

Dengue Project.



# **INSIGHT**

• Dengue & Welblu Solution

**Challenges & Opportunity** 

• Anti- infective Healthcare

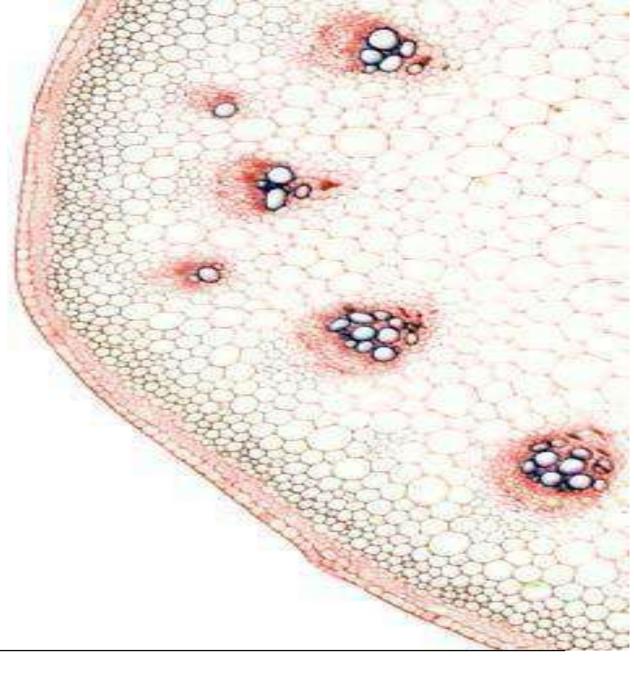
**Emerging Technology: our job** 

• Strategy Plan & Execution

Business model and roadmap

• An expert Management

**Team and Mission** 



# 400 million Dengue infected & 100 million symptomatic cases annually

141 countries affected by the most rapidly resulting 36,000 fatalities

30-fold increase in global incidence over the past 50 years – No treatment available till date

CAGR of 25.5% - Forecast Period of 2021 to 2028





- Wrist wearable medical device emits low level light therapy
- Sub-lingual drug consisting of repurposed drug

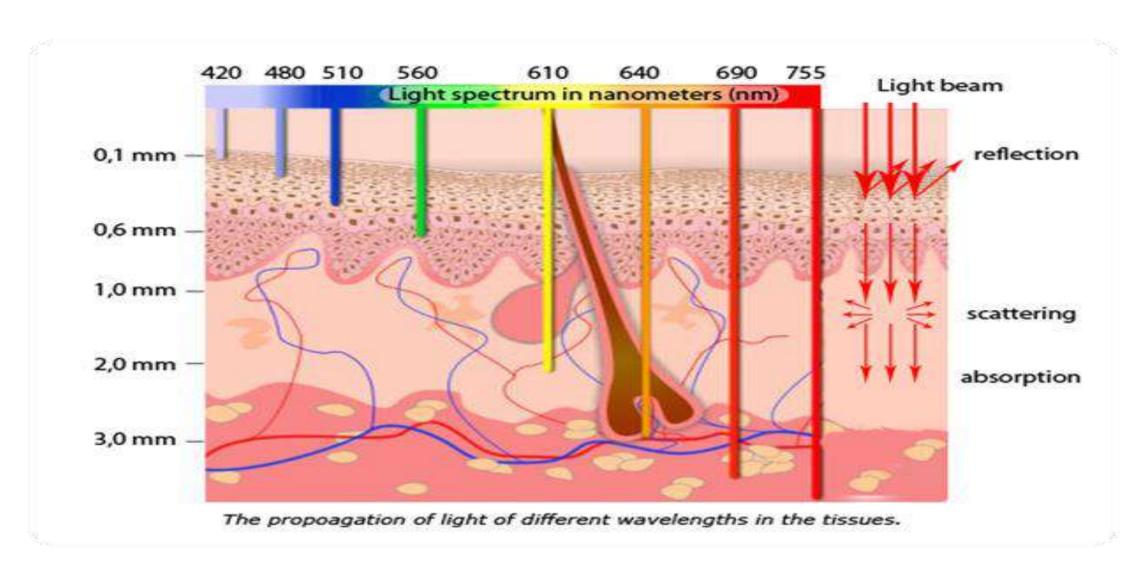
- Drug 1ml sublingual administered once a day + low level light therapy wristband placed on the wrist
- Activated for 10 minutes with Low Level Light Therapy before being placed sublingually and After Dosing for 50 min
- **Repeat cycle**: 60min Light therapy x 1ml drug x 7 10 days.

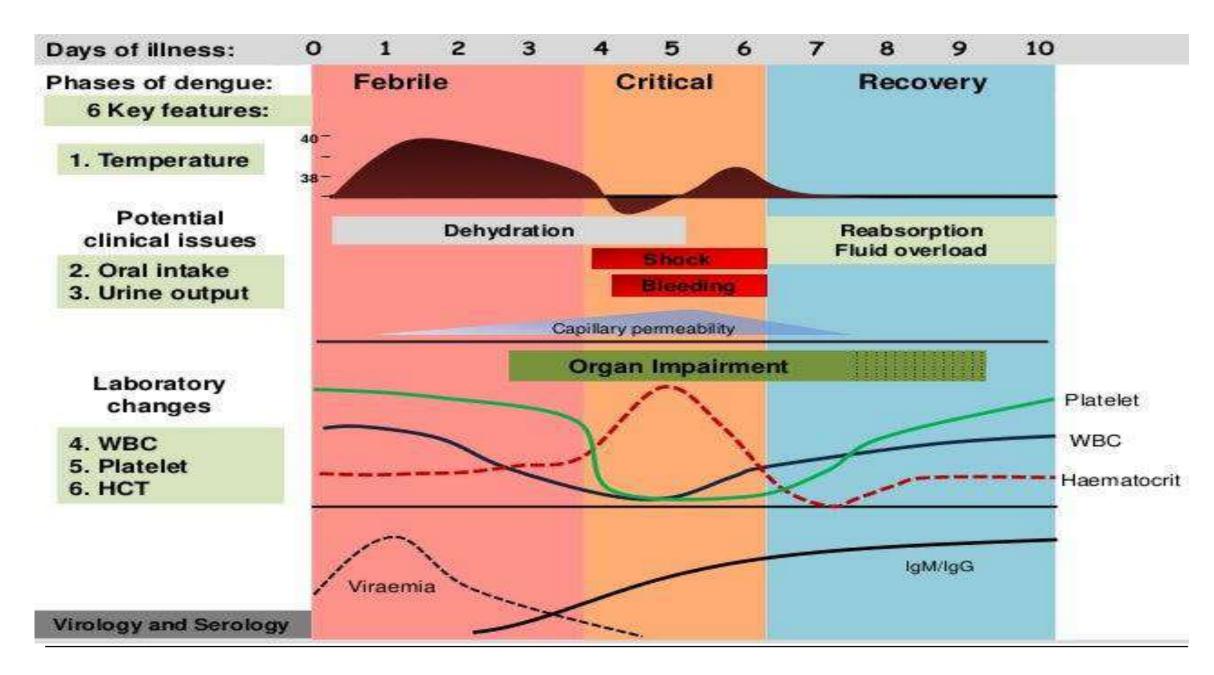
### Product -USP



- All Active and Excipient levels as per **GRAS** & **FDA IIG limits**
- No risk of developing **resistance** against variant systemic
- Sublingual delivery for faster absorption and quick action
- Ease of Administration **Self/ Twice -a-day** consumption
- Rechargeable wrist band
- Safety -128 Years of Drug Existence

# Photo Dynamic Therapy



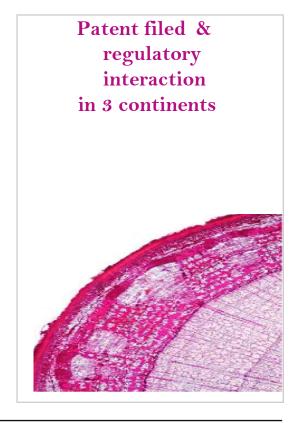


# WELBLU dual action Disintegrate double envelope virus and activate Immune cascade pathway

An innovative and multitarget approach, enabled by a specific expertise of repurposed drug & devices synergy

A high level of evidence, with clinical studies and health claims

A pipeline of innovative anti-infective healthcare solution, developed in our R&D centers



### **Clinical Study Control**

- Monitoring: Daily clinical improvement were evaluated for seven days of patient temperature, arterial oxygen saturation and other vital signs measurement.
- Laboratory & Cabinets test: First day of admission and on seventh day, blood samples were drawn to assess chemistry as per table

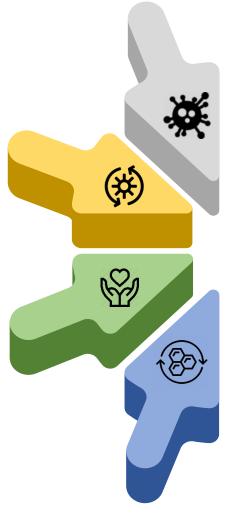
Immune Marker	Inflammation Marker	Haematological Studies	Radiological		
G6PD	C- Reactive Protein	Complete Hematic Biometrics & Blood Chemistry	Chest – X ray		
IgG	Globular Sedimentation Rate	Including Liver & Kidney Panel	NA		
IgM	Pro – calcitonin	Pulse Oximetry	NA		
NA	Ferritin Levels & IL -6	D - dimer	NA		

- Daily **PCR Swabs** measuring cycle threshold (CT) were collected (period: 1 7 days)
- ➤ Outcome: This study has shown that COVID positive patients who have undergone treatment using Welblu became COVID negative, after receiving just one to three daily doses. Patients that were positive for Covid-19 but not treated with Welblu showed an average of 3 weeks before achieving negative test results using regular treatment line.

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# **Technology Action Line**



#### **Immunity & Wellbeing**



Immunomodulatory, Anti-inflammatory, Panfungicidal & Pan-bactericidal

#### **Control**



Alkalizing- Virucidal, Anti-coagulant, Prevent septic shock, Cytokine Storm

#### **Rejuvenation Support**



Oxygen superoxide scavengers, Increased oxygen saturation

### Lifestyle Wellness Support



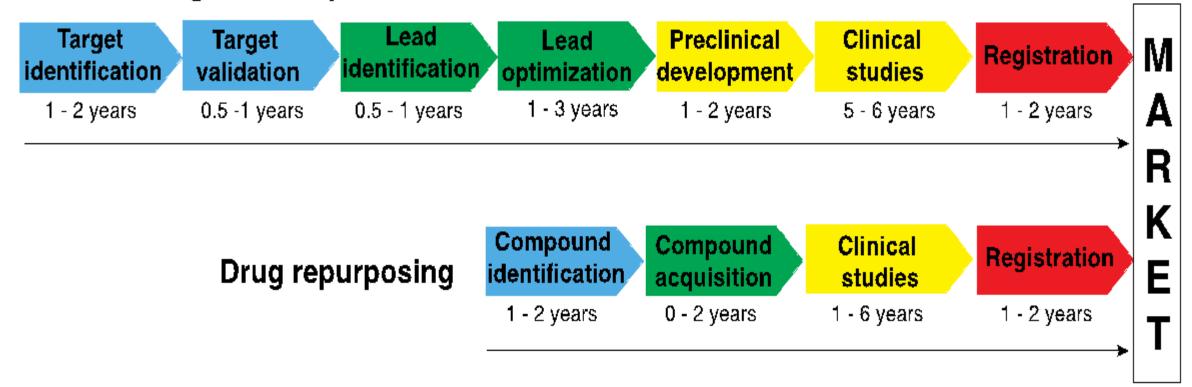
Anti depressant (serotonin analogue)

# Road Map

Key Tasks	2019 -22		2023			2024/25					
ney rusits	Q1&2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4 & Q1
Technology Development & POC											
Set up - Scale Up and Clinical Manufacturing											
Clinical Studies											
Small scale, GCP, GMP compliant Manufacturing											
Marketing Authorization											
Planning and Launch (partner)											
Ongoing Commercial Grade Production											Continue

### REGULATORY PATHWAY

### De novo drug discovery



# **Business Strategy**

# Long term strategic partnerships

A double model, to generate growth:



#### 1. License agreements:

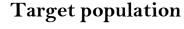
Lump sum payments: upfront, milestones

+ Royalties on sales



#### 2. Supply agreements

#### Commercialization model





Subjects at risk of developing metabolic diseases



**Advisors** 

Healthcare professionals



Govt & NGO

Pharmacies / drugstores strategy by countries Impacted

# GLOBAL ANTIVIRAL DRUG MARKETS

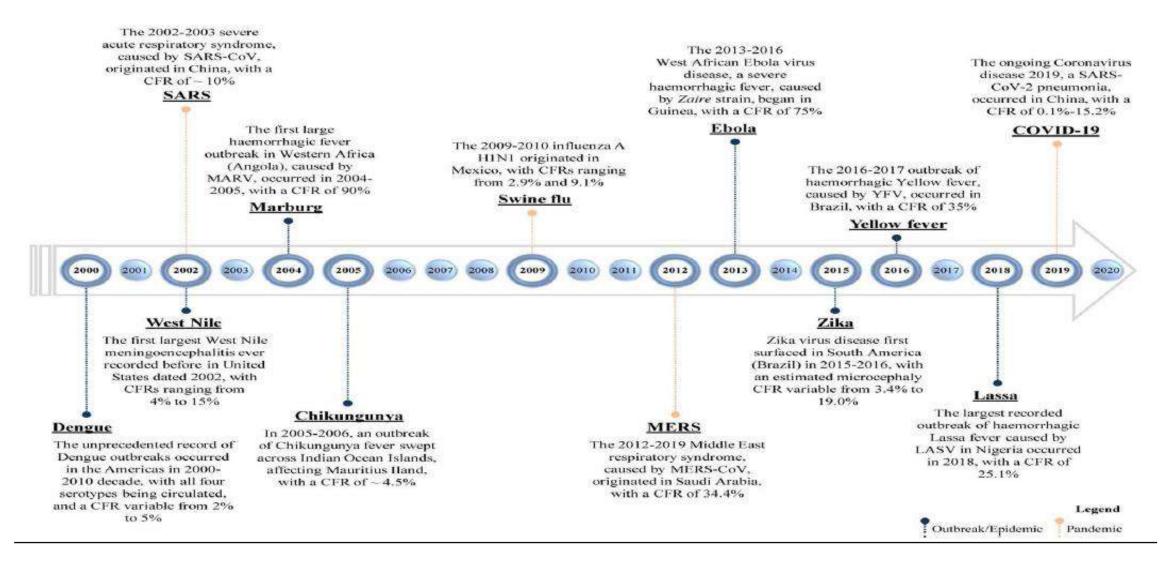


Combination therapy has proven to be beneficial to treat certain viral infections. The CDC provides guidelines to improve access to antiviral drugs for the public through physicians.

The demand for antiviral drugs is due to the increasing mortality rate.

The market is projected to reach \$91.58 billion by 2021.

### VIRAL OUTBREAK TRENDS



### OUR TECHNICAL EXPERTS



Dr. Rajendra Bhandari Chairman - Focelite



Dr. Praveen S Sancheti Clinical advisor



Vijay Kumar Ranka Managing Director



Dr.Jagdeep Kakadia Medical Advisor

## **Our Supervisory Board**

- Anant Pandya Regulatory & Pharmaceutical expert
- Dr. Jitendra Kumar- Managing Director of Bangalore Bio-innovation Centre
- Dr. Vinayaka Srinivas Scientific expert
- Dr. A.Rajini Regulatory Advisory
- Dr Deepak Golwalkar Pulmonologist & Methylene Blue Clinical Advisor
- Soudagar GH Quality & Manufacturing
- Komal Minhas Project Management

## **Our Advisory Board**

- Mr.Rishav Saraf Financial Advisor
- Mr.Manish S.Shah Program Partner
- Mr.Prashanth Priya Public Relation Advisor
- Mr.Anand Bhogu Business Advisor
- Mr. Abhijit Legal Advisor
- Mr.Sripal Jain Board Advisor
- Mrs.Renu kaul Scientific Writer
- Dr.Meena Shah Emergency Filing regulatory Advisor
- Yogesh Medical Devices Regulatory Advisor
- Paras Jain Clinical Program Monitoring & Audit
- Parithosh K. Tungaturthi Patent Advisor



### **Our Mission**

New cases of microbial infection and viral emergency, including antimicrobial resistance, Dengue are on the rise which pose the greatest public health risk due to their epidemic potential along with a need for countermeasures.

At Focelite, Our Research & Development revolves around antiinfective healthcare products. Repurposing of Drugs and use in synergy with a non- invasive low wavelength light emitting device has been proven beneficial due to its multi-target activity and dual action.

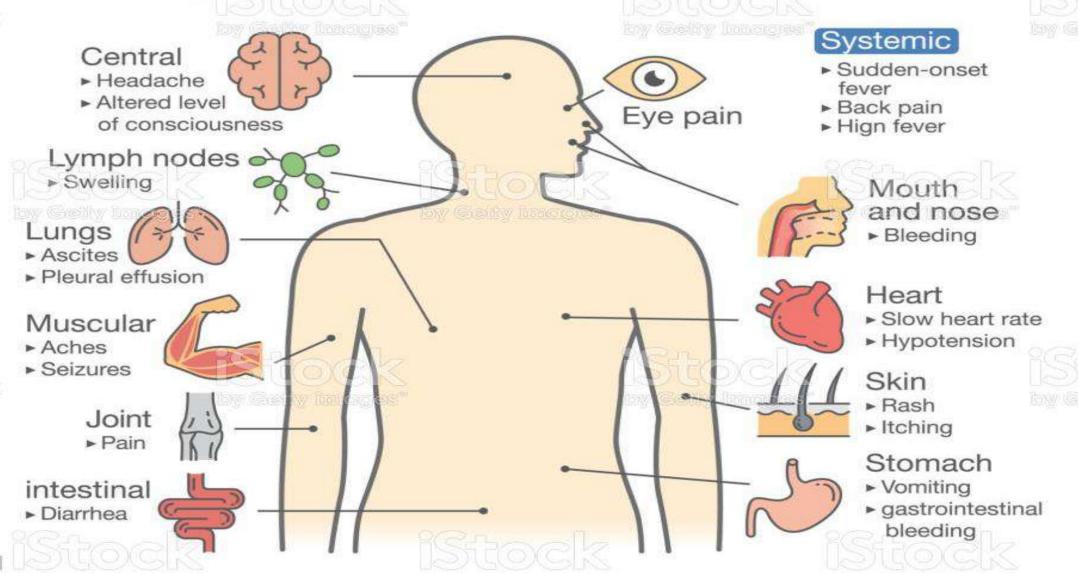
Our goal - Reduce the impact these diseases may have on millions of at-risk individuals, worldwide.

Focelite is a player committed to treatment tending towards the upliftment of public health

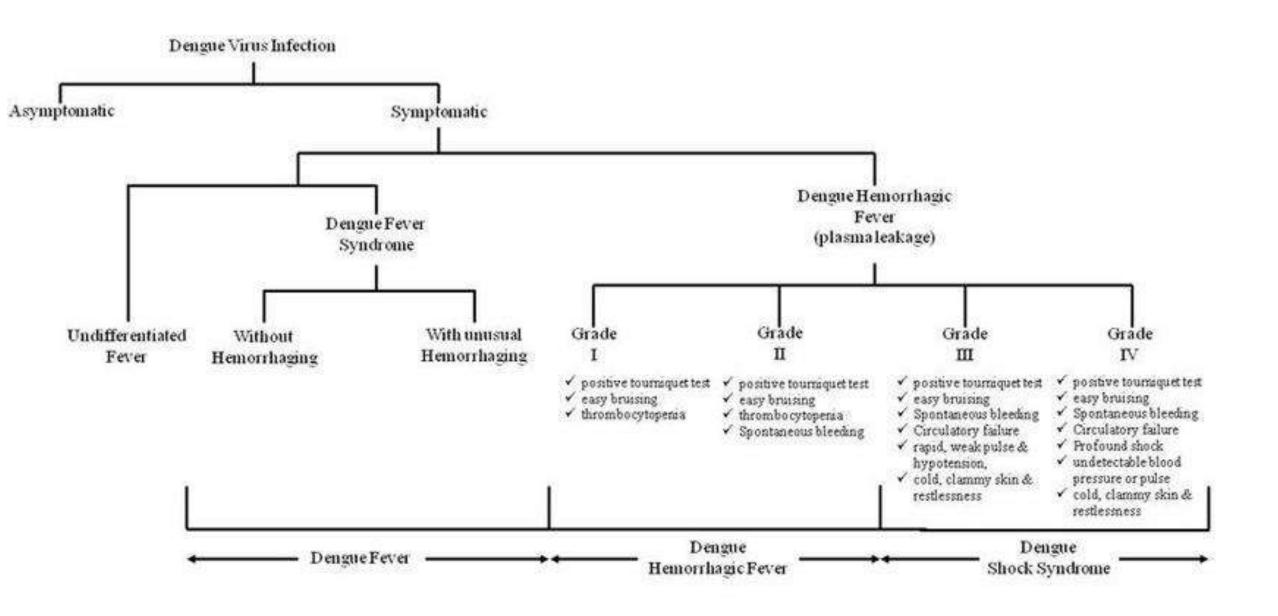


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### Symptoms of Dengue Fever



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# Evolution of Antiviral Drug Discovery

Begginings of antiviral chemotherapy	Molecular biology advent	HIV first cases and therapy development	Coprehensive design of antiviral drugs DDAs
1960 1965 1970	975 1980 198	5 1990 1995 2000 2005	2010 2015
β- Thiosemicarbazones: 1949, - 1959.  Interferon: 1954, 1957 Iododeoxiuridine: 1959, 1962 Hydorxybenzyl- Benzylimidazole: 1961 Marboran: 1963. Trifluorothymidine: 1964 Amantadine: 1964 Ara-A: 1964 Ara-A: 1964 Riyabirin e 1972	A): 1978 - Famo phonoformicacid - Hept/ CARNET): 1979 - Epavi din (BVDU): 1979 - Didar	din (D4T): 1987 clovir: 1989 clovir: 1989 ibo: 1990 - (3TC): 1995. osin (DDL): 1991 navir: 1991 - Canamivir (RELENZA): 1993 - Tenofovir: 1995.  Amprenavir: 1995 - Ritonavir: 1995 - Ritonavir: 1995 - Saquinavir: 1995 - Saquinavir: 1995 - Saquinavir: 1995 - Clovir: 1996 - Nevirapine (viramune): 1996 Enfuvirtide: 1996 Delavirdine (Recriptor) and Oseltamivir: 1997 Efavirenz (Sustiva): 1998 Amprenavir: 1999 Entecavir: and atazanavir: 2000 Adefovir: and etravirine: 2002 - Pleconaril: 2003 - Telbivudine and darunavir: 2003 - Maraviroc: 2005 Raltegravir: 2005	2011 MK5172: 2015 - Faldaprevir: 2013 - GS-9669 - Simeprevir: 2013 - BMS-791325 - Sofosbuvir: 2013 - GS9451:2016 - Mericitabione: 2013 - GS5816:2016 - Asunaprevir: 2014 - PPI-668:2016 - VX-135: 2014 - MK8742:2016 - Daclatasvir: 2014 - Danoprevir: 2014 - Dasabuvir: 2014

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