On Wednesday, October 2, 2013 8:42 AM [redacted] wrote:

thanks and no the injection site did not bother me. I think you still have plenty of room to up the dose and I will definitely see you next month.

[redacted]

From: "whalford@siumed.edu" <whalford@siumed.edu>
To: [redacted]
Sent: Wednesday, October 2, 2013 6:58 AM
Subject: Re: vaccine

Hi [redacted]

I guess "9 days" is a good way to think about it, as there is no doubt that the effectiveness of a vaccine will increase as function of:

(1) the duration of time the body is exposed to the vaccine antigen [assuming that you have adequate inflammation and 'danger' signals at the injection site,
which is the job of an adjuvant], and
(2) the diversity / breadth of antigens in the vaccine.

In math terms, duration of antigen exposure x breadth of antigens = greater effectiveness of vaccine.

The HSV-2 vaccine you received is a live, replicating virus and it should certainly maximize the breadth of antigens your immune system sees, but it is still too early to say how long each shot exposes your immune cells to antigens. However, I would say that it is reasonable to assume the shots you guys received should deliver HSV-2 antigens for 7 - 14 days post-vaccination. Obviously, this is nothing more than an educated guess. The proof is in the pudding....let's see if your problems with outbreaks dial back or not.

Hope the reaction at the injection site was not too bad for you. See you next month.

- Bill

[redacted]

>
>
> I ran across this paper and was wondering what your thoughts were on
> it. If I understood it correctly it was saying that in order to get
> long lasting memory t-cells from a vaccine it would need to be able
> to expose the body to the antigen for at least 9 days. Do you think 9
> is really the magic number? Do current vaccines do that? Can your
> vaccine at a high enough dose do that or is it even necessary?
>
> paper here: http://onlinelibrary.wiley.com/doi/10.1002/eji.200535730/pdf
>
> Thanks,
>
> [redacted]
>
> p.s. I started to post this question in your blog but wasnt sure what
> was better for you or if it was appropriate for it.. Would you rather
> me post it there ?
>
>
>
> _____
> From: William Halford <halford@siumed.edu>
> To: [redacted]
> Sent: Thursday, September 26, 2013 10:59 AM
> Subject: Re: vaccine
>
>
> Hi [redacted]
>
> It sounds like November 2 is the date that [redacted] and [redacted] are
> planning on.
>
> [redacted] I am very happy to do what I can, and I really appreciate
> your willingness to make a 24-hour round trip drive to serve as a
> volunteer in this makeshift trial. I have done the drive to New Orleans
> many time, and I know it is a haul when you have to do it by yourself
> and don't start until the end of the workday. Thanks for making that
> effort! Hopefully, Nov 2 will be do-able for you and you can catch a
> Southwest flight to St Louis for a reasonable price.
>
> Looking down the road, I will be interested to know if you have any
> "wanna-be outbreaks" as one of my earlier volunteers calls them. That
> is, 2 of my 3 past volunteers have had multiple outbreaks that start and
> would in their pre-vaccination life have gone on to cause a genital
> herpes lesion for 10 to 14 days. However, post-vaccination a lot of

> these events peter out after 1 day.....the skin starts to get red the
> day after the tingling starts, but then it stops and disappears by the
> next day.....thus the term "wanna-be outbreaks."
>
> I will be interested to hear if anyone in the group who was here on
> Sept 21 observes a similar phenomenon.
>
> Thanks for volunteering!
> - Bill
>
>
> On 9/25/2013 5:54 PM, [redacted] wrote:
>> Thanks so much for the vaccine. I cant wait to come back in November
>> and I will be there with everyone else.
>> Even if it doesnt help us I hope it at least works to prevent new
>> people from getting infected and that you are able to use this data
>> to help make that happen. Of course I hope it helps us too. I must
>> say you will be the first person that has ever truly tried to help
>> me.
>>
>> Thanks so much,
>>
>> [redacted]
>>
>> P.S. If you need additional blood samples in the future to prove
>> anything to whoever I will gladly give them at any time.
>>
>>
>>
>>
>> _____
>> From: William Halford <halford@siumed.edu>
>> To: [redacted]
>> Sent: Friday, September 20, 2013 5:32 PM
>> Subject: Re: vaccine
>>
>>
>> Hi [redacted]
>>
>> I can vaccinate one more.....not an issue. If you get to
>> Springfield, I can get you vaccinated.
>>
>> - Bill
>>
>> On 9/20/2013 4:41 PM, [redacted] wrote:
>>> I was seriously thinking of driving out tonight to be there

>>> tomorrow. The weather cooled off enough for me to be able to get
>>> away but [redacted] wasnt sure if you could do another person or not.
>>> Please let me know if you can.
>>>
>>> ;)
>>>
>>>
>>>
>>>
>>> _____
>>> From: "whalford@siumed.edu" <whalford@siumed.edu>
>>> To: [redacted]
>>> Sent: Sunday, September 15, 2013 11:33 PM
>>> Subject: Re: vaccine
>>>
>>>
>>> I will be here, and I will be in Montana after that. Illinois is a
>>> lot easier
>>> to get to for most folks.
>>>
>>> - Bill
>>>
>>> Quoting [redacted]:
>>>
>>>> Thanks and I do believe its safe. I was just trying to think what it
>>>> would take to make the FDA clear the way. Its very frustrating.
>>>> I still hope to make it over to see you before you leave this year.
>>>>
>>>>
>>>>
>>>>
>>>> _____
>>>> From: "whalford@siumed.edu" <whalford@siumed.edu>
>>>> To: [redacted]
>>>> Sent: Saturday, September 14, 2013 12:26 PM
>>>> Subject: Re: vaccine
>>>>
>>>>
>>>> Hi [redacted]
>>>>
>>>> I think the main thing to appreciate is that there are no
>>>> legitimate
>>>> concerns
>>>> surrounding a HSV-2 ICP0- mutant vaccine. If the logic that is
>>>> blocking the
>>>> development of a live HSV-2 vaccine was applied across the board

>>>> to all live
>>>> vaccines, then we would still be living with smallpox, measles,
>>>> mumps, polio,
>>>> and chickenpox to name a few diseases that were prevented with live
>>>> vaccines. My live HSV-2 vaccine is much safer than any of the vaccines
>>>> I name above. Therefore, there is no real need to make my vaccine
>>>> safer, but rather the issue
>>>> is to get the powers-that-be to back off of their false claim that a
>>>> live-attenuated HSV-2 vaccine would be "too dangerous."
>>>>
>>>> - Bill H.
>>>>
>>>> P.S. What you propose below is not possible or necessary.
>>>>
>>>> Quoting [redacted]:
>>>>
>>>>> I was wondering if it was possible to engineer a mutant virus to self
>>>>> destruct if it some how acquired ICP0? It seems like that would
>>>>> alleviate safety concerns if it could self destruct or somehow be
>>>>> tagged for destruction via some other method. I dont know much about
>>>>> engineering a virus so forgive me if this is an ignorant question.
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> _____
>>>>> From: "whalford@siumed.edu" <whalford@siumed.edu>
>>>>> To: [redacted]
>>>>> Sent: Friday, September 6, 2013 10:16 PM
>>>>> Subject: Re: vaccine
>>>>>
>>>>>
>>>>> Hi [redacted]
>>>>>
>>>>> I will be gone from Springfield from Dec. 1 to late-July
>>>>> 2014....I
>>>>> am taking
>>>>> a Sabbatical Leave in Montana at the Rocky Mountain
>>>>> Laboratories. Prior to
>>>>> December 1 is my only option, or after August 2014.
>>>>>
>>>>> - Bill H.
>>>>>
>>>>> Quoting [redacted]:
>>>>>
>>>>>>> Im thinking maybe in December I might be able to get away from here

>>>>>> to get the shot or possibly sooner.
>>>>>> Are you available during the weekdays? or just weekends?
>>>>>>
>>>>>>
>>>>>>
>>>>>>
>>>>>> _____
>>>>>> From: "whalford@siumed.edu" <whalford@siumed.edu>
>>>>>> To: [redacted]
>>>>>> Sent: Wednesday, August 21, 2013 7:59 AM
>>>>>> Subject: Re: vaccine
>>>>>>
>>>>>>
>>>>>> Hi [redacted]
>>>>>>
>>>>>> Not an option. There are enough variables in this "experiment"
>>>>>> already, and
>>>>>> I am not willing to introduce this additional variable as well.
>>>>>>
>>>>>> - Bill H.
>>>>>>
>>>>>>
>>>>>> Quoting [redacted]:
>>>>>>
>>>>>>> Is there any possibility of mailing it to me and doing a self stick?
>>>>>>> I suppose you could even watch me do it on skype if you needed to.
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> _____
>>>>>>> From: "whalford@siumed.edu" <whalford@siumed.edu>
>>>>>>> To: [redacted]
>>>>>>> Sent: Tuesday, August 20, 2013 6:24 PM
>>>>>>> Subject: Re: vaccine
>>>>>>>
>>>>>>>
>>>>>>> August 20, 2013
>>>>>>> Hi [redacted]
>>>>>>>
>>>>>>> Regarding your questions.....
>>>>>>>
>>>>>>> 1. You do not need to stop taking transfer factor. You would
>>>>>>> just need to
>>>>>>> discontinue valtrex or acyclovir for 48 hours prior to
>>>>>>> vaccination until

>>>>>>> one-week post-vaccination;
>>>>>>>
>>>>>>> 2. The chance of the HSV-2 vaccine strain picking up the deleted
>>>>>>> gene from
>>>>>>> HSV-1 is vanishingly small. I would immunize you in the calf of
>>>>>>> the leg; I
>>>>>>> assume your HSV-1 is at a completely different anatomic site. I
>>>>>>> would think
>>>>>>> the chance of the HSV-2 vaccine strain recombining with wild-type
>>>>>>> HSV-2 would
>>>>>>> be much higher because the two viruses share close DNA sequence
>>>>>>> homology; even
>>>>>>> then, the probability of this happening is very small. I have tried
>>>>>>> to force
>>>>>>> HSV-1 DNA sequence to recombine with HSV-2 DNA in the lab on many
>>>>>>> occasions,
>>>>>>> and I have yet to succeed. In contrast, HSV-2 DNA sequence efficiently
>>>>>>> recombines with HSV-2 DNA in a laboratory setting.
>>>>>>>
>>>>>>> 3. Does the HSV-2 DNA go latent in the ganglia? I hope so, but I
>>>>>>> don't know. If the HSV-2 DNA persists in the ganglia, this would mean
>>>>>>> that it would have
>>>>>>> the opportunity to keep stimulating an immune response to HSV-2 over
>>>>>>> time. What I can say definitively is that the HSV-2 vaccine strain
>>>>>>> cannot reactivate
>>>>>>> in a way that produces any symptoms. One of the known features of
>>>>>>> ICP0- mutant
>>>>>>> viruses is that they are grossly impaired in their ability to
>>>>>>> reactivate from
>>>>>>> latency.
>>>>>>>
>>>>>>> I will be here before and after Sept 21, and can work with you on the
>>>>>>> date. If
>>>>>>> you have other questions, perhaps a phone call would help.....this
>>>>>>> would give
>>>>>>> me a chance to address whatever questions and/or concerns you may have.
>>>>>>>
>>>>>>> I hope these answers start to address some of your questions.
>>>>>>>
>>>>>>> - Bill H.
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>> [redacted]:
>>>>>>>
>>>>>>>>>>>>> Hi,

>>>>>>>>
>>>>>>>>
>>>>>>>> My name is [redacted] and I have been talking to [redacted] about
>>>>>>>> getting your vaccine. I have the type 1 virus and it frequently
>>>>>>>> bothers me.
>>>>>>>> I have been taking transfer factor plus which has helped a lot but I
>>>>>>>> think your vaccine will be much better. I have a few questions.
>>>>>>>>
>>>>>>>> 1. Do I need to stop taking the transfer factor before the shot and
>>>>>>>> how long before and after?
>>>>>>>>
>>>>>>>> 2. Is there any chance of the hsv2 picking up the deleted gene from
>>>>>>>> my hsv1 or anywhere else and recombining.
>>>>>>>>
>>>>>>>> 3. Does the hsv2 from the vaccine go latent in the ganglia and
>>>>>>>> stay there?
>>>>>>>>
>>>>>>>> I am trying to figure out if I can make it on the 21st of September.
>>>>>>>> That day might be too tricky for me but I will see.
>>>>>>>>
>>>>>>>> Thanks,
>>>>>>>>
>>>>>>>> [redacted]
>
> --
> William Halford, Ph.D.
> Associate Professor
> Southern Illinois University School of Medicine
> Dept. of Medical Microbiology, Immunology, and Cell Biology
> 825 North Rutledge Street
> Springfield, IL 62794-9626
> Office: 217.545.4277
> Lab: 217.545.4278
> FAX: 217.545.3227
> halford@siumed.edu