Introductions and Guest Backgrounds

And welcome to another wonderful interview for the MS Neuroimmune Summit. I have two guests, for this interview. the first is Dmitri Leonov He is preneur, sir, who has, seriously helped people bring their, ideas, to the public, more effectively.

And then Dr. Fabio Fontana is an expert in, biophysics in the interplay between biophysics, medicine and health. and he's really, has been a pioneer in how we use light therapies.

and now, Dr. Fontana. Dmitri, is there anything else that I, left out of those intros that you'd like to highlight? That was perfect. Okay. Thank you so much. Now.

Nice to be there. It's an honor for me to be there with. Well, thank you so much for being here. in the first thing I think we should start with is, the biophysics and interplay with medicine, light therapy.

Could you give us a little understanding of, what that is and how that could be impacting our health? my opinion in our way to play and to trade about health.

We are using so much chemicals. the use of biophysics on medicine is very low. On my entire life. I spent many years, watching and try to try to protect people from electromagnetic pollution.

To give information about this.

Biophysics, Light Therapy, and the Future of Health

And in a second time of my life, I'm using light. 12 people to stay better. I, I found many ways to be helpful to the health using technology. one of the greatest idea was to apply nanotechnology quantum dot technology on medicine last year.

This technology, quantum dot and nanotechnology, win the Nobel Prize in Chemistry. But it's a biophysical technology able to treat people with light. Well, in my point of view, the future of health have to be similar to the future of health.

We are watching on, for example, on TV to TV shows or in movies like Star Trek, for example, where the doctors, the physician have some machinery able to check and trade in seconds and be able to take people.

My way of of watching out on the future is this more technology applied to manage our own medicine and more wearable technologies can help us to be imbalanced.

24 over seven. Well, I, I love this and I love that you mentioned Star Trek. I grew up watching Star Trek. You know, that certainly inspired, millions around the globe to, appreciate, the possibilities of science and technology to support our quest for greater health and vitality.

you know, you mentioned this bio physics, interplay with health and light. and so, you have created this really interesting product. why don't you explain, the tau patch journey?

You know, what it is and how this, came to be. it was it's a story about pain. My personal pain after a car accident. I have many problem, and I have everyday migraine, so no one was able to stop my migraine.

I took many remedies. Chemicals, therapy experts, and everyone was able to stop my migraine for one day. Today, three days, the maximum was a week. And I was very impressed when I made my first time in my life, a poster

ologist able to explain why my body have tension, and I put on, and why my migraine starts, and he helped me to reduce my muscles tension using lasers and after this laser treatment, not chemical, but by light, my body was different.

this treatment helped me to feel better myself for a week, one week, some days. I started thinking about this. If I was able to made a wearable laser, probably I can fully stop my pain and no need more treatment.

This is the reason why I started to study and found on internet studying physics and biophysics. The Board of Quantum Dot technology able to convert external light as sunlight and electricity in laser.

And I start to use that for trade myself. And I. Use the term quantum dot. Quantum dot technology. I'm sure the listeners don't know what a quantum dot is.

and I'll confess, I don't fully understand what a quantum dot is can help us. A quantum dot is a crystal. It's a nano crystal. We are thinking about, measured disease.

60, 60. A million times more thinner than, a tennis ball. The example the Academy of Science used to explain to the people why quantum dot is so small is, a quantum dot is in, in terms of, consideration, smaller than, you see, the the example to compare, soccer balloon with the planet hurt.

This is the same reason you can compare a quantum dot with a soccer ball.

The Origin of Tao Patch and Quantum Dot Technology

Well, you're talking about so very, very, particular material, some minimum number of atoms able to construct this nano crystals. We're talking about this one.

People on five. The 20% of people around the world is suffering from chronic pain. So I think if I was able to invent something useful for me, can be helpful for million people around the world.

And this is the reason I invented this very small technology. Well, it looks smaller than a, you know, American penny. So very tiny. I see you have one.

I have one, two. I'm wearing it. we could all look at all, well, I think I won't, I won't, and Dubai Blast people will get too excited about that, but, I'm wearing one as well.

so, let's talk about, so I'm wearing this patch. You guys are wearing your patches. How does that patch generate? Laser? We're all we're probably one like, okay, how does this patch generate light back to my body?

It's very interesting when I made this technology and this is small device, the larger problem was where can I found a small, power supply to to give energy to the device battery and some other things.

don't worry, there's some, source of energy that is unlimited is the heat of the body. Your body produce infrared. And you can go inside every building, and there's some light inside.

And if you go outside to the sun, the sun is able to recharge the device. This technology is able to convert infrared of the body, technical light and sunlight in specific wavelength.

That is useful for therapy. Okay, so we're in this stuff. My body's heat, the infrared that I emit because I'm still alive, charges the patch, and the patch is able to focus this light back into a laser into my body.

Am I getting that right? This is. a. Power of quantum dots. And then, I'm guessing that you have a created device that, focuses it back in very specific frequencies, that are more healing.

I am, I am, I, following things correctly. Searching around the world of light therapy, photo, bio modulation, photo

stimulation, laser and all these things, we can found more than 100,000 scientific publications and reviews and many things.

Searching cities. We found the most important wavelength able to treat pain, chronic disease, muscle station, communication with between receptors, vitamin D production.

The the world of light therapies is very, very, very big. And there's a great difference between using the laser, using a patch, the laser ever, a limited power by electricity and laser use one wavelength of light with strong power.

We are using a larger number of wavelength of light in a small power using to have a therapy wearable, able to trade the body continuously. So for our our basic model, let's start these with, Well, 109 19 different wavelength of light.

And our biggest model that our platinum has 650 different wavelength light. so that's interesting. And I'm thinking this, you know, the sun has many wavelengths, and we probably were out in the sun for most of our evolutionary history, and many of us are, inside, working, doing a recreation inside.

So we are probably light deprived as a being, and I'm wondering, this is probably just really important for re nourishing ourselves with the light that, you know, our I suppose our DNA expects.

We are on the same page. You can you will see that the right things. We are close it we we we are projected to stay ten, 12, 12 hours a day outside. Now we are working inside and we need light.

It's the same reason why we need the vitamin C or other type of supplement or magnesium. We need light for our cells, communication for our cells, energy for for many reason, for our mitochondria.

It's very important things not only for the vitamin D for many, many reason.

How the Patch Works and Light Therapy Basics

And it's easy to talk about this. We, our eyes is able to see only around the 2% of the electromagnetic spectrum. Only the visible light. Our skin I call our skin the third eye of human because our skin is able to see the visible light, the infrared far near infrared and also the UV radiation.

So our skin is able to receive and and use the 30% of all the electromagnetic fields. Yeah. You know, and I wonder if that's part of why as a, as a species, we have really enjoyed people getting a tan that there's something that we understand health wise that is really good for us.

And so, you know, the, beautiful woman, very striking man. usually, are beach warriors and look, incredibly healthy and fit and deeply tanned. So, if I may add one thing. yeah.

But one of the things that's really quite interesting about Tal patch is it's a, it's a combination of really, really cutting edge technology. But in, in, in its, in its essence, it's a completely holistic therapy.

Right? It's a holistic tool because all you're doing is you're taking or is you're taking your own body's energy or the sunlight and, and reflecting it back into you like a mirror, but also kind of like a prism in a way.

Yeah. Changing the, you know, the spectrum of that light. so, so it's really helping your, your body heal itself in a really philosophical way. So, let's talk, very specifically about multiple sclerosis.

I know you have, some experience with that. can you describe that Ms.. Journey and what, the light therapy, these how patches can do for because, you know, we have many, many listeners with Ms..

And we have many, many listeners who have other neuro immune problems that might be involving, for example, their peripheral nerves. So, Fabio, what what have you guys learned.

11 years ago, one, professor of Catania in Italy, was wearing toe patch for his back pain. It was, cardio, surgeon and also vascular surgeon for many years of his career.

He's a back pain and was very because many hours in. Yeah. During during surgery in this period that he was helping to check the effects of a Zamboni method.

Oh, yeah. You see the angioplasty treatment for, for Ms.. you're receiving a patient having a ms.. He had this, strange idea to remove the patches and put on the body of the patient with multiple sclerosis.

After ten minutes, the patients start working differently. no one of us expected this. This was born for pain, not for movement. This professor called us and say, I see something particular jump as faster as you can there.

We have to very be very focused to try to explain this. So we start to make videos and measurement and and publication. Now we have for specific study.

three is published on Ms.. And we prove that people wearing toe patch with multiple sclerosis have more balance, more power on example on the hand with the hand grip test, more balance measured with stability metric test more flexible and movement better of the of the legs.

And also we show in the last research with the new version of Top Edge Pro as more improvement of stealth vitamin D production. So it's very impactful on these.

And everyone with an S can do. simple thing take take a videos of his movement, take a videos in his movement. For example having a tandem guide test you.

You look the test with your foot. the same line. See all difficulties wearing toe patch, wait 30 minutes and repeat the test. The result is immediate.

Okay, this is striking. so you could video yourself doing a tandem walk. Toe heel toe heel. and, you know, I think we could also even do a balance test, you know, stand, feet close together and close your eyes and see how that goes.

Well, of course, always with help. You know, when the fall put on the patches. in this probably very specific locations, that people should try for the patches.

MS Results, Testing, and Placement Protocols

And then 30 minutes later, have your friend videotape you, that is quite remarkable. That's, Yeah. Listen to me. I have to, thanks to Dimitri for his ability to show and explain and diffuse toe patch around.

You have the states and creating a great community of people with arms using the patch and, sharing between between. Their experience. The group with their experience.

But in Italy is more easy because in Italy, the technology is on the end of neurologists, doctors, physiotherapists. So in Italy, every people with a mass or Parkinson's or other disease can go to the physician, make some specific test neurological test, instrumental test, wearing toe patch and see the difference of the 30 minutes, one month to month, three months.

And during the life, Dimitri invented, a very great method to diffuse the use the auto patch with some video training as some specific protocol forms.

So in us, Dimitri are able to follow thousands of patients with the Ms. without seeing only sending to the on the device and adding specific phone light grid to make the test to test to see the difference.

Can I can you explain, Dimitri. Good. Well, so when we when we first brought it up to the US, this was right around

covet when Covid started. And so nobody could see their doctor.

And so we essentially we work with Fabio to, to simplify the some of the instructions and really try to replicate what a doctor would do as, as much as possible at home.

And it's not very much as possible. So whatever we could do, we did and muscle, for example, we, we basically strongly encourage, require all of our customers to attend a, a zoom session with our customer care team.

And we have, as many follow on, you know, one on one zoom sessions as you need, really. and, you know, we've seen great results, through this, you know, through this kind of, care.

obviously it's better to work with, with the physician. And we're building a professional network in the US, as well, for that reason. So, but again, for the listeners here, if you'd like to try this technology, it's we we could contact who what what what company?

How would we think we'll have the link at the bottom of the, of the video as well. but so if you are, in North America, it's, Tal Pacheco. Tal Patch and Tao is Tao.

Dao patch. Okay, okay. That's so that it's co not.com. Exactly. And if you're and if you're in Europe, Italy or other European countries, Tal patch.com.

So, okay, so, I, I reach out, I get the, this device, these little tiny disks, would have a orientation session via zoom. So, we're all get much more used to using zoom.

and then I'd have the to to do my self-testing, probably. So we, we know, how I'm performing, put on, the patches. Wait half an hour, repeat the test.

And I suppose sometimes, most people will have a noticeable effect. I suppose it's possible, you know, like. Well, I'm not really sure that it helped or not.

if it doesn't, if you don't perceive change in the 30 minutes is a something you continue, to use your program, and monitor and then change will happen, and, in a longer time period.

Can you speak to that? I can take that, Fabio, if you'd like. so the amount of time it takes to feel the difference really depends. in our, in our lab, with, especially with the stable amateur equipment, we can basically, in every case, we can measure an improvement in, for example, your balance.

However, depending on the condition, how long you've had it, how severe it is. the results, the, the amount of time it takes can differ. what we always recommend is if you don't feel the results within the first two weeks to definitely get in touch with us, because there are there's some fine tuning we can do with the placement of the package.

We can we can talk about your protocol on how you are using it. Yeah. And the, the pleasure of the patches. how how do you determine where the patches should go?

You know, for, you know, somebody has M. S. or Parkinson's. I'm sure it's it depends on which, symptom or disease that you're treating. how do you guys decide what to recommend?

Yeah. If you know, I'm an Ms.. Patient, and I say, okay, this sounds interesting, I'm going to give this a try. So this is and this is almost going to be too simple.

But for Ms. and for Parkinson's, there are two basic points that we recommend for everyone. especially in the beginning for the first six weeks. But really you always keep them on these two points, you know.

Well, always. And one is on your sternum, one is on your lower neck and we'll we'll show you on photos on videos exactly where to place it. but it's very straightforward.

It you can measure yourself. Yeah. and everyone, Dimitri and I had that, initial orientation, and so. Yes, it's really, quite, quite straightforward. and now, this technology, someone gets the little patches is a something.

I get a new patch every week. I get a new patch every month. How how frequently do I have to get new patches? Great question. Fabio, I think you should take that one.

That's that's such a. Okay, if you insist. this is probably one of the the best things about about the patches. They are, reusable and they work for tuna.

Two and a half. Three. And I think the new ones are actually three years. right. so if you, so if you think about it, you're again, you're using your own body's energy for without batteries for up to three years.

And that's, that's pretty incredible. So now my next question is, I'll probably forget in three years. Like, I should be getting by a new patch. So do you guys, contact me to say, hey, doctor walls, it's time for a new patch?

Or do I have to put a reminder on my own calendar? Will remind you. Okay. And another thing that's very important. we have, moneyback guarantee, 100% moneyback guarantee.

and this is probably the most important point. Yes. We have dozens of studies and with, you know, thousands of patients, but the only study that matters is study of you, right?

Because you can work. Oh, I. Love that. Of other people. But if it doesn't work for you, you know, it doesn't help. And so for that reason, if you have any worries about trying it, we highly recommend just simply trying it.

there is there are absolutely no counter indications or side effect. we are FDA approved.

Safety, Children, Pregnancy, and Pricing

We are a class one medical device in Europe, which means it's completely safe, and can be self applied by the patient. so it's basically has the same safety, right?

You know, so I'm thinking about, two populations that we always get very nervous about interventions, children. and so, do you guys have any experience with children?

in this. We have many experience with children. What we we are making a new, specific study in, evaluation of emotional changes in young sport people.

but we are treating many people with many, many guys, children with autism, with rat syndrome, with, well, with, Angelman syndrome, a very small patient.

We have some neurologic disease and some genetic disease is treated in Italy by physician. We tell patch not to solve the problem. The pathology still exists to. To.

Improve their focus, their movement, their well-being. so, I know many parents when their children are diagnosed with multiple sclerosis, they want to support their, their child, help them with diet and lifestyle.

It seems like this would be a very nice adjunct to support, your child who has, multiple sclerosis or any other neurologic, issue. Would that be true for kids with psychological issues?

anxiety, depression, those types of, major concerns which are so prevalent in our children today. Young people need light more than adults. So it's very important to have this nutrition on their body.

well, this sounds really wonderful. I have another population that's very challenging to treat. And those are the young women trying to get pregnant or are pregnant.

is it, you know, is this helpful for them? It's very important because during pregnancy, the use of chemicals and all that rhythm is, is very difficult.

So everything you have, you know, thinking these top S's use it also as, and I could point to treatment so many physicians using help edge technology in acupoints.

So with acupuncture, there's protocol for everything. So every part of the body you have pain or you have problem you can use to help out. So it's important in pregnancy and in children have something without side effect to be useful to trade pain and other things.

But when you have yours, more children I have two is more one. pain. I will say in English, Colic. Colic. Oh. When, when the when kids start to grow and be condition of pain about the child without chemical.

You can use that and having immediate results and so important things on women is the for Mistral syndrome. Yes, yes. Pain headache and many things. We made a new studies.

We are under publishing using four devices, one on the chest, one on the back and two on a specific acupoint the stomach, 25 on the side of your belly and having a great results.

Okay, so, I think what I'm one of the things I'm hearing is, we get, we get the patch, we can have a conversation with Dimitri and his team about, my symptoms, my underlying, diagnoses, and get some guidance as how to optimally use the patch given my symptoms, in my diagnoses that, you know, is there also a check in where we follow up, in some specified time, say, yep, everything's going well or, you know, I'm not quite getting the results that I hoped for.

Absolutely. We always follow up with you and make sure you're okay. and you're more than welcome to reach out to us with any questions at any point. Okay.

So, really interesting technology, amazing shelf life. and so, yeah. Is this, what kind of cost are people looking at, to take advantage of this kind of technology?

Because we have, several different products. the one we recommend, is called start, and we're about to relaunch, a new, new product called the Pro to the start is $300.

Pro is is more expensive, but start is really a great way to start. And most especially the most of the early studies that we've done were conducted with, in fact, the earlier version of the start that was even that was, actually less powerful.

So it's an it's incredibly powerful tool. And if you think about it, if you divide $300 over three years. It's amazing. it's really the. Cheaper treatment of the word.

that is really amazing. So it's really, a very affordable, technology to go explore. and if you're satisfied, you you keep the device and continue to make improvements.

And if you feel like, okay, things aren't going well, I had some check in again, another time to tune up. And I finally said, you know what? I it's just not working.

Did I hear that? You're going to say like, okay, fine, we'll give you your money back? Absolutely. Yeah. There are not many technologies I'm not aware of any like technologies that have that money back guarantee.

So, that's really quite amazing. We want to create to do that if we want to create a good karma. So we need to help people, to have the results or money back.

that that is pretty great. Karma. so how do we tell patches am I going to need, to begin treatment? Ms.. Is this, like, a ten patch heal 20 patch deal?

how many would I need? So each set, each box comes with a set of three patches. you really need two to start. but slightly more advanced protocols, require three.

And so with three, you're you're more than you're. So. okay, again, this is really, I think, remarkable technology that is very affordable because, you know, there are all sorts of interesting, longevity gizmos, health gizmos that, a variety of devices that people talk about, this is probably the most affordable, device that I've heard.

and the fact that you guys give people a trial, a lot of guidance. And then I want to say, okay, it's not working out for you. That's fine. We'll we'll, refund your money.

I think that's astounding. Really? So, Dimitri, Fabio, my hat's off to you. I think this is, most remarkable. Now, how many? How many people have you, treated with, EMS, here in the US?

And then I'm going to ask, globally, what's your experience been? I would have to look back at some of the early tens of thousands, but, just let's put it this way.

It's in the teens about. that is, really remarkable. You know, you and here United States, we've got a million people with EMS. we we are projects in, after the coronavirus pandemic that that number is going to grow.

We don't know how much it's going to grow. So I'm thrilled that you have, at least 10,000, that's, 1% of the people suffering. So would like to get that, up to, you know, everyone have a try.

and so they could, begin to see the benefits. You know, I was just at the consortium of EMS centers. I'm going to tell you guys, you need to have a booth there.

in 2025, be part of that meeting, as well. So you can be talking about your technology because that's the leading, clinical, in research. EMS conference.

I've been going to it, every year presenting our research. So I'll be there next year. And I, certainly want you guys, to go there. So after the meeting, I'll get you the link so you can go, sign up and be, at that conference as well.

Thank you so much.

Clinical Training, Sports Use, and Closing Remarks

No, how many, doctors, in other health practitioners here in the United States, have been trained and have are now including the Dow patch in their treatment protocols.

In the US. We're just getting started. So we really don't have that many of the fabric. How many do we have in, Italy and Europe? In Italy we have 4000 of therapists in Europe, another 4000 around.

And we are improving this number. Also. We work better in Japan and in other countries. we start soon as possible in a month to have, online. The first online training for us physician and therapist.

Okay. So we will have a bunch of practitioners with a variety of health certificates and licenses who are watching this, event. If you are a practitioner or you have a health license certificate and you want to get trained so you know how to use the towel patch as part of your clinical care, how how do these practitioners get trained?

where does it start? So thank you. Thanks to Fabio, we've converted, all of, years of our experience of teaching therapists in person into our online course.

so it's all going to be very easy. You can get certified at home. So we can get certified, and the, again, imagine if we go to, give us the website again.

taopatch.co taopatch.co They can probably get resources there as a patient. And I could get resources there as a

clinician who wants to get trained. Yes. Yes.

And we will provide online online training online exam. And next you also physician have to confirm the ability to send the guides a certain specific test doing do to some patient to demonstrate they have been practice.

So we have a method to be sure that the physician is well trained. And yes, I think that's, vital. And you want to be sure the person who's going through this actually has learned how to use it properly.

so they can have, great results as well. Now, one of the things, I think we mentioned early on was the impact of this on posture, and, balance. so is this affecting people who are athletic?

yeah. No, it just makes me really curious. Is this is one of the our best, first results and story. So top edge is able to, help you to, to change your posture instantly.

So it's evident to put on the body, drink some water, take some stat and check your posture and see the changes. Your hips go in. Balance your shoulders, your strength, your ability.

We made two scientific public scientific publication on and I don't see, strong effect on posture and strength and balance on sports people and national team are wearing, many Olympics are wearing.

You see, the most important, tennis player of the world using tao patch in the sport. We are in every important sport in Italy, in Europe. And for example, in the last European championship of, artistic gymnastic, we win 18 medals.

Oh, that's pretty cool. that is, really quite wonderful. you know, if we are able to change the movement on masse for, for us to trade, it's it's, very easy.

You know, it's sort of interesting, but, you know, before I became a physician, I did, martial arts, taekwondo. I competed nationally for contact free sparring.

I was a real, kick ass, athlete at that time. then entered medical school. quit doing that because I don't want people to get two points for kicking me in the head anymore.

and now, recently, I realized that, I'm not as flexible as I want, so I have just recently gone back to my taekwondo warmups. I can't kick nearly as high.

I'm not as flexible where I'm like, but I'm starting to get, and it's super fun, to be doing some of those, drills. So I will, Dmitri, you know, I'll have to stay in contact.

We'll see. You know, just how how effectively I can rehabilitate my, taekwondo that that would be, super fun, but I will make sure I'm not going to get into the ring and let anyone, hit me in the head again.

That would be. Perhaps, but the European featherweight boxing champion is also one of our spokespeople. So that does help with that. very, very cool. Well, and we we we I have been in my office, the, the shirt, the t shirt of the gold medal in karate in Tokyo.

wearing the tao patch Yes. that is very, very cool. you know, martial arts, really wonderful sport in terms of balance, agility, your ability to respond, to a changing environment.

kung fu practitioner. Okay. yes, it is a wonderful, wonderful, sport. and I'm, really pretty excited that I'm getting back into that, and, perhaps tell patches what has improved my balance enough that I can feel like, you know what?

I could go back to doing, the, warmup drills that I used to do, every day, multiple times a day as part of, my taekwondo work. Well, Fabio, Dmitri, this has been wonderful.

I am, so inspired. I love the idea of light. I love even more that you've made this a very affordable technology for

people to explore. and I'm just so pleased you are a part of our summit.

Can you tell us one more time where people can find you? taopatch.co so, taopatch.co and on our website, you can find our social media, our phone number, email, so you can get in touch with us.

Any way you'd like. thank you so much. Thank you to you. Very much for having us.