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Definition and Mechanism Action of a Siddha Drug- S.I.V.A Herbal Drops

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Abstract

We have earlier established that S.I.V.A herbal drops boost the immunity by increasing the phagocytic ability of macrophages. However this benefit warrants better proof for making effective communication and subsequent conversion of clinician's faith to S.I.V. A herbal drops. For the above purpose we have defined a novel method wherein we blend immune elicitation benefit of (photosensitivity) of sun the UV irradiation will trigger Langerhans cells and the release of several inflammatory mediators leading to a cascade effect called erythema. The immune suppressive agents like steroid would suppress such reactions of the skin if applied and then exposed to sun. We have studied how S.I.V.A herbal drops attenuate the immune suppressive effect of steroids and elevate the inflammatory response when applied and expose to sun. The findings reveal that S.I.V.A herbal drops effectively nullified the effect of steroid and elicited inflammatory reaction proving the fact that S.I.V.A herbal drops is indeed immune booster. Findings are discussed in the article.

Keywords: Immune, Langerhan cells, inflammatory, S.I.V.A herbal drops

Introduction

S.I.V.A Herbal drops is a proprietary siddha drug of Dr. JRK's Research & Pharmaceuticals. The drug is formulated with the following herbs *Indigoferaaspalathoides, Celastruspaniculatus, Corallocarpus* (*Bryyonia*) *epigaeus, Cinnamomumcamphora Solanumtrilobatum*. All the above herbs are documented to have multi-various drug valueswhich are well documented in the ancient literature of siddha system of medicine. Our previous studies have shown that S.I.V.A Herbal drops boost the phagocyte mediated immunity andthus proving the wisdom on immune modulation of ancient Siddhars which is scientifically tenable [1].

Any immune boosting preparation is presumed to increase the activity of Langerhans cells when applied over the skin as Langerhans cells are primary immune surveillance cells in epidermis. The cutaneous immune elicitation is likely to be visible when the skin is challenged by UV/ Sun exposureif the test drug has immune modulatory property [2]. UV/ sun exposure would increase the release of inflammatory mediators and the extent of release is expected to be very high when an immune boosting preparation is applied [3,4,5& 6]. This can be counter checked by betamethasone a known immune suppressive agent intervention.

We have employed an innovative method to confirm the immune boosting effect of the Siddha drug prepared by integrating the ancient wisdom. The erythema index is being measured using an advanced, sophisticated tool- mexameter. Findings are presented in the paper.

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Materials & Methods

Details of S.I.V.A Herbal drops- Siddha drug

Indigoferaaspalathoides Celastruspaniculatus Corallocarpusepigaeus Cinnamomumcamphora Solanumtrilobatum

Twelve healthy volunteers were recruited for the study. The forearm region was selected for the study. In different pre identified areas of the forearm, theS.I.V.A Herbal drops, Betamethasone. Combination of betamethasone and S.I.V.A Herbal drops, combination of coconut oil and Betamethasone were applied separately. The quantity used was 1mg/cm².

In the case of S.I.V.A Herbal drops& coconut oil, they were applied 30 minutes prior to the experiment. For betamethasone 5 minutes absorption time was given.

The treated forearm region was exposed to sun for 5 minutes and then the skin response- erythema was read by Mexameter.

Results

In the control region the extent of immune elicitation manifested in the form of erythema value was 3.1. The S.I.V.A herbal drops applied region showed high immune elicitation as the erythema value in the region was 5.9.

In the case of betamethasone applied region, the immune elicitation appeared in the form of erythema value was least and the value being 1.8 which was on the lower side (below the base line erythema reading).

The combination of S.I.V.A Herbal drops& betamethasone applied skin region showed small immune elicitation (erythema) whereas coconut oil with betamethasone applied skin region did not show such reaction. (Table-1)

subjects	Control		%	6 Drops		%	Betamethas		%	Siva drops+		%	Coconut oil +		%
			diff			diff	one		diff	Bethametha		diff	drops		diff
										sone					
	Erythema			Erythema			Erythema			Erythema			Erythema		
	В	Α		В	Α		B	Α		В	Α		В	Α	
1	407	415	2.0	396	418	5.6	405	390	3.7	384	405	-5.5	305	285	6.6
2	396	400	1.0	388	416	7.2	386	379	1.8	385	410	-6.5	286	265	7.3
3	362	368	1.7	404	424	5.0	430	421	2.1	419	428	-2.1	330	325	1.5
4	391	400	2.3	415	435	4.8	461	440	4.6	400	412	-3.0	362	342	5.5
5	401	409	2.0	388	410	5.7	435	415	4.6	419	431	-2.9	450	435	3.3
6	478	485	1.5	382	402	5.2	404	385	4.7	407	422	-3.7	412	395	4.1
7	287	300	4.5	409	430	5.1	362	340	6.1	396	410	-3.5	462	440	4.8
8	376	385	2.4	369	390	5.7	404	373	7.7	442	462	-4.5	304	295	3.0
9	404	420	4.0	411	430	4.6	402	378	6.0	434	448	-3.2	425	415	2.4
10	415	425	2.4	341	370	8.5	352	330	6.3	358	370	-3.4	362	350	3.3
11	377	392	4.0	332	357	7.5	388	362	6.7	364	387	-6.3	488	470	3.7
12	320	350	9.4	394	415	5.3	390	370	5.1				430	420	2.3
			↑3.1			↑5.9			↓4.9			<u></u> ↑4.1			↓4.0

Discussion

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The present has shown that the siddha drug S.I.V.A herbal dropspossess effective immune elicitation property. This finding revalidates our earlier scientific study on the immune boosting effect of the drug. The present findings revalidate the science of the ancient siddha system of medicine.

The choice of herbal ingredients such as Indigoferaaspalathoides, Celastruspaniculatus, Corallocarpus (Bryyonia) epigaeus, Cinnamomumcamphora Solanumtrilobatum used in the formulation were selected from the glorious literature of siddha system of medicine

When S.I.V.A herbal drops is combined with betamethasone still we could find immune elicitation which was absent when betamethasone alone was used. This suggeststhat S.I.V.A herbal dropsmay be counteracting and nullifying the immune suppressive effect of betamethasone through its immune elicitation property. On the contrary the coconut oil did not show any such immune elicitation activity. Findings of the present study provethat S.I.V.A herbal drops is effective in boosting immunity and would treat all diseases that mayrequires immune boosting therapy.

We have used the immune flare up response of the skin to sun as an indicator and using the above model, theeffect of thesiddha drug wasstudied. Since such responses are not perceivable in most occasions we have used a sophisticated non-subjective instrument called mexameter manu factured by the world famous company courage & khazaka. The use of above advanced technology further reconfirms the credibility of the findings.

All the herbs used in S.I.V.A Herbal drops such as Indigoferaaspalathoides, Celastruspaniculatus, Corallocarpus (Bryyonia) epigaeus, Cinnamomumcamphora Solanumtrilobatum are proven to have several therapeutic values and were already assimilated by ancient siddhars through their supernal vision.

The present findings reassure the value and merit of ancient siddha system to modern world.

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