How Glyphosate May Affect the Microbiome, Brain, and Immune System Transcript

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MAPS Webinar Introduction

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Hi, welcome to the Maps webinar series, Healing Tomorrow's Future. We are thrilled to be bringing you this series packed with valuable information and education within our community.

My name is Honey Rinusella and I'm the Executive Director of MAPS, the Medical Academy of Pediatrics and Special Needs. Within these webinars, we're able to empower clinicians on the knowledge and tools to support patients facing a variety of health challenges.

For more information on MAPS or to register for a conference, please visit us at www.medmaps.org.

Ryan Coleu2019s COVID Experience

Thanks for joining us on this journey towards a brighter, healthier future. Hello, I'm Liz Mumper and welcome to the MAPS podcast. This is a podcast for the Medical Academy of Pediatrics and Special Needs.

I am very, very happy today to welcome a dear colleague. We first met through the Frontline COVID Critical Care Alliance and now we're colleagues from the Independent Medical Alliance.

And I have found Ryan Cole to be, first of all, a wonderful pathologist, secondly, master woodworker, third, wonderful renaissance man, and fourth, he is the father of four daughters.

So he's here today at the Medical Academy of Pediatrics and Special Needs and has just delivered a spectacular lecture about glyphosate. So we're going to talk about that in just a minute, Ryan.

But in our audience, not as many people probably know your background as with FLCCC slash IMA. So tell a little bit about what speaking your truth during the era of COVID cost you and your community and employees.

Sure. Well, thank you. And it's an honor to be here. This is my first MAPS conference, and it has been fantastic. And yeah, by background, I'm an anatomic and clinical pathologist, board certified, trained at Mayo Clinic, spent five years up there in Minnesota, drinking from the fire hose of complex diagnostics.

And I ran a private medical laboratory for 23 years. Early on during the COVID era, The pathologist I like to joke is the most important doctor you never meet that you always hope is right.

Right. We see patterns, we see cells, so we are scientific observers. I also like say we're reporters at the scene of the crash. we don't cause a crash, but we report what's there.

So when I saw patterns during COVID, I spoke up. I say cancer patterns, inflammatory patterns. Immune suppression patterns and so I speak up, got attacked viciously by the media and the propaganda machines that didn't want the truth to come out.

And if anybody in medicine knows what's happening, it's the laboratory. was attacked by large hospital systems, newspapers, boards of medicine, all due to the hospital's systems putting in the complaints.

And that altered my career. The insurance companies canceled contracts because of unprofessional behavior, even though all the data that I presented was correct.

So I look back and go, okay, I sacrificed my carrier, but on behalf of humanity. Because at the end of the day, you and I went into medicine knowing that MD means make a difference and it does not mean minor deity.

Right. And so for us, what we do impacts lives and generations. So for me, I stepped into the breach, not knowing all that would happen. All I was trying to do is say, look, i see something.

If I go through airports like you do, You hear if you see something, say something. And so that was, it becomes a calling. All you can do is tell the truth and let the chips fall where they may.

And I do have six daughters, sorry. Oh, what am I saying? Four, but that's okay. Sorry, yeah, I must have a number dyslexia about that. Four might have been easier, But I did have 6. Six daughters.

Yeah, no, you get credit for all six. So one of the things as a clinician that annoyed me is that we are the ones who see patterns, pattern recognition.

Glyphosate in Food and Farming

After 45 years of doing PEDs, like a walk in the room and within seconds know how sick the kid is. Absolutely. Same with pathologists. You know, how many cancer, slides you're going to look at in a given month.

And so for the administrative doctors, the government employee doctors to be telling us that we weren't seeing what we were seeing, it was incredibly frustrating.

Absolutely. So the thing I also forgot to mention is that you're also a gentleman farmer and thus you are talking to us today about glyphosate, which not everyone that's going to watch this podcast knows a lot about.

So tell us a little bit about what your main message is and the highlights from the lecture that he delivered. Sure. I love working with the Earth, and the earth will produce in abundance if we work with her in the way that she works.

And so I have a large fruit orchard, acres and acres of vegetables, organic, regenerative. I do livestock, cows and lambs, ducks, chickens. To know what real food tastes like coming straight from the We understand now how processed food is a problem, but we don't understand how poisoned our food it's.

And people have heard in the news, the new executive order on protecting glyphosate and the industry. But what we didn't realize is yes, it kills plants.

It was originally used as a cleaner of pipes and boilers because it binds and grabs metals. Well, our biology and physiology is so dependent on so many minerals for normal function because there's a little They're the little key to unlock building of certain proteins and different processes in the body for the to function normally.

And so glyphosate, one, it binds those metals out of our soil. So now the plants that come from those fields are mineral and nutrient deficient. That's one challenge with it.

For the people that hear the word glyphasate that's a chemical name. Most people know it as Roundup. Now just recently, the over-the-counter roundup got changed and doesn't have glyphosate in it anymore.

However, it actually has a new chemical that's even worse than the old glyphasate. That's a different story. I won't go down that pathway. Most of our farm fields, almost all of your corn is sprayed with glyphosate.

Our legumes, our beans, are soybeans, chickpeas, unfortunately, for hummus. And then they use glyphasate to dry the grain crops because it helps the seed head ripen so they can harvest it more evenly and quickly.

Well, glyphosate persists in the environment for a long time. Now I'm getting to the point here, I promise. The point is, in 2000, or the early 2000s, Monsanto, which is owned Roundup glyphasate at the time, patented glyophosates as an antibiotic.

And in 2010, they did another patent as glyrophosite as a broad antimicrobial. It kills parasites, fungi, bacteria. So basically what most people don't know is a good majority of our food has detectable levels of glyphosate.

So individuals, and after doing all this research for years, one realizes, wait a minute, it's everywhere? Like it is. It's an antibiotic that people are taking without informed consent on a daily basis.

Now what's fascinating is our Environmental Protection Agency sets a quote safe consumption level. That safe-consumption level is equal to what Monsanto's patent says is an effective antibiotic level, it has antimicrobial activity at that same quote, safe level and so basically corporations are practicing medicine without a license.

They're acting as a physician giving you an antibiotic you don't need, and here's why you starts in the gut. And you've given great lectures, you talk about how important our immune system is because most of it starts from the guts, which is so true.

We have friendly bacteria and we have unfriendly bacteria, and ratios of good ones to bad ones. But those bacteria are responsible for making many nutrients for us that our body can't make, for processing many of these vitamins and minerals.

And so we want good nutritious food. But if we're taking a daily antibiotic, it preferentially kills our good ones over the bad ones. Now we can absorb the minerals and the nutrients at the levels and rates that we need for wellness and health.

As many people know, the function of the brain is exceedingly dependent on the functioning of gut.

Glyphosateu2019s Gut and Brain Effects

And let's take, for example, autism spectrum disorder. The common amino acids, those are the little building blocks of proteins that children are deficient in with ASD are tryptophan, tyrosine, phenylalanine.

What does glyphosate, this antibiotic, do? It inhibits the bacteria from producing tryptophan, tyrosine, phenylalanine. And those are known to be lower in children with ASD.

And can I just add that they are so important for making our neurotransmitters. Yes, yes. So for, making melatonin, serotonin dopamine, those are the building blocks to make those important neurotrasmiters.

You're absolutely right. Now, on top of that, if you look at ASD deficiency in magnesium, Deficiency in vitamin B12, which needs cobalt. Defficiency in manganese.

Deficiency in iron, zinc, cop, well, copper tends to be higher. But what does glyphosate do? It chelates, and chelaite means claw, like a crab or a lobster claw.

And, you know, as a kid on this espeak bay, I've been clawed by a crap. It hurts, but it grabs and holds tightly. So not only is it taking those minerals out of the soil, Now, when there are still some minerals in the food that we're eating, it will also, being present in our gut, claw those out of our guts.

Now we don't have the necessary minerals for proper physiologic function, proper neurologic function. So glyphosate, again, in Western world, not as much in Europe.

They haven't banned it fully yet there. is technically altering the biome of the earth and the biom of our guts. Now it's fascinating that 70% of world successfully farms without it.

Right. So when we hear this is critically necessary for survival of this species and for our farmers and their dependency, I think, wait a minute, I have just a little plot of land compared to all these wonderful farmers out there.

I'm not blaming the farmers. Just saying there's a better way to do it. And if we don't stop doing this now, we're going to be in more trouble down the road.

Basically, fire on top of fire, all the other toxins in our environment. You know, it's atrazine, its paraquat, diquats, not just glyphosate. It's the toxins and certain injections.

The food dyes that thankfully are going out of the food. We're exposed to so many synthetic things. And even with glyphosate, just like in vaccines, they have aluminum as an adjuvant that we know gets into the brain and cause issues, and glyphasate can help carry aluminum to the brains, unfortunately.

Glyphasate also has an Adjuvant. They put something called POEA in it that helps it stick to leaves better. which makes the effects of glyphosate even worse.

So I don't want to sound like a negative Nellie, like, oh, woe is to me, we're killing ourselves, or our society, our our guts, and our soil. We're doing bad things, yes.

But there are things we can do. We can get back to organic regenerative farming. we Can eat as close to nature as possible. Avoid the processed foods, avoid the high fructose porn syrup that yes has glyphosate in it.

avoid The sodas that are sweetened with high-fructose Porn syrup, that has Glyphose in. it, we, can decrease our exposure rates. And it's not just that it is causing those gut brain issues.

It's also interrupting the endocrine system. So it's an endocrine disruptor, it is messing up the balance of estrogen and testosterone in these developing children and in grown-ups.

It's destroying processes in the liver and the livers ability to detoxify all these other things that we're exposed to. And most importantly, at the cell level, the little factories that give us our energy, the mitochondria, it's destroying those and inhibiting the proper processes of those.

So decreasing our exposure to it, the exposure of our children to, is so important because we can restore health. And yes, its everywhere, but you don't have to choose the things where it is everywhere.

So it becomes a choice once we have the knowledge of what it's doing. And I think that's what my goal is as a physician scientist is educating people of, did you know this is doing this?

Now, if you didn't, fine. But if do, now you can say, okay, what healthier, better choices can I make? And how can influence on the grassroots level, at my state level or at the federal level Look, we all want to have long, healthy lives.

We want have beautiful, health active children. Why are we as a society allowing things to harm any of us? With only the benefit going to the shareholder and the corporations who may not even knowingly know they're harming themselves as well in the process.

Environmental and Pollinator Harm

And so we have the opportunity to awaken to living better, living cleaner, and as much as we like to trick Mother Nature and so many inventions have been amazing and fantastic and have improved the human condition, there are certain things that we are chronically doing that are acting as a long-term detriment and a slow poisoning.

And so my hope is just that people will hear and say, I don't know that. Now I know, now I'm informed. I want to learn more and I can do more now. Well, one of the things that was interesting about Monsanto when they were first getting this approved is that they made the case that there was a certain pathway that is poisoned by glyphosate that mammals didn't have it.

And you've covered nicely how, you know, One of those things happens is the bacteria in our gut do have that pathway and that really affects us. But the other piece is they acted as if mammals were living in isolation.

And in fact, we're part of this interconnected web of life that includes things like bees and butterflies. So can you, as a beekeeper and as regenerative farmer, can address some of the creatures that we should be living harmony with that may be harmed by this?

Absolutely. About two thirds of food on your plate is dependent upon a pollinator. And just like us, bees have a gut microbiome, earthworms have gut microbes, the soil has its own microbiomes, and when we destroy the balance of that biome—same thing in bees, gut-brain axis, And they can't fly home to the hives because their gut is training their little brains as well.

And so now if they have bad bacteria in their guts, their brain gets messed up and it's a contributor to collapse of bee colonies. a critical pollinator.

We're seeing where all the milkweed used to be. Those are now giant farms and row crops sprayed with glyphosate. Milkweed's not there, so monarch butterflies are collapsing.

If we look at the earthworms, it does the same thing. It destroys the quantity of earth worms. The other huge problem is it gets into our waterways. So it affects fish, causes mutations in fish.

And then we have broad bodies of water that are literally dead zones, like the Delta, the Mississippi Delta that goes into the Gulf. There's a huge dead zone where life can't exist.

Then it allows things like blooms of toxic algaes. to overgrow and those algaes are resistant to it. And you're absolutely right. There's this one little enzyme and Monsanto is like, oh, look, plants have this enzyme, mammals don't.

But we have more bacteria and fungi in our body than we do human cells. They all have that same little Enzyme ESPS pathway that that our mammalian cells don't, but all our symbiotic cells do.

And so it's like, oh, it was fine for mammal cells. But mammals and bees and insects and animals and fish, if you wipe out their biomes, then bad things happen.

Well, it's a good reminder to parents to not be overly concerned about getting dirty or exposing their kids to various germs because we have to coexist with literally trillions of good flora.

And so one of my sayings during COVID was, how can my kids eat dirt if they're wearing masks? Because I actually want my kid to be exposed to the soil and to play in the dirt and make mud pies and grow up on farms.

If they do, they are less likely to have autoimmune disease and allergies later on.

Parenting, Germs, and Healthy Immunity

So for the parents out there, you know, realize that all the hand sanitizers and masking and don't hug anybody because you'll get their germs, that is not a normal way to grow a healthy human.

So don' be so afraid of germs. Absolutely. Now, one of the things that we do together is to work with the Independent Medical Alliance. And we are going to Washington DC quarterly to try to make some congressional staffers aware of some issues like the importance of informed consent and parents' rights about making decisions

about their children's health.

and making vaccine and other therapeutic decisions. Could you talk a little bit about why we think that it's so important that we go, you know, time after time and try to gradually chip away at this wall of political pressure?

What's impressed me about this opportunity most is the eagerness of the young minds to learn. In our most recent trip together at a lunch meeting we had, there were many congressional staffers there, and the very bright, intelligent questions that they posed to us indicated that eagerness for knowledge.

And they admit, look, we're not physician scientists, were policymakers, but we want people that are data and scientifically driven and not ideologically driven to educate them from us.

So it's been such a wonderful opportunity to go there and say, hey, if you have a question about this, At the IMA, we have a broad number of physicians, scientists, experts across dozens of specialties.

Advocacy Through the Independent Medical Alliance

And so we can answer their questions very specifically and or broadly and try to, all good change starts with education. So as physician educators and in Latin, doctor means teacher.

And so we have the opportunity to teach. And I like the fact that they're engaged. They want to know, they want make good policy. they wanted to get rid of things that are bad.

Not all of them. I wish all them did, but we're chipping away, like you said. and I remember one of our recent trips, the encouragement was. We're going to keep trying at the federal level, but please do what you can on the state levels.

So I live in Idaho, through the lovely work of Leslie Manoukian, we've passed the Medical Freedom Act in idaho. And we're even tightening up aspects of it this year.

setting an example for other states, which will come forward with great health freedom bills as well, saying, look, your body is yours. Your health decisions are yours, nothing can be mandated.

And the feds have said, Look, the states give us the example to have the courage, what we need to do at our level. and it all really starts in the home, obviously, but then at the school and in that community at that grassroots level, I'm gonna tangent back to glyphosate briefly.

So for example, many parks and playgrounds use some of these things. You can go to your county commission and say, hey, I don't care about a few dandelions, let's not go spraying toxins where my children are playing.

so you can start at that simple level. And eventually we take these policies and ideas to the county, to state, and to feds. So it starts with understanding and knowing and education.

We have this wonderful opportunity of all our years of combined experience as a team at the Independent Medical Alliance to synergistically educate others so that better policy decisions are made.

And we all saw what happened these last five years. It was a disaster. Our goal is to tell the truth in the easiest, most understandable form, no matter what.

Right. No matter, what tell, the true, make sure if it's a difference between the hubris that we've seen and the humility that society wants and. The true.

good doctor that you will ever meet is the one that will say, you know, I don't know or I may be wrong, but I will find out. And so we have this opportunity to educate colleagues to wake up a comfortable society that is not as engaged as I'm not saying everybody has to be an activist.

But you do get to choose what goes into your body. But if you don't know what's going in and you're accidentally getting poisoned by a lot of things, then I think most people would get a little upset and say, you know, I am going to get involved.

Yeah. Well, the longer I do this work the more I realize how much I never knew and still don't know. So I think your point about trying to grow a generation of physicians that are humble rather than overly proud and convinced that they know everything is a great thing and one of the reasons why I'm so passionate about medical education.

Well, I just want to close to say that you have a bigger role at IMA as of just recently. Can you tell our audience about that and how if they want learn more about what you or Ima are doing, how they would find that on their computers?

Yeah, thank you for that, Liz. I am currently now on the executive team as the Director of Medical and Scientific Affairs, which does involve a lot of educating, as well as policy work, testifying in different legislative bodies, etc., as trying to communicate.

We'll have a weekly, basically, did you know kind of medical fact, because you'll hear so much in the news that it's obviously funded by big interests.

So our goal is to get out actual scientific information on a weekly basis in soundbite form so people can understand and then do their deeper dives. And you can find us at imahealth.org.

I'm grateful to be on the team with you and just so many other wonderful thought leaders. And we have about 12,000 physicians that are like-minded and aligned and follow us and close to a million followers across all the platforms.

IMA Leadership and Upcoming Conference

So we're growing. And I think it's important to remember about 30 years ago, back when you and I were, you know, into our careers, 80% of doctors were independent.

Yes. Now it is only about 20%. And so oftentimes the patient thinks, well, why am I not feeling like I matter? Well, You're now part of a system and what you're seeking is that independence and you want that independent thinking doctor again as a patient, all of us do.

And so we're trying to restore medicine to basically the oath that you and I love and took. That's that patient focused, Hippocratic oath medicine. At the IMA, that's one of our pillars is restoring that ethical trust and putting the patient centered care first.

And we're winding up with the conference at the Medical Academy for Pediatrics and Special Needs, but we are gearing up for the Independent Medical Alliance meeting.

So can you talk briefly about when and where that is? And then we'll close out the show. Sure. We have our annual meeting coming up in the Dallas area and Los Colinas, Texas on April 17th and 18th.

And if you're a physician, it will be a CME conference or a provider. So come get your CEMEs. If you are in that category, science-driven, and a lot of, I think, unique areas of optional therapy to look at for health and wellness.

I'm doing something kind of out of the box and focusing on light as therapy, photobiomodulation, giving a broad overview and deep dive into lots of areas how light can help heal the body.

And so areas that people aren't used to hearing about as therapeutic options science and data-driven. Again, we're a scientific organization and even some of the mainstream media is coming to us going, wait a minute, you guys are real doctors and scientists.

We never stopped being that. So it's going to be a wonderful meeting, wonderful opportunity to meet so many amazing colleagues, physicians, caring parents, carrying patients that just want to learn a better way from themselves.

Always a fun conference and always walk away enlightened and refreshed. and inspired. So for those of you out there who's been watching, my colleague is Dr.

Ryan Cole. He is such a well-trained pathologist, but he was someone who saw something and said something during the COVID era and has now gone on to do more patient education, more patients advocacy.

And it's such thrill for me to be able to bring some of his work to those of you out there. Thank you so much for watching. Thanks so for joining us today.

I'm Honey Rinusella and this is MAPS. As we heal tomorrow's future, we appreciate you joining on the journey. We'll see you next time.