

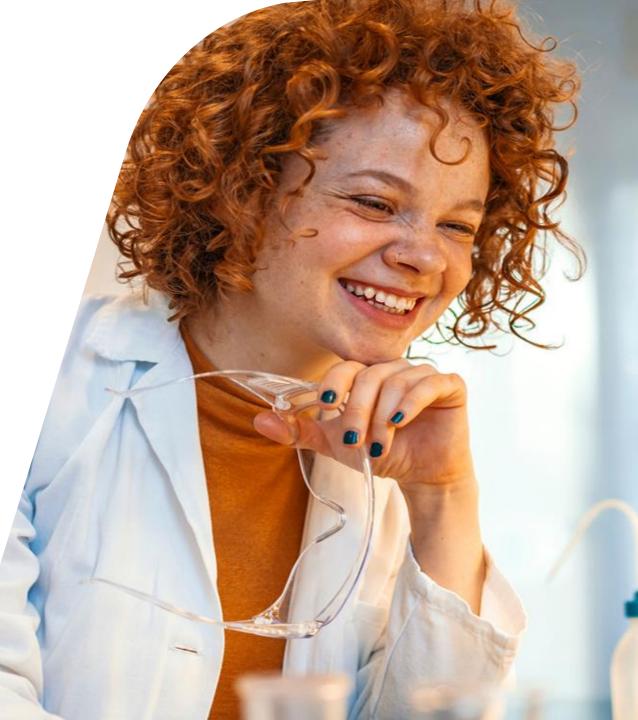


A decade of scientific discovery

Navigating Trust-Information Integrity in 2025

Aoife Marie Murphy, PhD Senior Sustainable Nutrition Manager, Kerry

SCIENCE FOR HEALTHIER FOOD





In 2017, 'fake news' became Collins Dictionary's word of the year Collins 175 YEARS OF DICTIONARY PUBLISHING Dictionary of the English Language

The Language Lover's Dictionary including over 200 essays on literature and language



- Misinformation is false or misleading information shared without harmful intent.
- Disinformation is deliberately false information spread to deceive people.



COVID-19 and disinformation





Q Covid-19

- Q Covid-19 can be cured by injecting disinfectant into your body
- Q Covid-19 can be cured by drinking bleach
- Q Covid-19 was created in a lab
- Q Covid-19 is spread by 5G networks
- Q Covid-19 cannot survive in cold weather

Google Search

I'm Feeling Lucky

Report inappropriate predictions





Social media and misinformation



Why did Mark Zuckerberg end Facebook and Instagram's factchecking program? Blake Montgomery

The social media giant enters a more partisan political era as its CEO pursues Donald Trump's approval



A 'Good influence' or a 'Good influencer'

- Belle Gibson wellness influencer claiming she had cured her terminal brain cancer through healthy eating.
- Successful mobile app and cookbook called "The Whole Pantry," which was featured on Apple's App Store and even pre-loaded on the Apple Watch.
- Fraud: It was later revealed she never had cancer and also lied about thousands worth of charitable donations.

Beau Donelly & Nick Toscano THE WOMAN WOMAN WHO FOOLED WHO FOOLED THE TRUE STORY OF FAKE WELLNESS GURU BELLE GIBSON

Recently Added

Disinformation through popular podcasts

DOAC

- cancer can be treated by for "calories" diet, rather than proven treated by for a total lie!

anti-vaccine conspiracies, s
was an engineered weapon

DOAC



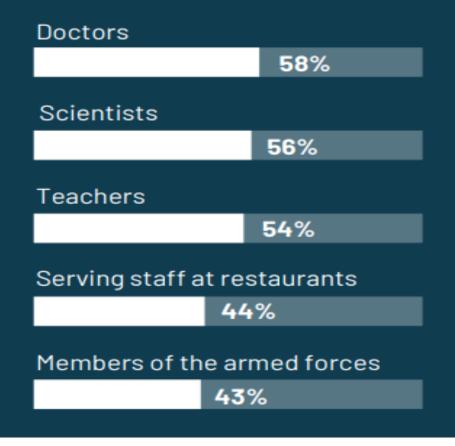
"23.3 million people will die yearly because of this!"

The Doctor That Got Banned For Speaking Out:"We've Been Lied To About Medication!...

2:04:56



Top five trusted professions:



lassifie



Research study design & interpretation

Mechanistic studies / Proof of principle



Cell or tissue study (in vitro study) – experiments conducted on isolated cells or tissue samples within flasks, dishes, plates, or test tubes.

Observational studies / Correlation



Animal study (in vivo study) – experiments conducted on animals that can be highly controlled.



Cohort study - follows a group of people (a cohort) over time, measuring factors such as diet and health outcomes.

Case-control study -

compares a group of cases and controls, looking for differences between the two groups that might explain their different health outcomes.

Cross-sectional study

 collect information about population of people at one point in time.

Intervention studies / Cause & effect



Randomized Controlled

Trial (RCT) – one group of participants receives an intervention, while a second group (the control group) receives a placebo or no intervention at all.



Systematic reviews

 studies that attempt to combine all of the relevant studies that have been conducted on a research question and summarize their overall conclusions.



lassified as General Business

Weakest

Our Research – Kerry Health And Nutrition Institute

Andrew Wakefield – struck off medical register in 2010 after fraudulent claims regarding MMR vaccine and links to autism



THE LANCET

The Lancet, <u>Volume 351, Issue 9103</u>, Pages 637 - 641, 28 February 1998 doi:10.1016/S0140-6736(97)11096-0

This article was retracted

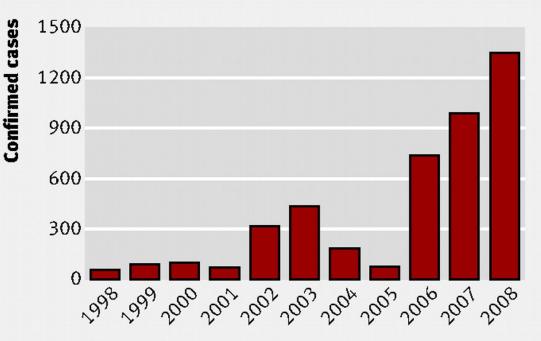
RETRACTED: Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

Dr <u>AJ Wakefield</u> FRCS a **B**, <u>SH Murch</u> MB b, <u>A Anthony</u> MB a, <u>J Linnell</u> PhD a, <u>DM Casson</u> MRCP b, <u>M Malik</u> MRCP b, <u>M Berelowitz</u> FRCPsych a, <u>AP Dhillon</u> MRCPath a, <u>MA Thomson</u> FRCP b, <u>P Harvey</u> FRCP d, <u>A Valentine</u> FRCR a, <u>SE Davies</u> MRCPath a, <u>JA Walker-Smith</u> FRCP a

Summary

Background	
We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.	
Methods	
12 children (mean age 6 years [range 3-10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal developm	nent
followed by loss of acquired skills, including language, together with diarrhoea and abdominal pain. Children underwent gastroenterological,	
neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic-resonance	imagi
(MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Barium follow-through radiography was done where po	ossible
Biochemical, haematological, and immunological profiles were examined.	

MEASLES IN ENGLAND AND WALES



Source: Health Protection Agency

aging sible.

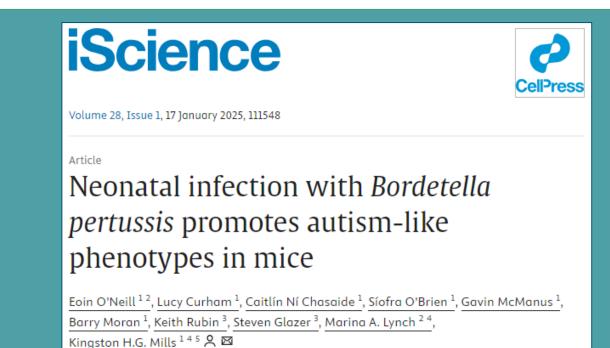
The importance of reading beyond the media headline

Health

THE IRISH TIMES

Whooping cough increases autism risk in infants, Trinity research finds

'Impossible to put a number' on level of risk, says TCD immunologist who supervised research





The importance of reading beyond the media headline

Turmeric could be as effective as medicine for indigestion, says study

Natural compound found in spice may reduce excess stomach acid as effectively as omeprazole, first study of its kind finds



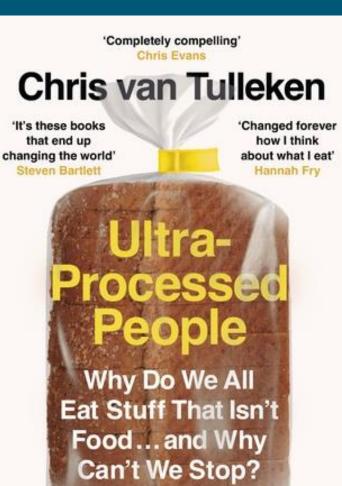
Original research

Curcumin and proton pump inhibitors for functional dyspepsia: a randomised, double blind controlled trial

Pradermchai Kongkam ^{1, 2}, Wichittra Khongkha ³, Chawin Lopimpisuth ^{1, 2}, Chitsanucha Chumsri ^{4, 5}, Prach Kosarussawadee ^{1, 2}, Phanupong Phutrakool ^{5, 6}, Sittichai Khamsai ⁷, Kittisak Sawanyawisuth ⁷, Thanyachai Sura ⁸, Pochamana Phisalprapa ⁹, Thanwa Buamahakul ¹⁰, Sarawut Siwamogsatham ^{1, 2}, Jaenjira Angsusing ¹¹, Pratchayan Poonniam ¹¹, Kulthanit Wanaratna ¹¹, Monthaka Teerachaisakul ¹¹, ¹⁰ Krit Pongpirul ^{4, 5, 12, 13} Correspondence to Associate Professor Krit Pongpirul, Center of Excellence in Preventive & Integrative Medicine and Department of Preventive and Social Medicine, Chulalongkorn University Faculty of Medicine, Bangkok 10330, Thailand; doctorkrit(@gmail.com

No placebo used
High drop-out rate
Self-assessment
Conducted in an alternative medicine hospital in Thailand

The importance of reading beyond the media headline



THE NO.1 SUNDAY TIMES BESTSELLER

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Guardian

risis Middle East Ukraine Football Newsletters Business Environment UK politics Society Science Tech Global development Obituaries

Ultra-processed food? Forever chemicals? Declining birth rates? What's behind rising cancer in the under-50s?

Some ultra-processed foods are good for your health, WHO-backed study finds

Bread and cereals - which are heavily processed - reduce risk of multimorbidity due to fibre content





Position Statement Processed Food

Summary

Processed foods are commonplace within people's diets in the UK. Dependent on the composition and degree of processing, processed foods can add to, or reduce the nutritional quality of an individual's diet.

Food processing are methods and techniques that turn fresh foods into food products¹. A range of operations are used, including washing, chopping, heating, freezing, packaging and the addition of ingredients, which may change the characteristics of a food; including their nutritional composition. This includes food fortification^{2,3}. There is a growing narrative that classes all forms of processing, and in particular significant degrees of processing as less healthy or desirable, even though this does not apply in all cases.

Key points

- The nutritional quality of foods is more important to consider than simply whether or not they are processed.
- For some products, consumers should be aware that processing will increase the content of sugar, salt, fat or other ingredients that will make them less healthy than their unprocessed equivalent.
- It is also important to recognise that processed foods and ultra-processed foods as described by NOVA category 4 are not necessarily high in fat, salt and sugar or other less healthy additives. Processed or ultra-processed foods are not necessarily unhealthy to consume, and in some cases may be beneficial, especially to certain

Healthy eating pyramid



Impact of misinformation on Science and Society

Scientists have a duty to communicate their findings clearly and accurately to the public.

- Effective communication strategies for scientists. Using plain language, engaging with the media, and being transparent about uncertainties can help to build trust.
- Importance of transparency and openness in science. Open access to research data and peer review processes can help counteract misinformation







SCIENCE FOR HEALTHIER FOOD

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1,100 scientists University Partnerships

Articles, Webinars, Events



Kerry Health and Nutrition Institute[™]

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>150,000 subscribers



Cognitive Health, Gut Microbiome, and Shelf-life Optimisation



August 29, 2024

Strategies for adapting to stress have gained momentum in recent years, including technology offerings, mindfulness techniques, and nutrition.

MacBook Air

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