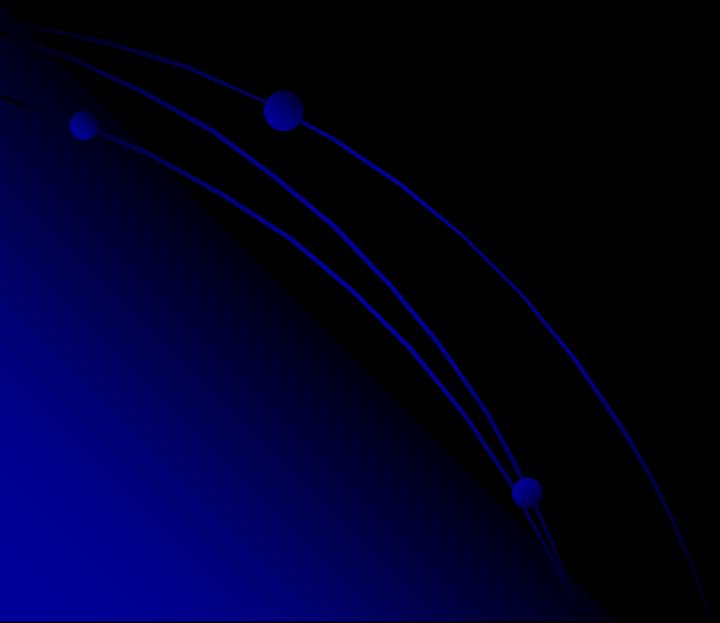
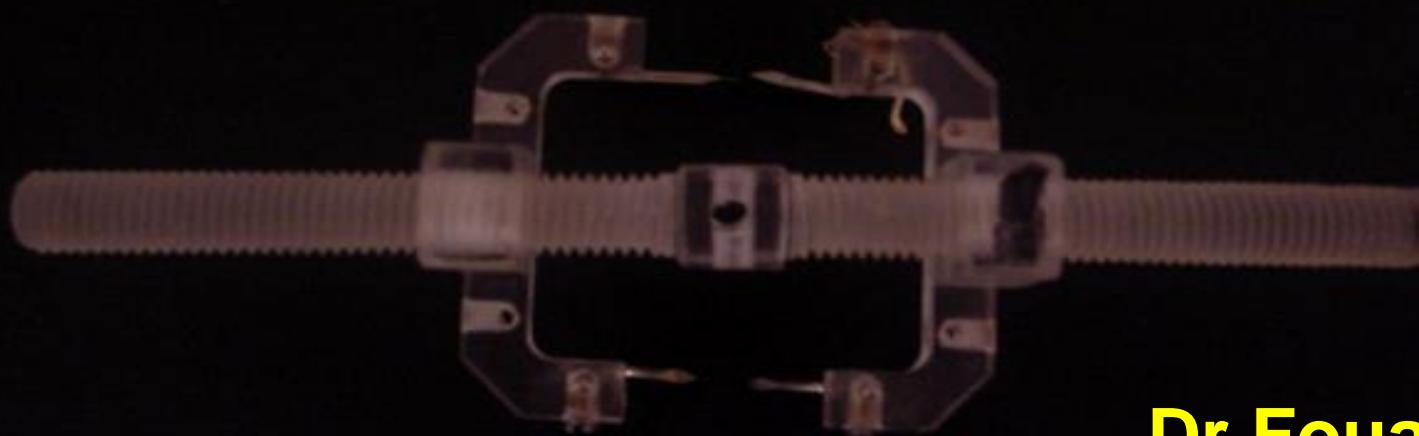


بسم الله الرحمن الرحيم



SKIN-STRETCHING DEVICE (SSD)

FOR CLOSURE Of WOUNDS WITH LARGE SKIN DEFECTS



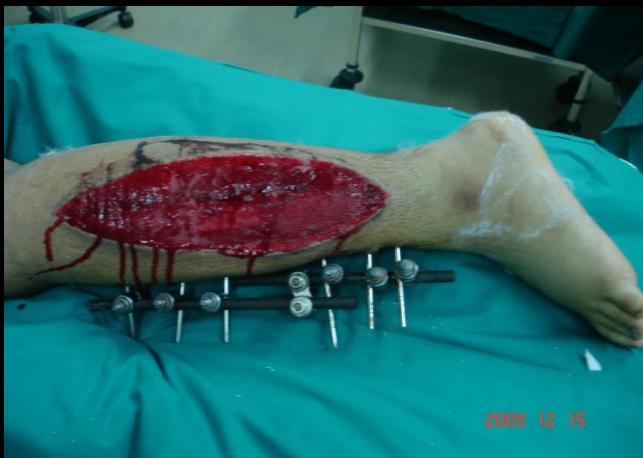
Dr Fouad Asal

**ALRAZI HOSPITAL
KUWAIT**

**Surgeons often encounter cases of injuries accompanied
by extensive skin loss, with inability to close
these wounds without difficulty**

**1- Following open fasciotomy
for
Compartmental Syndrome Release**





2- Post-traumatic Wounds with exposed bone, tendons, and joints





To avoid the ugly results and
complicated surgical procedures

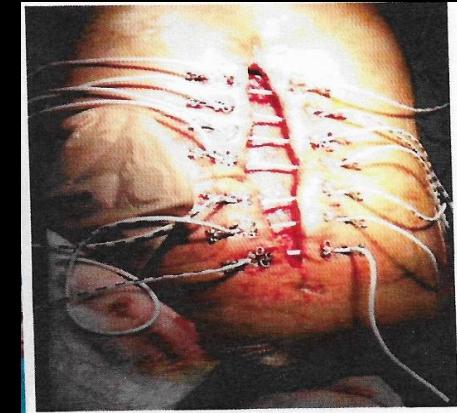
like



1-Skin graft



2 - Flaps



Silicone Strips



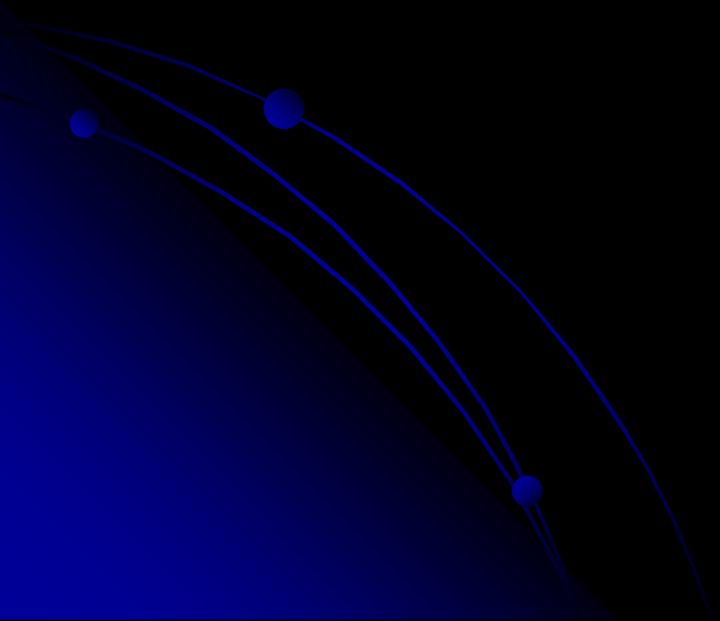
There is a continuous search for more practical , successful and cosmetically elegant methods

**FOR
CLOSING A LARGE WOUNDS**

TISSUE EXPANSION TECHNIQUE

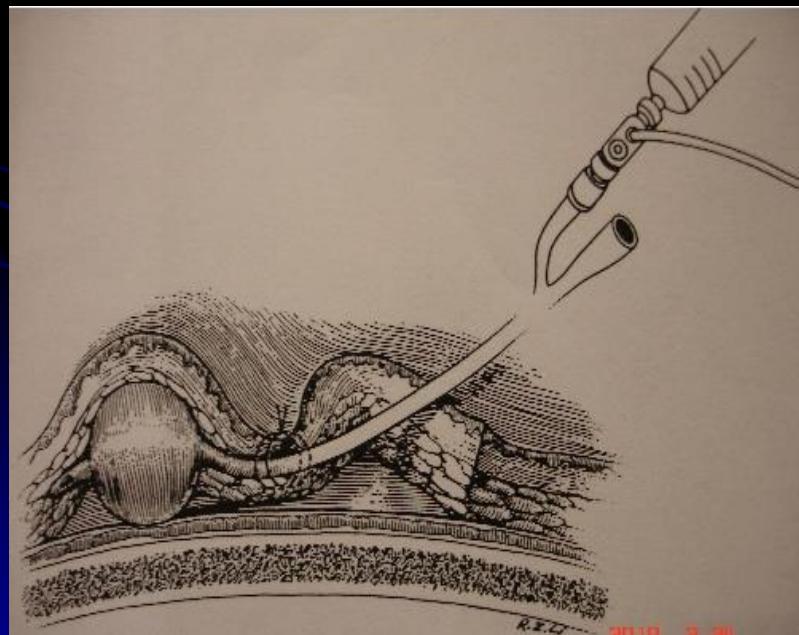
IS WIDELY USED BY PLASTIC SURGEONS

The Tissue expansion is a concept based on
the skin's natural ability to stretch in response to
incremental traction without tendency to recoil

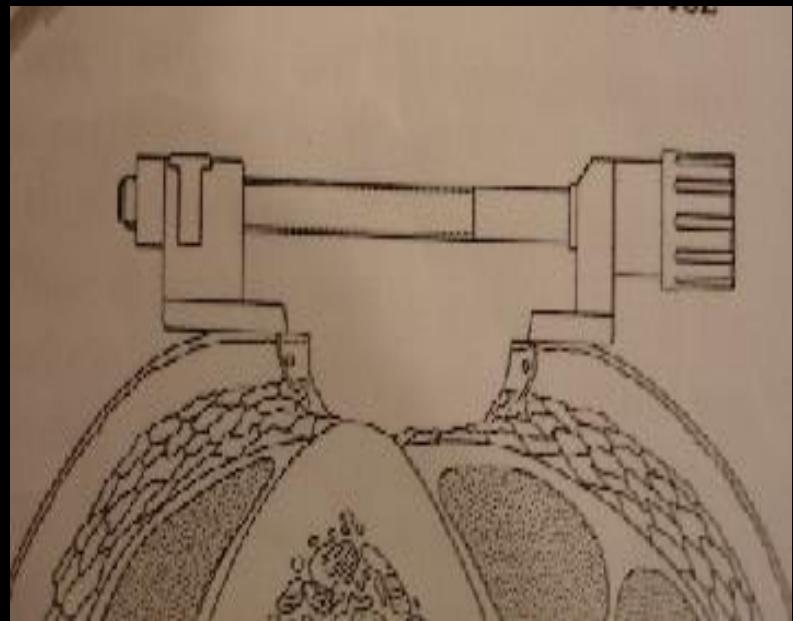


There is deferent methods of tissue expansion

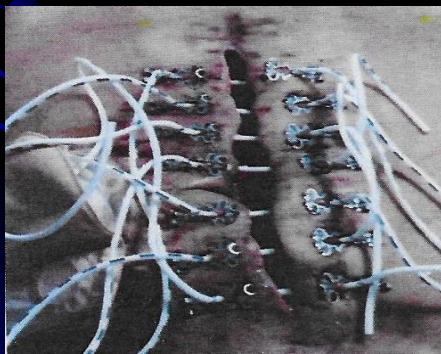
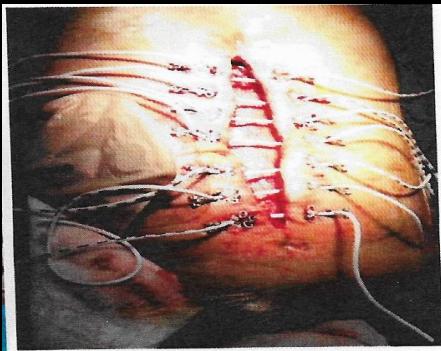
1) FOLEY CATHETER METHODS



2) SKIN HOOK METHODS



3) tension by using Silicon strips



We used our own skin traction device that has been developed, designed and manufactured in Kuwait

by hand surgeons at Al-RAZI hospital
and
Kuwait Institute for Scientific Research





Academy of Scientific Research and
Technology
(ASRT)



Arab Republic of Egypt
Ministry of State for Scientific Research

Official Extract Of
Patent No 23906

PRESIDENT, ASRT

According to Article 19 of the Intellectual Property Rights Law issued by law No. 82 for the year 2002, and according to the Presidential decree No. 377 for the year 1998 reorganizing the Academy of Scientific Research and Technology ; and In accordance with patent application No. 2005050253 and the documents attached to it

Article 1 : A patent with number 23906 is granted to Mr./ Fouad Sadik Abd Aziz Asal

Address : 18 Elbohtory Street , Hoadsyk Al Qobba , Cairo , Egypt

for the invention : Skin – Stretching Device

Inventor Name : Mr / Fouad Sadik Abd Aziz Asal

Patent Period : 20 years, Starts on May 24, 2005 , a certified description of this patent is attached with this certificate

Article 2 : This decree was issued in Cairo on December 30, 2007

Article 3 : The concerned authority must publish the issuance of this patent in the Egyptian Patent Gazette

Granting this Patent does not give the right to market the product in the Arab Republic of Egypt. To market the product of this patent in the Arab Republic of Egypt, legal regulations and procedures specified by the concerned ministries must be followed.

Nawaf. T.

President,

Egyptian Patent Office

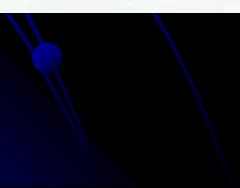
Nadia Abd Allah
Eng- Nadia I. Abd-llah



Acting President

M. M. Shokry

Prof. Dr. Mohsen Mahmud Shokry



The device consists of right hand and left hand threaded coupler screw. Two U-shaped arms with 2 or 4 skin hooks that move towards each other when rotating the coupler screw using Tommy bar. The device is made of acrylic, and it can be applied under regional or local anaesthesia. A description of the technique is followed by the clinical results

The device is different from other devices , that it divides the stretching-force adequately upon the two sides of the skin towards the center of the wound.



We have treated 42 patients with large skin defects in the upper and lower extremities.

27 post-fasciotomy

15 post-traumatic

. The mean stretching time was

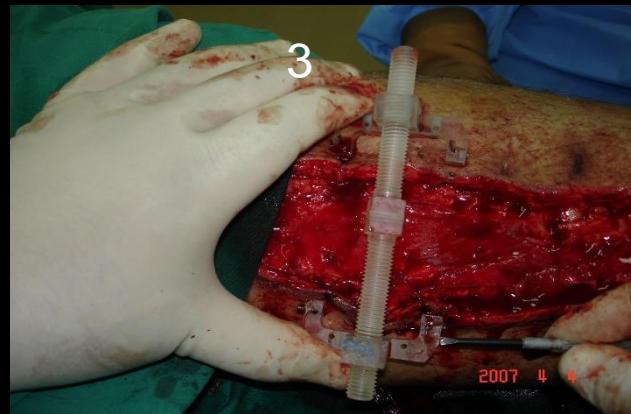
a) 2-12 hours

(Post-fasciotomy)

b) 2-72 hours

(Post-traumatic wounds.)

How to apply the SSD





video -

Case No1



Case No 2



Case No 3



Case No 3



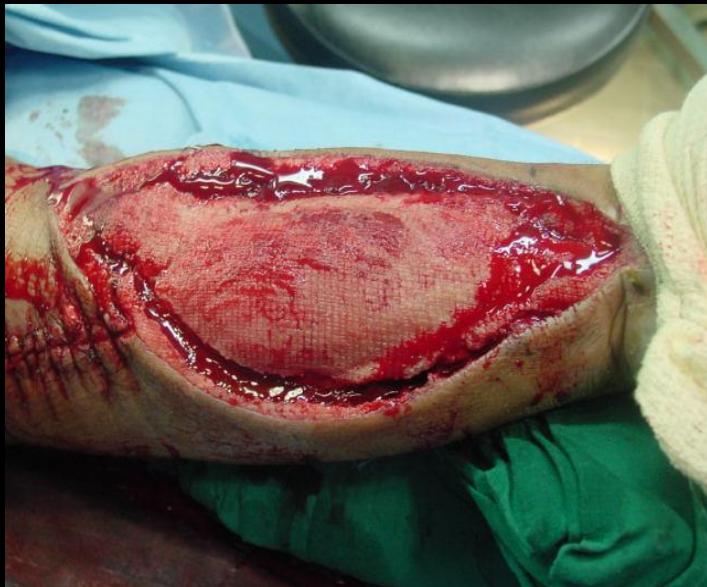
Case No 4



Case No 5



Case No 6



Case -7





Case 7



Thank you

