Revivify a Science Based Product In-Vitro Study Graphs

Revivify studies suggest as a strong Anti-oxidant diverse capabilities of inflammatory reductions and most importantly enhance immunity responses

- Antioxidant Biomarker (8-Isoprostane): Isprostanes constitute the important product of lipid peroxidation of arachidonic acid and are considered as the makers of the oxidative lipid damage.
- Lipid Per-oxidation Attenuation (MDA, 4-HNE): MDA and 4-HNE, the toxic and products of lipid peroxidation that cause damage to the DNA and proteins.
- Protein Degradation Attenuation (PC, 3-NT) : The presence of carbonyl groups in proteins has been considered as the marker of ROS mediated protein oxidation. The other specific markers of protein oxidation are O-tyrosine and 3-nitrotyrosine.

Induced Activation of 8-Isoprostane Secretion by Jurkat Cells

Revivify Health Benefits Study Suggests

Revivify study suggests that it protects cellular integrity by encountering all the major free radicals and also attenuate 8-isoprostane a biomarker of oxidative stress.

8-Isoprostane control benefits cardiovascular disease, diabetes, liver disease, neurological disease, joint inflammation, immunity, colon health & skin.



induced Activation of Majondialdenyde (MDA) **Biomarker Secreted by HBMEC**

Study Suggests REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR

Revivify Health Benefits

HEALTH SHOWING ATTENUATION OF LIPID PEROXIDATION AND PROTEIN DEGRADATION

320

MDA (ng/mL) Lipid peroxidation is the major cause of cellular dysfunction associated with many diseases like neurological, cardiovascular, intestinal inflammation diseases.



No treatment (HBMEC in Normal MEC rowy block to the state of the state

REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH SHOWING ATTENUATION OF LIPID PEROXIDATION AND PROTEIN DEGRADATION--3 GRAPHS

*

*p<0.05 #p<0.05; Attenuation

#



Reduction of Lipid peroxidation is the major cause of cellular dysfunction associated with many diseases like neuroglial, cardiovascular, intestinal inflammation diseases. Activation of Protein Carbonyls (PC) Biomarker Secreted by HBMEC



REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH SHOWING ATTENUATION OF LIPID PEROXIDATION AND PROTEIN DEGRADATION.

Protein Carbonyls (NM)

Protein degradation causes major critical diseases such as ALS neurological diseases cardiovascular and immunity disorder.



No treatment (HBMEC in Nohilis MEConvit possibilities and the properties of the prop

REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH SHOWING ATTENUATION OF LIPID PEROXIDATION AND PROTEIN DEGRADATION



Protein degradation causes major critical diseases such as ALS neurological diseases cardiovascular and immunity disorder.

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*

#

Revivify a Science Based Product In-Vitro Study Graphs

Revivify studies suggest as a strong Anti-oxidant diverse capabilities of inflammatory reductions and most importantly enhance immunity responses

INFLAMMATION:

*

*

Chronic inflammation, which begins as a biological response such as; vascular endothelial dysfunction, is thought to be primary cause of atherosclerosis. Factors such as oxidative stress, oxidized LDL, thrombi, and viral bacterial infections induce acute and chronic inflammatory cell infiltrates by enhancing production of inflammatory cytokines by the infiltrating inflammatory cells.

Anti-inflammatory Biomarker (Cox-2)

Cytokines Inflammation Attenuation (IL-6, IFN-γ, TNF-α)

REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH BY ENCOUNTERING THE PRO-INFLAMMATORY KINASES SUCH AS COX-2, IL-6



Attenuation of the Lipopolysaccharide-Induced Activation of Cyclooxygenase 2 (COX-2) Secretion 9905rkat Cells #p<0.05; Attenuat

REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH BY ENCOUNTERING THE PRO-INFLAMMATORY KINASES SUCH AS COX-2, IL-6 Revivify and it's components attenuates the Lipopolysaccharide-Induced Activation of IFN-γ Secretion by Jurkat Cells



REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH BY ENCOUNTERING THE PRO-INFLAMMATORY angiogenic factors.

IL-6 reduction has been used in many recovery of many diseases including COVID-19 antiviral drug. Revivify and it's components attenuates the Lipopolysaccharide-Induced Activation of IL-6 Secretion by Jurkat Cells



REVIVIFY IS THE BEST BROAD RANGE IMMUNE CAPABILITY WITH PROMT AND EFFECTIVE RESPONSE-CD4 CD8

T-cell activation associated with immunity response for virus, bacteria, fungus, and many other pathological condition.

Effect of Original Components of Revivify on CD4+ differentiation by Jurkat Cells



REVIVIFY STUDY SUGGESTS THAT IT PROTECTS CELLULAR HEALTH BY ENCOUNTERING THE PRO-INFLAMMATORY angiogenic factors.

TNF-α activates endothelial cells express and release various inflammatory cytokines and reducing risk of cardiovascular disease and many other. Revivify and it's components attenutes the Lipopolysaccharide-Induced Activation of TNF-α Secretion by Jurkat Cells



Revivify a Science Based Product In-Vitro Study Graphs

Revivify studies suggest as a strong Anti-oxidant diverse capabilities of inflammatory reductions and most importantly enhance immunity responses

CD4 and CD8 T cells are both key players in the immune response to infections, and they are activated through different mechanisms.

Also known as helper T cells, these cells activate other immune cells and B cells, which in turn create antibodies. CD4 T cells activate by binding to MHC-II, and they help CD8 T cells in several ways.

T-Cell Activation (CD4, CD8)

*

REVIVIFY IS THE BEST BROAD RANGE IMMUNE CAPABILITY WITH PROMT AND CORRECT RESPONSE-CD4 CD8

CD4 & CD8 activation associated with immunity response for virus, bacteria, fungus, and many other pathological condition.

Effect of Gel and Its Components on CD4+ differentiation by Jurkat *P<0.05 Cells



Effect of Original components of Revivity of CD8+ differentiation

by Jurkat Cells



REVIVIFY IS THE BEST BROAD RANGE IMMUNE CAPABILITY WITH PROMT AND CORRECT RESPONSE-CD4 CD8

CD4 & CD8 activation associated with immunity response for virus, bacteria, fungus, and many other pathological condition.





CD4 & CD8 activation associated with immunity response for virus, bacteria, fungus, and many other pathological condition.

Attenuation of Lipopolysaccharide-Induced Activation of CXCL10 Secretion in Jurkat Cells



Revivify Case Study

COVID-19 Recovery Testimonial Post COVID-19 Fatigue Study

Revivify & COVID-19

REVIVIFY	Testimonials We are very happy that Revivify products helped some COMD-19 patients.							
RESTORES WELL-BEING	For Product Information: www.RevivifyForLife.com Covid-19 Related Information: TEXT: (631) 690-3790							
"It works like magic." "Qu Syeda Marhana	uickly and fully recovered and still taking the Gel." Lisa Kumar Dash	<i>"Post Covid problems resolved."</i> Mohammed Majid Mehedi Hassan						
" Improved the health condition." Desiy M Canales	"It helps me a lot, I have lots of problems and now I feel better. Even though I had respiratory conditions." Syed J Nessa	In the case of the sudden emergence of						
"Gradually recovered and am still taking Revivify Gel." Mahbubur & Family	" Worked like magic, prompt energy regained." Khaleda Bgum	infected patients gradually recovered significantly while taking SOD. More than 200 mid-infected patients took SOD when						
"Quickly and fully recovered." "Pro Del-Angel Andres & Family S Mubith	D mpt recovery." "I feel better using Revivify Jamena Sultana products. Shamima Nasreen	suffering from cough, fever and difficulty breathing, and their physical condition gradually got better.						
" Slowly improved the health condition. " Salmi Haqu	 "Sowly recovered." "Steady recovery." Maria Alfaro MD Zahidul Islam 	SOD has been scientifically proven to increase mental acuity, help patients						
" Quickly and fully recovered and was energetic after using Revivify Gel." Mohammed Haque & Fami	"I regained energy and feel better." "Quick recovery." Ruhul Amin Nasima Hassan	in bettering the treatment of other diseases. Today, the public can be assured the efficacy of SOD in the						
"After using Gel, it helped me with a very quick recovery." Syed S Rahman	" Very happy using this product." Nasreen Mahbuba	prevention and treatment of Covid-19 is confirmed.						
" Sowly and Fully recovered. " Abu Z Amanatullah Matthew Ragusa	"Revivify Gel helps significantly." Syed A Ahmed Gradually recovered." "Feel better." Md Moudud Khairon Nahar Lira	Affiliated Hospital of Ningxia Medical University, China Peoples Hospital of Ningxia Hui, China Yinchuan First Peoples Hospital, China						

Advance Pharmaceutical Inc. | 895 Waverly Avenue, Holtsville, NY 11742 | www.RevivifyForLife.com

Revivify & Post COVID-19 Fatigue Case Study

Post COVID19 Fatigue Case Study Using Revivify Gel By Dr. Zia U Ahmed, MD

SI. # Age		Sex	Hospital	Post covid davs	fatigue scale	Other Symtoms	fatigue scale after 7 days	change of fatigue scale	
1	56	м	yes	15	31	cough/pal	12	19	
2	62	F	no	33	30	co/pal/	12	18	
3	49	F	no	26	29	cough	11	18	
4	60	M	no	35	28	cough/pal	12	16	
5	42	F	no	40	29	cough/pal	13	16	
6	46	м	ves	32	28	cough/pal	12	16	
7	64	м	no	25	31	cough/pal	14	17	
8	58	M	no	31	29	coughpal	13	16	
9	46	M	no	33	30	cough/pal	12	18	
10	51	м	no	26	29	cough	14	15	
11	66	F	no	33	28	cough/pal	11	17	
12	58	M	no	31	28	cough/pal	12	16	
13	63	F	no	34	30	cough/pal	12	18	
14	61	M	no	25	29	cough/pal	14	15	
15	63	M	no	23	28	cough	11	17	
16	54	M	yes	17	29	cough	12	17	
17	43	F	no	19	28	cough	14	14	
18	41	M	no	32	30	cough/pal	12	18	
19	45	F	no	33	29	cough	11	18	
20	52	м	no	31	28	cough	13	15	
21	38	F	no	17	29	cough	11	18	
22	52	M	no	21	27	cough	13	14	
23	42	M	yes	30	28	cough	13	15	
24	52	F	yes	25	29	none	12	17	
25	39	F	no	29	27	cough	14	13	
26	45	M	no	15	28	cough /pal	12	16	
27	61	M	yes	26	28	cough/pal	15	13	
28	58	F	no	21	27	cough	12	15	
29	61	M	no	26	28	cough/pal	12	16	
30	64	M	No	6	28	cough/HA	13		
31	31	F	yes	7	27	cough/pal	11		
32	36	F	yes	10	29	cough	13		
33	54	M	no	12	28	cough	12		
34	61	м	yes	14	31	cough/pal	12		
35	56	м	No	11	28	cough/pal	13		

Name:

Date:

We would like to know more about any problems you have had with feeling tired, weak or lacking in energy in the last month. Please answer ALL the questions by ticking the answer which applies to you most closely. If you have been feeling tired for a long while, then compare yourself to how you felt when you were last well. Please tick only one box per line.

Chalder Fatigue Scale

	less than usual	no more than usual	more than usual	much more than usual
do you have problems with tiredness?				
do you need to rest more?				s 55
do you feel sleepy or drowsy?				
do you have problems starting things?		33		(d. 32)
do you lack energy?		- D		
do you have less strength in your muscles?				
do you feel weak?		l.		l l
do you have difficulties concentrating?				î. –
do you make slips of the tongue when speaking?				
do you find it more difficult to find the right word?				
	better than usual	no worse than usual	worse than usual	much worse than usual
how is your memory?				

This scale can be scored "bimodally" with columns representing 0, 0, 1 & 1 and a range from 0 to 11 with a total of 4 or more qualifying for "caseness". Alternatively, it can be scored in "Likert" style 0, 1, 2 & 3 with a range from 0 to 33. Mean "bimodal" score for CFS sufferers was 9.14 (SD 2.73) and for a community sample 3.27 (SD 3.21). Mean "Likert" score was 24.4 (SD 5.8) and 14.2 (SD 4.6).

total (0-33) =

Cella, M. and T. Chalder (2010). "Measuring fatigue in clinical and community settings." J Psychosom Res 69(1): 17-22. This study involved 361 CFS sufferers and 1615 individuals from the community. Average age was in the 30's. Fatigue levels were similar for males and females. A score of 29 discriminated between CFS sufferers and the community sample in 96% of cases and a score in the 30's discriminated in 100% of cases. The CFS sufferers also scored a mean of 26.99 on the Work & Social Adjustment Scale (W&SAS) with a SD of 8.6 (i.e. about 70% scoring between 18.4 and 35.6).

Revivify Study Presentation and Publication

Gastroenterology/Clinical Nutrition:

Revivify modulates healthy gut microbiomes and short chain fatty acids evaluated by an in vitro model of gut microbiome study.

Generic and molecular medicine

Revivify Gel attenuates human brain microvascular endothelial cells (HBMEC) from oxidative stress.

Rheumatology, Immunology and Allergy.

Revivify Gel stimulates the immune system via T-cell activation evaluated in vitro jurkat cells: potential role in the prevention treatment of Covid-19 infection.

Revivify Study Abstract in BMJ Journal

BM Journals

Journal of Investigative Medicine

3 October 2022

Gastroenterology/clinical nutrition

REVIVIFY® MODULATES HEALTHY GUT MICROBIOMES AND SHORT CHAIN FATTY ACIDS EVALUATED BY AN IN VITRO MODEL OF GUT MICROBIOME STUDY

¹AHM Ashraf, ³Ahmed Pantho, ³Syeda Afraze, ³Thomas Kuehl, ⁴Uaquat Hossain, ⁴Zauddin Ahmed, ³Nasir Uddin. ³The University of Texas at Austin, ⁴Orion Institute for Translational Medicine, ³Advance Pharmaceutical, ⁴Lewis Katz School of Medicine

10.11365m-2022-MW.39

40

Introduction/Background Gut health is very important for healthy living and well-being. The microbial community in the gut plays major role in immune system, hormonal process, cognitive and other neurological functions, digestibility and food metabolism, macro and micro nutrients absorption, vitamins productions and several others. It is essential to maintain healthy gut-eco system by dietary fiber intake, whereby these microbes digest the fiber, produce fermented by-product of Short Chain Fatty Acids [SCFAs]. These short chain fatty acids [SCFAs] have many healthy physiological functions including energy resource, gastro-intestinal epithelial protective, and have influence on immune system as well as enteric neuro-system, etc.

Objective(s) In this study we evaluate REVIVIFY[®] PRO-VITALITY ANTIOXIDANT GEL, a patent pending dietary supplement that can modulate healthy gut microbes resulting an increased production of Short Chain Fatty Acids [SCFAs], mainly acetate, propionate, butyrate, and small amount of lactate. REVIVIFY[®] exert beneficial effects acting through multiple pathways involved in oxidative/inflammatory stress signaling and leading to the expression of antioxidant neurotropic factors, and cytoprotective proteins. Also act as strong antiinfective agent for virus, bacteria, and other pathogens. The human intestine harbors nearly 100 trillion bacteria that are essential for health. Firmicutes spp. are usually butyrate producers. This Short Chain Fatty Acids of butyrate mainly supports the intestinal epithelium that protect the gut health from any leakage avoiding pathogens contamination through circulatory system. Butyrate acts as Anti-inflammatory protecting the gut from any gut inflammatory diseases.

Methods An In-vitro Gut Microbiome Culture Model is established. Gut microbes were cultured in 2 ml 96-well plates and treated with control, Melon extract Superoxide dismutase [SOD], Prebiotic Fiber [Fibersol-2], Fruit Juices [polyphenols], and REVIVIFY" Gel [Finished product] for 24 hours. Cultured microbiome samples were harvested 24 h for metaproteomic analysis. Afterwards a culture aliquot was collected for chemical analysis of SCFAs content and microbiome profiling. Results Study shows the change in gut microbial composition as well as the SCFAs when they were treated four different compound[s] [SOD, Fiber, Fruit Juice, Finished products]. Study shows the increase of SCFAs significantly when treated with finished product but the ratio of the SCFAs remain the same across all the treatment group including the control. In the control vs finished product the concentrations were as follows : acetate: 30 vs 80 µmol/ml, propionate: 9 vs 25 µmol/ ml, butyrate : 15 vs 35 µmole/ml, and lactate: 6 vs 12 umole/ml, an increase of more than 2 folds compared to control. Interestingly, the ratio of SCFAs of control and each treatment group relatively remain same and it appears to be as follows: acetate [53%], propionate [15%], butyrate [24%], and lactate [896]. The study shows the finished product promoted the Firmicutes spp., especially lactobacillus.

Conclusion Several species of Lactobacillus are naturally present in the human intestinal tract, and several species and strains have been evaluated for their probiotic activity. Certain probiotic strains have given significant and promising results in human clinical trials and experimental models of gastrointestinal disease. The enhancement of epithelial barrier function is one of the proposed mechanisms by which certain probiotic organisms may confer beneficial activities. REVIVIFY[®] PRO-VITALITITY ANTIOXIDANT GEL [REVIVIFY[®] GEL] modulate beneficial gat microbiome with increased Short Chain Fatty Acids [SCFAs].

Revivify considered a product benefits as

Gastroenterology & Clinical Nutrition

Revivify Study Abstract in BMJ Journal

Journal of Investigative Medicine

3 October 2022

Genetic and molecular medicine

0 REVIVIFY[®] GEL ATTENUATES HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS (HBMEC) FROM OXIDATIVE DAMAGE

¹Roksara Akter, ¹Syeda Ahtze, ²Zauddin Ahmed, ³AHM Ashtaf, ¹Liapust Hossain, ¹Ahmed Pantho, ¹Mohammad Uddin, ¹Ohion Institute for Translational Medicine, ²Lewis Katz School of Medicine, ³The University of Texas at Austin, ⁵Advance Pharmaceutical

10.1136/jim-2022-MW.49

Introduction/Background Background: Accumulating data suggests that oxidative stress and mitochondrial damage are involved in the pathogenesis of neurodegenerative disorders including Parkinson Disease [PD], Multiple Sclerosis [MS], Alzheimer' s Disease[AD], and many others. Brain uses about 20% of oxygen consumption, thus high producer of reactive oxygen species [ROS]. Also brain cell membrane composed of more unsaturated fatty acids (M UFA and PUFA), thus more prone to lipid auto-oxidation due to ROS. REVIVIFY⁶ Gel, addresses instant reduction of oxidative stress from multidimensional pathways and resulted an immediate effect induced by the disease symptoms.

Objective(s) The purpose of the study is to evaluate whether REVIVIFY[®] Gel attenuates human brain microvascular endothelial cells (HBMEC) from oxidative damage.

Methods Human brain microvascular endothelial cells (HBMEC) were seeded on 6 well plates in hypoxia condition. Prior to treatment, cells were incubated in serum free media for 24 hours. Cells will be treated with following agents: 1. Superoxide Dismutase only: 2. Prebiotic fiber only: 3. Fruit juice only: 4. superoxide Dismutase + Prebiotic fiber + Fruit juice (Combination); 5. Negative Control: Cell culture media for 48 hours. Enzyme-Linked Immunosorbent Assay: After the 48h incubation, the media were removed from cells were placed in tubes. To evaluate whether REVIVIFY¹⁰ Gel attenuated human brain microvascular endothelial cells (HBMEC) from oxidative damage. The following biomarkers were evaluated in a hypoxia-induced HBMEC culture media: 1. Malondialdehyde (MDA); 2. 4-Hydroxynonenal, or 4-hydroxy-2nonenal or 4-HNE or HNE; 3. Protein Carbonyls; and 4. 3nitrotyrosine by commercially available ELISA Kits as described previously.

Results The hypoxia increased the lipid oxidative damaged biomarkers: Malondialdehyde (MDA) and 4-Hydroxynonenal (HNE) in HBMEC. REVIVIFY[®] Gel significantly attenuated the hypoxia-induced upregulation of MDA and HNE. The protein oxidative damage biomarkers: Protein Carbonyls (PC); and 3-nitrotyrosine were elevated at the hypoxic condition in HBMEC. REVIVIFY[®] augmented the hypoxia-induced upregulation of Protein Carbonyls and 3-nitrotyrosine in HBMEC.

Conclusion REVIVIFY⁵⁵ Gel; Pertaining to PD, it can improve motor activity, muscle stiffness, and overall body response with less exhaustion. For AD, it may improve the memory response, coordination with surrounding atmosphere. As others, it can improve focus, concentration, and alertness, which may be beneficial to people with learning disability, people with autistic problem, people with mental exhaustion, and can benefit to the people who needs study focus, or job associated with high concentration. The pre-biotic soluble corn fiber encompasses the healthy gut-echo-system where the modulation of beneficiary microbes influences various positive neurological effect. The gut-brain bi-directional axis can relate instant neuro-responses. Thus, REVIVIFY⁵ PRO-VITALITY GEL is unique and exert prompt responses towards neuro disease induced symptoms in PD, MS, AD and other conditions.

Revivify considered a product benefits as

Genetic & Molecular Medicine

Revivify Study Abstract in BMJ Journal

BMJ Journals

Investigative Medicine

3 October 2022

Rheumatology/immunology/allergy

103 REVIVIFY® GEL STIMULATES THE IMMUNE SYSTEM VIA T-CELL ACTIVATION EVALUATED IN VITRO JURKAT CELLS: POTENTIAL ROLE IN THE PREVENTION/ TREATMENT OF COVID-19 INFECTION

¹Ahmed Pantho, ¹Syeda Afroze, ¹Zauddin Ahmed, ¹Uagust Hosain, ¹Thomas Kuehl, ¹Mohammad Uddin, ¹Orion institute for Translational Medicine, ²Emergent Biotechnologies LLC, ¹Temple University, Philadelphia, ⁴Advance Pharmaceutical Inc

10.1136/jim-2022-MW.102

Introduction/Background REVIVIFY^{III} pro-vitality antioxidant gel composed of primary antioxidant superoxide dismutase [SOD], prebiotic fibers, diverse polyphenols from various fruits juice. SOD diminishes the superoxide anion that is produced due to normal cellular activity. Polyphenols are phenolic compounds act as antioxidant, anti-inflammatory, anti-viral agent. it repairs damaged cells due to reactive oxygen molecules of ROS/RNS. Dietary prebiotic fibers modulate beneficiary gat eco microbiomes and provide many health benefits including immunity. Combination of these three components stimulate the immunity via T-cell activation and antioxidative and antiinflammatory pathway.

Objective(s) The objective of this study is to evaluate the effect of REVIVIFY[®] Gel on an in vitro T cell Model.

Methods The JURKAT CELL LINE is an immortalized T lymphocyte cell line that has most often been used as a prototypical T cell line to study multiple events in T cell biology, including T cell signaling. JURKAT cells were seeded on six well plates. Prior to treatment, cells will be incubated in serum free media for 24 hours. Cells will be treated with following agents: 1. Superoxide Dismutase only, 2.Prebiotic fiber only; 3. Fruit juice only; 4. superoxide Dismutase + Prebiotic

fiber + Fruit juice (Combination): 5. Positive Control: Phorbol 12-myristate 13-acetate (PMA) in combination with ionomycin; 6. Negative Control: Cell culture media for 48 hours. After the treatment, the media were removed from cells and placed in tubes. Levels of CD-8+: CD-4+: interferon-gamma (IFNy): Interleukin-6 [IL-6]; Interferon gamma-induced protein 10 [IP-10; also known as CXCL10]; Macrophage inflammatory protein 1a and 18: Monocyte chemoattractant protein 1 [MCP-1, also known as CCL2]; and eight isoprostane were measured by commercially available ELISA Kits by described previously. Activated JURKAT Cells were seen by upregulated CD69 (MCA2806A647) expression on the CD3 (MCA463A488) positive population. Cells were gated on lymphocytes in the presence of Human Seroblock (BUF070A). The treated JURKAT Cells were stimulated for five days with treatment and were stained with CytoTrack Red 628/643 by Cell Proliferation Assay Kit (1351205). Data were acquired on the ZE5 Cell Analyzer. Data were expressed as mean ± SE. Statistical significance were assessed by ANOVA and Duncan's post-hoc test for differences between treatment groups and treatment with negative control effects with p < 0.05 was taken as significant. Results was presented as the mean ±S.E. (n= 6, four replicates).

Results REVIVIFY[®] and its components activated T cells are seen by upregulated CD69 (MCA2806A647) expression and activated the differentiation of CD4+ and CD8+ compared to culture media. REVIVIFY[®] and its components attenuated the Lipopolysaccharide-Induced Activation of 8-lsoprostane (81P), COX-2, IFN-7, IL-6, TGF-β, TNF- α and CXCL10 Secretion by Jurkat Cells.

Conclusion REVIVIFY[®] Gel contains superoxide Dismutase, Prebiotic fiber and polyphenols and quercetin from fruit juice. This unique multi direction approaches to keep all body cells free from oxidative stress, maintain, pro-inflammatory and anti-inflammatory balances, and immune responses very prompt and effective. In addition to healthy living, well-being, anti-aging, longevity, anti-oxidative, anti-hypoxia, and antiinflammatory effect, REVIVIFY[®] Gel has potential role in the prevention/treatment of COVID-19 infection.

Revivify considered a product benefits as

Rheumatology, Immunology and Allergy.

Revivify - Diabetes Study

REVIVIFY REDUCES FASTING GLUCOSE: HUMAN CASE STUDY

Ahmed F. Pantho BS^{1,2}; Syeda H. Afroze, PhD^{1,2}; Liaguat Hossain, M.Pharm³; Syed A Hussain, MA³; Thomas J Kuehl, PhD^{1,2}; M. Nasir Uddin, PhD, FAHA^{1,2,3,5*} ¹Orion Institute for Translational Medicine and ²Emergent Biotechnologies LLC, Temple, Texas 76504; ³⁺⁺Advance Pharmaceutical Inc., 895 Waverly Ave, Holtsville, NY 11742; ⁴Texas A&M University School of Medicine, Texas

MEDICINE

** Advance Pharmaceutical Inc. has patent for the REVIVIFY GEL



BACKGROUND AND OBJECTIVE

REVIVIFY pro-vitality antioxidant gel composed of primary antioxidant superoxide dismutase [SOD], prebiotic fibers, diverse polyphenols from various fruits juice. SOD diminishes the superoxide anion that is produced due to normal cellular activity. Polyphenols are phenolic compounds act as antioxidant, anti-inflammatory, anti-viral agent, it repairs damaged cells due to reactive oxygen molecules of ROS/RNS. Dietary prebiotic fibers modulate beneficiary gut eco microbiomes and provide many health benefits including immunity. Combination of these three components stimulate the immunity via T-cell activation and antioxidative and antiinflammatory pathway. Glucose metabolism with diabetic patient is known as metabolic disorders. We believe glucose metabolism disorder, is due to oxidative stress of body cells particularly liver cell, pancreatic cell, kidney cell and brain cell and a negative impact from gut microbes. Insulin inadequate supply and or insulin resistance is to believe the reasons for higher blood glucose in diabetic patient.

The objective of this study to evaluate whether revivify reduces the fasting glucose level in type 2 diabetic patients.

STUDY DESIGN

We conducted a case and control study in the population of Williamson County, Texas.

In total, 30 patients joined who were equally and randomly assigned in keping Pattern the case study: 18 males and 12 females. The selection criteria: male and female aged 20-60 years with type to diabetes 2 diabetes.

The patients had average Fasting Blood Glucose (mmol/l): 7.8 ± 1.2 and HbA1c: 8.2 ± 2.1.

The study respondents used one pouch of REVIVIEY Pro-Vitality Fruit Blend with Superoxide Dismutase (SOD) and dietary fiber daily after breakfast and one revivify Pro-Energy stick contains dietary fiber with SOD and Resveratrol dissolved in water along with oral diabetic . Moreover, the patients reported the improvement of their General Health, Fatigue medications for three months.

Revivify gel and stick significantly reduced the fasting blood sugar and HbA1C in group of diabetic patients independent of Insulin and oral medications

	Vise 2	Work 1	Week 2	Web.3	WHERE &	Week.2	7081	(Reals 7	Week 6	Week.7	Test 2	Vitek 3	841	Week 11	Week 12	
i Glocose (temalit)	78:12	78+16	72+15	69110	0:11	68211	68:13	65:03	58119	58211	55±06	54:03	\$3±07	\$5+88	54:0.5	
	82+21														63 :27	
	Par	Page 1	Part .	Par	Pair	Poor	tw.	tw.	tur.	fæ	Tw	tu:	Gast	Geod	Gene	
	Takana .	1000	-	-	Tabasa .	Patrix .	Lass Fallena	Lan Palma	Internet	-	Lass Patrone	Lass Patrone	to failure	to False	the Fallence	

Ricconte Ricconte Ricconte Ricconte Ricconte Far

RESULTS

After three months of taking Revivify gel and stick, we found that a significant decrease of average Fasting Blood Glucose (mmol/l) and HbA1c.

The Fasting Blood Glucose (mmol/l) was decreased from 7.8 ± 1.2 (initial; beginning) of study) to 5.4 ± 0.4 (after three months of study) and HbA1c was decreased from 8.2 ± 2.1 (initial; beginning of study) to 6.8 ± 2.4 (after three months of study).

Status and Sleeping Pattern.

CONCLUSIONS/PERSPECTIVES:

♦ Our patented composition "Superoxide Dismutase soluble fiber composition" a unique formulation with added polyphenols, branded as **REVIVIFY**, resulting of very strong Antioxidants, diverse Anti-inflammatory properties, enhanced immunity and repair system, and anti-infective capability, reduce the oxidative stress caused by various ROS, and able to improve cellular glucose uptake and slowly maintain blood glucose to acceptable level.

Revivify composition attenuate 8-isoprostane, an antioxidant biomarker, and COX2 an inflammatory biomarker and modulate lactobacillus, all work to towards cellular integrity and bring efficiency in energy production efficiency in mitochondria, and glucose intake increase and blood glucose level decrease.



Presented in Scientific Seminar (CSCTR)

April 24-25,20223 Chicago, USA

Revivify – Skin Study (Acne Vulgaris)

A COMPARATIVE STUDY OF REVIVIFY TO RESTORE SKIN WELL-BEING AMONG POPULATION SUFFERING FROM ACNE VULGARIS

ACNE VU

Revivity S

Before Ora

ACNE V

Revivity

After Ora

ACNE VI

Control G

Before Or

ACNE VU

Control Gr

After Oral

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** Advance Pharmaceutical Inc. has patent for the REVIVIFY GEL



SCHOOL OF MEDICINE

BACKGROUND AND OBJECTIVE

Acne vulgaris is a common chronic inflammatory skin disease of pilosebaceous units. It affects both male and females in different times of their lives, but more commonly in adolescents. It primarily affects the face, upper part of the chest, back, arm and thigh. This happens from a complex pathogenesis of overproduction of sebum by the sebaceous gland, clogging of hair follicles leading to formation of plug, and accumulation of bacteria namely Propionibacterium. Thereafter, there occurs an inflammatory reaction leads to reactive species (ROS) production by the damaged follicular walls. In addition, Propionibacterium bacteria produces some enzymes like lipases, protease, hyaluronidases which play an important role in the inflammatory process.

Oxygen, which is an important and vital component for human, can produce reactive types like super-oxide anions, hydroxyl radicals. Superoxide dismutase (SOD), catalase (CAT) and glucose 6 phosphate dehydrogenase are some of the antioxidant enzymes. Currently, there is a new medication, namely Revivify which is a dietary supplement based on primary antioxidant superoxide dismutase, prebiotic fiber, diverse polyphenols from various fruits juice. It stimulates the immune system by activating T-cell, and acts as an antioxidant and anti-inflammatory product. It works on the cellular level to help to repair damage cells, caused by free radicals. It also increases oxygen, reduce inflammation, and promote skin well-being by promoting healthy digestion and gut flora.

The study objective is to evaluate the effect of Revivify on Bangladeshi population to restore skin well-being suffering from acne vulgaris.

STUDY DESIGN

- We conducted a case and control study in the different clinics under the Dhaka North City Corporation, Bangladesh. In total, 20 patients joined who were equally and randomly assigned in case and control groups i.e., 10 in each group.
- The selection criteria: male and female aged 20 years and above irrespective of marital status who were suffering from moderate to severe ranges of acne vulgaris with post inflammatory hyperpigmentation, scars and uneven skin tone.
- In the case group, study respondents used Revivify along with Oral Doxycycline and tropical therapy, whereas the control group used only Oral Doxycycline and tropical therapy.

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RESULTS

During the clinical assessment, we found that the number and size of blemishes, level of inflammation and post inflammatory effect including hyperpigmentation and scars reduced substantially and their skin tone improved noticeably among the study respondents who used Revivify along with Oral Doxycycline and tropical therapy comparing to the control group.

CONCLUSIONS/PERSPECTIVES:

Though, this small-scale study findings suggested that Revivify is useful to re-establish skin well-being among Bangladeshi population, yet it also highlighted the necessity of conducting a large-scale study to measure the significant impact of this medication on the Bangladeshi population having acne vulgaris with complications, so that the dermatologists can avoid over-use of antibiotics.



Presented in Scientific Seminar (CSCTR)

April 24-25,20223 Chicago, USA

Revivify Case Study of Blood Brain Barrier

REVIVIFY GEL ATTENUATES HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS (HBMEC) FROM HYPOXIA INDUCED DISRUPTION OF BLOOD BRAIN BARRIER (BBB) PERMEABILITY IN A IN VITRO MODEL

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BACKGROUND AND OBJECTIVE

MEDICINE

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Accumulating data suggests that oxidative stress and mitochondrial damage are involved in the pathogenesis of neurodegenerative disorders including Parkinson Disease [PD], Multiple Sclerosis[MS], Alzheimer' s Disease[AD], and many others. Brain uses about 20% of oxygen consumption, thus high producer of reactive oxygen species [ROS]. Also, brain cell membrane composed of more unsaturated fatty acids [M UFA and PUFA], thus more prone to lipid auto-oxidation due to ROS. REVIVIFY GEL, addresses instant reduction of oxidative stress from multi-dimensional pathways and resulted an immediate effect induced by the disease symptoms. The purpose of the study is to evaluate whether revivify gel attenuates human brain microvascular endothelial cells (HBMEC) from oxidative damage. The objective of the study is to evaluate disruption of HBMEC Monolayer Permeability.

STUDY DESIGN

- Human brain microvascular endothelial cells (HBMEC) were seeded on 6 well plates in hypoxia condition. Prior to treatment, cells were incubated in serum free media for 24 hours. Cells will be treated with following agents: 1. Superoxide Dismutase only; 2. Prebiotic fiber only; 3. Fruit juice only; 4. superoxide Dismutase + Prebiotic fiber + Fruit juice (Combination); 5. Negative Control: Cell culture media for 48 hours.
- The monolayer permeability study was performed by a method described previously in hypoxia condition and pretreatment with revivify. HBMEC were grown on poly-L-lysine glass chamber slides. The cells were treated with the treatment conditions mentioned above. After hypoxia condition, cells were washed in PBS and fixed in 4% paraformaldehyde.
- After repeated washing steps, Triton X-100 treatment, and blocking for nonspecific binding, cells were incubated with a primary antibody for ZO-1, Occludin, Claudin-1 or E-Cadherin (Invitrogen) at 4° C overnight. Cells were washed in PBS and exposed to an FITCconjugated secondary antibody for 1 h. After repeated washing steps, the cells were mounted in an antifade mounting medium that contained the nuclear stain DAPI (Invitrogen, Eugene, OR). Cells were observed under an Olympus FluoView FV 300 confocal laser-scanning microscope with appropriate filters for visualizing FITC and DAPI.

Revivity Finished Product Attenuated the Hypoxia-induced monolayer hypermeability in Human Brain Microvascular Endothelial Cells (HBMEC)



Igures. Immunofluorescence images of endothelial cell tigh miction proteins: 20-1. Occludin and E-Cadherin in HBMEC. CONTROL (No treatment) cells show intact tight junctions videnced by the strong and continuous gressence of 20-1, hchadin (red color for two) and E-Cadherin (green color) at he lumitions

NOPOXA: Disruption of the tight junction proteins HYPOXIA + FBEREDCL. No Attenuation of tight junction proteins HYPOXIA + SOD: Partial Attenuation of tight junction proteins HYPOXIA + POLYPHENOL: Attenuation of tight junction proteins HYPOXIA + FNISHED PRODUCT: Attenuation of tight junction proteins

Cell tight junction proteins: E-Cadherin

Cell tight junction proteins: ZO-1

Cell tight junction proteins:

Occludin

RESULTS

HBMEC monolayer permeability was significantly increased in hypoxic condition. Revivify significantly attenuated the hyperpermeability induced by hypoxia.

Revivify Finished Product Attenuated the Hypoxia-induced monolayer hypermeability in Human Brain Microvascular Endothelial Cells (HBMEC) In Vitro BBB.

Immunofluorescence images of endothelial cell tight junction proteins: ZO-1, Occludin and E-Cadherin in HBMEC.

CONTROL (No treatment) cells show intact tight junctions evidenced by the strong and continuous presence of ZO-1, Occludin and E-Cadherin at the junctions. HOPOXIA: Disruption of the tight junction proteins; HYPOXIA + FIBERSOL: No Attenuation of tight junction proteins; HYPOXIA + SOD: Partial Attenuation of tight junction proteins; HYPOXIA + POLYPHENOL: Attenuation of tight junction proteins; HYPOXIA + FINISHED PRODUCT: Attenuation of tight junction proteins.

CONCLUSIONS/PERSPECTIVES:

REVIVIFY GEL; Pertaining to PD, it can improve motor activity, muscle stiffness, and overall body response with less exhaustion.

- For AD, it may improve the memory response, coordination with surrounding atmosphere. As others, it can improve focus, concentration, and alertness, which may be beneficial to people with learning disability, people with autistic problem, people with mental exhaustion, and can benefit to the people who needs study focus, or job associated with high concentration.
- The pre-biotic soluble corn fiber encompasses the healthy gut-echo-system where the modulation of beneficiary microbes influences various positive neurological effect. The gutbrain bi-directional axis can relate instant neuroresponses.
- Thus, REVIVIFY PRO-VITALITY GEL is unique and exert prompt responses towards neuro disease induced symptoms in PD, MS, AD and other conditions.



Presented in Scientific Seminar (CSCTR)

April 24-25,20223 Chicago, USA **Blood Brain Barrier**

Cell tight junction proteins: ZO-1

Revivify restores BBB tight junction Z0-1 if disrupted.

See the Control and Finished Product image (HYPOXIA)

It's imaging !!!!!



CONTROL



ΗΥΡΟΧΙΑ



HYPOXIA + FIBERSOL



HYPOXIA + SOD



HYPOXIA + POLYPHENOL



HYPOXIA + FINISHED PRODUCT

Cell tight junction proteins: Occludin

Blood Brain Barrier

Revivify restores BBB tight junction Occludin if disrupted.

See the Control and Finished Product image (HYPOXIA)

It's imaging !!!!!



CONTROL



HYPOXIA



FIBERSOL



HYPOXIA + SOD



HYPOXIA + POLYPHENOL



HYPOXIA + FINISHED PRODUCT

Blood Brain Barrier

Cell tight junction proteins: E-Cadherin

Revivify restores BBB tight junction E-Cadherin if disrupted.



CONTROL



HYPOXIA



HYPOXIA + FIBERSOL

See the Control and Finished Product image (HYPOXIA)

It's imaging !!!!!



HYPOXIA + SOD



HYPOXIA + POLYPHENOL



HYPOXIA + FINISHED PRODUCT