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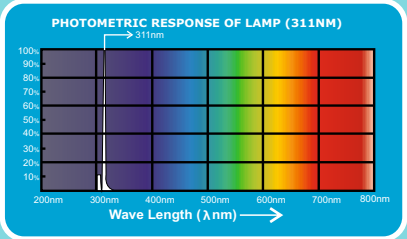
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HAND BOOK & INSTRUCTION MANUAL OF Narrow Band UVB Phototherapy (Hand Held Home Care Device)



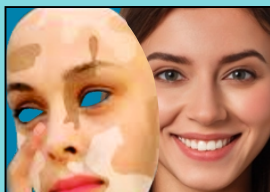
A Unique & Innovative Device
 Helps To Treat
 Vitiligo/Leucoderma/Safed Daag/
 White patches/Fulveri,
 Psoriasis, Eczema, Atopic dermatitis,
 Mycosis fungoides,
 Pruritus, Photodermatoses,
 Hyperbilirubin and
 many skin related ailments
 and complications.

Includes original Philips
 NBUVB/311nm lamp/
 CE Certified
 (Made in Poland)



VITILIGO

BEFORE AFTER



PSORIASIS

BEFORE AFTER



Vision Tech Electronics was established during the year 2000 in Ahmedabad (Gujarat, India), and attained Registered Trade Mark (Under Trade Mark Registry, Class 9 & Class 11, Govt. Of India) entitled: **VISION TECH**®

Vision Tech Electronics is an ISO 9001:2015, CE Certified, ROHS Certified company, our AC to DC Control Gears are approved by BIS (BUREUE OF INDIAN STANDARD) and is registered as Micro Small Scale Industry.

We have wide experience, more than 20 years in highly specialized Lighting and UV related applications and apparatus..

We are very delighted to present Handheld Narrow Band UVB Phototherapy device. We are using original Philips NBUVB/311nm, CE Certify,(Made in Poland) Lamp.

NBUVB device has already helped thousands of patients across the world in treatment of Vitiligo/Leucoderma/Safed daag/White patches/Fulveri, Psoriasis, Eczema, Atopic dermatitis, Mycosis Fungoides, Pruritus, Photodermatoses, Hyperbilirubin and many skin related ailments and complications. Although designed for consumer at-home therapy, also is used by many professional dermatologists, clinics and hospitals.

The precise and unique spectral energy distribution with an emission peak at 311nm, almost nullifies the potential side effects like redness and itching. Also, a shorter period of exposure time is needed.

Treatment can be carried out alternate day for each area of skin to be treated. To use it, simply place it against the affected area. Positive results have been seen in as little as one week, however results do vary between individuals and severity of condition. We recommend to consult your dermatologist for full treatment advice before use.

Vision Tech Electronics has designed handheld Phototherapy Device, which includes Properly designed mirolite curvature and cavity ensures that Narrowband UVB, 311nm can be safely focussed and effectively over the skin to be treated without any deviation. Eventually maximum spectral energy distribution can be achieved on desirable area.

Control gear of Device ensures very long life span of the Lamp with minimal depreciation of exposed energy and has been tested most stringently to run the Lamp very safely.

Hence This careful designed Narrowband phototherapy

PRODUCT FEATURES

Aesthetic/General Features :

- Body of the device is fabricated with high quality medical grade virgin ABS material
- Body colour: Coral White
- High quality and much more affordable
- Easy and quick to clean
- Rugged and very elegant packaging, helps device to keep safe and intact
- Weight: 450gm
- Dimensions (LxBxH): 450mmx60mmx48mm
- Short treatment time
- Ideal for home therapy

Optical Parameters :

- Uses original Philips UVB/311nm narrowband lamps
- High quality curved mirolite surface beneath lamp focuses the UV light energy at optimal level
- Treatment area: 5 cm x 15 cm (2" x 6")
- Green indicator signifies healthy lamp
- Blinking Red indicator along with buzzer signifies unhealthy lamp.

Electrical Parameters :

- Premium quality of industrial Electronic Ballast has been used, which ensures enhanced life span of lamp
- Mains Supply Voltage: 230Vac, 50Hz
- SPD>6KV, PF>0.90, RFI/EMI Suppression
- Length of 3-Pin mains cord: 8Ft
- Lamp: PL-S, 9W, Voltage:60V, Current:0.170A,
- Cap Base: 2-Pin, G23, Colour designation: NBUVB
- ON/OFF Rocker Switch is provided
- One year (except Lamp) against any mfg. defect.

Includes:

- High quality Eye Protecting Goggle in separate box at the cost of absolutely free and also Instruction manual/hand book to give systematic and proper guidelines to treat the ailments along with NBUVB Phototherapy device,also highlights the understanding of Vitiligo/Psoriasis.

HOW TO USE DEVICE:

- Plug in three pin mains cord into three pin socket, switch on the switch
- Switch on Rocker switch, which is provided on device
- Simply keep device against affected area of skin to be treated
- Carry out the therapy procedure on alternate day
- Wear the goggle to avoid direct exposure Of NBUVB to the, if not intended for treatment
- Close the eyes firmly, if intended treatment area is exterior of eye lids or nearby area
- This is advisable to use dark room for effective exposure of of NBUVB device

***FOR Proper and effective treatment, refer the hand book thoroughly**

GENERAL PROTOCOLS FOR TREATMENT OF VITILIGO /PSORIASIS AND OTHER SIMILAR CONDITIONS WHILE USING NARROW BAND UVB PHOTOTHERAPY:

1. FREQUENCY OF DEVICE USAGE :

Three times per Week or alternate day.

2. DOSE PROTOCOLS WITH RESPECT TO VARIOUS SKIN TYPES FOR TREATMENT OF VITILIGO AND PSORIASIS:

SKIN TYPES	INITIAL NBUVB Dose Minutes:Sec	Incremental dose of NBUVB after each session Minutes:Sec	Maximum NBUVB Dose to be allowed (on Face) Minutes:Sec	Maximum NBUVB Dose to be allowed (Other body parts) Minutes:Sec
TYPE-I Very Fair / Pale	00 : 40	10 - Sec (00:40+00:50+01:00+ 01:10+01:20+01:30+up to Erythema)	05 : 00	10 : 00
TYPE-II Fair	01 : 10	15 - Sec (01:10+01:25+01:40+ 01:55+02:10+02:25+up to Erythema)	05 : 00	10 : 00
TYPE-III Light Brown / Olive	01 : 20	20 - Sec (01:20+01:40+02:00+ 02:20+02:40+03:00+up to Erythema)	07 : 30	15 : 00
TYPE-IV Olive to Brown	01 : 50	25 - Sec (01:50+02:15+02:40+ 03:05+03:30+03:55+up to Erythema)	07 : 30	15 : 00
TYPE-V Dark Brown	02 : 00	30 - Sec (02:00+02:30+03:00+ 03:30+04:00+04:30+up to Erythema)	12 : 30	25 : 00
TYPE-VI Deeply pigmented Dark Brown	02 : 20	35 - Sec (02:00+02:55+03:30+ 04:15+04:40+05:15+up to Erythema)	12 : 30	25 : 00

*Dose, at which Light pink skin colour is perceived, is known as **Erythema**. This erythemic condition defines the compatible dose for patient and that fixed compatible dose must be continued.

3. IF SUBSEQUENT DOSES ARE MISSED:

MISSED DURATION	CHANGES MADE IN PHOTOTHERAPY TIME
4 - 7 Days	Keep dose same
1 - 2 Weeks	Restart at last exposed dose - 25%
2 - 3 Weeks	Restart at last exposed dose - 50%
More Than 3 Weeks	Restart again right from scratch

4. ADAPTATION INCREMENTAL OF DOSE:

After prolonged compatible dose, due to adaptation principle, erythemic condition may be disappeared. In that case we should again increase the compatible dose by 20% until new erythemic condition is achieved.

5. PROBABLE COURSE OF NARROW BAND UVB:

- 18-36 sessions needed prior to assess treatment response
- ≥48 sessions needed before discontinuing phototherapy due to lack of response
- ≥72 sessions needed before stopping phototherapy especially in slow responders

6. DOSE ADJUSTMENT AFTER REPLACEMENT OF NEW LAMP:

Reduce dose by 20% and again verify the perceptible erythemic condition

7. COMPLETE EVALUATION OF THE TREATMENT:

Ideally 3 months can be considered for complete evaluation of the treatment along with your skin consultant

8. POST NB-UVB EXPOSURE:

Avoid additional sun exposure, or it is recommended to apply broad-spectrum sun screen regardless of skin type; minimum skin protection factor of (SPF) ≥30

9. RECOMMENDED EMOLIENTS/TOPICAL OILS BEFORE NB-UVB SESSION IN PSORIATIC SKIN:

Following topical oils can be applied over the skin to minimize dryness and to enhance penetration of exposed NBUV energy such as elbows and knees, eventually enhances the efficacy of treatment and accelerate the clearance of Psoriasis. We can use either of the following options.

- Mineral oil: is a hydrocarbon compound also known as paraffin oil, white mineral oil and Nujol.

-Baby oil: This is one of the mineral oils, only difference is fragrance is added

-Glycerin, Olive oil, Vaseline oil, Oleic acid 5% are also highly recommended

*Note: Coconut oil, Sun flower oil are not recommended

10. SPECIAL SITES PRECAUTION DURING NBUVB SESSION:

-DURING FACE EXPOSURE: Cover the face during phototherapy if not involved for treatment.

-MALE GENITALIA: Use shields or cover the same by any means.

-FEMALE AREOLA: Use Sun screen, shields or cover the same by any means.

-EYELIDS: If Eye lids are intended for treatment, during exposure, don't open the eyes directly, make the eyes closed firmly. If Eye lids are not intended for treatment, UV protective goggles or blind fold/eye masks can be used to avoid any kind of direct exposure.

11. POST THERAPY SKIN CARE:

-Don't take immediate bath after NBUVB Therapy

-Bath with Mild soap/Baby soap or cleanser

-Shorten shower times

-Limit to one shower per day

-Use warm (not hot) water only

-Moisturize skin twice daily (not immediate before NBUVB Therapy, may reduce efficacy)

-Best time to moisturize skin after bathing

12. POST MAINTENANCE OF TREATMENT REGIM:

After recovery, it is not advisable to abandoned therapy on of sudden, rather should be minimize the days slowly.

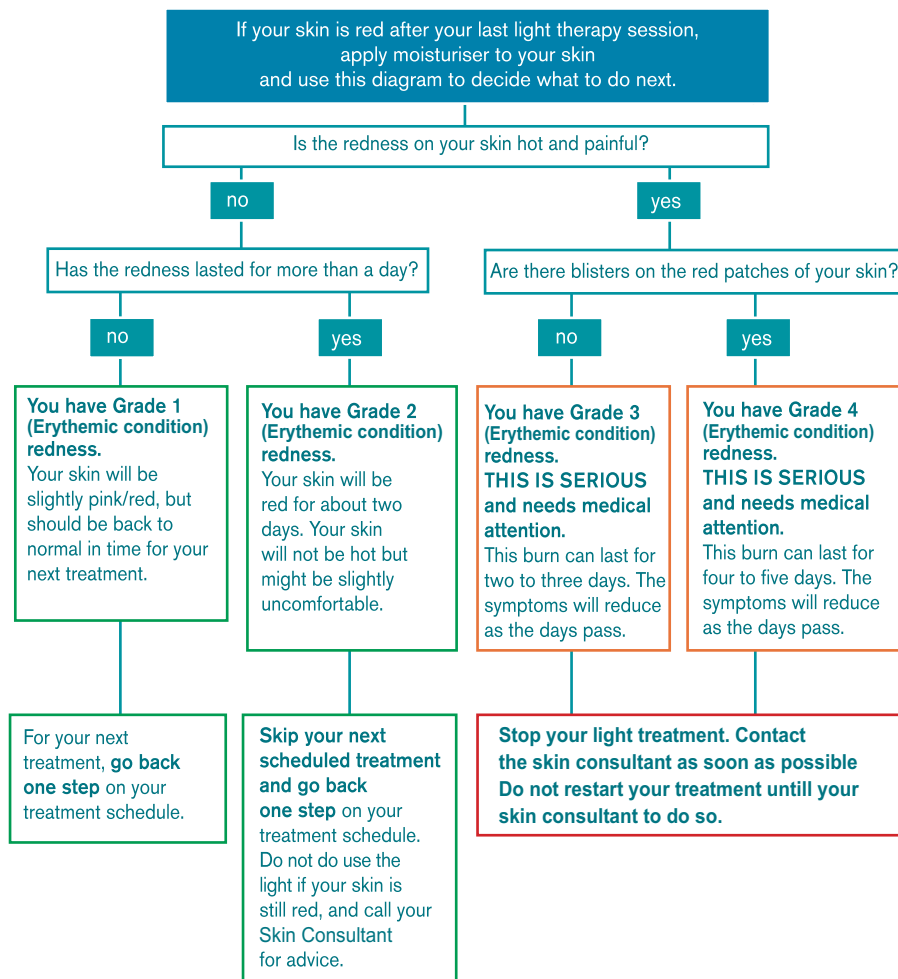
-Dose, twice a week for initial 4-weeks

-Dose a week for next 4-weeks

That mean total number of doses will be 12 for post maintenance of treatment regime.

13. WHAT SHOULD I DO IF MY SKIN BECOMES RED ?

Some reddening of the skin after photo therapy is normal. It will take between four and 24 hours after your photo therapy session for the skin to become red. However, if the skin looks very red, or is painful then you will need to change your treatment schedule a little.



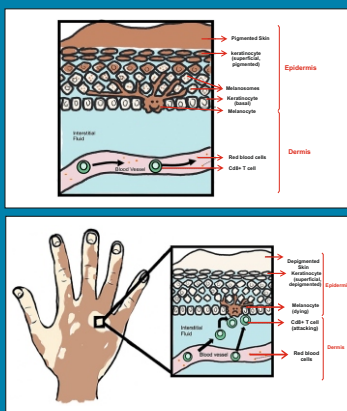
14. COMBINATION THERAPY: Immunomodulators (Immune system suppressor) + NBUVB Therapy

This is practically proven that using the combination therapy, excellent results have been achieved in treatment of Vitiligo and Psoriasis.

For the better understanding, we need to know probable cause of Vitiligo and Psoriasis ailments. We will not go in to anatomical detailed explanation rather go through simplified explanation and could be given as follow:

VITILIGO/LEUCODERMA:

Due to autoimmune disorder, T-cells become overactive and kill the melanocytes. Melanocytes are the type of the skin cells which are responsible to define the skin colour of epidermis (upper layer of skin). Due to absence of melanocytes, upper layer looks white, this Condition is known as Vitiligo



Treatment of Vitiligo with combination therapy:

Immunomodulator, topical creams/ointment:

Spreading of disease can be prevented by immunomodulator. By using certain topical ointments or creams, T-cell overactive nature can be controlled or minimize and eventually melanocytes can be retained.

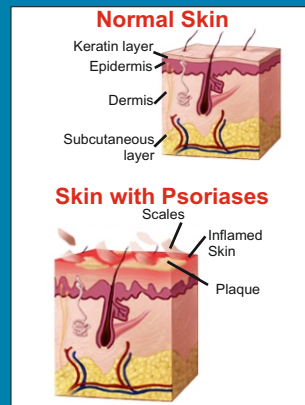
Topical ointment, i.e: Tacrolimus (0.03% for face application) and Tacrolimus (0.1% for other body parts except genital parts) can be applied daily on night (because sun exposure should be avoided). At least 2-hrs gap between NBUVB therapy and Topical application is recommended. This can be applied up to 16-weeks without any significant or serious side effect and also this does not include any type of steroid. Therefore Tacrolimus ointment is known as one of the safest topical ointment.

NBUVB Therapy: When NBUVB Phototherapy regime is followed as per earlier discussed exposure protocols, Vitiligo can be treated with good efficacy. When desired skin is exposed with NBUVB, Melanocytes are stimulated, further melanoblasts are proliferated and migrated, which results in repigmentation of skin.

Hence combination therapy, Immunomodulators (Immune system suppressor) + NBUVB Therapy brings synergetic action in the treatment of Vitiligo/Leucoderma.

PSORIASIS:

Due to malfunction of autoimmune system, T-Cells react differently in such a manner that the skin cell are produced rapidly. Precisely speaking, in healthy skin, normal cycle of skin cell production is 28-30days, but in Psoriatic condition, skin cell production is 6-8days. Thus don't allow enough time for the older cells to be dried up and new cells get piled up, eventually upper layer is appeared to be swollen, scaly with silvery flakes and red blister. Some times



Treatment of Psoriasis with combination therapy:

Immunomodulator, topical

creams/ointment: Spreading of disease can be prevented by immunomodulator. By using certain topical ointments or creams, T-cell overactive nature can be controlled or minimize and eventually abnormal cell producing cycle can be controlled.

Topical ointment, i.e: Tacrolimus (0.03% for face application) and Tacrolimus (0.1% for other body parts except genital parts) can be applied daily on night (because sun exposure should be avoided). At least 2-hrs gap between NBUVB therapy and Topical application is recommended. This can be applied up to 16-weeks without any significant or serious side effect and also this does not include any type of steroid. Therefore Tacrolimus ointment

NBUVB Therapy: When NBUVB Phototherapy regime is followed as per earlier discussed exposure protocols, Psoriasis can be treated with good efficacy. When desired skin is exposed with NBUVB, T-Cell are deactivated and destroyed, which results in prevention and control of premature production of unnatural cycle of skin cells.

Hence combination therapy, Immunomodulators (Immune system suppressor) + NBUVB Therapy brings synergetic action in the treatment of Psoriasis and ailment could be managed very well.

*Note: Though there are so many types of available Topical creams/ointments in the market, can be used as combination therapy, but highly recommended to consult your skin consultant or relevant Medical professional.

Disclaimer:

This hand book is not designed to enable any one to undertake any kind of phototherapy treatment independently, rather highly recommended to get appropriate supervision by suitably qualified medical professional. Guidelines and & treatment plan is suggested plan only. Medical professionals are free to adapt, amend and reuse the hand book contents at their own way.

Neither the manufacturer nor the trial based guidelines described in handbook will accept any responsibility or liability for any harm or side effect that may arise from the use of this device.

*** SPECIFICATIONS CAN BE CHANGED WITHOUT PRIOR NOTIFICATION DUE TO CONTINUOUS R&D.**

Narrow Band UVB, 311nm Phototherapy (Hand Held Home Care) Device:

DEVICE



DEVICE CONTAINER



Original PHILLIPS, NBUBV, 311nm



Before After



Psoriasis Vitiligo

UV Protected Goggle



Hand Book / Manual





PHOTOMETRIC RESPONSE OF NBUBV DEVICE:

100%
80%
60%
40%
20%

200nm 300nm 400nm 500nm 600nm 700nm 800nm

Wave Length (λnm) →

→ 311nm



Vitiligo



Psoriasis



Eczema

DEALERS DETAILS :

Warranty: one year against any manufacturing defect
(Except Lamp)

MFG. BY:
An ISO9001:2015 Certified Company


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 C/9, Bansidhar Estate,
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