



**Sushrut**  
DESIGNS  
Pvt. Ltd.

# Engineering Answers to Medical Questions



# ABOUT US

## Welcome to Sushrut Designs

At Sushrut Designs, we work in collaboration with practicing surgeons and doctors to understand the root-causes of various modern ailments and address those through our medical and engineering expertise.

We design products with a view to support and enhance the original functions of the human body rather than replacing them altogether. Our products are backed by strong medical knowledge and extensive research.

Our devices do not require dedicated time. They blend in the background while users are engaged in their day-to-day activities.



## Our Vision

To become the preferred partner for innovative doctors to realize their inventions.



## Our Goal

To conduct research to identify, conceive, innovate and design new healthcare products.

# SEDENTARY LIFESTYLE

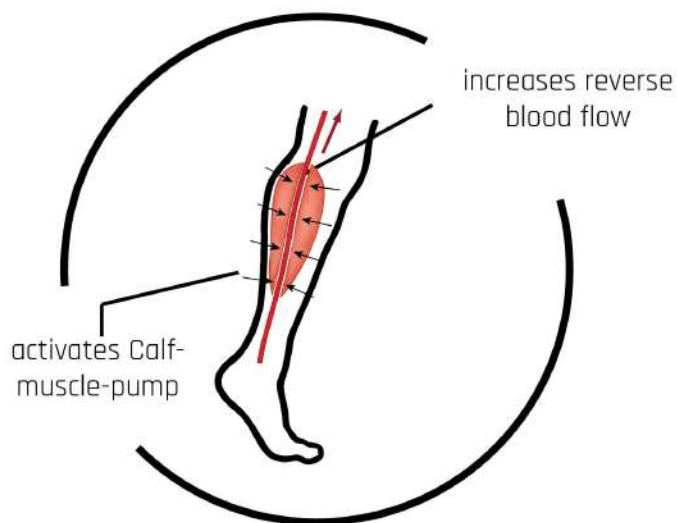
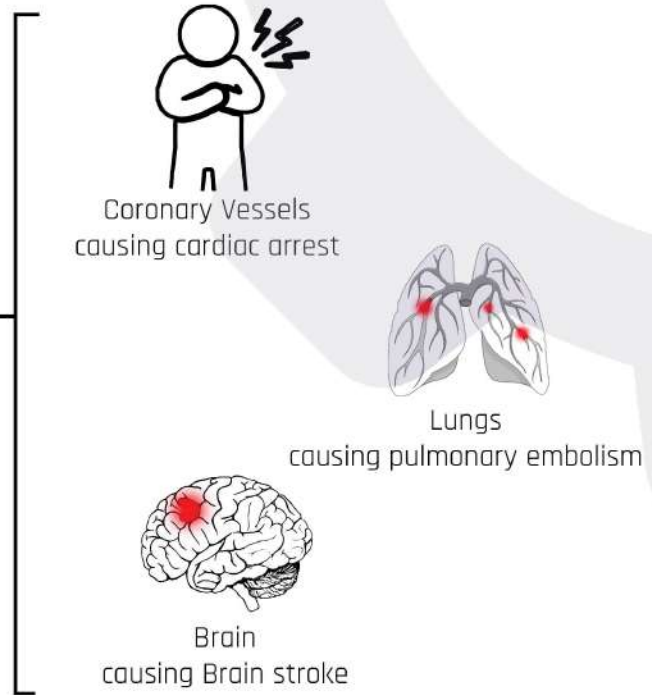
Modern Lifestyle has compromised many bodily functions leading to physiological problems which produce undesirable effects in the emotional, psychological and even economic and business spaces. Blood stagnation and blood clots in the legs are one of them eg. Sitting- standing for too long lead to blood stagnation which is known to form clots in the legs. As a solution to blood stagnation, Sushrut Designs launched SitWalker.



SITWALKER

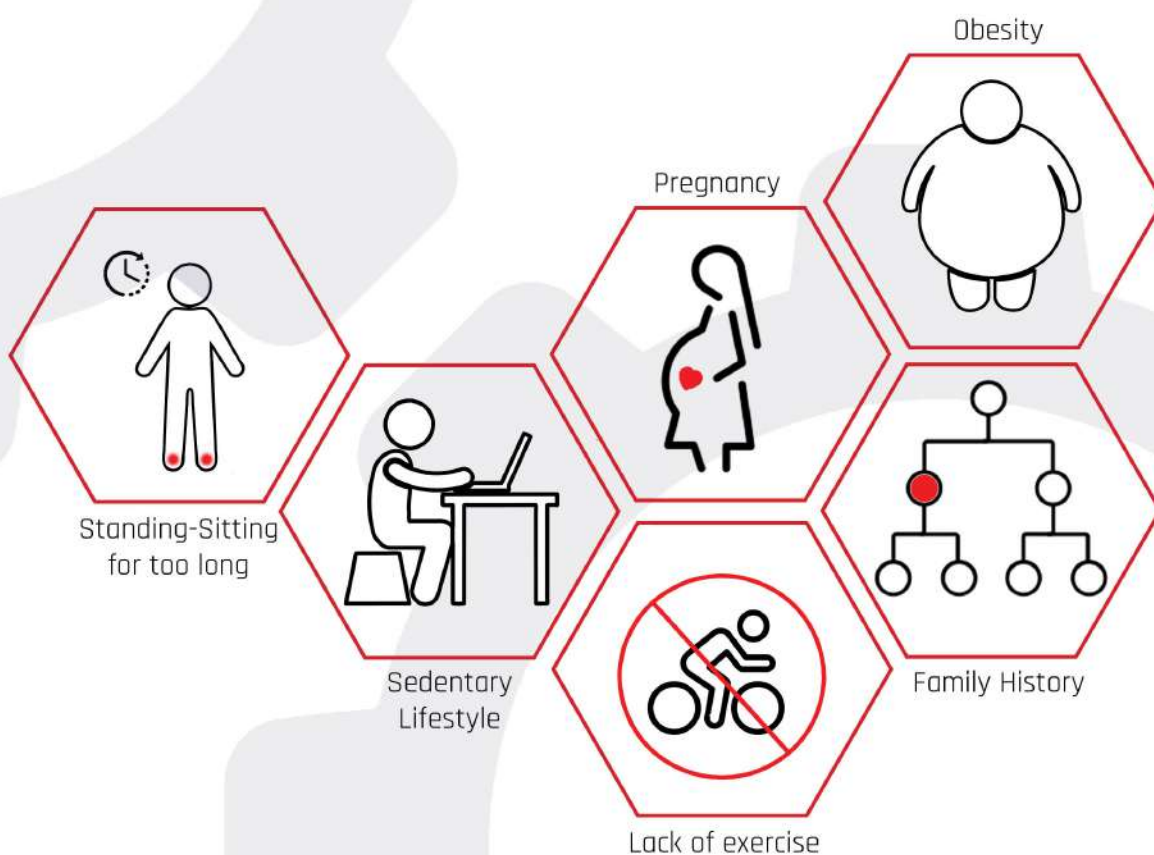
OUR PRODUCTS

**Legs** are the most probable site of clot formation and these clots can travel upwards and get lodged in critical sites like



**S**itWalker helps to increase the reverse blood flow from legs and directly reduces the risk of stagnation. This reduces the risk of getting Varicose Veins or even DVT, by avoiding clot formation.

# MAJOR CAUSES



SitWalker is also effective in cases where the ankle joint movements are restricted, blood flow in the legs is sluggish, loss of sensation in hand and feet, diabetic foot ulcers, etc.



*COVID-19 treated patients also run very high risk of clot formation \*\**

**\*\*Reference:**

<https://www.massgeneral.org/news/press-release/Elevated-clotting-factor-v-levels-linked-to-worse-outcomes-in-severe-covid-19-infection>

# Centre for Disease Control (CDC) of US Government says **blood clots in legs kill 1,00,000 people annually.**



National Center for Biotechnology Information (NCBI) is part of the United States National Library of Medicine, a branch of the National Institutes of Health. It advances science and health by providing access to biomedical and genomic information.

Many research papers (some references given below) on NCBI talk about the problems and solutions for blood stagnation in legs.

Untreated stasis (blood stagnation) in legs is known to create many complications like Deep Vein Thrombosis, Varicose Veins, Chronic Venous Insufficiency, Diabetic foot.



Chronic Venous Insufficiency: a Frequently Underdiagnosed and Undertreated Pathology  
P1  
NCBI | Cited - 14

Sequelae of Untreated Venous Insufficiency P4  
NCBI | Cited - 30



PROBLEM  
ASSOCIATED

scan the QR code to view  
the original papers.

The Calf-Muscle-Pump is the primary mechanism to send the blood back, and hence walking is the best solution. Basically reducing stasis is the solution - by any method.



Active Ankle Movements Prevent Formation of Lower-Extremity DVT After Orthopedic Surgery  
S1  
NCBI | Cited - 06

Influence of Ankle Active Dorsiflexion Movement Guided by Inspiration on the Venous Return From the Lower Limbs. PubMed | S3



SOLUTIONS  
RECOMMENDED

## Our product does exactly that - almost eliminates stasis

SITWALKER helps in reducing blood stagnation in legs and improves blood circulation while seated.

It prevents and avoids effects like deep vein thrombosis, varicose veins, chronic venous insufficiency and diabetic foot.



SITWALKER

# Results of Using SitWalker



**SitWalker:** Effect on varicose veins after 10 days of intermittent usage on Indian female, 40 yrs. Reduces probability of clotting too.



TAMEAN	0.4 cm/s
VolFlow	5.6 ml/min
1 VF Diam	0.52 cm

Before using SitWalker blood flow volume of the person was 5.6ml/min.



TAMEAN	2.6 cm/s
VolFlow	42.7 ml/min
1 VF Diam	0.59 cm

After using SitWalker the blood flow volume of the person went up to 42.7ml/min.

**“ Walking gets the feet moving, the blood moving, the mind moving..  
And **Movement is LIFE..!**”**



Get in touch with us on



**@susuhrutdesigns**

*For any further information / assistance kindly connect with our customer representative*

**+ 91 85300 81404**

