Utilize Light To Target Cancer Cells & Viruses Transcript

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Introduction to Photodynamic Therapy

Hello, everybody. Dr. Karlfeldt, I just want to this is one of the therapies that I do a lot at the Karlfeldt center is called Photodynamic Therapy. And it's actually then using light in order to be able to turn on mitochondria in the body, reduce inflammation, also kill off pathogens like viruses, bacteria, fungus, parasites, also cancer cells.

You know, it's been heavily research how photodynamic therapy is very effective in killing cancer cells. One of the issues has been being able to then penetrate deeper into the body and being able to use photodynamic therapy more of an internal level rather than that just superficial.

It's been mostly just things like melanoma, skin cancers, where you apply a photosensitizer and then apply light onto that tissue. And photosensitizer is something that absorbs into the tumor more heavily than it draws light to itself to increase the energy within the tumor to kill off the cancer cells.

How the Laser Blood Treatment Works

So that process has evolved and this is the evolution right here is where we can then actually treat the bloodstream, you know, using photodynamic therapy, but we can also then go after tissue that is deeper in the body and then deliver enough light into that body using laser light, which is a much more powerful form than just a simple LED, so we can penetrate deeper and then trigger them.

That oxidative reaction, you know, a creation of react, a reactive oxygen species then to kill off cancer cells. So this is what a machine looks like.

And I'm just going to kind of show you this machine and deliver several different colors like you see here. Here you have them. The red color right here.

And so you can see that on the hand right there, the red. So when you introduce that, then intravenously you will then actually, as the blood passes by, it will be treated by this light.

It becomes in a very sterile environment and the blood will pass by this location about once every minute. So in a 60 minute session, you'll be able then to treat your blood 60 times your whole blood volume 60 times.

So you get red. And I'll talk a little bit about the the effects and what it does. And then you have other colors and these are just ones that I kind of wanted you to visually see.

Like here we get got green. You see the green right here.

Light Colors and Their Effects

So same way you introduce that intravenously and you would use a needle like this and you would couple that onto the laser laser cord and that light would then travel.

And so the needle is a fiber optic needle and then it will then treat the blood as is passing by. And then you have the blue right here. So just blue right there, blue right here.

And so the same it will treat then the blood, as its passing by. So you can do this intravenously or let's say you have a tumor specific site and you can then introduce that.

But the needle and then kind of surround the tumor with these with these laser needles, you know, optic needles, and then get a lot of light into that tumor in addition to and you prepare it then.

to photosensitize yourself. So there's a high concentration of energy from that light. So this is what the machine looks like. And so the different colors, the red really activates the immune system.

And then the, the green is more kind of a balancing, you know, for cardiovascular. The red blood cells, you know, they absorb a lot of green. So it helps to energize the red blood cells a lot.

The blue very it kills off bacteria, viruses kills off a lot of things. Just the the blue light in itself. You can make that even more powerful by combining it with a photosensitizer here like riboflavin would make it even more powerful.

And so because then the riboflavin, which is just Vitamin B2, will then attach itself to the pathogens. And then as the pathogens are flowing by and the arm and when we have the needle there, you know, they they get get all that juice, all that energy that that actually kills them off.

So that's a very powerful way to clear off a lot of pathogens and can do the same.

Targeting Cancer Cells and Circulating Tumor Cells

Yeah, because one of the issues are circulating tumor cells and we know we don't want those because they can go places and they can do things that we don't want.

So by treating the bloodstream, you're then able to treat what is flowing by. And then also as you treat those circulating tumor cells, they will then break up into small pieces.

And then as the immune system system will see these small pieces, it can then mount, then a specific antibody response to those small pieces. And so now we've educated the immune system in regards to what the components are of those circulating tumor cells so that they can be very specific and very targeted in the antibody response against those circulating tumor cells that came from the cancer, from the tumor.

And so it will be more efficient in going after that. So that's a beauty with using photodynamic therapy, is that in addition to the direct kill, it also educates immune system in regards to, you know, how to address this more efficiently, it makes it more intelligent and there are other effects as well that that comes along with it.

It has a strong what's called an antiangiogenic and so it kind of kills off the vasculature, the blood vessels that feeds the tumor. And so that, you know, a tumor is not very if efficient in in its usage of energy.

So it requires a lot of resources. And that's why you see a huge amount of blood supply feeding that tumor. And by then killing off that blood supply, that the tumor becomes very vulnerable because it is so inefficient.

And now to kill off the blood vessels is doesn't get what it needs, so then it starves and then dies. Or we can then push it even harder with other oxidative therapy.

If an individual does chemo or this type of therapy or high dose vitamin C or other type of oxidative type of therapies, it will be much more vulnerable and we can go after it much more strongly.

So in addition to then, you know, we've talked about photosensitizer so we have them the the red light on. There are certain photosensitizer that are associated with it.

Photosensitizers and Deeper Penetration

You know, of course, there's certain chemicals that absorb said lead to better than others is frequency like for instance, chlorophyll absorbs a lot of red light and you also have like methylene blue is something that's used quite a bit and then for infrared and if I would turn it on, you wouldn't see it anyway.

So I'm not going to turn it on, but it's part of the machine and beauty with infrared is that it has a longer wavelength, so penetrates much deeper. And also one of the more the most powerful photosensitizer the non ionized version of

ICG, which is helps to kind of because non ionized and liposomal form it accumulates in the tumor and then it stays in there for a longer period of time, that which allows a longer treatment period to be able to go after it.

And so by using the ICG, the nonionized version of ICG and they couple that with infrared, which is one of these diodes here and then you're able then to create all that juice to kill off, then the cancer cell and then the blue light.

Yeah. There are a lot of. So we talked about the riboflavin, but vitamin C for instance, curcumin, all of them are photosensitizers for the blue light.

So if, for instance, you were going to do a curcumin IB, which is one of the things that we do, you can do the curcumin IB and then follow up that with blue light and then the curcumin will function as a photosensitive research and then you have the effect then just kind of using the blue light here.

So, so this is what it looks like. And as I mentioned, you can do this intravenously.

External Applications and Cellular Energy Support

You can do that directly on site depending on where the tumor is. And you can also do that externally. So you can have then a like a showerhead with a powerful laser that that penetrate deeper then into into the tissue to support the body to kill to kill cancer cells off.

And then the good thing is that it becomes very targeted so it doesn't destroy healthy cells. In fact, the healthy cells actually are benefit from it for these different colors turns on the energy production within the cell.

The mitochondria within the mitochondria have something that's called c electron train transport chain. And so as the electrons are moving through there, they're different substations cause complex.

One, two, three, four. And each color will help to support these different stations, to move those electrons across, to increase the energy within healthy cells, to make them more resistant to cancer and also able to detoxify better and regenerate better.

So just when you get a kind of a feeling for what it looks like, because I talk a lot about this during all the different conferences and and summits that I do. So yeah, Hope you all appreciated this.