al, probiotic, and fermented foods.

A Stanford University study that compared diets high in fiber to those high in fermented foods lends credibility to the idea that eating foods rich in probiotics diversifies gut bacteria. Those randomly assigned to fermented food diets for 10 weeks more quickly expanded their microbiomes and also displayed decreases in molecular signs of inflammation associated with disease, according to the results published in 2021 in Cell.

#### L. Reuteri and Gut Infections

L. reuteri appears to have a bi-directional relationship between gut health and disease. Several studies have shown that L. reuteri's antimicrobial properties are nature's version of an antibiotic—capable of protecting the body from gut infections. There are various strains of L. reuteri that undergo a metabolic process that produces lactic acid, acetic acid, ethanol, and/ or reutericyclin. These metabolites have proven effective against pathogens including Escherichia coli, Clostridium difficile, Salmonella, and Helicobacter pylori (H. pylori), according to a 2018 Frontiers Mi-

🔺 L. reuteri's

decline is tied to

use, glyphosate,

processed food

emulsifiers, and

modern factors.

Back when it was

discovered, L. reuter

was found in about

PERCENT

of the population.

A single bacterial

species can have

widespread

effects in the

gut by altering

the entire

other harmful

excessive antibiotic

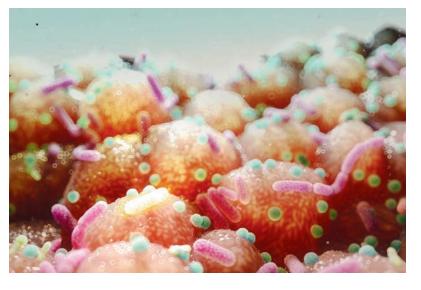
crobiology review article. H. pylori infections are a major cause of chronic gastritis and peptic ulcers, in addition to a risk factor for gastrointestinal (GI) cancers. L. reuteri supplementation is particularly effective at decreasing the bacterial load of H. pylori when both are competing for food and resources. Some studies have shown that L. reuteri has the potential to completely eradicate H. pylori. The microbe is able to resist the acidic environment of the small intestine and adhere to intestinal epithelial cells, where

it begins to regulate intestinal flora, enhance the mucosal barrier, regulate immune cells, improve antioxidant activity, and regulate the immune system of the host, according to a Frontiers Immunology review article published in August that explains L. reuteri's mechanism of action. L. reuteri has been successfully used in GI diseases such as colic-which can affect as many as 20 percent of newbornsand diarrhea. One way that this pathogenic antagonist does this is by secreting exopolysaccharide, which is able to form mucus that tightens junctions in the intestinal mucosal barrier and begins healing GI damage.

#### The Rise of SIBO

It's a logical theory that L. reuteri's disappearance is linked to small intestinal bacterial overgrowth (SIBO), which makes its reintroduction to the GI tract a compelling alternative to harsh prescription antibiotics for the condition.

SIBO is the presence of excessive bacteria in the small intestine that cause symptoms such as abdominal pain, bloating, diarrhea, and sometimes malabsorption. Stomach acid and peristalsis (contractions that move food through the digestive tract) are protective mechanisms designed to protect the small intestine



against excessive bacterial growth. Most nonspecific gastrointestinal complaints are now considered to be SIBO.

"The SIBO gets pushed back by this microbe. There's a variety of ways to gauge that, including if you test," Dr. Davis said. Besides breath tests that measure the amount of hydrogen or methane that you breathe out, inflammatory markers, blood pressure, body mass index, triglycerides, and symptoms related to inflammatory bowel disease have been associated with SIBO and impacted by L. reuteri, he said.

#### Diseases Associated With L. Reuteri Weak intestinal barriers—sometimes

called "leaky gut"-have been implicated in a number of diseases, particularly autoimmune diseases. According to the 2018 Frontiers Microbiology review, many studies have shown that L. reuteri induces anti-inflammatory regulatory T cells, or Treg cells, which play a role in preventing autoimmunity, suppressing cytokine storms, and limiting chronic inflammatory diseases.

This makes L. reuteri a good candidate for disease prevention, as well as symptom management. "Indeed, the therapeutic potential of various L. reuteri strains has been studied in diverse diseases and the results are promising in many cases," the study authors wrote. "The safety and tolerance of L. reuteri has been proven by the numerous clinical studies."

#### **Proceed With Caution**

While this microbe is very promising, there are some caveats. First, there are many different strains of L. reuteri that appear to have specific applications.

Also, as the 2023 review article warned, host genetics and epigenetics-particularly diet-appear to diversify immune responses. Other issues of concern are dosing, how well studies are designed in terms of subjects and controls, the length of intervention, and the synergistic effect of multiple strains, which could be beneficial but potentially damaging.

due to the inconsistent reproduction speed of each strain, thus disturbing the balance and hindering the control of microecology," the review article stated.

"[M]ixed strains might get out of control

Weak strains were a concern for Dr.

Davis, which is why he cultured the bacteria in yogurt using a supplement dose intended for newborns, which was the only one available when he began his investigations. Using flow cytometry, he was able to ferment and multiply the dose from 100 million to 300 billion.

Compared with other yogurts, it's a bit harder to culture-requiring a sustained temperature of 100 degrees for 36 hoursand it appears that permanent gut colonization is unlikely, so it would have to be maintained through diet, Dr. Davis said. The microbe is getting a lot of attention, however, with studies in the PubMed database growing to more than 200 in 2022 from 21 studies in 2005.

"So far, every observation made in mice is proving true in humans, seen anecdotally and in clinical trials," Dr. Davis said. "In other words, a lot of the modern phenomenon we're seeing recede by recolonizing the upper intestine with reuteri."

The only people who should be cautious with L. reuteri-or take reduced doses—are pregnant or menstruating women, and children, he said. That's because when women go into labor, their oxytocin levels surge. Another way that L. reuteri is believed to work is by increasing production of oxytocin, the so-called "love" hormone that facilitates bonding, although the mechanism of action isn't well understood.

### THERAPEUTIC **EFFECTS**

Interesting findings about L. reuteri revealed by research include:

#### **1. COLON CANCER**

Low levels of L. reuteri and reuterin levels are linked with colon cancer, according to research published in Cell in 2022. The study found that L. reuteri was protective against tumor formation in the colon, with reduced L. reuteri and reuterin levels found in mice and humans with colon cancer. In mice, both the bacteria and its metabolite were found to decrease tumor growth and prolong survival.

2. OBESITY AND DEPRESSION One L. reuteri strain was shown in a 2023 Frontiers in Pharmacology study to alleviate depressive-like behaviors and obesity co-morbidities in mice. They experienced improved blood lipids and insulin resistance. The bacteria also reduced liver inflammation, tightened intestin junctions, and alleviated dysbiosis, or the overall imbalance of gut microbes.

#### **3. CONSTIPATION**

Use of L. reuteri for symptoms of gas, abdominal pain, bloating, and incomplete defecation led to better outcomes over a placebo in a double-blind trial published in 2017 in Beneficial Microbes.

sives than nonusers. NSAID use was also said people with heart conditions should linked to a 40 percent increased hyper- avoid ibuprofen. A 2016 study published tension diagnosis risk.

fects of blood pressure medications. "Since many patients with conditions

such as osteoarthritis require treatment and also have hypertension, even mod- 4. Pregnant Women est elevations in blood pressure or inhi- It's known that pregnant women should bition of antihypertensive medication avoid NSAIDs after 20 weeks, as the efficacy resulting from nonsteroidal drugs can result in low amniotic fluid, anti-inflammatory drugs can be of according to the U.S. Food and Drug significant clinical and public health Administration. However, emerging reimportance," a paper published in the search suggests that NSAIDs can also Journal of Clinical Hypertension reads. harm the baby in early pregnancy. Given the link between high blood One study found that ibuprofen repressure and heart disease, Dr. Maroon duced cell number, proliferation, and

in the British Medical Journal associated Ibuprofen can also decrease the ef- NSAID use with higher heart failure risk due to increased blood pressure, platelet inhibition, and other properties.



Research has found mothers who take ibuprofen during pregnancy are more likely to have children with a lower birth weight and asthma.

germ cell count regardless of gestational stage. The adverse effects weren't fully reversed after stopping the drug for five days, indicating long-term effects. "These findings deserve to be consid-

ered in light of the present recommendations about ibuprofen consumption [in] pregnancy," the researchers noted. A 2021 exvivo study found that NSAIDs altered fetal kidney development as early as seven developmental weeks in several ways, including cell death.

Additional research has linked ibuprofen during pregnancy to lower birth weight, more maternal bleeding, and higher asthma risk.

5. People With Stroke History Nerve pain after stroke is common. However, taking NSAIDs for relief isn't recommended, according to Dr. Maroon. A systematic review of 15 studies found that NSAID use significantly raises the risk of hemorrhagic stroke. Researchers attribute the increased stroke risk to vasoconstriction (the nar-

rowing of blood vessels) and sodium excretion, worsening blood pressure. A 2021 study found that women with menstrual pain using NSAIDs have a higher stroke risk. NSAID use throughout periods is common.

"Especially [for] young women, the risk of stroke is further increased, and the longer the medication [is used], the higher the risk of stroke," the study authors wrote.



community of microbes in the human microbiome.



## What You Need to Know **ABOUT SURGERY**

#### PART 2 YOU CAN TALK TO YOUR DOCTOR ABOUT SURGERY

For your best chance of a safe and necessary surgery, make sure you know what to ask your doctor and surgeon—and don't be afraid to do so

#### **Continued from Page 1**

that 1 in 7 patients reported regret about their decision. The authors described the statistic as "uncommon."

ject because evidence shows that both regret and adverse events can be low- language barriers, and limited underered if communication is improved. standing of health literacy. It's something that health systems, surgeons, organizations, and blogs address by publishing all the questions patients ought to ask before surgery. However, it's questionable whether surgeons are as forthright, as one study in Canadian Journal of Surgery found that 23 percent health beliefs and values proposed treatof clinical discussions don't meet basic ments that are better suited for their cirinformed consent standards.

**Communication Is** 

styles in health care are

In essence, the failure to provide thorough risk information undermines trust, and equitable health care access.

> Rosia Parrish, naturopathic doctor

adverse events. Not only can poor communication strain the doctor-patient relationship, naturopath Dr. Rosia Parrish told The Epoch

expectations for both parties. ed than simple transparency—as pointed their communication but they improve out in "Vignettes of Patient Safety." Subtle the physician-patient relationship and nuances in communication help patients outcomes as well." identify physician biases and red flags.

nication—whether it's poorly lit, full of care providers, Dr. Parrish said. They tive to steer you toward the operating Irving Medical Center. distractions, or conducted online or with shouldn't be closed-minded to conver- room. anyone other than the surgeon. Other red sation, questions, alternatives, and deflags are surgeons who block conversa- layed timelines—even when initiated tion by offering advice or reassurance, by patients.

World Journal of Surgery article found tion or decision, and jolly patients along, as the authors explained.

They further described barriers in patient education that can include medical Regret is a relevant pre-surgical sub- jargon, monologues with little attempt to understand the patient, time restraints,

A 2011 study in the Journal of General Internal Medicine noted that many doctors have a bias in that they believe that patient beliefs are aligned with their own. On the flip side, results showed that physicians who better understand patients' cumstances and needs.

#### Communication Is a Critical in Surgical Care Surgeon's Responsibility

An extensive section in the While there are patients who prefer to peer-reviewed book "Vi- leave all decisions up to their physicians, gnettes in Patient Safety," it's up to doctors not to assume that and notes that doctor-patient approach each situation objectively. This communication has be- is done with communication that's clear come more collaborative and understood, as well as giving patients and patient-centered. time to make up their minds, according patient autonomy, However, authoritarian to "Vignettes in Patient Safety."

It's the doctors' responsibility to discern plenty-and it's associat- if "internal noise" is interfering with comed with increased medical munication, including whether they or errors. One report blamed the patient are fatigued, hungry, or anlack of communication on gry. That's what makes feedback vital; more than 60 percent of surgeons should be rephrasing what patients said for confirmation to assure total comprehension on their end.

"Though it may take time, once shared Times in an email that it can also delay long and compliance will be total," the surgical recovery and cause unrealistic article stated. "Research has indicated that those who use these tools consis-

Ethically and even legally, the burden It begins with the setting of communication falls on the health

topic, ignore the emotional toll of a condi-shared decision-making, while also potentially exacerbating healthcare disparities. In essence, the failure to provide thorough risk information undermines patient autonomy, trust, and equitable health care access," Dr. Parrish said.

#### The Toll of Regret

Consulting other surgeons—or even other types of providers such as naturopaths or functional medicine doctors can help patients get another perspective, slow down the decision-making process, and gather more certainty around their decision.

Surgery is irreversible, including organs that are permanently removed, new conditions that could result from the operation, and a chance of other adverse events or even errors. As such, the decision demands a more contemplative approach.

"There's a lot of people who had their appendix out or even their gallbladder removed, and the problem didn't get better," Dr. Scott Doughty, an integrative family practitioner with U.P. Holistic Medicine, told The Epoch Times.

Dr. Doughty said it's common for surgeons to downplay the importance of JAMA Surgery. the appendix and so see little issue with removing it, even if they aren't sure it's the problem.

"It's a good guess," he said.

Recent research indicates that the appendix may play a role in keeping inflammation and infection at bay. Ironically, the fear of deadly sepsis infections that can result from a burst appendix is likely decision is made, the process will be to spur surgeons to continue advising patients to have them removed.

#### Understanding Your Risk Factors

But communication is more multifacet- tently have not only gained clarity in Still, second opinions are a good tool and even required in some cases—to examine the necessity of surgery. Dr. Doughty said it might be particularly beneficial to get an opinion from someone who doesn't have a financial incen-

> an opinion from some other doctor who has a different toolkit?"" he said.

The stark reality is surgery inherently carries risks that patients deserve to know. Among them are shock, hemorrhage, wound infection, deep vein thrombosis, pulmonary complications, urinary retention, and reaction to anesthesia.

Not everyone is a good candidate for discretionary surgeries. Considerations for surgery, according to Stanford Medicine, include age, overall health and medical history, the extent of disease, the type of surgery being performed, your opinion/preference, and your tolerance for medications, procedures, and therapies.

A more thorough screening process could reduce mortality rates in the year after surgery. Surgeons who referred their explain distress as normal, change the "This breach erodes trust and hinders patients to primary care physicians and presurgical care clinics for a frailty assessment experienced an 18 percent reduction in the odds of one-year mortality, according to a study of more than 50,000 patients published in February in JAMA Surgery.

#### Assessing Competent Surgeons

It can be complicated to navigate the murky waters of how competent your surgeon is, but it's an issue that's attracted some attention. Some believe doctors should also be subject to occasional assessment.

#### Authoritarian styles in health care are plentyand are associated with increased medical errors.

A handful of hospitals have introduced mandatory age-based evaluationssimilar to age-based testing and forced retirement for professions such as pilots, judges, air traffic controllers, and more according to a 2017 review published in

The article noted that the number of practicing physicians older than 65 in the United States has increased by more than 374 percent since 1975. In 2015, 23 percent of practicing physicians were 65 vears old or older.

"Research shows that between ages 40 and 75 years, the mean cognitive ability declines by more than 20 percent, but there is significant variability from one person to another, indicating that while some older physicians are profoundly impaired, others retain their ability and skills," the authors wrote.

Basic cognitive testing could be misleading when medical students with little experience are ranked above surgeons with years of practice, according to a statement from Columbia University

"As for what makes a good surgeon, "The question is, 'Should I be seeking the list is long, but certainly involves manual dexterity, a fund of knowledge, ability to think and readjust on your feet, compassion, and most importantly, judgment," Dr. Paul Kurlansky said in the statement. He is associate director of Columbia's Center for Innovation and Outcomes Research and a cardiothoracic surgeon.

Trusted referrals, reviews, and online tools can help determine whether your doctor can handle your surgery. The Society of Thoracic Surgeons, for instance, has an online tool to research outcomes by physicians.

#### **Uncommon Questions to Ask**

You can become your own advocate by arming yourself with as many questions as you need. The internet is also filled with lists of what to ask before any specific surgery.

A blog by orthopedic surgeon Dr. Ashvin K. Dewan takes typical lists a step further by discussing questions your surgeon doesn't want you to ask. It includes:

- Do you double-book surgeries? This is a common practice that's sometimes abused. It's important to know what part of your operation will be handled by your surgeon and what part might be done by attending physicians.
- Will you see me post-operatively? Due to reimbursement, Dr. Dewan said many delegate this responsibility to physician assistants or trainees.
- What bills will I get after surgery? Your surgeon should be able to help you understand the overall cost of your surgery beyond the operation including use of the facility, anesthesia, implants, equipment, etc.
- How often do you do this surgery?
- What is your success rate with this surgery?
- Can I delay my surgery?
- Have you ever canceled a surgery because you were mentally or physically unfit?

For Ms. Colgan, more questions may have helped her avoid the problems she's faced since her gastric sleeve weight loss surgery.

The biggest regret she has is not taking a longer list of questions to her doctor. "I thought I asked a lot of questions. There's so much more I wish I would have asked ahead of time," Ms. Colgan said.

She's seen many doctors since her surgery in an attempt to resolve the same issues, as well as new food sensitivities that have worsened since her operation. While her doctor no doubt had good intentions, the fact remains: Surgery is a serious intervention and should remain

### **10 QUESTIONS TO ASK BEFORE SURGERY**

a last resort for most people.

Dr. Rosia Parrish, a naturopath and certified functional medicine provider, has compiled 10 questions to ask your doctor about surgery.

Is surgery the best option for my condition?

What are the potential risks and complications associated with this surgery?

What is the success rate of this procedure for my condition? What is the expected recovery

time? What are the short-term and

long-term effects of this surgery on my overall health? What are the anesthesia options

and associated risks? How experienced are you in performing this procedure?

Are there any lifestyle changes I should make before the surgery?

What can I expect in terms of

pain management and discomfort after the surgery?

What is the cost of the surgery and what does it include?

NEXT low you prepare for surger can change the outcome

#### Ultimate Detox: **Expert Strategies** to Prevent Disease

#### **Continued from Page 1**

inherent detoxification capabilities by implementing a consistent strategy of expelling toxins from cells and intercepting them before they can wreak havoc.

An Expert's Guide to Complete Detoxification

"Most people have big stores of toxins in their bodies and need to not only do a formal detox to clear them out, but incorporate detoxification into their lifestyle," Christopher Shade told me in a recent interview on Discovering True Health, a YouTube channel and podcast dedicated to health and wellness.

Mr. Shade holds a doctorate in environmental sciences and bioanalytical chemistry and is the founder of Quicksilver Scientific, an advanced nutritional systems manufacturer with a focus on detoxification.

Interventions to improve toxin excretion are extremely valuable for reducing related health issues, according to a 2021 study in the Journal of Environmental Studies and Public Health.

"Accordingly, it is imperative that health providers understand the fundamentals of detoxification physiology and biochemistry to secure functioning of the organs of elimination," the study states.

Aligning with this perspective, Mr. Shade's approach aims to support the body's natural detoxification phases while actively assisting the process. He stresses that "optimal health is built by supporting our body's built-in, profound detoxification abilities regularly."

#### 'Push and Catch'

Effective detox hinges on a simple insight: We push toxins out of cells, then catch and bind them before they cause damage, Mr. Shade said.

"I call this 'push and catch," he said.

Proper detoxification requires supporting all phases while moving toxins in the right direction-from cells to tissues to total elimination.

The "push" phase stimulates cells to release toxins for liver processing and bile secretion into the gastrointestinal tract. The "catch" phase follows within 30 min-

utes, using binders to eliminate toxins. Without this binder step, toxins dumped into the intestines can be reabsorbed, caus- Shade said.

ing detox side effects, Mr. Shade said. "This is what causes a lot of the negative symptoms of a detox or cleanse when they

are done incorrectly," he said. There are several core concepts to Mr. Shade's detoxification strategy.

#### **Glutathione Support**

The liver relies on many enzymes and molecules to detoxify, but one of the most important when it comes to detoxification is glutathione.

Mr. Shade stresses that glutathione can become chronically depleted by toxins and lost during the removal and elimination of mercury and other toxins from the cell. Therefore, it's important to ensure that our bodies have sufficient amounts.

#### Bile

Bile flow is vital for detoxification. After the liver processes toxins, it secretes them into bile to travel to the intestines. But when bile flow stops, toxins get trapped, Mr. Shade said.

This condition, called intrahepatic cholestasis, decreases detox enzymes, allowing toxin buildup, which may eventually lead to liver damage, chronic diseases, and other toxic effects.

Trapped toxins even cause skin problems, Mr. Shade said.

"When the toxins try to leave your body, they can trigger rashes because they affect your immune system," he said. "So, itching and rashes happen when toxins can't leave your body through bile. The bile salts and toxins under your skin cause this itchiness."

The good news is there are natural alternatives to improve and support bile flow.

#### Toxin Binders

Binders help the body to decrease its toxin levels by attracting, attaching to, and removing toxins from the body, preventing their reabsorption and promoting efficient removal.

Toxins excreted into the intestines can get reabsorbed rather than eliminated if detox pathways are impaired. This disruption, called enterohepatic recirculation, forces endless cycles of liver processing and intestinal reabsorption of the self. This is where binders can help.

"There is no universal binder that has an equal affinity for all toxins," Mr. Shade broader protection.

Binders to consider include:

BENTONITE CLAY: Bentonite clay is a volcanic ash with a large surface area that contains minerals, such as calcium, magnesium, silica, potassium, and sodium. It's capable of binding to numerous harmful substances, including mold toxins, heavy metals, and LPS, a pro-inflammatory bacterial byproduct.

**ACTIVATED CHARCOAL:** Contains millions of micropores on the surface that capture toxins in the gut, including, bacterial lipopolysaccharide, metals, and mycotoxins.

CHITOSAN: Studies have shown that it binds heavy metals and microbes. Chitosan is derived from the outer skeleton of shellfish, so individuals who are allergic to shellfish might have issues.

THIOL-FUNCTIONALIZED SILICA: Shown to capture heavy metals and has a high affinity for capturing inorganic mercury.

Because binders can effectively absorb chemicals and toxins, it's possible that they

may bind to beneficial nutrients, although this hasn't been heavily researched. Taking binders on an empty stomach

such as first thing in the morning or before bed can reduce the chance of binding to essential nutrients, Mr. Shade said. People on medications should consult

with a health care professional as binders may interfere with or reduce absorption of medications.

#### Prerequisites for Detox

Detoxing is a holistic process, Shade said, emphasizing a holistic detox must address nervous system regulation, inflammation, and gut health.

#### **Nervous System Regulation**

The sympathetic "fight-or-flight" nervous state impedes detoxification, while parasympathetic "rest-and-digest" mode supports it.

Calming practices that promote relaxation and stress reduction such as tai chi, yoga, mindfulness, and meditation can help to shift the body's nervous system out of the sympathetic mode and into parasympathetic dominance.

"If you're always stressed out, you're not going to be able to detoxify," Mr.

#### Inflammation

Chronic inflammation also hinders detoxification and amplifies mercury toxicity, he said. A 2012 study published

#### Some of the Classic **Bitter Botanicals That Offer Digestive** Support

**Bitter botanicals have** been used for centuries to treat digestion issues by increasing bile flow and balancing gut flora.

Some of the classic bitter botanicals that offer digestive support include:

GENTIAN Increases glutathione levels, improves bile flow (in rats)

**MILK THISTLE** Protects liver from toxins, raises glutathione levels in liver and gut

MYRR Antimicrobial, guards against oxidative damage from lead

GOLDENROD Enhances bile flow, detoxifying, anti-inflammatory

DANDELION Supports liver, shields from oxidative injury

#### Milk thistle is a



ALEXANDER RATHS/SHUTTERSTOCK

same toxins, putting a significant burden in Environmental Research examined on the whole body as it tries to detoxify it- fish consumption in children and compared the levels of mercury with inflammatory markers. Researchers found that higher mercury levels are said, noting that a combination will offer a linked to certain proteins that indicate inflammation in the body.

#### **Gut Health**

Inflammation can also be caused by gut issues such as leaky gut. Leaky gut causes dysbiosis, an imbalance of gut bacteria, releasing inflammatory endotoxins from cell walls into the bloodstream. Endotoxins also amplify heavy metal toxicity and inhibit cell signaling pathways regulating inflammation and liver detox function, Mr. Shade said.

Christy A. Prais received her business degree from Florida International University. She is the founder and host of Discovering True Health, a YouTube channel and podcast dedicated to health and wellness. Prais also serves on the advisory board at the Fostering Care Healing School. She is a contributing journalist for The Epoch Times.

#### The Body's Natural Detoxification **Process**

#### The body's detoxification process has a series of phases that must work in unison to eliminate harmful substances.

The liver is the central detoxification organ and detoxifies in three phases:

#### PHASEI

Toxins are removed from cells and organs. Enzymes then transform them into less-harmful compounds. PHASE II Chemicals bind to toxins, prepping

PHASE III

them for elimination. The glutathione pathway is essential for detoxifying heavy metals in this phase.

Processed toxins are transported

from the blood to the liver, then

to bile, and are removed from the

Detoxification isn't limited to the

liver; the intestines, kidneys, lungs,

and brain also play crucial roles in

eliminating harmful substances

The intestines contribute by

processing and eliminating waste,

toxins from the blood. The lungs ex-

pel toxins through exhaling, and the

brain's glymphatic system helps

clear waste products during sleep.

glutathione include

This means decreasing the toxic

**1. DECREASE THE NEED FOR** 

load on the body by avoiding

2. SUPPLEMENT WITH ANTIOX-

**IDANTS TO DECREASE OXIDA-**

A-lipoic acid has been shown to in-

crease mitochondrial glutathione.

**3. ADMINISTER GLUTATHIONE** 

It can be done orally, topically,

intravenously, intranasally, or in

nebulized form. Oral administra-

tion is controversial, as not all

to be effective. Liposomes and

S-acetyl glutathione have been

shown to be the most effective

4. SUPPLEMENT WITH NUTRI

N-acetylcysteine (NAC) has

as to effective dosage levels.

ENTS TO PROMOTE GLUTATHI-

been shown to increase glutathi-

one levels, although studies vary

Another strategy, Mr. Shade said,

is to encourage our body's natu-

which triggers the production of

enzymes and proteins that aid in

such as lipoic acid, selenium, DIM,

sulforaphane, lycopene, milk this-

tle, and EGCG have been found

to activate Nrf2, along with life-

style factors such as relaxation.

breathing exercises, and regular

exercise, according to Mr. Shade.

Certain natural substances

detoxification, he said.

ral production of glutathione.

This process can be achieved through the Nrf2/ARE pathway,

oral supplements are shown

man-made chemicals.

from the body.

**Strategies** 

to increase

GLUTATHIONE

TIVE STRESS

oral methods.

**ONE PRODUCTION** 

body through urine, feces, or sweat

#### **INTENTIONAL LIVING**

# 15 Things That Weigh More the Longer You Carry Them

#### By Joshua Becker

larly, you know I write a lot about how too much stuff can weigh us down. But it's not just about cleantions and lightening the load in every of fear in my book "Things That Matter." part of life.

Sometimes what drags us down isn't a bunch of things in a closet. It's what's going on inside us. Feelings and worries can weigh a lot too, and hangoverus, affecting the longer you carry them, the heavier our mood and our they get.

For example, here are 15 things you might be carrying inside you that can first step, get pretty heavy over time—espe- no matter cially the longer you've been carry- how small. ing them.

#### Unforgiveness

Harboring resentment toward someone is like clenching a rock in your outstretched hand. The longer you hold onto it, the heavier it feels. Forgiveness is a gift you give to your-

self, freeing you from that weight.

2 Debt Financial debt can be suffocating—and because of interest, it often increases stress over time. Not dealing with it can result in a life that feels both tight and limited. Address it head-on, create a plan, and relieve that burden.

**Pride** 

The weight of our own ego often blinds us to our own faults. Pride makes us defensive and prevents us from growing. Admitting we don't know it all is liberating, lightens our emotional load, and provides opportunity to find help.

**Negative Self-Image** 

Feeling bad about yourself consumes a lot of mental energy. Every time you look in the mirror and feel discontent, it adds to that weight. The first step toward change is ac-

ceptance and love for who you are now. You're not perfect—nobody is. But if you're trying your best, vou deserve more credit than you give yourself.

#### **5** Perfectionism

The constant quest for perfection can be a neverending cycle that only sets you up for disappointment. Over time, it steals joy and adds undue stress to your life. Pursue progress, not perfection. After all, the only way to achieve perfection is to start making progress.

#### 6 Fear of Failure

The fear of failure can paralyze us fyou read my articles or blog reguinto inaction. The longer we hold onto this fear, the more we deprive ourselves of opportunities for growth and happiness. I believe so strongly in the importance L ing out your garage or donating of recognizing this distraction that I inold clothes. It's about removing distrac- cluded an entire chapter on the distraction

#### Procrastination

The burden of tasks left undone can grow heavier each day. They

confidence. Take the

The longer you carry your various worries and certain feelings, the heavier they get.

#### 8 Regret

When we live in the past, we carry the weight of our previous mistakes. Learning from them is beneficial, but dwelling on them is detrimental.

#### Jealousy

Jealousy often creates a cycle of negative thinking and unproductive actions. The longer you allow jealousy to linger, the more it will tarnish your happiness. Releasing it can require dedicated effort.

#### **Social Comparisons**

The need to keep up with others takes a toll. Social media doesn't help, as it presents an unattainable standard. Limit your consumption and focus on your own journey.

#### **Negativity**

Negative thoughts attract negative outcomes. The more you focus on what could go wrong, the less room you have for positive actions and reactions.

#### Unfulfilling

Relationships Relationships that don't add value to our lives end up draining our energy. Sometimes the healthiest thing to do is to walk away. It is certainly important that we have relationships where we selflessly serve and love, but there are

times when holding onto a relationship is only adding weight.

#### Guilt and Shame

While they serve as indicators that we've done something wrong, prolonged feelings of guilt and shame can be debilitating. Seek to make amends, find a remedy, and then let them go.

#### **Unresolved** Conflict

Conflict that is not dealt with becomes heavier over time. Address issues directly and honestly, aiming for resolution and a lighter emotional state.

#### The Need to Be Right

The need to always be right can isolate us and make every interaction a power struggle. Being wrong occasionally doesn't make you less of a person. In fact, it makes you a smarter one.

If you're carrying any of these burdens, take action today. Even if it's a small step, it's still progress.

I assure you, on the other side of these burdens is a life of peace, joy, and purpose. So start unloading these weights today and feel the freedom and lightness that come with it.

Joshua Becker is an author, public speaker, and the founder and editor of Becoming Minimalist, where he inspires others to live more by owning less. Visit *BecomingMinimalist.com* 

## Vitamin B12: A Powerful Tool to Combat Dementia

mood and

NICOLETAIONESCU/GETTY IMAGES

This potent antioxidant shows significant promise and is easily combined with other dementia-fighting activities

#### **By Vance Voetberg**

Dementia cases are rising in every country and are expected to triple globally by 2050, according to a study published in The Lancet. However, emerging research suggests a simple remedy may help stomp the brakes on the disease's progression.

brain and nerve function, is showing promise against this neurodegenerative in the production of serocondition.

Vitamin B12: A Superhero in Neurology

"B12 and folate are required for DNA its involvement in forming and main- to repair damage, but sustained inflamtion of cells, including neurons," Dr. J. is a fatty substance that covers and

neurology and clinical pharmacology at Western University in Ontario, Canada, told The Epoch Times. Folate, a different B vitamin, works in close relation to B12 in forming neurons.

Vitamin B12 is also needed to synthesize neurotransmitters, chemicals that transmit signals be-Vitamin B12, required for healthy tween nerve cells. Specifically, B12 is involved tonin and dopamine, lower levels of which have been linked to dementia.

Another primary role is

David Spence, professor emeritus of insulates nerve fibers, allowing for

efficient nerve signal transmission. Vitamin B12 deficiency causes neuand balance, Dr. Spence said. Demenconsequence.

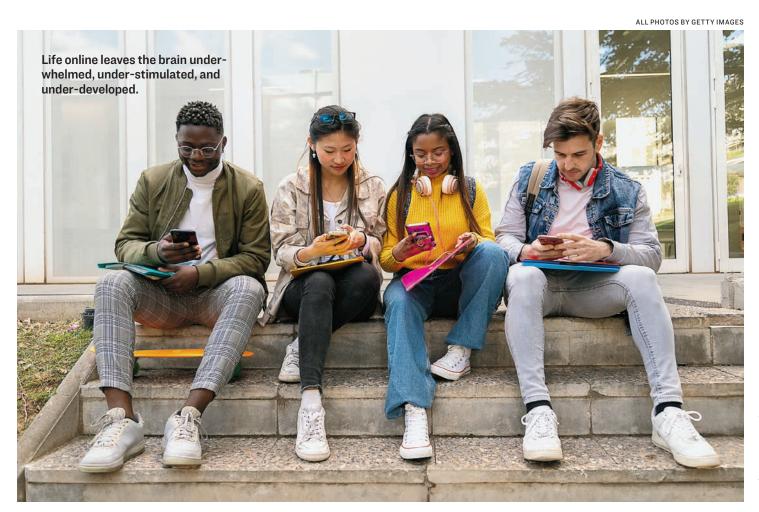
**Being outside** A Powerful Antioxidant also improves While vitamins C and E are well-known antioxidants, vitamin D levels, research suggests that vitamin B12 is also a potent helping maintain neuron health. oxidative stress. Oxidative zheimer's disease].' stress triggers inflammation

In Alzheimer's disease—which ac- authors wrote.

counts for 60 percent to 70 percent of dementia cases-neurons die throughropathy and myelopathy, which can out the brain, connections break down, result in difficulties with coordination and brain regions shrink. Neurons are vulnerable to oxidative stress as they tia is another potential are low in glutathione, a free-radicaleliminating antioxidant, as well as high in polyunsaturated fatty acids that can interact with free radicals and cause damage, according to a 2022 study published in Biomolecules.

"Therefore," the authors of the study wrote, "antioxidants might be potenantioxidant that reduces tial therapeutics to prevent or treat [Al-

B12 is "very interesting" compared to other vitamins, because it not only has synthesis, so are essential to the func- taining the myelin sheath. Myelin mation can contribute to a number of antioxidant properties but also can disdiseases, including Alzheimer's disease. rupt Alzheimer's disease pathways, the



## Smartphones–Seductively Addictive, Detrimental to Mental Health

#### By Ellen Wan

Smartphone addiction is becoming rampant around the globe. Our youth are the most susceptible, although the problem isn't exclusive to them. Social media screen time competes with our focus on loved ones, core life ambitions, and essential chores.

Worldwide, more than 6.6 billion people use smartphones for communication, internet browsing, or gaming. Increasing research reveals that compulsive use of smartphones can significantly affect physical and mental health, leading to depression, infertility, and delayed brain development. Experts suggest that the consequences pression than those who of excessive smartphone usage might be more severe than anticipated.

Addiction is defined as a "pleasureinducing behavior that, through re- risk of developing depression than scored lower on overall happiness and peated exposure, gradually leads to peers spending less time. loss of control and further negative A recent study from Canada posited consequences." Some research sug- that social media addiction might be gests that smartphone addiction is as destructive as other forms of addicsimilar to most addictive disorders. tion, such as gambling and medicine That smartphones are small, easy to abuse. operate, and portable makes the risk of addiction even more insidious and pervasive.

#### Effect of Smartphone **Addiction on Mental Health**

In 2019, a study published in JAMA social media. Psychiatry surveyed 6,595 American teenagers. The study found that compared with those not using social me- hol, and video games: 30 perdia, those using it for 30 minutes to cent preferred not exercising, 3 hours per day had 1.89 times more watching TV, or dining at their risk of developing symptoms (includ- favorite restaurant for a year; ing anxiety and depression). The risk nearly 10 percent would acincreased to 2.47 times for 3 to 6 hours cept infertility or give up a of daily usage and 2.83 times for more year of life; 5 percent and 3

than 6 hours. The more time spent on social media, the stronger the feelings of anxiety, depression, and loneliness.

Although social media can also be accessed via computers, most people use social media through smartphone apps.

A study published in the American Journal of Preventive Medicine in July 2017 revealed that people who frequently check social media were 2.7 times more likely to develop dechecked it the least. Those spending the most time on

ans aged 16 to 30 and found that those (ABS) showed that 90 percent of chilwho frequently accessed so-

cial media on their smartphones were willing to make various sacrifices to stay on About 40 percent were will-

ing to give up caffeine, alco-



Easily accessed addictive content, including social media, is putting children at risk, studies warn.

abilities, visual and audisocial media had a 1.7 times higher tory reactions, and self-control. They procrastination.

percent were willing to lose

5 or 10 years of life, respec-

tively; fewer than 5 percent

sexually transmitted dis-

pounds, shave their heads,

conditioning rather than

Additionally, the re-

search showed that peo-

ple with higher levels of

quit social media.

**Effects of Smartphone Addiction** on Children's Brains

In April this year, data published by

dren spend at least 1 hour per addiction. week on screens, with an increase in the number of children spending more than 20 hours per week. While the proing screens remained at 90 percent, the time spent increased compared with 2017–2018.

memory. After treatment, 84 percent of it's important to use methylcobalamin the patients reported marked symptom or hydroxocobalamin-two different improvement. Most participants also types of B12—because a third type, cyanocobalamin, is toxic in people with impaired kidney function, which often includes older people, he said.

The scientific literature and anecdotal accounts both mark the significance of B12's role in dementia prevention. But a holistic view is also essential, ac-

cording to Pamela Frank, a licensed naturopathic physician. "Dementia is a complex,

likely to be caused by just BIORAVEN/SHUTTERSTOCK one issue, such as B12 deficiency," she told The Epoch Times. "There are likely multiple contributing factors."

percentage of children using screens for more than 20 hours per week has increased from 16 percent to 24 percent.

Longitudinal analyses conducted over several years revealed a concerning trend—a higher frequency of internet use appears to be linked to a decrease in verbal intelligence and a reduced increase in regional gray and white matter volume in growing children across widespread areas of the brain.

The regions affected encompass areas intricately tied to various cognitive functions. These include regions associated with language processing, attention, executive functions, emotion regulation, and reward perception.

In summation, the findings suggest a direct or indirect correlation between frequent internet usage and the decline of verbal intelligence. Moreover, this pattern seems to extend to the development of less gray matter volume in multiple brain areas during later stages. Research from Japan linked students using smartphones for three years since the sixth grade to significantly reduced brain development during that time.

Dr. Ryuta Kawashima, a professor at the Institute of Development, Aging, and Cancer at Tohoku University, conducted research involving more than 70,000 Japanese primary and secondary school students that revealed that longer smartphone usage correlated with greater academic decline.

Dr. Kawashima explained in his Japanese-language book "Online Brain: A dangerous problem revealed from an emergency experiment at Tohoku University" that face-to-face communication stimulates the brain in various ways, leading to active funcwere willing to contract tioning. On the other hand, online communication offers limited brain eases or life-threatening stimulation, activating only parts of conditions such as cancer; the brain. He stressed that the negaand 10 percent to 15 per- tive effects of smartphones cannot be cent were ready to gain 15 overlooked.

#### give up driving, stop trav- **Overcoming Dependency** eling, or live without air **on Smartphones**

Dr. Kawashima advises students to distance themselves from smartphones while studying and limit daily

smartphone usage to one hour or less. The Taiwan Ministry of Health smartphone addiction and Welfare's Department of Mental had decreased cognitive Health suggests two approaches to treating internet addiction based on its causes. One involves psychological therapy to help those with internet higher on fear of making mistakes and addiction to understand themselves, explore identity, effect change, and ultimately improve internet addiction. The other involves medical intervention, as addicts often have other mental disorders such as depression Researchers surveyed 750 Canadi- the Australian Bureau of Statistics and anxiety. Treating these related disorders can help alleviate internet

Dr. Kuen-Hong Wu, director of the Addiction Psychiatry Department of the Ministry of Health and Welfareaffiliated Taoyuan Psychiatric Center portion of 5- to 14-year-olds us- in Taiwan, suggests simple methods to address addiction. These include engaging in activities of interest during leisure time, using apps to control Michelle Ducat, the head of usage, turning off smart devices be-Education and Training Statis- fore sleep, gradually reducing screen tics at the ABS, stated that 40 time, planning regular breaks, turnpercent of children spend 10 ing off notifications, and reducing to 19 hours on screens, but the dependence on technology.

#### **Slowing Cognitive Decline**

Knowing B12's potential neuroprotective role, researchers have studied its efficacy in slowing dementia. Observational studies have found low B12 levels were associated with tive impairment. faster cognitive decline and higher Alzheimer's risk.

A Swedish study found that B12 and dementia, Dr. Spence said levels of less than 250 picomoles per that he first witnessed B12's efliter—when normal levels of B12 are fectiveness when he was an inconsidered to be 260 to 1,200 pico- tern after an injection helped moles per liter-doubled the risk of a severely B12-deficient older Alzheimer's disease developing in woman adults older than 75 within three years, especially if the person is also deficient in folate.

Additionally, a 10-year, cross-sectional ambulance," he said. "Her longitudinal study found that low B12 family doctor called me could sometimes precede cognitive three days later to tell me decline. Researchers suggested that that [her cognitive function] correcting B12 deficiency may benefit had improved remarkably. cognitively impaired seniors.

A 2020 study tested B12 replacement interested in vitamin B12." therapy on 202 patients who were defi-

scored higher on the Mini-Mental State Examination, a screening tool for cogni-

Well-known for investigating the association between B12 deficiency

"[She] was literally on the gurney about to be taken back to the nursing home by

"That was one of the reasons I became

The vitamin can prevent dementia cient in vitamin B12 and who had also and, if given early enough, can also Frank recommends daily aerobic exer- moderate inflammation and support experienced impaired cognition and improve it, Dr. Spence said. However, cise. "Think of a brisk 30-minute walk brain and body health.

**Preventing Dementia** Through Lifestyle

Studies have linked lower B12 levels to faster cognitive decline and higher chronic illness and is un-Alzheimer's risk.

In addition to optimal B12 levels, Ms.

every morning," she said. This strengthens the circulatory

system and increases the production of brain-derived neurotrophic factor (BDNF), which correlates with lower dementia risk. Being outside also improves mood and vitamin D levels, helping to maintain neuron health, Ms. Frank said.

Healthy sleep habits are crucial, as sleep deprivation is associated with a higher dementia risk. Minimizing sugar intake is also key,

she said.

"High blood sugar-induced inflammation damages blood vessels that supply nutrients and oxygen to the brain, impairing circulation," Ms. Frank said. Brain inflammation worsens dementia symptoms.

Ms. Frank also emphasized cultivating a healthy gut microbiome with fermented foods, such as kimchi and sauerkraut, and fiber, because gut dysbiosis has been linked to a greater risk of developing dementia.

A balanced lifestyle approach can

BILLION people use smartphones as their main form of communication and entertainment around the globe.

**MORE THAN** 



## A Life-Changing Bestseller



huan Falun expounds on the profound principles of Truthfulness, Compassion, and Tolerance. It focuses on a long-forgotten term called "cultivation" and the importance of moral character on one's path to spiritual perfection. The book is the main text of the spiritual practice Falun Dafa. It was a national bestseller in China in the 1990s, and has since been translated into more than 40 languages. Find out why it has captured the hearts and minds of tens of millions of people in more than 100 countries worldwide.

What made Falun Gong stand out from other gigong exercises and meditation practices was a moral system—compassion, truthfulness, and forbearance—unmistakably Buddhist in origin. Arthur Waldron

LAUDER PROFESSOR, UNIVERSITY OF PENNSYLVANIA

#### Order Your Copy

Fayuanbooks.com or 845-538-4490 Send check to Fa Yuan, Inc. 20 Smith Road, Middletown, NY 10941





## **Stay Informed**, **No Matter** Where You Are



### Get the best-rated news app. \*\*\*\* 4.8

Based on App Store ratings

Keep your trusted news in your pocket with our mobile app, available on the App Store and Google Play.



## We Made It Easy!

You can upgrade or downgrade, pause and resume, cancel or reactivate your subscription(s), manage your profile, and view your account billing history in a snap, anytime, 24/7.

Access your account at:

### **Profile.TheEpochTimes.com**

#### ← Back to all subscriptions John Doe johndoe@gmail.com Manage my subscription Logout Subscription Type Newspaper Subscription Account Subscription Plan Weekly Print Subscription (billed every 6 months) + 1st 7th month free\* Password Created At January 24, 2020 Subscription **Billing History** June 7, 2023 **Renewal Date** Newsletters Next Charge Amount \$79.00 Epoch Cinema **VISA ····** 1234 Payment Method Update 🖌 Sample **Delivery Address** 1234 Main Street Edit 🖌 Apt 100 ☆ Rewards New York, NY 10001 🛱 Epoch shop E-paper Pause my subscription Need to take a break? Pause your subscription for as long as you need. Choose Premium Content which date you want to pause and then restart. Pause ⑦ FAQ Terms of service Change my subscription 🖂 Contact us Want to change your subscription or plan type? You can change your current plan to any of our other product offerings, or to a different billing schedule. ର Change Cancel my subscription THE EPOCH TIMES



Optional full-body MRI scans to find potential problems can do more harm than good

Full body screening are being sold on a promise that science says they don't deliver even if social media influencers claim otherwise.

#### By Sheramy Tsai

41-year-old Chicago resident, confessed after receiving unclear results from a comprehensive MRI scan that later turned out to be incorrect.

For a year leading up to this, Ms. Siatkowski had faced a series of medical issues that hindered her ability to walk. Despite emergency room visits and rounds of physical therapy, the cause of her suffering remained nameless.

Desperate for answers, and with a daunting five-month wait before she could see a neurologist, she had turned to her last resort—a \$2,500 state-of-themoney would deliver the clarity prom- is being overlooked. In a society anx-

ised by the company providing the scan. Instead, it plunged her into deeper con-"I felt defeated," Rachel Siatkowski, a fusion, misinterpreting existing conditions and reporting phantom ones.

> Ms. Siatkowski's ordeal is an example of a broader issue in modern health care: the profound emotional and financial costs when advanced diagnostics miss the mark.

#### Unpacking the Magnetic **Pull of Modern Scans**

In the maze of U.S. health care, patients frequently navigate through delays and hurried consultations, emerging with more questions than answers. This experience prompts the nagging quesart full-body MRI scan. She hoped the tion of whether important information

These comprehensive **MRI scans** are currently available only to people who can afford the out-of-pocket expenses, as health insurance companies do

not cover them.

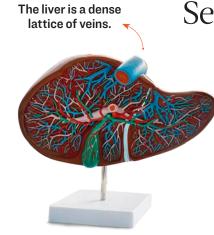
ious for immediate results, one can't help but wonder whether there's a more streamlined route to comprehensive health insights.

The answer, for many, lies in the allure of full-body MRI scans. These procedures, completed in the span of a lunch break, promise a panoramic view of our health, flagging everything from incipient cancers to vascular complications.

Prenuvo, headquartered in Redwood City, California, stands at the forefront of the industry. The company's unique offering proclaims: "We provide whole body, radiation-free MRI scans for early detection of over 500 cancers and diseases." Its mission reflects an ambition Continued on Page 16

for the liver's many crucial roles, including bile production, plasma protein and cholesterol synthesis, blood glucose regulation, hemoglobin processing, blood detoxification, clotting 90 percent removal, it can regrow to regulation, and bacteria removal from

age, according to a recent German from its unique cellular structure and study. Liver cell renewal is unaffected internal division into lobes, Dr. Brian by aging, making the organ perpetu- Kessler, who specializes in sports medally youthful. With proper health, even icine, pain management, and rehabilitative medicine, told The Epoch Times. Continued on Page 17



### The Liver's Phoenix-Like Powers of Self-Healing-and How You Can Help

#### By Mercura Wang

Like a phoenix rising from the ashes, the human liver possesses a remarkable capacity to regenerate itself making this vital organ practically old on average, regardless of a person's The liver's regenerative abilities stem ageless.

**Exceptional Self-Healing Abilities** As our body's largest internal organ, the liver possesses a remarkable ca- older people can have young livers. pacity for self-repair. Even after up to

full size and resume normal function. the bloodstream. Furthermore, transplanted partial livers grow to completion within weeks. How Does the Liver Get Its

The liver is always less than 3 years **Regeneration Capability**?

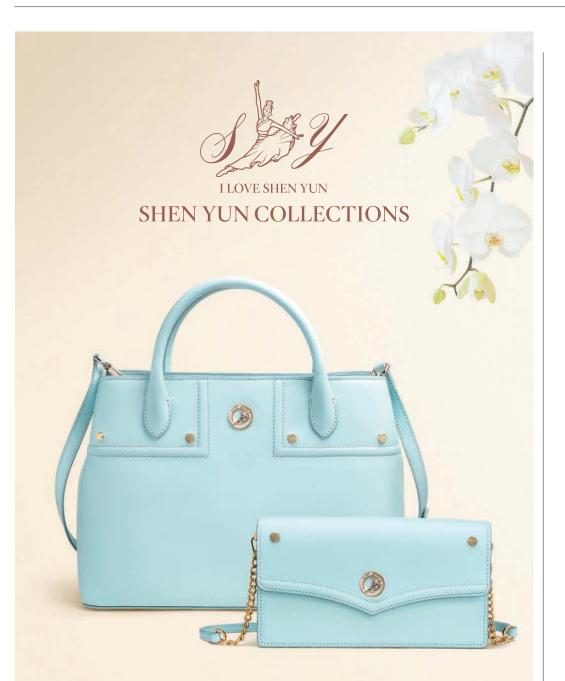
These regenerative abilities are vital



## Care about health? So do we.

Get practical health news for your daily life for just \$1.\*

**ReadEpoch.com** digital subscript



## The Spirit of Mulan

Elegance of character. Strength of will.

SHENYUNCOLLECTIONS.COM | 1.800.208.2384



Test your brain with one of the biggest libraries of crosswords, puzzles, brain games, and sudoku on the web.

Plav now at EpochFun.com





## Experts Warn Against Corn Syrup in Baby Formula

Unlike U.S.

companies,

formula

makers in

prohibited

from

replacing

lactose with

corn syrup.

US children are drinking glucosebased baby formula that is banned in Europe

#### **By Vance Voetberg**

Caramel. Licorice. Donuts. Corn syrup lurks inside many of America's favorite sweet treats, and its negative health effects are well known. But it's not as well known that this controversial sugar is ing corn syrup as a key ingredient. One used in baby formula, the sole source of formula maker argues, "Corn syrup is nutrition for millions of infants across an important energy source, and infant the country.

Recent research suggests this common formula ingredient could set babies up for worse health down the road, raising questions about the long-term risks.

Lactose Versus Glucose The U.S. Food and Drug Administration (FDA) requires food companies to include at least 30 specific nutrients to sell infant formula, including essential vitamins, minerals, and carbohydrates. Carbohydrates are critical for infant **the European** digested or cause less crying development, so they are the Union are or gas," he said. But most of backbone of most infant formulas, just as they are in human breast milk.

However, not all carbohydrates are created equal, and there is significant variation in the types of carbs optimal for infants.

While most people ingest carbohydrates free formula can be preferable, he said. as glucose, infants consume carbs in the form of lactose since their gastrointestinal tract is still developing, according to a 2020 paper in Clinical and Experimental Pediatrics. Thus, lactose is the main carbohydrate in breast milk.

Major formula companies use corn syrup, which is pure glucose, instead of lactose. This switch doesn't come without downsides, according to childhood obesity expert Michael Goran, who holds a doctorate in biochemistry and is a professor of pediatrics at the University of Southern California Keck School of Medicine in Los Angeles.

"The body wants to have stable blood glucose levels, but if glucose is the main source of energy, it is more difficult to control levels in the circulation," he told The Epoch Times. "The spikes and crashes will likely lead to greater energy highs and lows, eventually compromising the body's ability to keep blood glu-

cose under proper control." Mr. Goran started a study to determine whether glucose-based, lactose-reduced infant formula Formula makers use made with corn syrup is assoglucose because of ciated with increased obesity marketing and cost risk compared with lactoseadvantages. based formulas.

The study found a 10 percent higher obesity risk at age 2 in babies fed corn syrup formula compared with those fed lactose formula. A higher rate of obesity remained "statistically significant" through age 4, Mr. Goran said.

Prior research in Hispanic infants also links corn syrup formula to negative effects on gut bacteria that, according to studies, can contribute to childhood obesity, food fussiness, and diminished food satisfaction.

#### Why Use Corn Syrup?

As the research against corn syrupbased formulas mounts, many U.S. formula makers remain resolute in usformulas are rigorously evaluated for safety by national and international authorities, including the FDA."

Companies use corn syrup instead of lactose for two reasons, Dr. Robert Boyle, a London pediatrician and

an expert in diagnosing and treating allergies in children. told The Epoch Times.

The first is for marketing purposes. "Low-lactose or lactose-free claims are sometimes linked to claims that the **countries in** formula will be more easily these claims aren't supported by robust scientific evidence, he added.

The second reason is medical. Some infants, though very few, are born with lactose intolerance, and if they are formula-fed, then a lactose-

Additionally, corn syrup is cheaper and easier for manufacturers to process than lactose, according to Mr. Goran. Glucose can easily be generated from organic materials.

#### **Outlawed in Europe**

in in

Unlike U.S. companies, formula makers in countries in the European Union (EU) are prohibited from replacing lactose with corn syrup. Additionally, the EU mandates that at least 30 percent of the carbohydrates in the formula come from lactose. This contrast with U.S. formulas has attracted health-conscious parents, who seek European formulas perceived as higher quality.

"The EU is ahead of the game and recognizes the fundamental difference between lactose and corn syrup," Mr. Goran said.

Most babies receive at least some formula milk, so it can be challenging for health care professionals to convey the benefits of breastfeeding fully, Dr.

Boyle said. This is because emphasizing breastfeeding's advantages too strongly can make parents who use formula feel inadequate or judged.

When breastfeeding isn't an option, the whole picture regarding corn syrup for-

mula should be presented. "Parents are not fully informed about the difference in various formulas," nor about their effects on the body, Mr. Goran said.

#### **FOOD AS MEDICINE**

# The Many Medicinal Effects of Cayenne Pepper

Capsaicin is commonly used to treat pain from arthritis, nerve pain, headaches, and muscle pain

Cayenne pepper can benefit the heart, resolve headaches, boost the immune system, and more

#### By Emma Suttie

There's a lot more to cayenne peppers than their spicy flavor. In fact, these small, bright red peppers are loaded with health benefits that have been used medicinally for millennia.

Cayenne peppers are native to Central and South America, and the oldest spec- ter. He said that in 35 years of practice, imens were discovered in Mexico from he never lost a patient to a heart attack seeds found on the floor of caves and in because if they were still breathing, published in the journal aptly named ancient fossilized feces. Based on these he would pour them samples, scientists have concluded that a cup of hot water people were eating cayenne peppers as and cayenne, and far back as 7000 B.C. and that the peppers were first cultivated between 5200 they would be up B.C. and 3400 B.C., making capsicum and around. peppers one of the oldest cultivated plants on earth.

Cayenne peppers, or Capsicum annuum, belong to the Solanaceae, or common uses nightshade, family of plants that include for capsicum other culinary spices such as crushed red peppers, chili powder, paprika, and foods such as eggplant, potatoes, and to relieve pain. tomatoes.

Cayenne peppers contain a bioactive compound called capsaicin that gives them their spicy flavor. The intensity of any pepper's spiciness is usually measured in Scoville Heat Units (SHUs) using the Scoville scale, created by a U.S. pharmacist named Wilbur Scoville in the early 1900s. The scale subjectively measures people's sensitivity to the capsaicin and related compounds in different peppers, giving them a score that ranges from zero (no spiciness) to one of the hottest peppers known—the ghost pepper—which measures more than 1 million Scoville Heat Units. Cayenne peppers have a score that ranges from 30,000 Scoville Heat Units to 50,000 Scoville Heat Units.

The capsaicin in cayenne and other peppers is also responsible for their medicinal properties, which are plentiful. These are just some of the health benefits of cayenne peppers.

**Benefits the Heart** 

Cayenne pepper is a powerful stimulant, vasodilator, and blood thinner and is well known for benefiting the heart and circulatory system. It regulates blood flow while strengthening the heart, vessels, and nerves and is often used as a heart and digestive tonic. Cayenne peppers also

contain salicylates, which are often used in medications to treat pain, fever, and inflammation. Salicylates, such as aspirin, thin the blood by inhibiting platelet aggregation and reducing blood clotting, making them protective against heart disease. Natural salicylates are also known to have anti-inflammatory, neuroprotective, anti-cancer, and antidiabetic effects.

**Capsaicin inhibits** stomach acid secretion, stimulates alkali and mucus secretion, and particularly stimulates gastric mucosal blood flow.

Research suggests that the capsaicin in cavenne and other peppers helps to clear lipid deposits that can build up and cause narrowing of the arteries, restricting blood flow to the heart. Capsaicin's ability to dilate blood vessels and remove toxins adds to its heart-protective effects.

A study published in the Journal of the American College of Cardiology, which included 22,811 adult men and women in Italy, found that eating chili peppers regularly was associated with a lower risk of dying from heart disease.

A meta-analysis involving 570,062

people found that chili pepper con- overweight or obese subjects with sumption was associated with a lower 6 milligrams a day of capsinoid risk of all-cause, cardiovascular, and cancer-related mortality.

John Christopher, naturopath, herbalist, and founder of the School of Natural Healing, famously stopped heart attacks using cavenne pepper in some hot wa-

within minutes,

**Relieves** Pain One of the most in cayenne and other peppers is Capsaicin is used to treat pain from arthritis, nerve pain, muscle pain, and headaches, to relieve itching, and to treat psoriasis—in which dry, itchy patches build up on the skin.

Several studies have shown capsaicin to be beneficial in treating migraine and cluster headaches. One double-blind study treating patients for migraines found that those in the group treated with capsaicin showed improvements of 50 percent to 80 percent as compared with those given a placebo.

A double-blind, placebo-controlled trial found that when patients with cluster headachesexcruciating headaches that usually recur over several weeks or months-

used intranasal Cayenne pepper can capsaicin over a seven-day period, tion, soothe coughs, their headaches and combat colds were significantly less severe than the headaches in the placebo group members were.

alleviate conges-

and flu.

A double-blind, randomized study of a topical 0.025 percent capsaicin cream used for the pain associated with osteoarthritis concluded that the capsaicin was superior to a placebo at providing pain relief. Another study, published in the British Journal of Anesthesia, investigated the painreducing ability of an 8 percent capsaicin patch on peripheral neuropathy. Researchers found that "a single 60-minute application in patients with neuropathic pain produced effective pain relief for up to 12 weeks." The study authors also noted that the "advantages of the high-concentration capsaicin patch include a longer duration of effect, patient

compliance, and low risk for systemic effects or drug-drug interactions."

#### Helps Weight Loss Capsaicin has also been shown to help

with weight loss. A double-blind, randomized, place-

bo-controlled trial found that treating

for 12 weeks was associated with abdominal fat loss, measured by dual-energy X-ray absorptiometry. Body weight also decreased more in the capsicum group. Notably, none of the patients experienced any adve se events from the treatments.

In a randomized controlled tr al Appetite, people who ate red chili peppers with every meal had fewer cravings Capsaicin is the and an increased feelcompound that ing of fullness. The study gives cayenne pepconcluded that adding pers their medicicapsaicin to their diet increased feelings of fullness and tended to prevent overeating when participants could eat as much or as often as they wished. The authors also noted that capsaicin decreased the desire to eat after dinner.

nal effects.

#### **Boosts the Immune** System

Cayenne peppers are high in vitamins and minerals that benefit the immune system. Cayenne contains ample vitamin C and vitamins B6 and E, which are well known for their immuneboosting effects. Cayenne peppers also contain antioxidants that include vitamins C and E, and choline, as well as carotenoids such as beta carotene, lutein, zeaxanthin, and cryptoxanthin color and a source of vitamin A.

The vitamin A in cayenne pepper protects against pathogens by helping to build up healthy mucous membranes in the nasal passages, mouth, and lungs, thus helping the body to fight off infections. A study titled "Dietary Capsaicin and the Immune System" notes that capsaicin in cayenne and other peppers has anti-inflammatory and immunemodulating properties. It states that capsaicin is rich in vitamins C and A, and bioactive phytochemicals that fight pathogens,

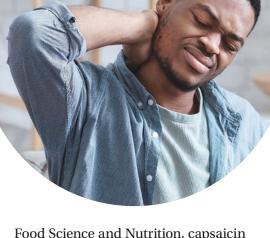
strengthen immune cells, and significantly boost the immune system. Cayenne pepper is also an excellent remedy to relieve congestion and coughs, and to fight colds and flu. A study published in the Journal of Allergy and Clinical Immunology found that using a capsaicin nasal spray showed "significant and rapid" relief in all nasal symptoms in subjects with non-

allergic rhinitis, a condition involving \$1,000–Mr. Christopher started using inflammation of the nasal passages that causes sneezing, a stuffy, drippy nose, and a reduced sense of smell.

#### Prevention and Healing

of Gastric Ulcers Although it seems counterintuitive that something so spicy could benefit the stomach, research has shown capsaicin can help prevent and heal stomach ulcers.

According to a review published in



Food Science and Nutrition, capsaicin inhibits stomach acid secretion, stimulates alkali and mucus secretion, and particularly stimulates gastric mucosal blood flow, which helps prevent and heal gastric ulcers.

In a different study titled "Capsaicin and Gastric Ulcers," the authors state that capsaicin stimulates afferent neurons in the stomach, which signal for protection against injury-causing agents. It states that "epidemiologic surveys in Singapore have shown that gastric ulcers are three times more common in the 'Chinese' than among Malaysians and Indians" who consume more chilis.

#### Adding capsaicin to the diet increased feelings of fullness and tended to prevent overeating when participants could eat as much or as often as they wished.

#### Risks

As with all foods and herbs used as medicines, some caution is warranted. Despite cayenne's many health benefits, some people have reported adverse reactions to applying it topically and taking it internally-mostly irritation, inflammaa pigment that gives tion, and a burning sensation. Because the peppers their red we all have our own unique physiology, health issues, activity levels, etc., herbs and spices can react differently in each individual. As always, moderation is key, and if you're on any medications, introduce cayenne with the guidance of a health care provider. For those who aren't on medications, introduce it gradually and see how you feel.

> If you use fresh peppers, be mindful not to touch your eyes while handling them. The easiest way to take cayenne is by adding some dried spice to foods or drinks to see how you tolerate it. Also, if you're taking blood thinners, speak to a health care provider before introducing cayenne, as it's a potent blood thinner and may interact with or compound the effects of your medications.

#### **Final Thoughts**

Cayenne pepper

can enhance heart

health and boost cir-

culation.

Cayenne is a magnificent spice that's easy to find, inexpensive, and incredibly versatile-not only to treat

a considerable number of conditions, but also for strengthening the body and preventing illness.

Mr. Christopher, the herbalist who famously stopped heart attacks with cayenne in hot water, had a number of health challenges early in his life. Because of severe hardening of the arteries in his 20s and 30s-which he said was so severe that no insurance company at the time would give him a policy, even for

cayenne. He worked up to taking one teaspoon three times a day. After 10 years, at the age of 45, he was examined by two doctors, the first telling him that despite being 45 years old, he had the venous structure of a teenage boy. The second doctor told him, with a degree of shock, that his systolic and diastolic blood pressure was perfect despite his age. Mr. Christopher credited his healthy blood vessels and perfect blood pressure to cayenne.

## Costly Scans Offer an Illusion of Assurance

#### **Continued from Page 13**

to shift the paradigm, harnessing state-of-the-art MRI technology for both reactive and anticipatory health management.

The logic seems impeccable: Preemptive action could be a lifesaver. Why not harness advanced technology to stay a step ahead? It's a proposition that's hard to ignore, especially when pop culture icons—such as Kim Kardashian, Maria Menounos, and Paris Hilton—champion it.

Full-body MRI scans use magnetic fields and radio waves to produce detailed images of internal body structures without the radiation risks of allure of these scans isn't just the tech- or trivial findings. health, having a clear, comprehenunmatched reassurance. But does it?

#### The Downsides of Scan

#### Dependence

Dr. Evan Levine, a cardiologist based in New York and acclaimed author of "What Your Doctor Won't (or Can't) Tell You," warns about the escalating reliance on full-body scans. Though promising, these scans come with of such scans, stating that it's found several inherent risks.

#### **False Positives**

While the marketing campaigns for more benefit than harm to people bethese scans paint a captivating pic- ing screened." ture-advanced technology detecting early-stage tumors—they often Most Scans Are Inconclusive by inconclusive or benign findings.

Epoch Times. "Lesions in these individuals are more frequently indicative of disease rather than being benign.

tients to these tests can be problematic. Many times, a detected lesion isn't pathologic at all. As a result, patients may endure unnecessary anxiety, biopsies, and even potential surgeries simply because they opted for an upscale test."

#### **Ethical Issues**

The ethical problem of administering full-body scans to symptom-free individuals is a point of contention. Major medical bodies, including the American College of Radiology and the American College of Preventive Medicine, have consistently advised against it, warning of the risks of superfluous medical procedures and the traditional X-rays. For many, the true psychological toll from possible false

nological prowess but also the peace So far, there is no proof that fullof mind they promise. In a world of body screening provides meaningful uncertainties, especially regarding health benefits relative to its costs, the American College of Radiology stated sive view of one's body should provide in April. The organization expressed concern that these scans mainly find insignificant issues that don't actually improve health. This leads to unnecessary extra testing and procedures, resulting in unneeded stress and expenses for patients.

> Echoing this sentiment, the U.S. Food and Drug Administration noted its skepticism about the benefits "no scientific evidence demonstrating that whole-body scanning of individuals without symptoms provides

gloss over a crucial downside: a pro- Often seen as a beacon of proacnounced tendency for false positives. tive health care, screenings have an For example, the scans sometimes alarming caveat: About 95 percent of find tumors that don't exist, leaving those screened receive abnormal remany patients subjected to a cascade sults, but less than 2 percent of these of invasive tests and biopsies triggered findings indicate malignant cancers. This discrepancy points to the vast "In high-risk patients, such as those number of patients potentially funwho have smoked for decades, scans neled into unnecessary and costly can be life-saving," Dr. Levine told The diagnostic procedures, each fraught with risks.

Adding weight to these worries, a meta-analysis involving 2.1 million "However, subjecting low-risk pa- people raised questions about the ef-



In a society anxious for immediate results, one can't help but wonder whether there's a more streamlined route to comprehensive health insights.

While about

PERCENT

of those screened

might receive

abnormal results,

less than

PERCENT

of these findings

point to malignant

cancers.

Are some of these

readings driven

more by profit

than genuine

expertise?

ficacy of some prevalent screenings, such as breast imaging, computed tomography of the chest for lung cancer, and prostate-specific antigen tests for prostate cancer. The study found that only sigmoidoscopy showed a significant lifetime gain of 110 days, while other screening tests didn't exhibit significant differences in lifetime gains. The follow-up periods ranged from 10 to 15 years for various tests.

Given these findings, many experts are calling for a careful reevaluation of these techniques, weighing their advertised advantages against the actual risks they present.

#### Are the Right People

**Reviewing the Results?** Dr. Richard Semelka, a radiologist with 28 years of experience and a known expert in body MRI, raised an important question: Are those interpreting these scans truly qualified?

"In an ideal scenario, I'd want a professional with my level of experience evaluating the body aspects and a proficient neuroradiologist delving into the neurological facets," he told The Epoch Times. Highlighting the profound effects of accurate scan interpretation, Dr. Semelka said it's important for people to diligently research the credentials of radiologists before undergoing any procedure.

Ms. Siatkowski's experience underscores the significance of Dr. Semelka's concerns. "I honestly wish I had a better experience. I don't know if it was just the location I used or maybe the person who read my report that could have been better, but I had such high hopes for the test," she said.

#### The Murky Economics of Full Body Scans

Compounding these medical uncertainties is the intricate financial web associated with these scans. Full-body scans are usually not covered by traditional insurance. The financial burdens intensify when these scans point toward further medical investigations or treatments especially when subsequent tests prove uneventful

"If these additional procedures weren't initially deemed necessary, why should insurance be burdened with the cost?" Dr. Levine said. "Unwarranted results only drive up the broader health care bill."

Full-body scan companies such as Prenuvo have carved out a substantial niche in the expanding medical diagnostics market. Their offerings, priced between \$1,000 and \$2,500, position them at a premium tier in medical imaging services.

Other companies, including Ezra, SimonOne, and Neko Health, offer consumers elective full-body imaging services. Neko Health secured about \$65 million in investments in 2023, and Prenuvo raised \$70 million in 2022.

#### It's a proposition that's hard to ignore, especially

when pop culture icons-such as Kim Kardashian, Maria Menounos, and Paris Hiltonchampion it.

Full body

scans can

misleading

results

like false

positives

that lead to

unnecessary

treatments.

deliver

#### ALL PHOTOS BY SHUTTERSTOCK

#### For many, the true allure of these scans isn't just the technological prowess but also the peace of mind they promise.



#### **Emotional Tolls**

MRI scans and other advanced diagnostics serve crucial roles in specific medical scenarios. However, their widespread use, especially when unnecessary, raises concerns about our dependence on them, potentially sidelining our ability to read our bodies' nuanced signals.

Moreover, when these scans unveil benign anomalies, what is the physiological fallout? Consider the scenario in which a scan identifies a diminutive nodule in the lung, assessed as minor and not immediately worrisome. With such knowledge, might every future cough or common cold induce undue stress?

Kindled by the shadow of incidental findings, this perpetual anxiety may have genuine health implications. Since the body is constantly changing, certain conditions may appear and disappear. But these seemingly harmless test results can plant lasting seeds of worry.

Instead of leaning solely on technology, people can take an active role in their health choices, fostering a deep trust in their bodies' messages. This intuitive approach not only is psychologically empowering, but also might be a financially sustainable alternative to pricey, technology-driven diagnostics.

#### Intuition: Rekindling Our **Natural Health Compass**

Long before the advent of body scans, humans relied on intuition and selfawareness as primary health indicators. For centuries, traditional societies have turned to holistic approaches emphasizing the importance of attuning oneself to bodily cues.

Modern science affirms this ancient insight. A 2022 study published in BMC Primary Care emphasized the diagnostic value of patients' gut feelings as recognized by primary care doctors. They found that a patient's intuitive feelings often unmasked potential health concerns and enriched their understanding of the patient's condition.

"Overall, I find that intuition helps patients feel better faster," Dr. Donielle Wilson, a bestselling author and naturopathic doctor with more than 22 years of experience, said on her website. "I think it is because when they make choices (about their health) based on their own intuition, they are more accepting of themselves, more empowered about those decisions, and more likely to continue on that path to improving their health."

Ms. Siatkowski's journey reminds us of the very human face behind this issue. "In my search for answers, I learned that advanced technology doesn't always provide the clarity we seek," she said.

### The Liver's Phoenix-Like Powers of Self-Healing and How You Can Help It

**Continued from Page 13** 

#### Liver Parts Can Regrow Independently

The liver contains four lobes—left, right, caudate, and quadrate—and each can regenerate independently.

If one or more lobes are removed, they don't regrow. As the remaining lobes undergo compensatory hyperplasia, proliferating and expanding in size until the liver regains its original mass, they take over the functions of the removed ones. The liver's overall shape is permanently changed after regeneration, but its function is fully restored.

#### Liver Cells Divide to Repopulate Damaged Tissues

The liver's lobules, the building blocks of the liver tissue, reveal another secret behind the organ's renewable powers. Lobules comprise hexagonal arrangements of hepatocytes (liver cells) clustered around a central vein. Each lobule has three zones with distinct roles.

Zones 1 and 3 hepatocytes produce metabolic enzymes responsible for survival and homeostasis, according to a 2021 study.

#### The liver's regenerative abilities stem from its unique cellular structure and internal division into lobes.

Researchers also identified a signaling pathway that activates zone 2 cells to repopulate injured tissue in the other zones. This zonal compartmentalization allows efficient targeted renewal of damaged regions, enabling the liver's regenerative capacity. Though identical in type, zonation lets hepatocytes alter their function based on location.

**Growth Factors Stimulate** Cell Growth

The liver's regeneration capacity also relies on specialized growth factors that are released when the organ is injured, according to Dr. Kessler. The hepatocyte growth factor

(HGF) and its specialized receptor (MET) are key players. HGF activates MET to induce cell proliferation, migration, and the formation of new blood vessels in organs, including the liver. This pathway facilitates the development, regeneration, and reduction of tissue scarring.

#### Other Supporting Systems The liver relies on several other supporting

systems to regenerate itself. For instance, the liver's extensive blood vessel network heavily influences its ability to regenerate, which relies on the creation of new blood vessels. Platelets accumulating in the liver post-injury contain growth factors. The blood-clotting protein fibrinogen signals platelets to accumulate, and its levels may predict high-dose niacin (vitamin B3). regeneration success.

The immune cells in the liver, including natural killer T cells, natural killer cells, and regulatory T cells, reduce inflammation to aid tissue healing.

Additionally, the extracellular matrix (ECM), a dynamic scaffolding around liver cells, undergoes constant remodeling, especially during injury repair. The ECM structurally supports liver cells and is composed of water, proteins, and proteoglycans.

How Does the Liver Regenerate Itself?

Liver regeneration occurs in two scenarios.

#### Structure of Liver Lobule

The liver is made up of hexagonal structures called lobules which have three zones with distinct and critical responsibilities, including producing metabolic enzymes and repopulating injured tissues.



#### Partial Liver Resection

Partial hepatectomy removes part of the liver to treat tumors or cancer or to obtain a partial liver for transplant. The goal is to regenerate the total hepatocyte count and mass through cell proliferation and enlargement.

In a living-donor transplant, the recipient's diseased liver is replaced with part of the donor's healthy liver.

After the surgery, both donor and recipient livers regenerate to full size within weeks.

Liver Cell Activation for Tissue Repair Liver injuries from toxins, viruses, or immune attacks trigger inflammation and activate immune cells to release cytokines and growth factors, initiating regeneration. Near the injury, hepatocytes rapidly divide to replace lost cells.

The liver also produces small epithelial cells that can differentiate to regenerate damaged tissue.

In severe cases, if hepatocytes are insufficient, hepatic progenitor cells activate and differentiate to repair the liver.

#### The Liver Knows Just When to Grow and Shrink

The liver can precisely control its growth and size, even shrinking when needed.

For example, a British study found that mouse livers decreased in weight during alternate-day fasting for one week, affecting metabolism. But upon resuming normal eating, proliferation increased and the livers regained their original size. Similarly, low-sugar diets deplete glycogen, causing temporary liver shrinkage.

When Is Damage Irreversible? Certain diseases and toxins can overwhelm repair mechanisms and cause permanent damage despite the liver's regenerative capacity.

Even though the liver metabolizes medications and toxins, some drugs taken excessively or with alcohol can harm the liver beyond its ability to heal. These include NSAIDs, or nonsteroidal anti-inflammatory drugs, such as ibuprofen, amiodarone (for heart rhythm problems), birth control pills, statins, anti-seizure medications, and

#### In a living-donor transplant, the recipient's diseased liver is replaced with part of the donor's healthy liver.

Repeated severe injury causes accumulating scartissue, called fibrosis, which can advance to cirrhosis-permanent damage impairing liver function.

Maintaining liver health through moderation and awareness is vital in preserving the organ's lifelong regenerative potential.

Preserving the liver's lifelong regenerative capability requires a simple moderation of our habits.

### THERAPIES

Emerging therapies to enhance liver regeneration include the following:

#### **1. LIVER TISSUE ENGINEERING** This regenerative medicine ap proach aims to repair, regenerate,

or replace damaged tissue to re-create liver function and treat acute or chronic liver diseases.

2. SMALL MOLECULE DRUGS These assist transplanted hepatocyte repopulation by promoting proliferation, overcoming their limited engraftment. This is a potential treatment option for endstage liver disease

#### **3. YAMANAKA FACTORS**

These help make liver cells younger, accelerating healing. These embryonic stem cell factors can make liver cells younger by in vivo cellular reprogramming.

4. STEM CELL EXTRACELLULAR VESICLES Stem cells release biological

nanoparticles known as extracellular vesicles, which reduce damage and boost repair.

## HOW TO HELP THE LIVER REGENERATE

"To speed up your liver regeneration, whatever the cause of the damage vou need to stop damag ing it first," Dr. Kessler said. Adopting a healthy lifestyle in the following ways helps:

#### 1. AVOID ALCOHOL

"Limiting alcohol consumption is crucial, as excessive alcohol intake can lead to liver damage and impair the regenerative capacity of the liver," Dr. Saurabh Sethi, a Harvardand Stanford-trained hepatologist, told The Epoch Times.

2. AVOID SMOKING Smoking increases the risk of fatty liver disease, the most common chronic liver condition.

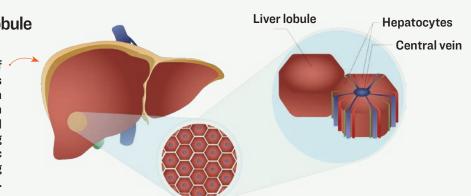
3. AVOID ILLEGAL SUBSTANCES Using substances such as amphetamines, cocaine, and khat (an herbal stimulant) can cause liver disorders ranging from mild dysfunction to sudden failure.

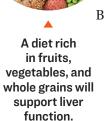
4. MANAGE WEIGHT

Excess weight increases the risk of fatty liver disease, affecting up to 90 percent of those with severe obesity.

#### **5. EAT HEALTHY** Adopting a healthy lifestyle is es-

sential for maintaining a youthful liver, Dr. Sethi said. "This includes consuming a balanced diet that is rich in fruits, vegetables, and whole grains." Garlic also has compounds that improve liver health.







## Lead Linked to Millions of Deaths, Shrinking IQs

Study finds lead exposure caused \$6 trillion in economic losses in 2019 and millions of heart disease deaths

#### By Mary Gillis

n 2019, an estimated 5.5 million The overall IO loss wasn't adults worldwide died from heart equally dispersed globally. disease, and kids under the age of 5 The study revealed that lost a combined 765 million IQ points more than 95 percent of IQ L due to lead exposure, results of a new loss occurred in developing modeling study published in the journal countries—nearly 80 per-The Lancet Planetary Health show.

Evidence shows that exposure to met- estimated. als such as lead interferes with human intercellular function, resulting in oxi- that the populations in low- and middledative stress and chronic inflammation, which can lead to hypertension, high percentage of lead exposure's health and cholesterol, and changes in the heart's cost burden, with blood lead levels severability to contract. This puts individuals at risk of ischemic heart disease, stroke, left ventricular hypertrophy, heart failure, and peripheral artery disease.

In addition to reduced IQ, lead exposure stunts brain development in children. A 2022 study shows that this can result in negative behavioral changes such as diminished attention span, increased antisocial behavior, and learning difficulties. A 2023 study found that the effects of exposure followed children into adulthood and were tied to poorer performance on standardized tests later in life.

"Our estimate that 5.5 million died in 2019 from lead exposure was a major surprise," Bjorn Larsen, a study author, environmental economist, and consultant to the World Bank, told The Epoch Times. "The reason for our higher estimate of deaths is that we included a whole range of effects of lead on the cardiovascular system that were not included in the 2019 Global Burden Disease (GBD) study."

The estimate is six times higher than what the GBD study found despite the current research being based on the same data, Mr. Larsen said. The GBD study on lead's effect on heart disease was exclusively measured in terms of its effect on blood pressure. The new study looked at several other ways in which lead affects the heart, such as its hardening of arteries that can lead to stroke, according to Mr. Larsen.

The study results raise serious questions about the long-term consequences of lead poisoning and how it poses a than in high-income countries. much more serious worldwide public health threat, study coauthor and World of lead exposure at \$6 trillion in 2019, Bank Global Lead for Pollution Manage- equivalent to about 7 percent of the ment and Circular Economy Ernesto global gross domestic product. This Sánchez-Triana told The Ep-

och Times. "There is no safe level of exposure to lead," he said.

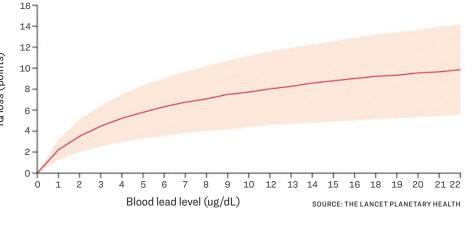
#### Global Cost, IQ Loss,

3.75

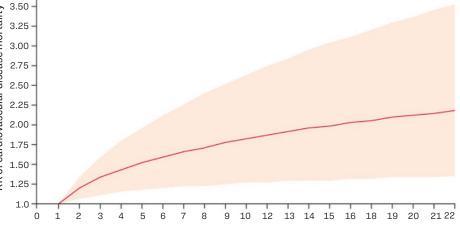
and Air Pollution cent higher than previously

The paper gathered evidence showing posure may be the third most significant income countries also share a significant of hypertension, dietary risks, tobacco altimes higher in low-income countries Lead Exposure and Disease





The relative risk of cardiovascular disease deaths from lead exposure.



Blood lead level (ug/dL) SOURCE: THE LANCET PLANETARY HEALTH, SEPT. 11, 2023

they're not unprecedented. Neurotoxins emitted from the poisonous metal are found just about everywhere and in everyday items ranging from

The World Health Organization says,

"There is no level of exposure to lead that

While the study results are sobering,

is known to be without harmful effects."

ceramics, soil fertilizers, batteries, and beauty products, to water supply pipes, children's toys, and even foods and spices. Lead is a naturally occurring metal, but industrial processes expose us to levels we wouldn't otherwise experience. It affects multiple body systems. Lead can enter the bloodstream and circulate to the brain, liver, kidneys, and bones, resulting in long-term, sometimes permaenvironmental health risk nent, adverse health effects. In addition factors and is on par with to cardiovascular disease, adults have air pollution in the form of an increased risk of high blood pressure

Exposure during pregnancy affects the growing fetus, potentially causing miscarriages, stillbirths, premature birth, and low birth weight. Young children are particularly at risk of the toxic effects of lead in the air in the form of dust, and can suffer irreversible damage to their developing brains and nervous systems.

#### Is There a Solution?

"Lead exposure (and, in general, chemical pollution) is one of the defining challenges of the 21st century. It affects everyone and everything," Mr. Sánchez-Triana warned.

According to him, it could be an even more challenging problem than climate change.

"When we worry about climate change, we worry about a few greenhouse gases and climate pollutants. However, when we worry about chemical pollution, the orders of magnitude are in the tens of thousands of potentially harmful chemicals," he said.

That's why the World Bank is conducting analyses studying the impacts of other toxins such as cadmium, nitrogen, asbestos, and fine and ultra-fine particles with sulfur and other chemical species.

For Mr. Larsen, the first and foremost priority is institutionalizing routine, nationwide blood lead level measurements in both children and adults.

"This must be accompanied by comprehensive identification of sources of lead exposure, especially in locations and regions with elevated blood lead levels," he said.

Lead sources vary greatly across countries, and each source's contribution to population blood lead levels needs to be better understood to develop effective ways to minimize its deadly dangers, Mr. Larsen said.

Mary Elizabeth Gillis is a health reporter and cardiopulmonary specialist with over a decade of experience. After graduating with her doctorate in applied physiology, she earned a master of science degree in journalism from Columbia University.



heart disease in 2019.

Researchers put the economic cost

particulate matter (PM2.5), and kidney damage. which is characterized as a mixture of tiny solid particles and liquid droplets that can be made up of hundreds of different chemicals found dirt, soot, or smoke, according to Mr. Sánchez-Triana.

estimate places lead expo-

sure at the top of the list of

The study results suggest that lead excardiovascular disease risk factor ahead smoking, and high cholesterol, he said.

## Retraining Your Senses After Long COVID

Research finds that aromatherapy can help you regain your senses of smell and taste if vou're experiencing loss due to long COVID

#### By Ellen Wan

Ms. Chen, 29, is one of the many people to suffer lingering symptoms long after being infected with COVID-19. After the virus seemingly cleared her system, she was left without a sense of smell and she continued to tire easily.

Dr. Lee Choi-Keung, a traditional Chinese medicine (TCM) physician at Taiwan Jinhe Traditional Chinese Medicine Clinic, found that Ms. Chen had a thick tongue

coating and a weak spleen and stomach. Dr. Lee prescribed Xanthii fructus powder, supplemented with Lycium formula, Acori tatarinowii rhizoma, and Asari radix et rhizoma for resolving phlegm and warming the lungs.

After taking the medicine for about four days, the patient regained some sense of smell. After a week, more potent scents became detectable. Current Western treatments

for loss of taste and smell are based primarily on olfactory training (a rehabilitation method). TCM has long used similar techniques.

But TCM also offers additional treatments based on insights passed down for generations that provide therapeutic options even for new diseases, such as long COVID. TCM approaches for long COV-ID focus on its connections to the lungs, spleen, and kidneys.

The right treatments can restore the senses of smell and taste, but because these senses can require regrowth in the nervous system, it can take some time to see results. Patients should seek medical assistance as soon as possible, but there is no need to panic.

#### Long COVID

According to the World Health Organization, as of August, more than 769 million people worldwide have been diag- in their olfactory epinosed with COVID-19. About 10 percent thelium. to 20 percent of these people continue to suffer with long COVID long after their initial infection.

Common symptoms include fatigue, shortness of breath, abnormal taste and smell, cough, brain fog, chest pain, and muscle pain.

Studies have shown that among all COVID-19 patients, 40 percent to 50 percent of people worldwide report symptoms of olfactory and taste

disturbances. In objective tests, up to 98 percent of people show a decline in olfactory function.

According to a meta-analysis published in the British Medical Journal in 2022, disturbances of smell and taste manifest mainly as decrease or loss, abnormality, a sense of rancidity, or even hallucinations.

Researchers conducted 18 randomized studies on 3,699 patients. The results showed that 74.1 percent

> of patients recovered their senses of smell within 30 days, and 85.8 percent recovered it within 60 days. For sense of taste, 78.8 percent of patients recovered it within 30 days, 87.7 percent within 60 days, 90.3 percent within 90 days, and 98 percent

within 180 days. The researchers found that women with more severe loss Aromatherapy of smell and nasal congestion can stimulate the early in the infection were less growth of new neural likely to recover. Additionally, connections between nose and brain. although most patients can expect to regain their sense of

> smell or taste within three months, most will experience long-term dysfunction. How Does COVID-19 Affect Smell? A study published in December 2022 in Science Translational Medicine, a

> sister journal of Science, revealed the main reason for the loss of smell after COVID-19 infection. Researchers analyzed olfactory epithelium samples collected from 24 biopsies, nine of which were from pa-

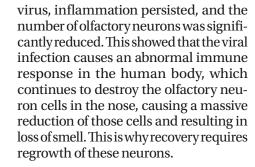
tients with long-term loss of smell after infection with COVID-19. Samples from these nine patients showed extensive CD45+ immune cell infiltration and inflammatory responses

Although the samples showed they were free of the COVID-19

People can also use essential oils to help restore their senses.

TO **PERCENT OF ALL COVID PATIENTS** worldwide report symptoms of olfactory and taste disturbances.

Essential oils, such as citrus, eucalyptus, patchouli, German citrus, rosewood, and real lavender, can be used to help restore your senses.



#### Aromatherapy

Dr. Li Jialing, an aromatherapist with dual licenses in TCM and Western medicine and the director of the Fugian Traditional Chinese Medicine Clinic, said on NT-DTV's "Health 1+1" program that people with smell or taste disorders should first address nutrition and avoid greasy food. People can also use essential oils (EOs), such as citrus, eucalyptus, patchouli, German citrus, rosewood, and real lavender, to help restore their senses, with different EOs selected according to different personal constitutions.

"When sniffing essential oils, it is not recommended to use a type with 100 percent concentration because it will be very irritating to the sense of smell. Long-term exposure to such high-concentration EOs will reduce the sensitivity of smell," Dr. Li said.

"It is best to add some carrier oils, such as sweet almond oil or sunflower oil, among others, diluted to 5 to 10 percent. When this concentration improves the sense of smell, then lower the concentration; during the process, keep lowering the concentration and try to see if you can smell it; if you can smell it, it means that the sense of smell is gradually recovering."

Recent research in the United States also shows that smelling EOs can help patients recover their sense of smell faster. Researchers selected four essential oils of rose, lemon, eucalyptus, and clove for a three-month experiment with adults who had lost their sense of smell because of COVID-19 infection. They discovered that having study participants view pictures of corresponding smells while smelling EOs promoted the recovery of the sense of smell to a certain extent.

Regarding the restoration of taste, Dr. Li said that different EOs can be applied during the treatment's early, middle, and final stages. For the early stage, employ smallmolecule EOs, such as citrus essential oils, and in the final stage, use large-molecule resinous EOs, such as rock bluegrass, sandalwood, frankincense, or patchouli. The choice of oils will depend on different personal constitutions. After that, adjust the smell and sniff the small and large molecule EOs daily.

\*Note: Some of the herbs mentioned in this article may sound unfamiliar, but many are available *in health food and Asian grocery* stores. Because everyone's

physique differs, please consult a professional physician for specific treatment options.

joys helping others by teaching healthy

This article was originally published on

ELENA NOVIELLO/GETTY IMAGES

Participants who scored 10 points or findings emphasize the importance of

Therapy for Depression Lowers Risk of Heart Disease

A new large-cohort study found that psychological treatments for depression can significantly lower stroke and heart disease risk

#### **By Sarah Cownley**

A new study published in the European Heart Journal suggests that taking part in psychological therapies such as cognitive-behavioral therapy can lower the risk of stroke and heart disease—even more than simple lifestyle changes such as diet or exercise alone.

More research is being done on the relationship between physical health and mental health, and this new study adds to mounting evidence that the two are strongly connected. This new study was the first to investigate whether reducing depression with psychological therapy could help lower the likelihood of future cardiovascular disease.

The study included 636,955 adults older than 45 who had depression, didn't have being fidgety or restless; and thoughts cardiovascular disease or dementia, and that you would be better off dead, or of had completed a course of psychological hurting yourself in some way.

therapy. The average age of the participants was 55, and 66 percent were women. Electronic health records were used to obtain information on psychological treatment, incidence of cardiovascular disease, and death.

Depression levels were assessed before and after therapy using the Patient Health Questionnaire-9 (PHQ-9), which asks for a score of zero (not at all) to three (nearly every day) for nine items: little interest or pleasure in doing things; feeling down, depressed, or hopeless; trouble falling or staying asleep, or sleeping too much; feeling tired or having little energy; poor appetite or overeating; feeling you are a failure or have let yourself or your family down; trouble concentrating on things; moving or speaking slowly or

more were considered to have depres- making psychological treatments more sion; an improvement in depression widely available and accessible to enwas defined as a reduction of 6 points or hance mental and physical health. This more. Anxiety was also included in the is especially relevant for certain groups definition of depression, as the therapy who face barriers to accessing psychooutcome wasn't considered good if de- logical therapies and are at greater risk pression improved but anxiety worsened. of cardiovascular disease. Collaborative All patients were monitored for new care systems where specialists from both onset all-cause cardiovascular disease, disciplines work together could be one stroke, coronary heart disease, and all- way to make treatment more accessible cause mortality. It was found that during and obtain better outcomes overall." a median follow-up of 3.1 years, depression symptoms improved in 59 percent of Sarah Cownley earned a diploma in participants. The improvement of depres- Nutritional Therapy from Health Scision, compared with no improvement, ences Academy in London and she enwas associated with an 11 percent to 19 percent lower risk of any cardiovascular lifestyle changes through her personal disease, coronary heart disease, stroke, consultations and with her regular conand all-cause mortality. All associations tributions to the Doctors Health Press. were strongest in 45- to 60-year-olds. Study author Céline El Baou said: "Our BelMarraHealth.com



Researchers found that treating depressior was linked with an 11 percent to 19 percent lower risk of any cardiovascular disease.



Recovering vour sense of smell requires regrowing the neurons that pass scents on to the brain for interpretation.



To restore taste, sniff different essential oils at different stages of the treatment. The choice of oils will also depend on the person's constitution



Don't sniff essential oils at 100 percent concentration as it can be irritating. Mix with 5 to 10 percent carrie oils such as sweet almond

ALL IMAGES BY UNLESS OTHERWISE NOTED

#### INTENTIONAL LIVING

## Excess Possessions Are Wasted Potential

Every unused item and unnecessary purchase is energy, focus, and money not put toward our dreams

#### **By Joshua Becker**

There is no doubt that possessions can be incredibly useful.

A car transports us to work, the grocery store, or a parent's house. A home gives us a place to rest, grow, and raise a family. Computers and tools offer us the capacity to solve complex problems and accomplish tasks more efficiently.

Physical possessions help us accomplish more.

But that doesn't mean that owning more helps us accomplish more.

In fact, just the opposite is true. Excess possessions have a way of slowing us down and even wasting our true potential.

Possessions serve a role in our lives by increasing our potential. But too many possessions actually detract from it.

This, for me, is why minimalism is so important. And it's why I believe it is important for everybody!

Owning excess possessions wastes your potential.

Chasing and accumulating things we don't need uses up our money, time, energy, and attention.

Think of your closet, as an example. Some clothes are needed, certainly. But too many clothes, crammed in a closet, many of which you haven't worn in months or years, isn't just fabric taking up space. It's money you could have spent elsewhere. It represents time wasted shopping, returning, and deciding what to pick out every morning. Just think, for a minute, of how you could have spent that money instead.

I don't offer this example to guilt us or make us feel overly negative—I just mean it as one practical example of how excess possessions waste our potential.

And the more we think of the money and time wasted on things we don't need, the more lost potential we begin to see.

The tech gadget you researched for hours, only to purchase and rarely use.



A closet full of clothes you don't wear is time and money not spent on something more important.

> Chasing and accumulating things we don't need uses up our money, time, energy, and attention.

The hobby supplies you bought but never used. The fad item that has sat unused in your drawers for years. The rooms in your home that nobody enters. The gifts you bought for others that were never used. Even all the toys you bought for your kids that were played with briefly then quickly forgotten.

Again, that list isn't just wasted money; it's lost opportunity. That time could have been spent on activities that genuinely enrich your life, such as writing that novel you've always wanted to pen, starting a garden, taking a trip with your kids, or supporting a cause you're passionate about.

ALL PHOTOS BY SHUTTERSTOCK

These are not easy truths to face, especially because we live in a society that often equates material abundance with success. But becoming aware of this waste is a life-changing invitation to dream bigger dreams for our lives.

Unused items are more than just clutter; they are a diversion of resources from activities and goals that align with our values and could truly enrich us.

This is the cornerstone of minimalism: owning the optimal number of things to make our lives more efficient and more in line with our true selves.

The goal isn't to live with as little as possible but to make room for what genuinely contributes to our well-being and expands our potential.

Your life is a canvas with limitless potential. But every stroke matters. With every unnecessary item we buy, we trade a bit of our freedom, focus, resources, and yes, our potential.

So here's the challenge for all of us: Remove the pursuit of anything that is distracting you from your greatest values and highest potential. And if an item in your life doesn't serve a purpose or bring you joy, consider freeing yourself from it.

Start today. Start now. Unburden yourself of the excess and see how much more room you have to grow, to breathe, and to pursue what genuinely matters to you. Reclaim your time, your resources, and your po-

tential. I can't think of anything more valuable than that.

Joshua Becker is an author, public speaker, and the founder and editor of Becoming Minimalist, where he inspires others to live more by owning less. Visit BecomingMinimalist.com

 Saving time and money by not shopping can let you pursue more enriching pursuits.





## THINK TWICE Don't let these mistaken beliefs hold you back

#### MYTH

#### REALITY

I won't have time to keep up with The Epoch Times.	We make it easy to build and maintain the habit of staying informed through our mobile app, our email newsletters, and our audio articles. You won't even notice that The Epoch Times has become a part of your day until, well, it has. We are in a worldwide war of ideas and worldviews. Only truth will save the nation, and each of us is responsible for keeping the truth alive.	
I can find similar content somewhere else for free.	The Epoch Times is the number one independent media in America report stories the legacy media won't touch, we regularly break storie conservative sources can. Our worldwide team of carefully vetted investigative journalists is second to none, and that means you get news you won't find anywhere else. Plus, we have exclusive EpochTV shows, Epoch Health, special reports, premium magazines and so much more.	÷