



DISC RADICULAR CONFLICTS TREATMENT WITH OXYGEN OZONE THERAPY



SINCE 1995

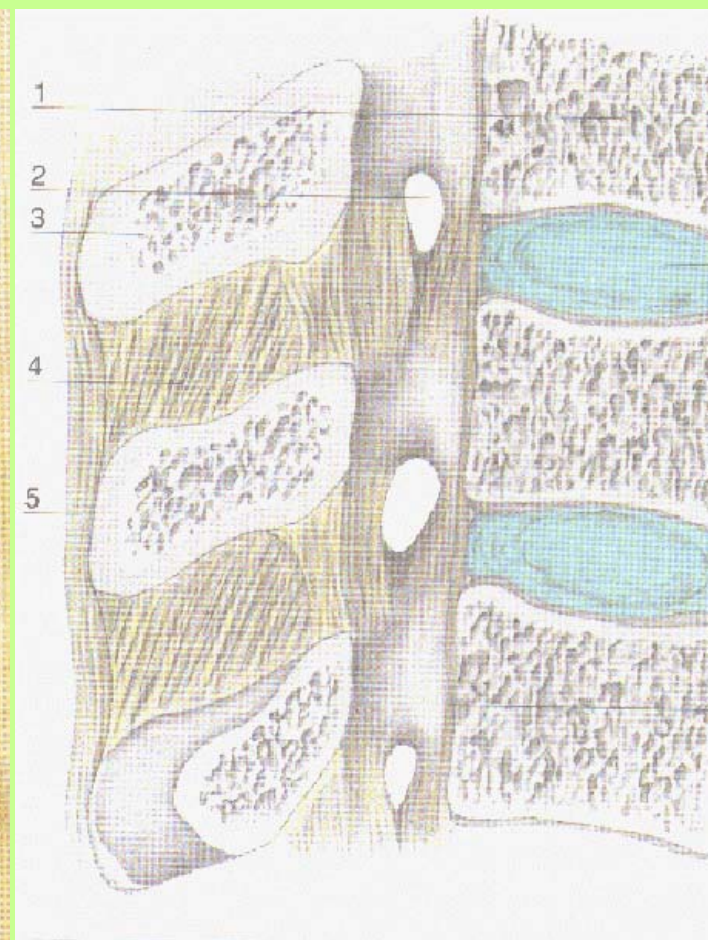
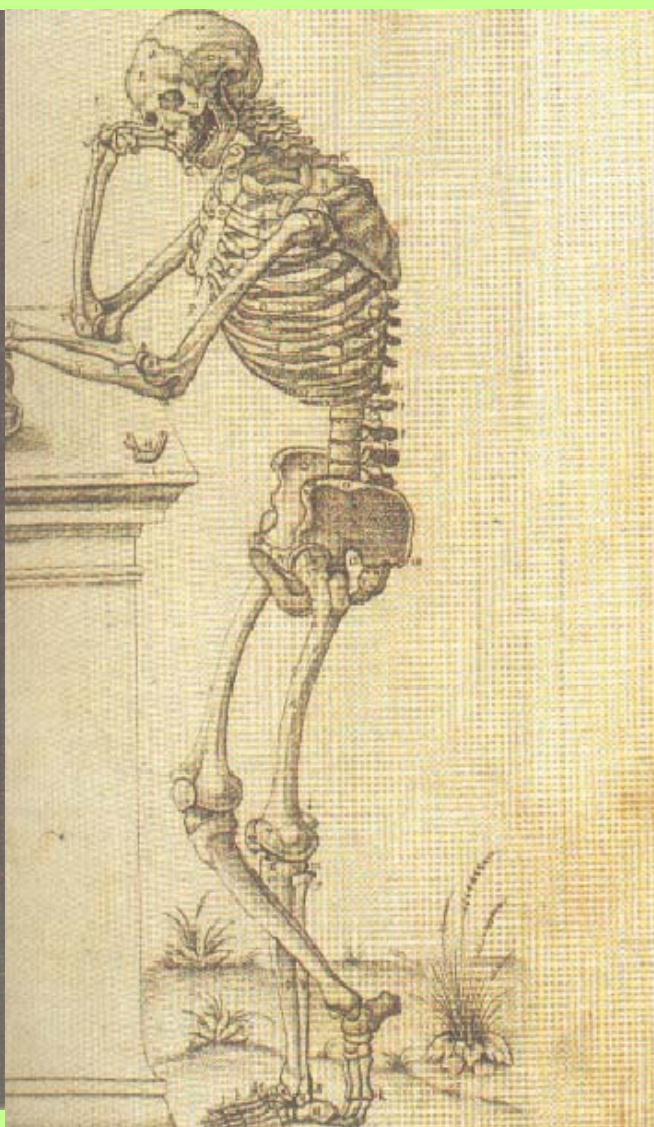
SINCE 1984



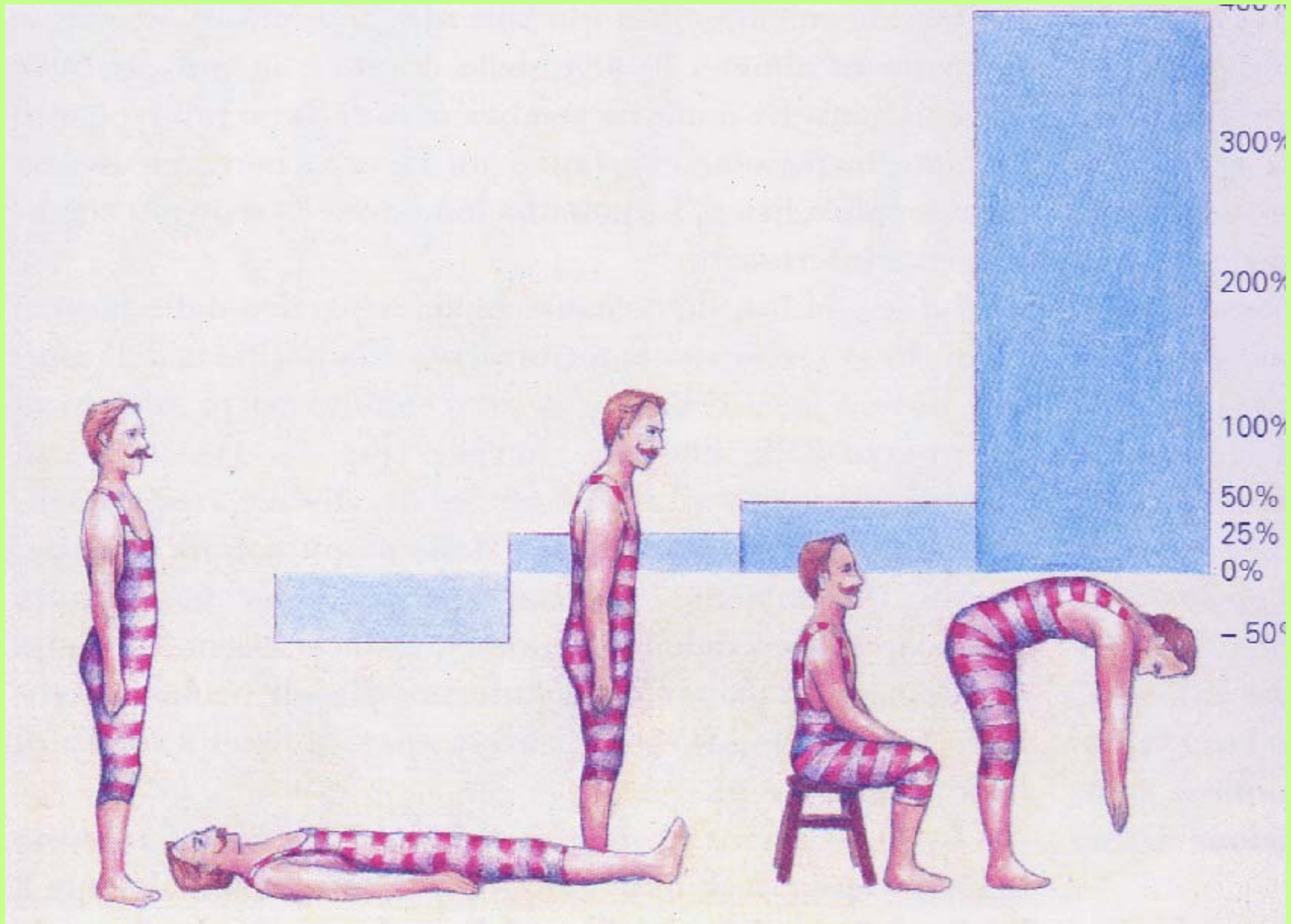
**Nuovo approccio terapeutico
alle ernie e protrusioni discali lombari**

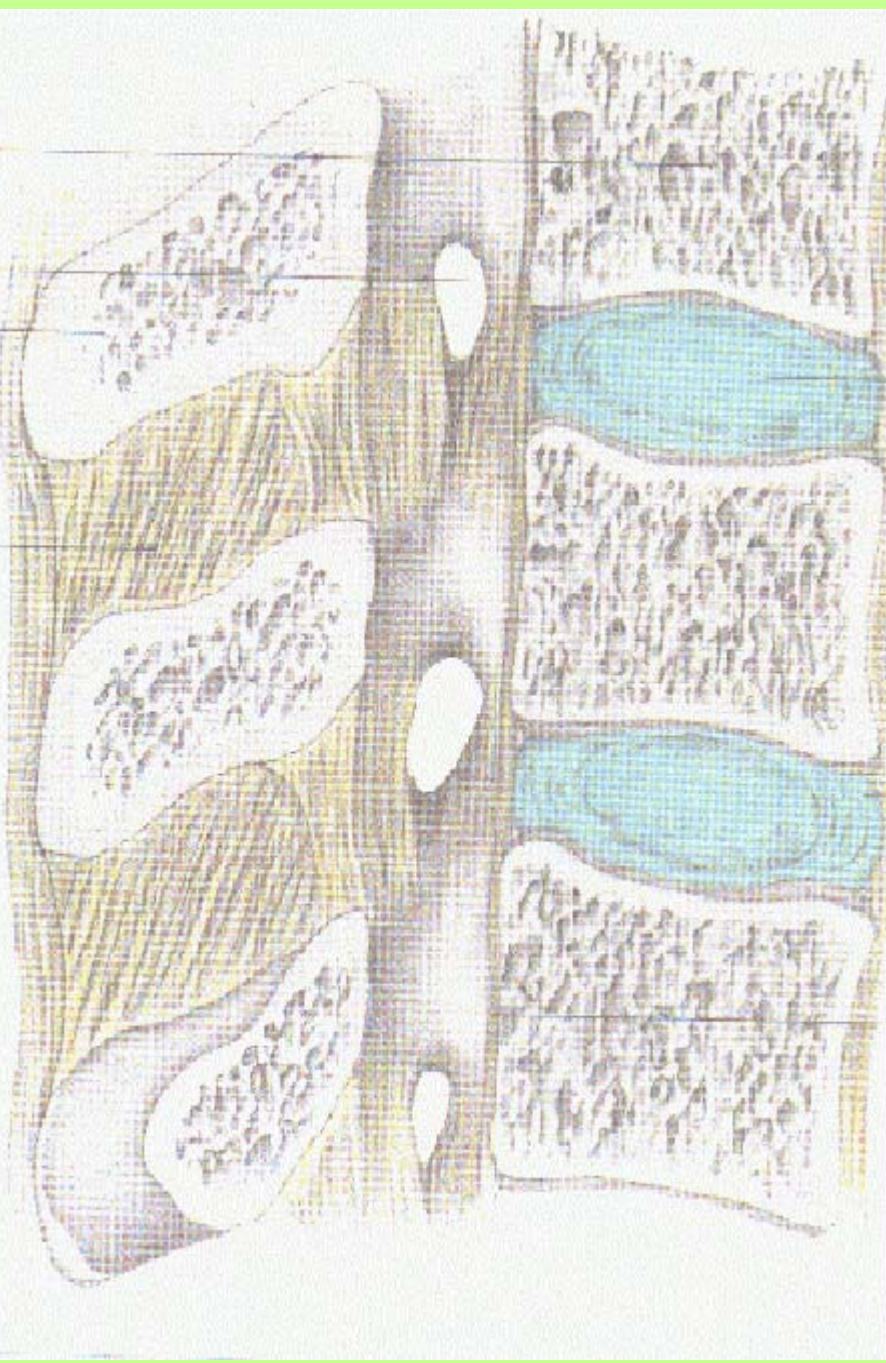
C. VERGA

Ortopedico, Bergamo

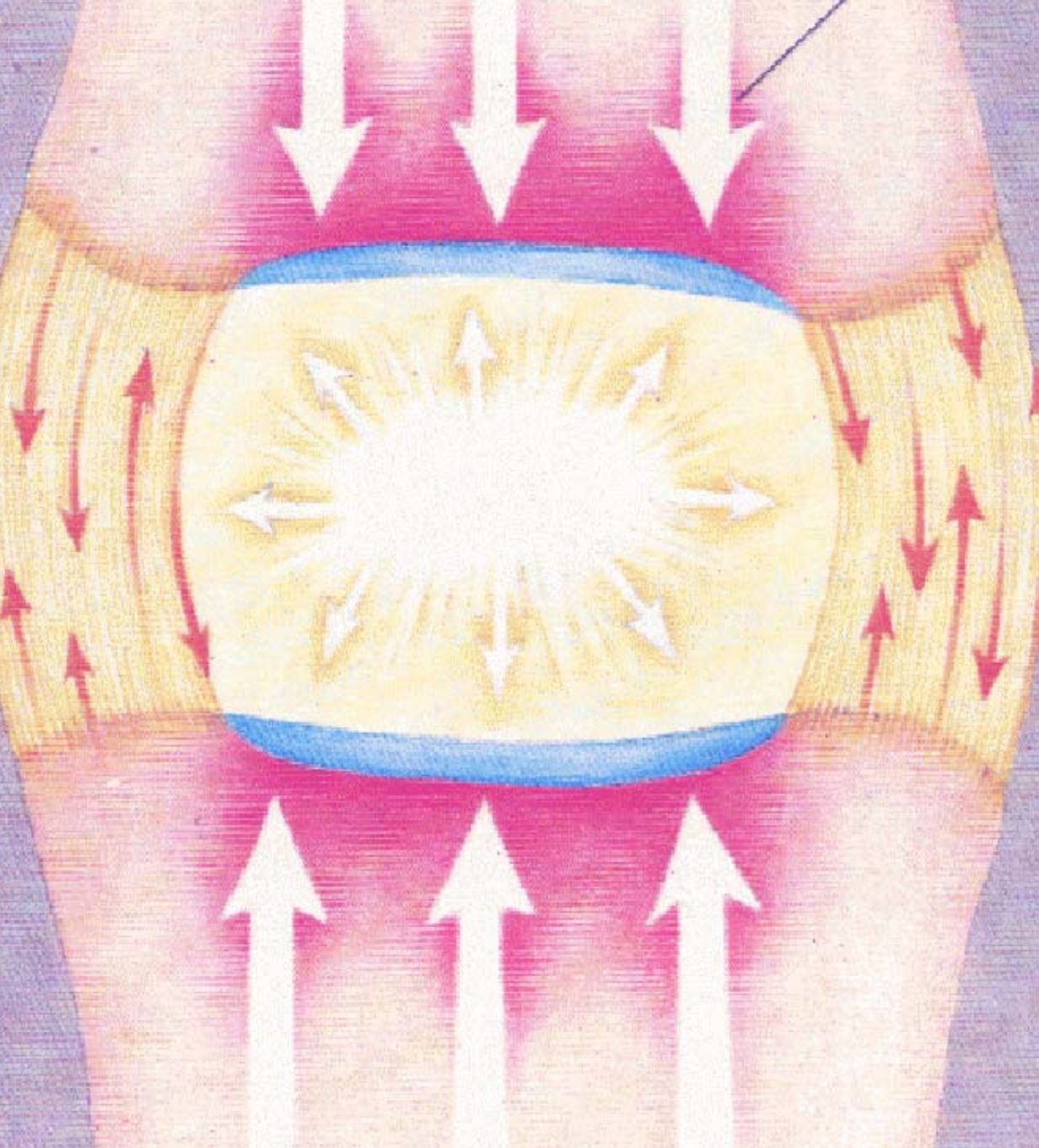


Biomechanics of
the vertebral
column





The intervertebral disc has the important mechanical function to neutralize the energy that loads on the column, allowing its movement.



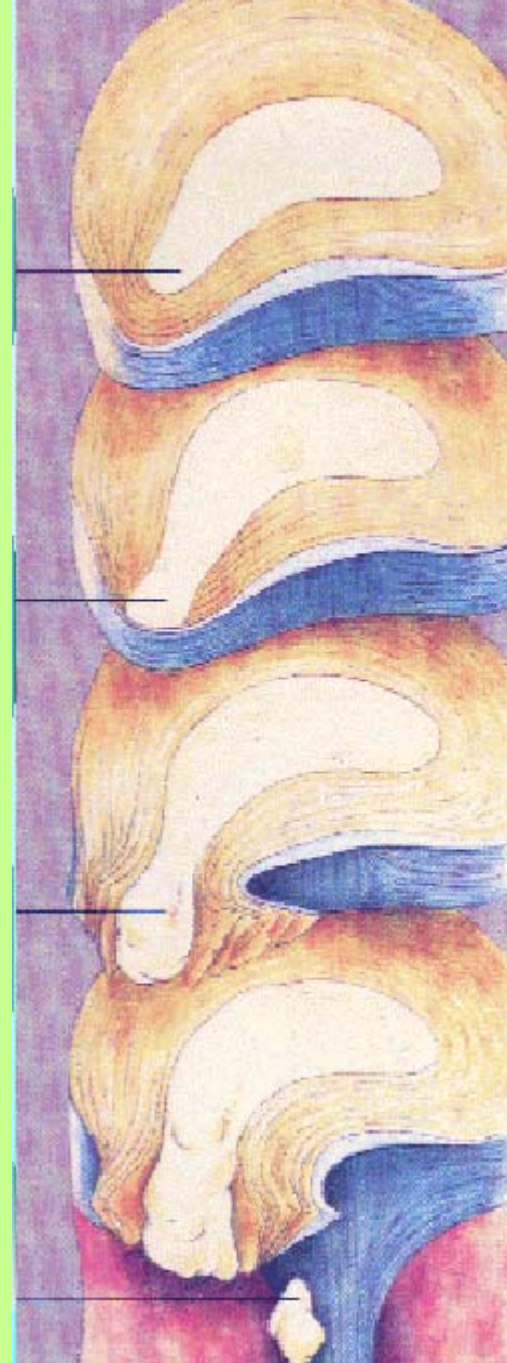
THE PRESSURES
ARE
PARTIALLY
TRANSFORMED
FROM THE
DISCAL
SYSTEM IN
TENSIONS (OF
THE ANULUS)
AND
PARTIALLY
ABSORBED
FROM THE
NUCLEUS
RESILIENCE

THE FIRST STEP IS THE DEFORMATION OF THE ANULUS DUE TO MECHANICAL STRESSES AND/OR ITS WEAKNESS.

THE SECOND IS THE STRETCHING AND THE GRINDING OF THE ANULUS FACING THE CHANNEL.

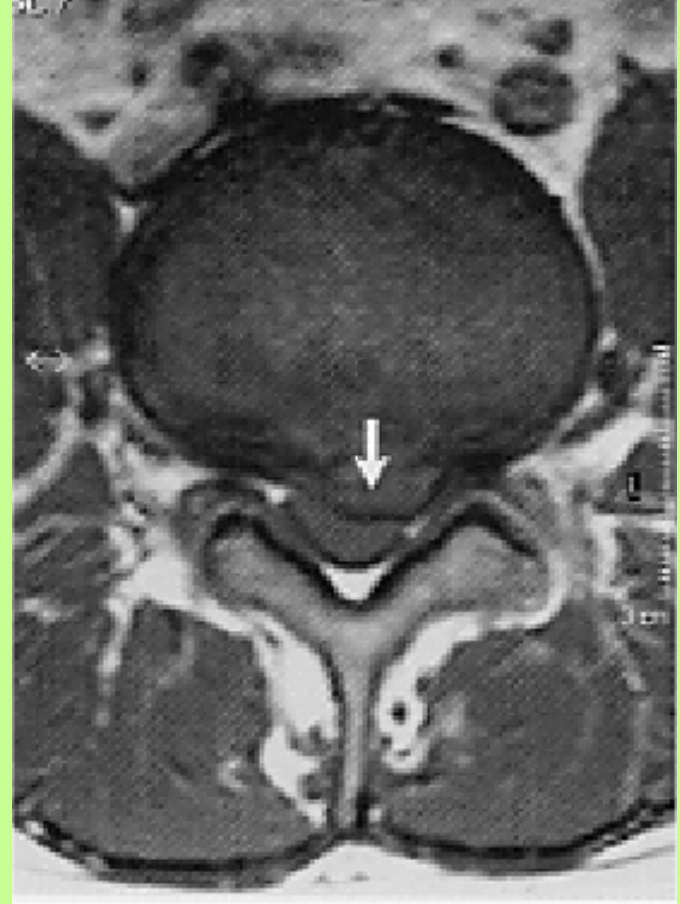
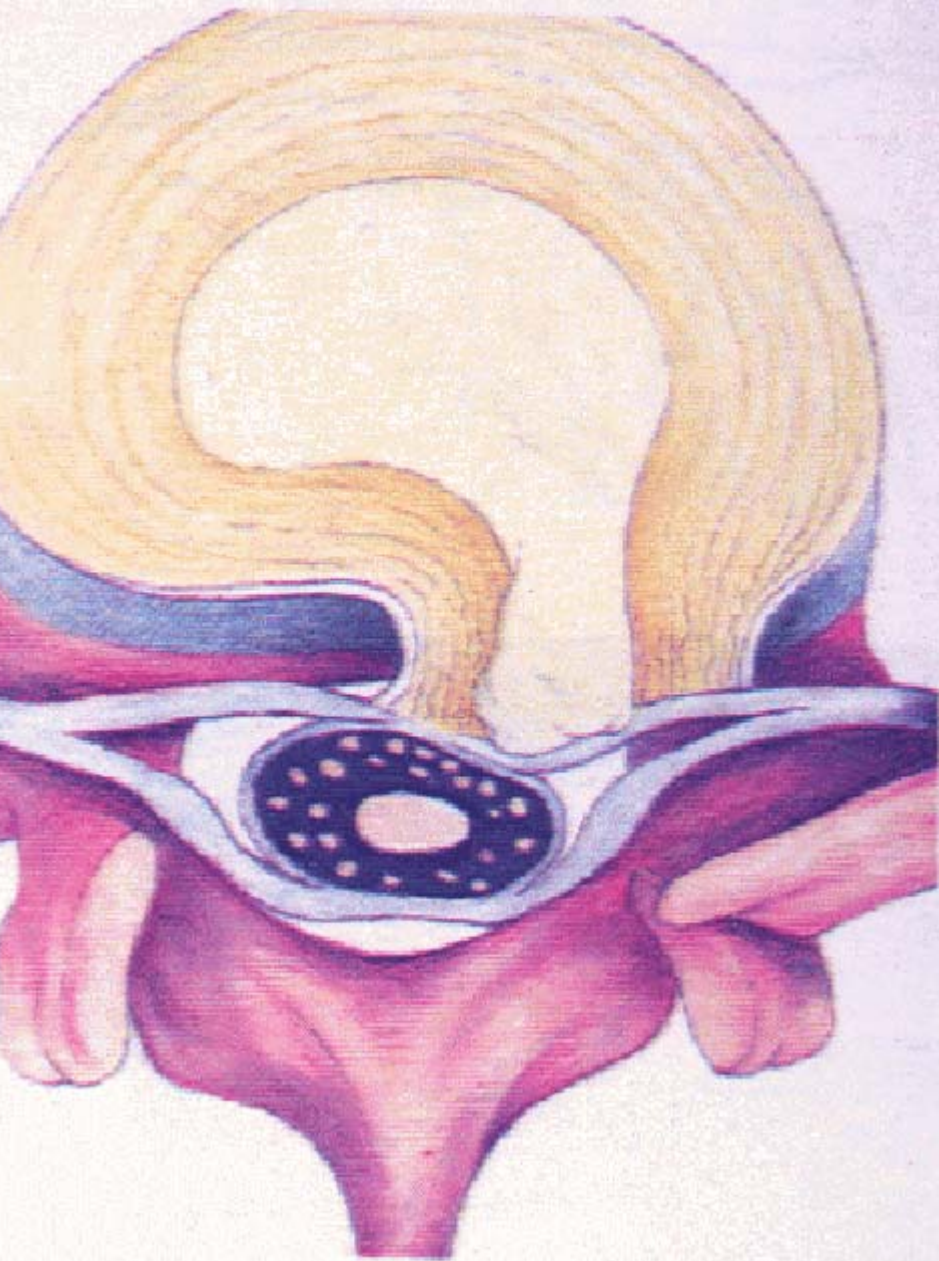
THE THIRD STEP IS THE BREACH OF THE ANULUS WITH THE CONSEQUENT SHELF OF THE NUCLEUS IN THE CHANNEL.

THE CONCLUSIVE PHASE IS THE PROLAPSE AND THE EXPULSION OF THE NUCLEUS.



THE FINAL
PICTURE OF
THE
EVOLUTION OF
A BACK DISCAL
DEFORMATION
(BDD)
GENERATING A
DISC
RADICULAR
CONFLICT (DRC)



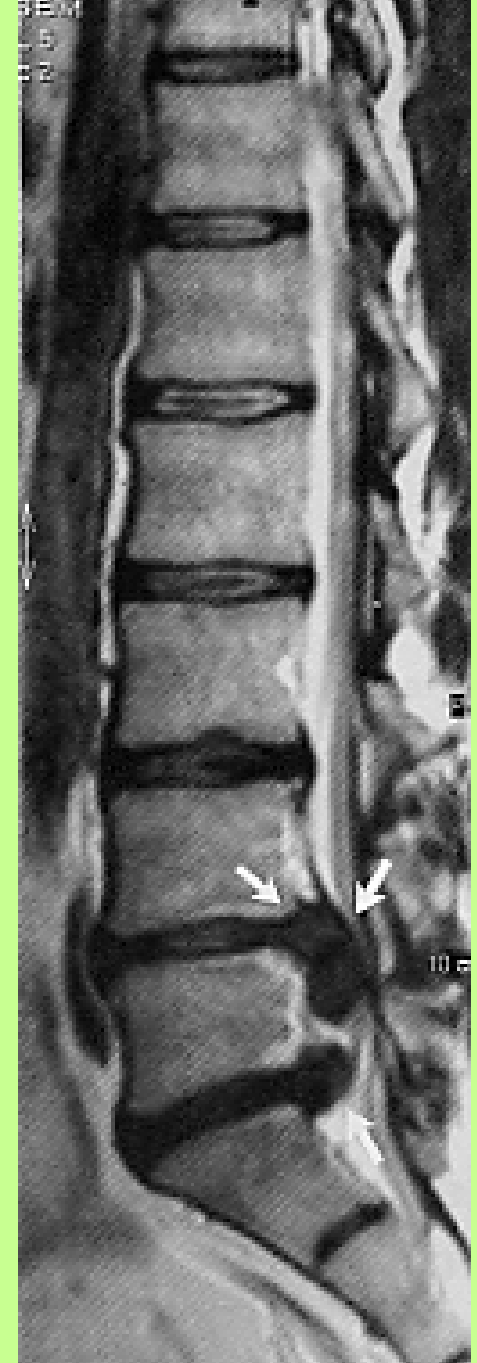


A BACK DISCAL
DEFORMATION (BDD)
GENERATING A DISC
RADICULAR CONFLICT
(DRC) AND CT IMAGE

TWO BACK DISCAL DEFORMATIONS
(BDD) GENERATING DISC RADICULAR
CONFLICTS (DRC) AND MRI IMAGE

THESE ARE, HOWEVER, ONLY
IMAGES, THAT MUST ALWAYS BE
CONSIDERED TOGETHER THE
SYMPTOMS OF THE PATIENT TO
WHICH THEY REFER.

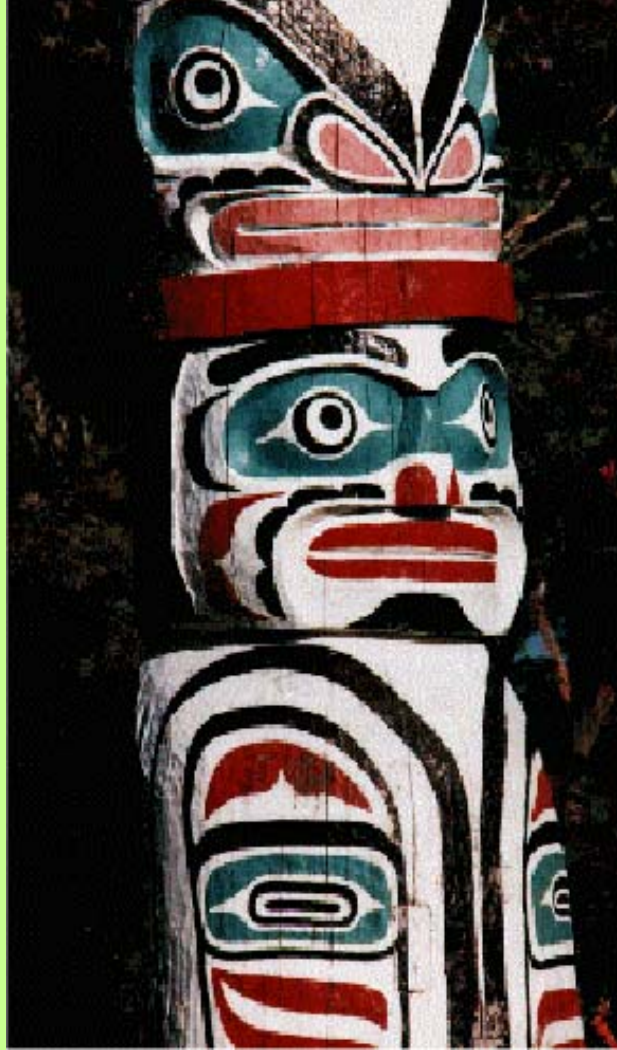
EVERY PATIENT WITH THE BDD
IS A SPECIFIC CASE, DIFFERENT
FROM ANY OTHER ONE.



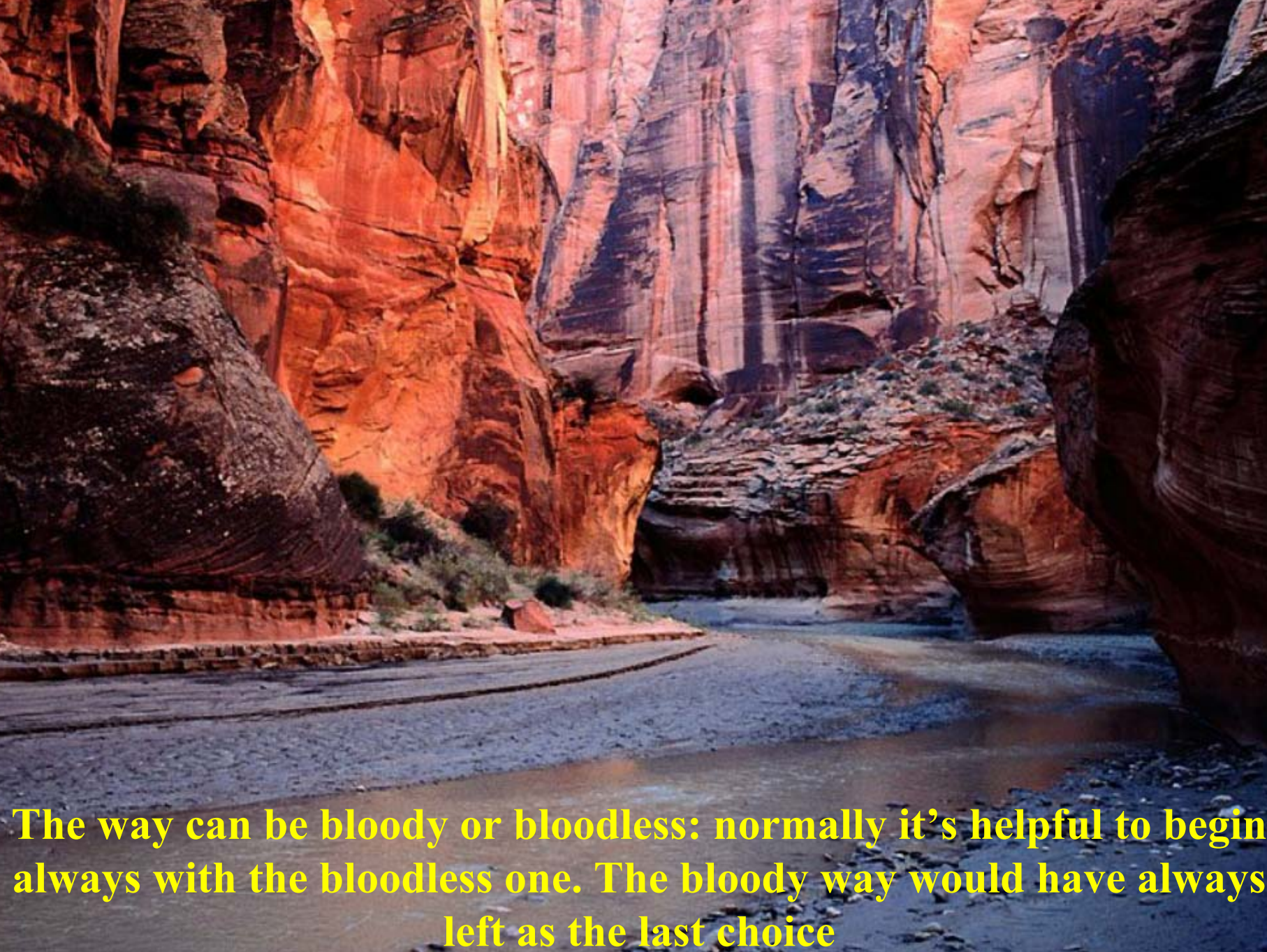


MANY ARE THE SOLUTIONS INVOCATED FROM WHO SUFFERS FOR A BDD AND A DRC. FROM MOST MAGICAL TO THOSE CONSIDERED MORE “SCIENTIFIC”.

OFTEN ONLY THE SYMPTOMS ARE TAKEN IN CONSIDERATION, WITHOUT WORRING ABOUT THE TRUE DIAGNOSIS, RESPONSIBLE OF THE SYMPTOMATOLOGY



FIRST OF ALL: THE DIAGNOSIS!!!



The way can be bloody or bloodless: normally it's helpful to begin always with the bloodless one. The bloody way would have always left as the last choice

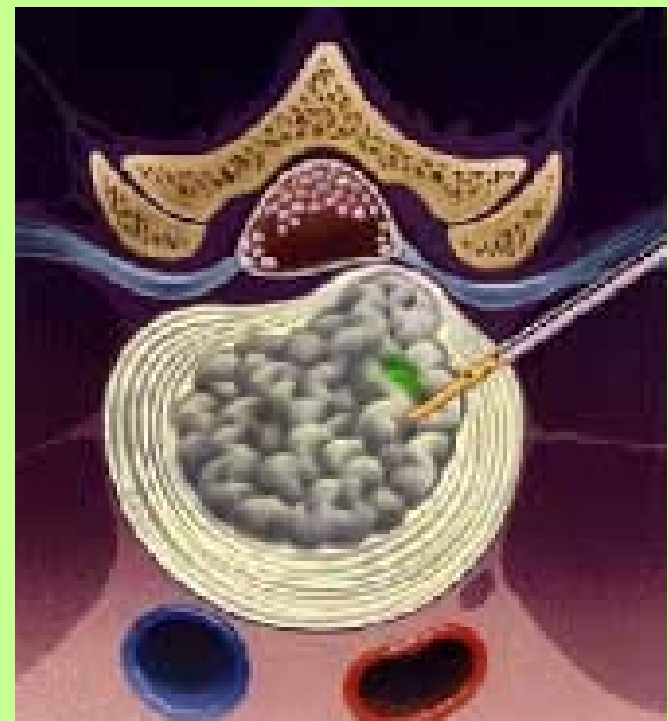


BLOODLESS ARE SYMPTOMATIC AND NON-SPECIFIC THERAPIES:
PHARMACOLOGIC, PHYSICS, MANIPULATING, HOMEOPATHIC,
KINESIOLOGIC ETC.



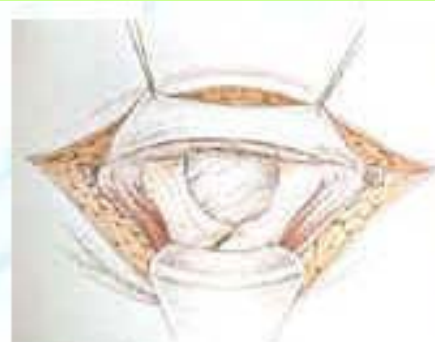
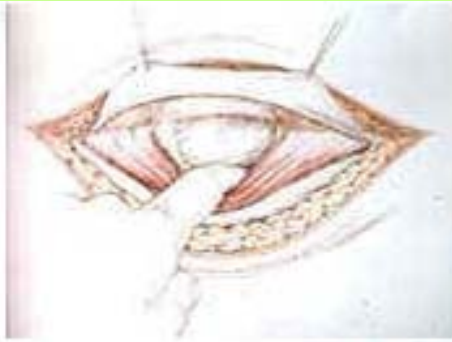
Bloody can be “opened or closed”

THE CLOSE TECHNIQUES
HAVE A REMARKABLE
LIMITATION IN THEIR
INDICATIONS.



BUT THE SCARS
ARE ALMOST
NULL





THE SURGICAL "INVASION", VERY OFTEN USELESS AND SOMETIMES UNSAFE, TRIES TO RESOLVE THE (DISC - RADICULAR) CONFLICT KILLING ONE OF THE TWO PARTICIPANTS: THE DEFORMED DISC.



DIGGING CAN BE AMUSING FOR THE SURGEON, BUT IT LEAVES AN ALTERED GROUND.



THIS IS WHAT
OFTEN HAPPEN
AFTER A
SURGICAL
OPERATION OR
WITH ANY
TECHNIC NOT
RESPECTING THE
DISC

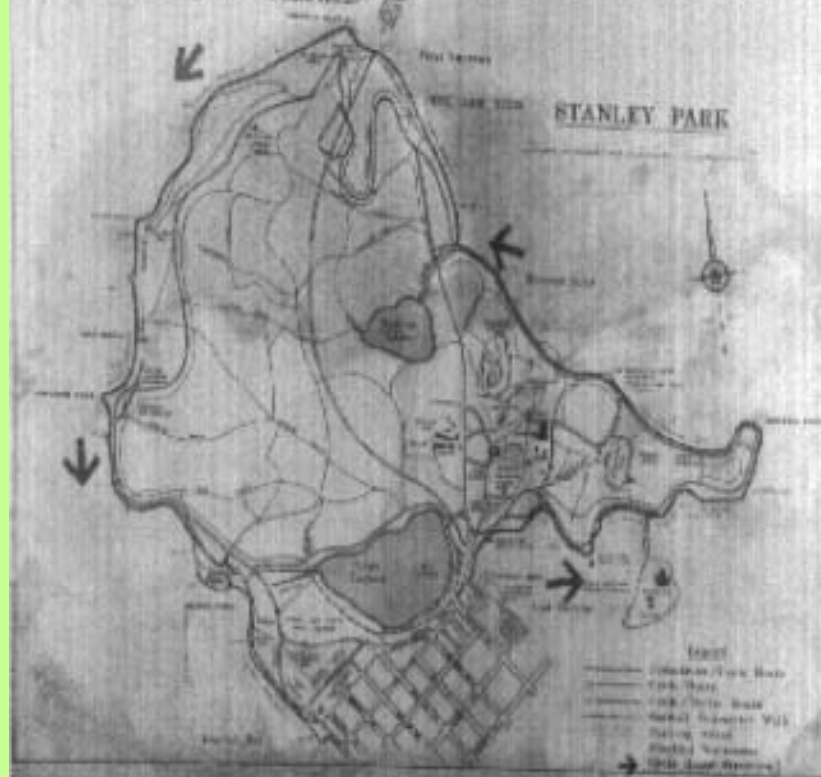
THIS IS THE
PICTURE
TEN YEARS
LATER...



DO YOU
THINK
HE WILL
BE A
HAPPY
PATIENT
?

A RESPECTING
BEHAVIOUR OF THE
RIGHTS OF BIOLOGY
EXISTS AND WE,
MEDICAL DOCTORS,
MUST ADOPT IT AND
FOLLOW IT
SCRUPULOUSLY.

THEREFORE OUR
BEHAVIOUR
TOWARDS THE
PATIENT MUST
RESPECT HIS RIGHTS.



COURTESY CODE

- ALWAYS SHOW COURTESY & RESPECT THE RIGHTS OF OTHERS. EXERCISE CAUTION IN CONGESTED AREAS.
- PLEASE STAY ON YOUR SIDE OF PATH.
- CYCLISTS-MAINTAIN A SAFE SPEED AT ALL TIMES. USE INSIDE LANE ONLY. TRAVEL SINGLE FILE. WARN OTHERS WHEN PASSING



THEREFORE WE
NEED TO CHANGE
A CONFLICT
SITUATION



IN A BIOLOGICALLY
FLOURISHING ONE



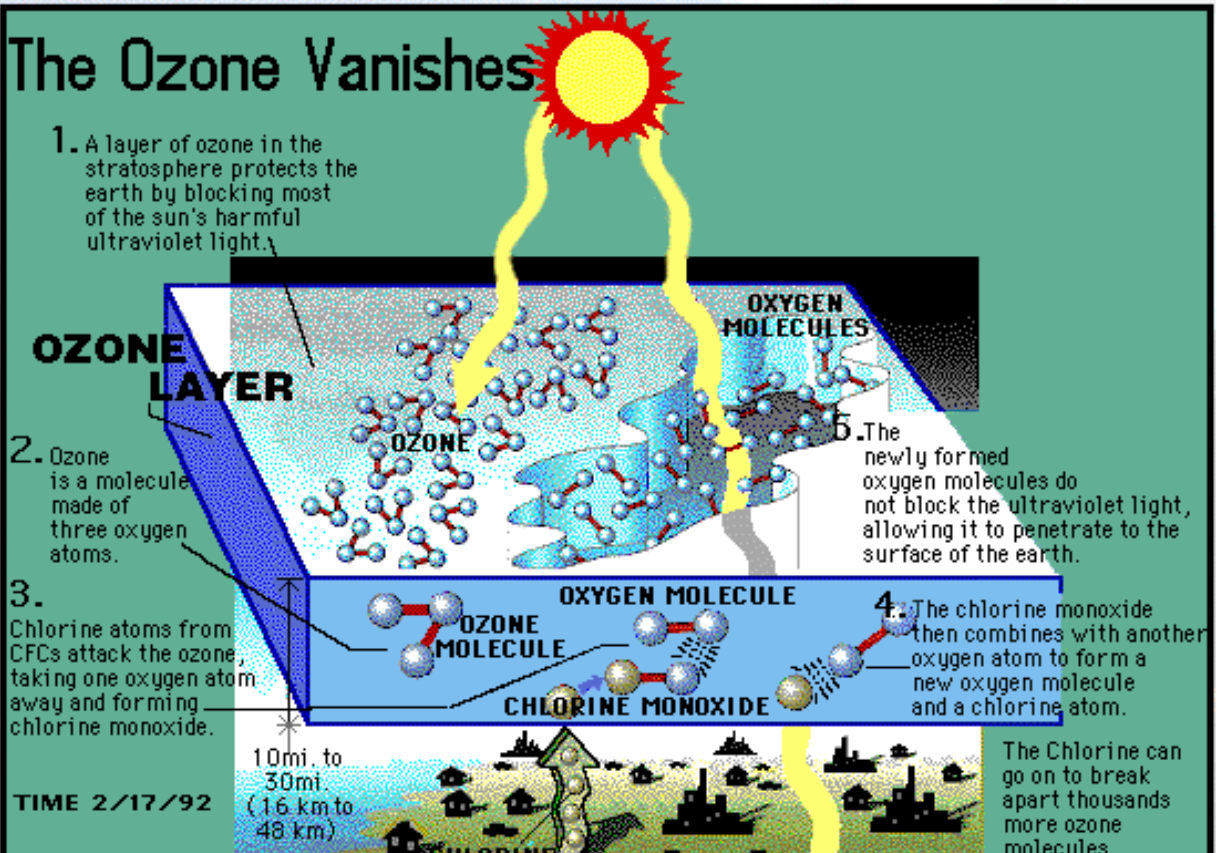


Oxigen-Ozone: to be or not to be a real therapy ...



Some people are seriously convinced that Oxigen-Ozone is only fried air, others assert that it provokes cancers, some others that gives embolic diseases.

There is a big confusion among Ozone like a molecule of the atmosphere, Ozone in not medical employment and therapeutic Ozone



WHAT YOU NEED FOR DISCOSAN TREATMENT

AND THE
RESUSCITATION
KIT THAT ANY
M.D. NEEDS FOR
HIS WORK





BEYOND THE
OXYGEN - OZONE
MACHINES



END NATURALLY THE
PATIENTS: THEY MUST BE
INJECTED DEEPLY IN
THE PARAVERTEBRAL
MUSCLES.



OBVIOUSLY THE PATIENT
MUST LAY DOWN WITH
MUSCULAR RELAXATION

THE GASEOUS MIXTURE GETS IN THE VERTEBRAL CHANNEL THROUGH THE CONJUGATION FORAMEN.

TO REACH HERNIATED DISC FROM BOTH SIDES IS NECESSARY TO PERFORM 2 INJECTIONS.



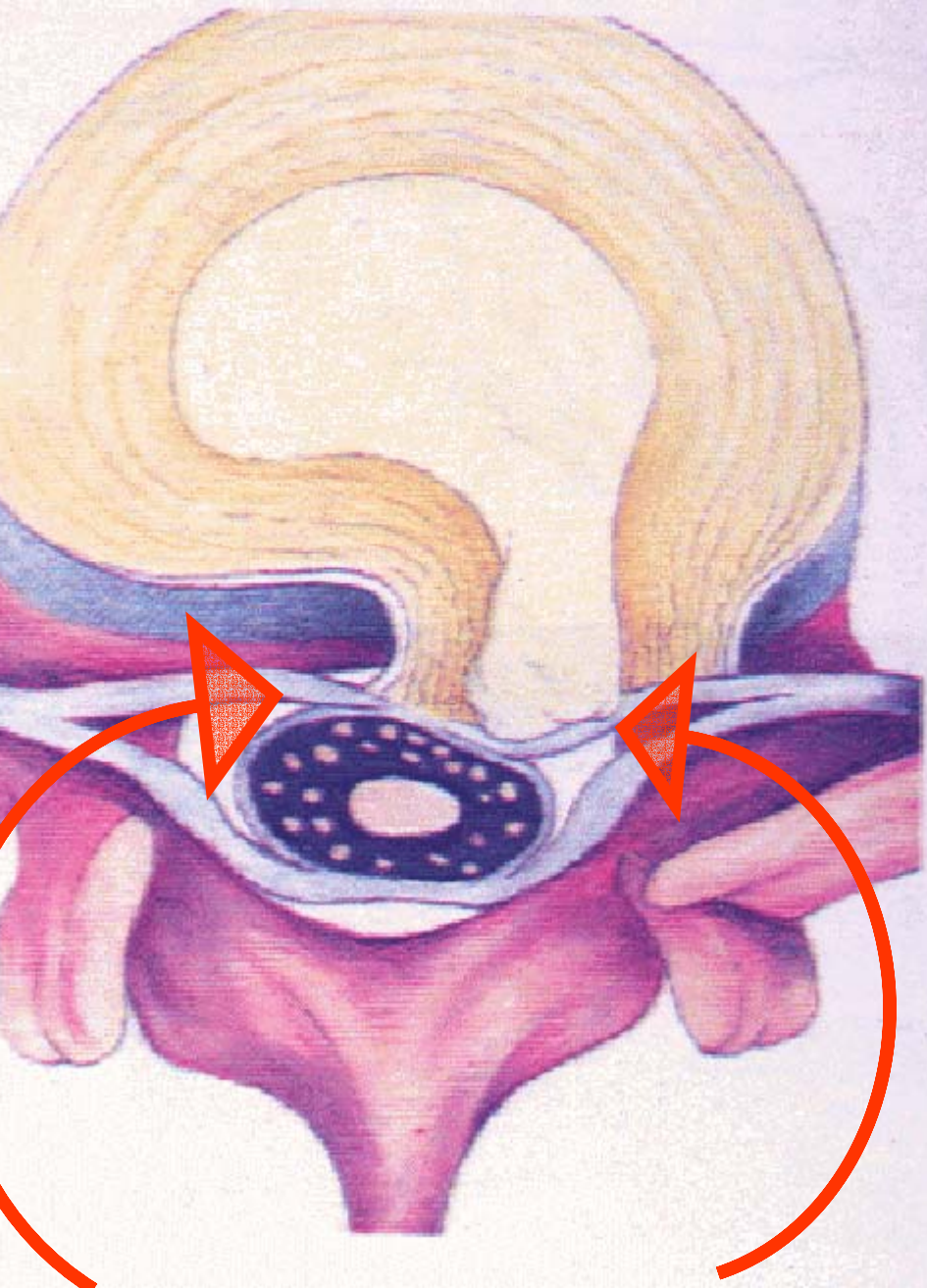
RELAXATION







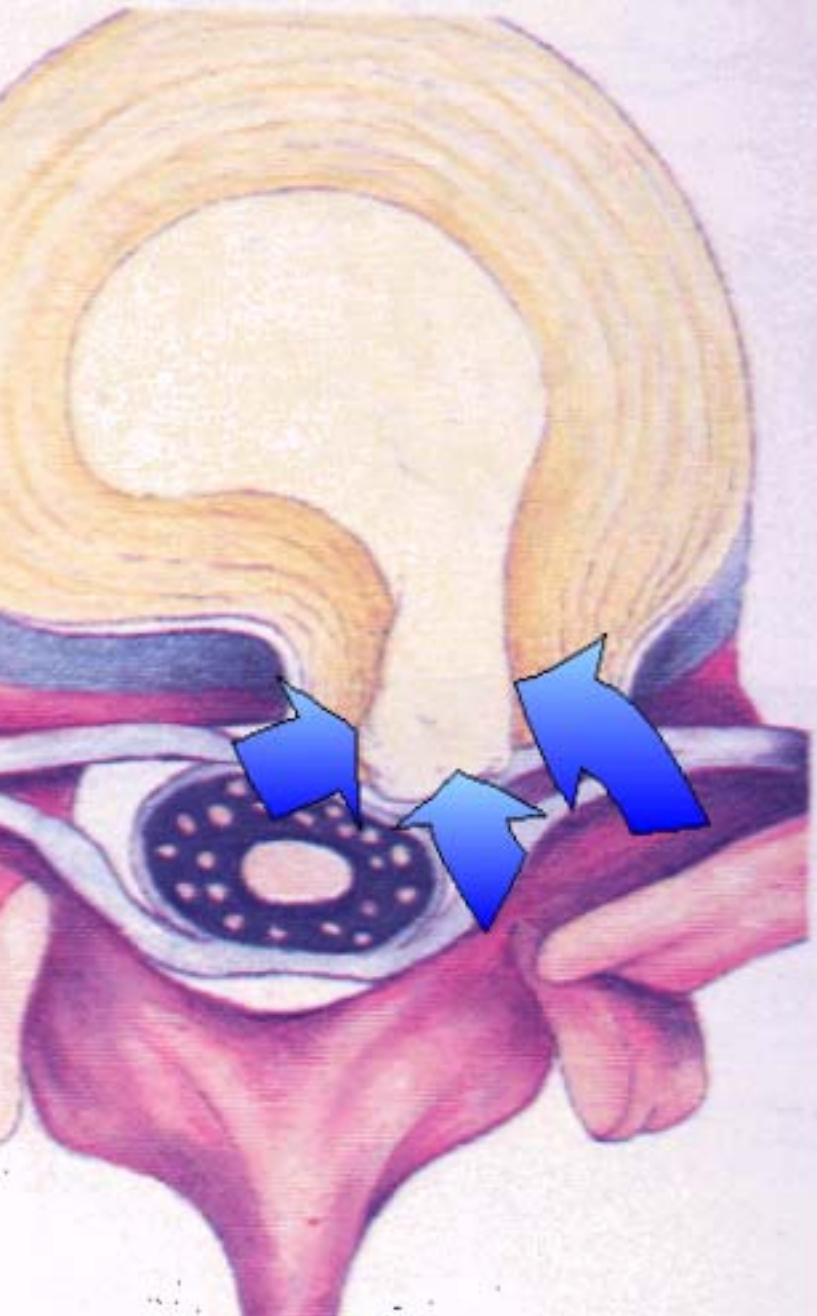




Oxygen – Ozone is injected in the paravertebral muscular masses. From here it penetrates in the spinal channel through the conjugation foramen. It touches the NEuro VAscular structures and the external part of the discal deformation.

Radicular edema and ischaemia are therefore resolved (effect NEVA) and the altered discal tissue is selectively and gradually lysated from the outside toward the inside.

(Obviously every tissue is deformed when its intermolecular bonds are altered)



The gaseous mixture enters then in contact with the deformed discal surface.

Deformed because it has altered intermolecular bonds.

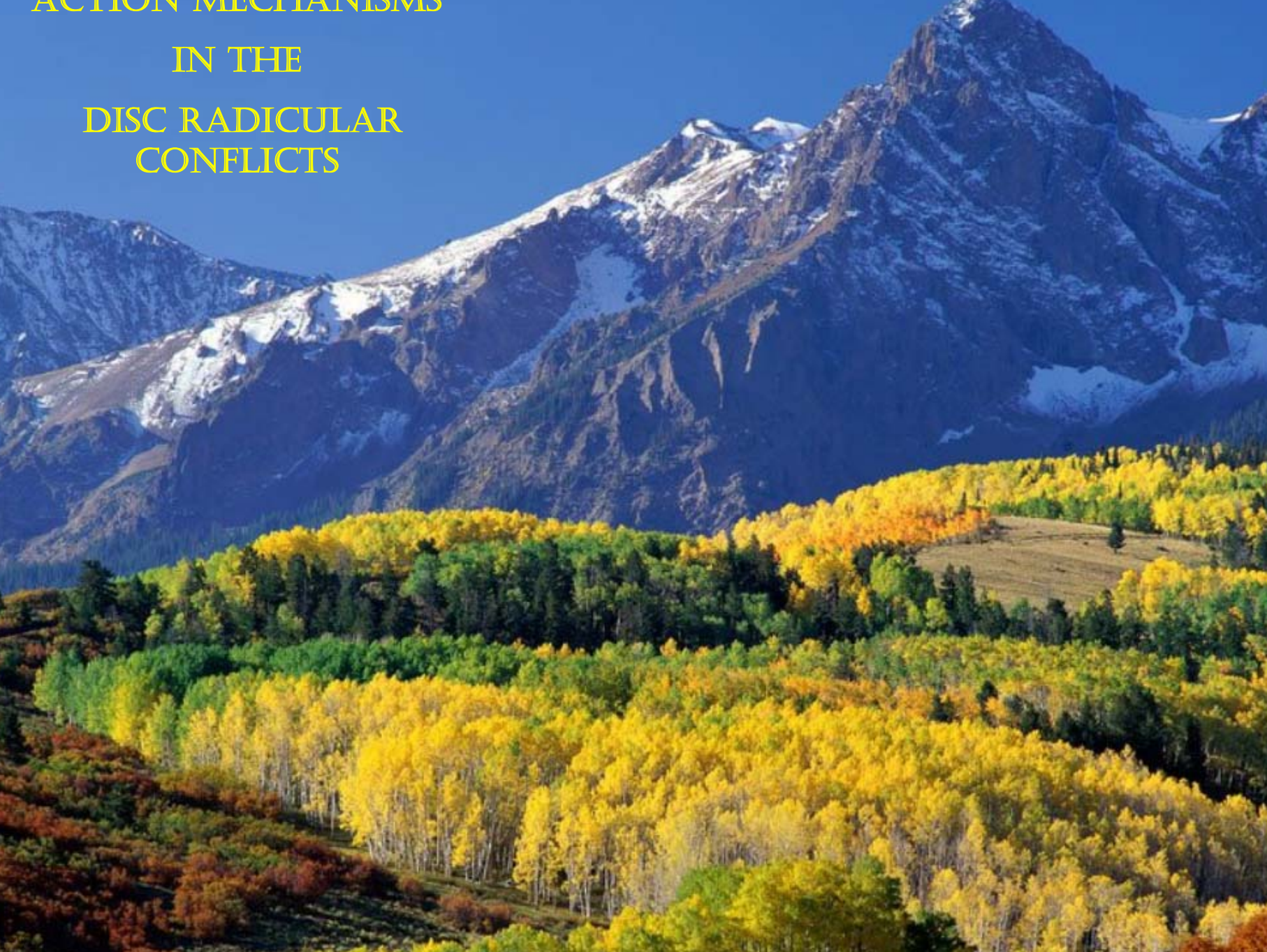
These are definitively broken from the ozone molecule, so the altered part is biologically lysate.

But, already after two weeks, ozone stimulates a new blood vessel formation in the disc, normally avascular in the adult.

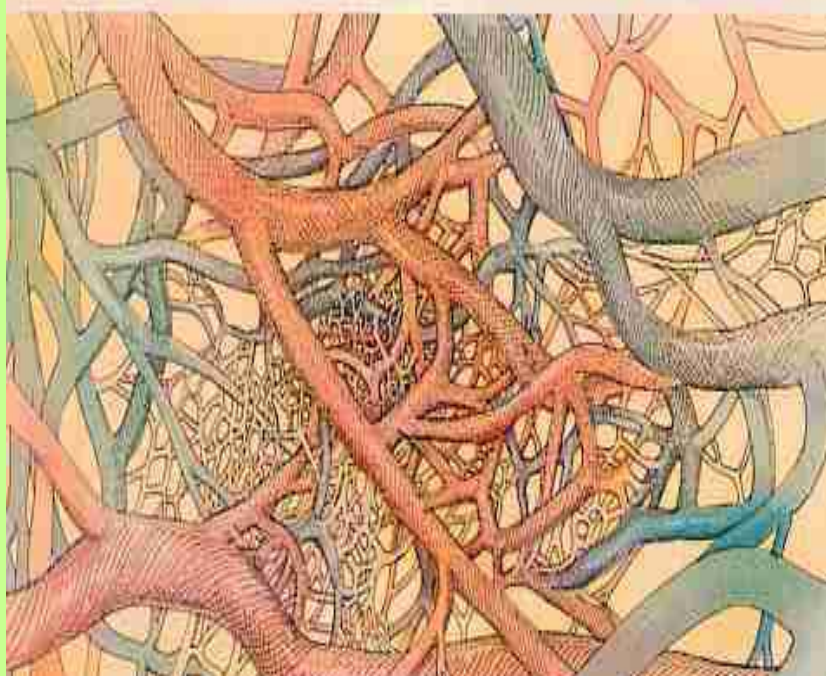
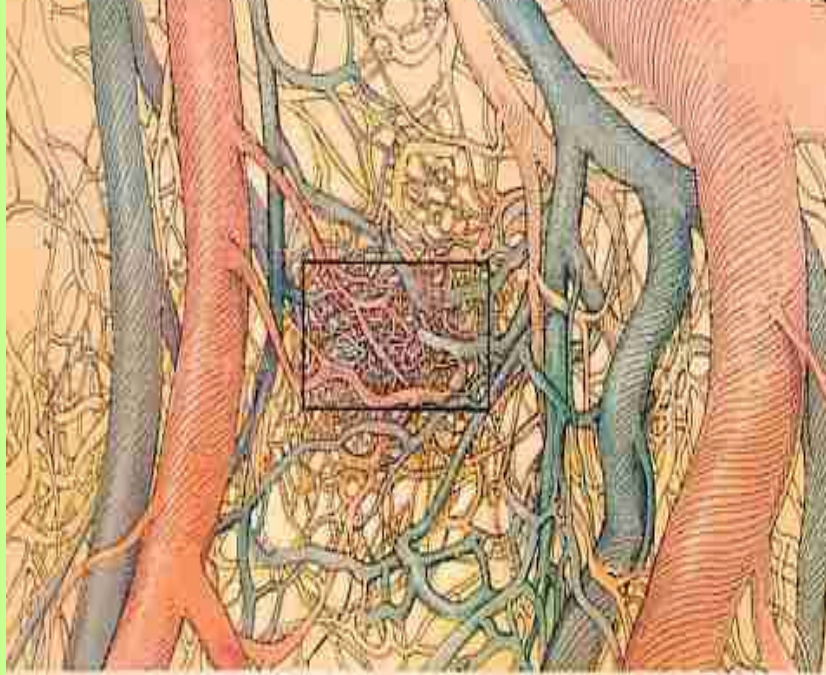
This allows a discal reconstitution from the fibroblasts recalls.

ACTION MECHANISMS

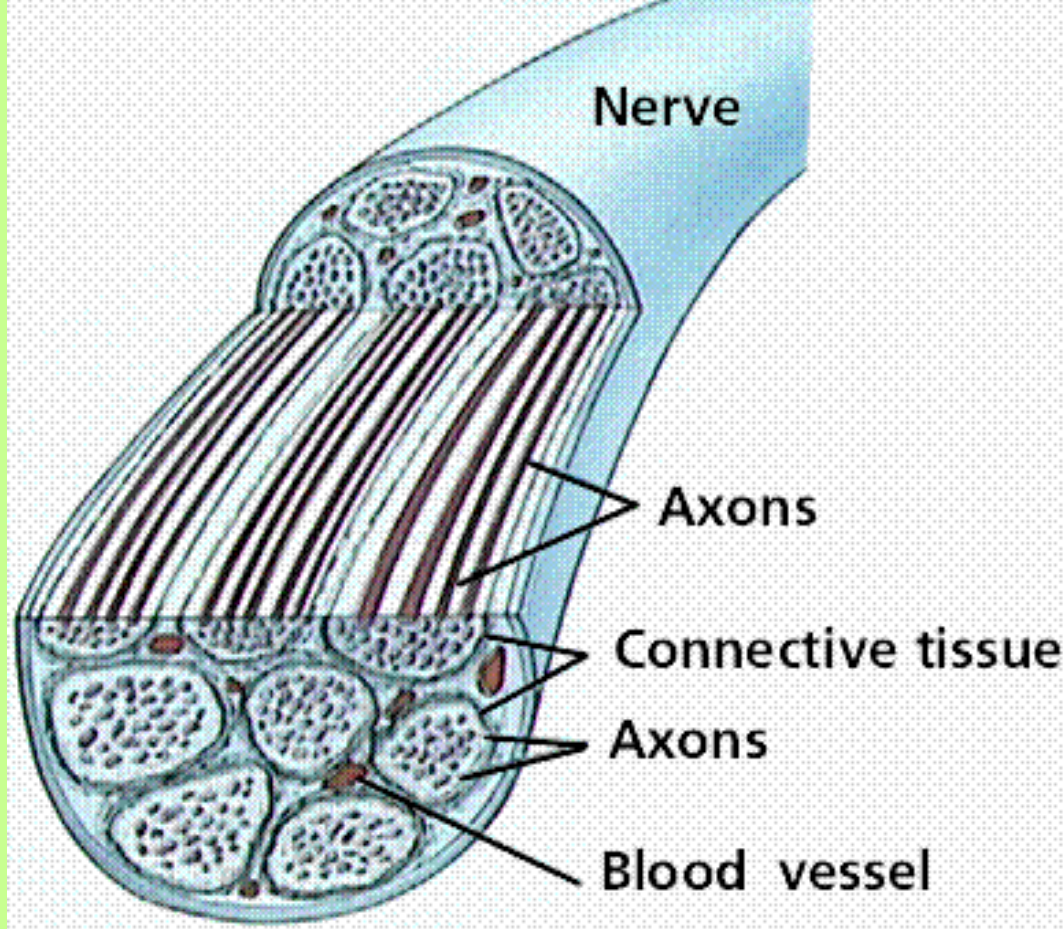
IN THE
DISC RADICULAR
CONFLICTS



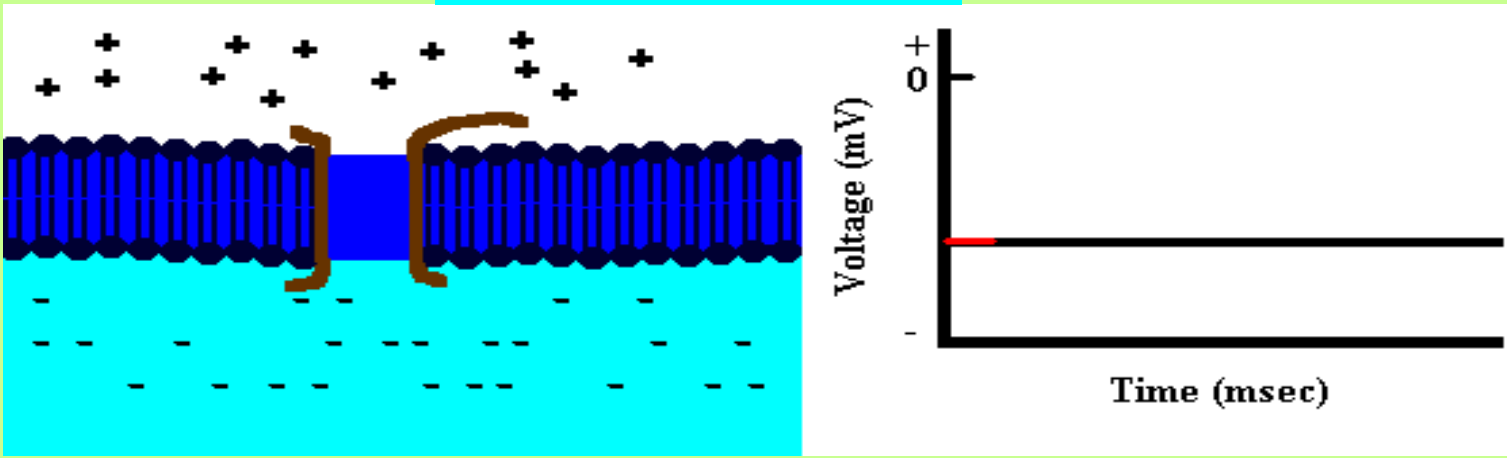
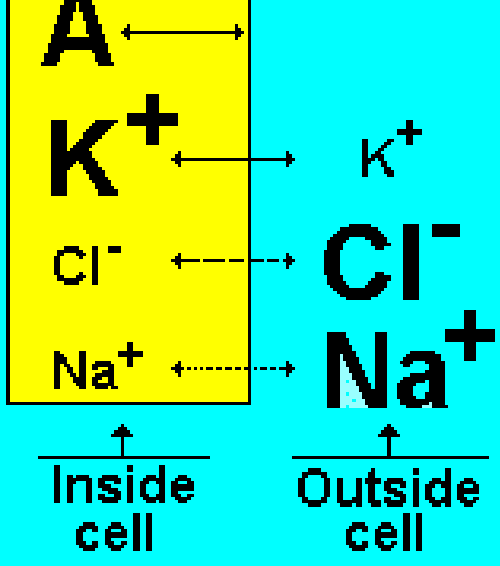
A peridiscal neovascularization is created: this takes the disc to a "new life", since it is oxygenated and supplied directly from haematic way and not only from perfusion. This explains the possible disappearing of the aseous degenerated vacuoles, sometimes present inside the disc,



often found after the treatment, and it explains also because the therapeutic effect is permanent. The relapses are, in fact, much inferiors to the manifestation, in "the healthy" population, of the same pathological phenomenon (3% against 8%).

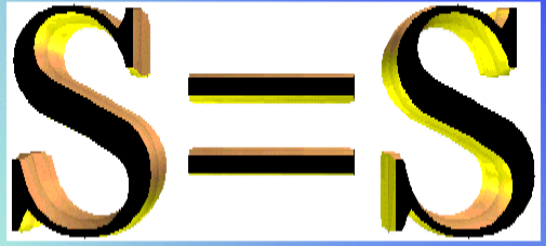


The potentialities of O_2 O_3 mixture in improving the haematic capillary perfusion and the tissues oxygenation are well known. This quality is determining in attenuating the ischemic suffering and the radicular edema.

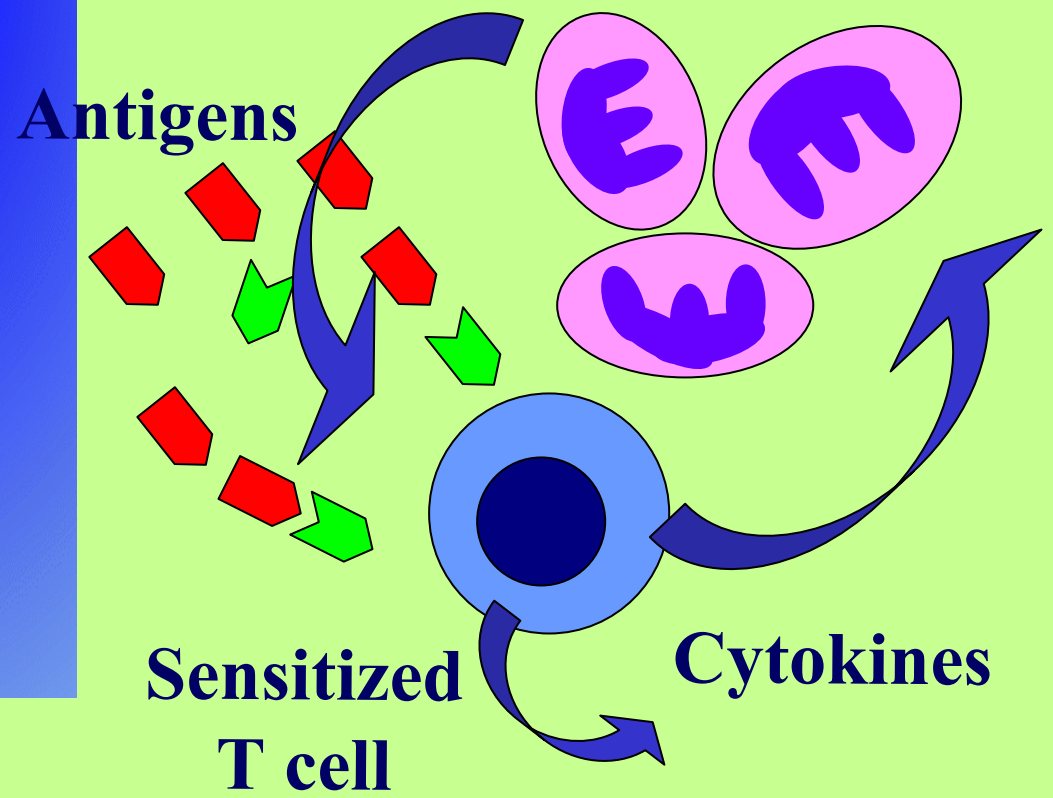


Very important is also the action of Ozone on **the repolarization of the cellular membrane**. This determines the restitio ad integrum of the cellular function and therefore of the damaged tissue. It is optimized, therefore, not only the discal component, but all the tissues surrounding the lesion

I bersagli di questa energia sono
selettivi



**Chemo taxis
and activation of
macrophages**

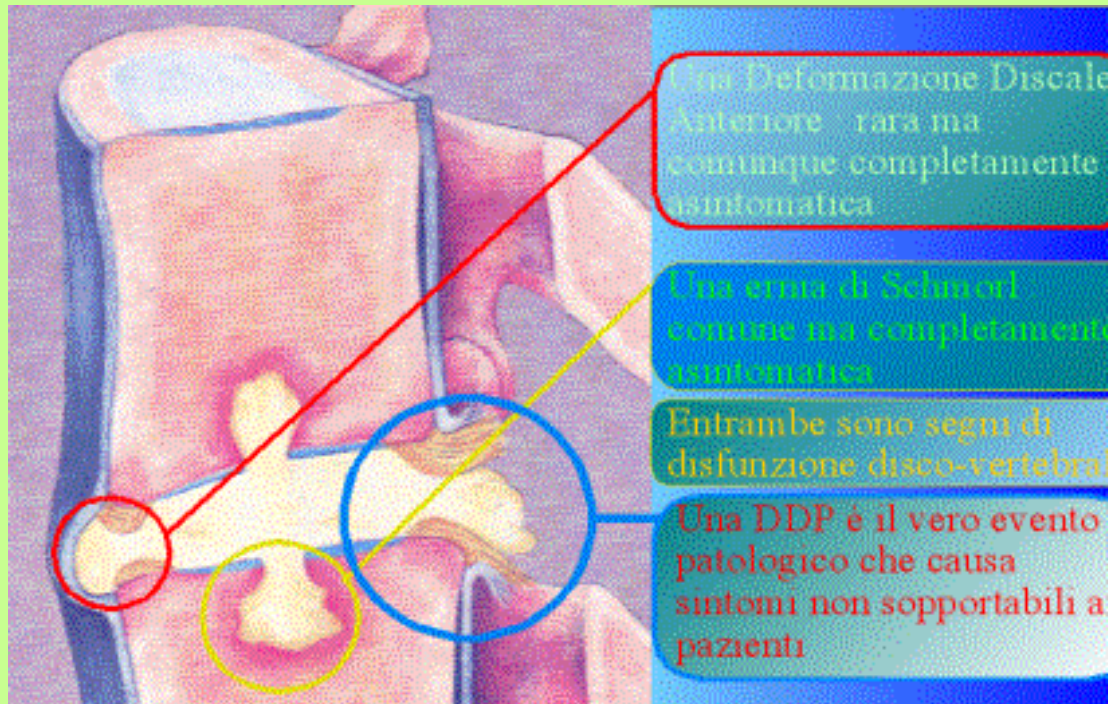


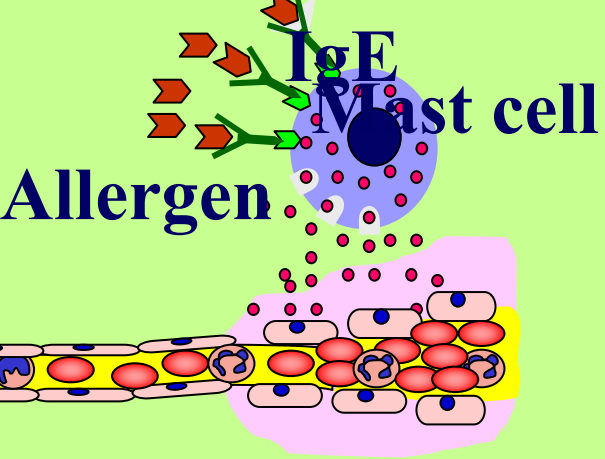
There is a directed action on the surface of the disc inside the vertebral channel: since the annulus is rich of Carbon and Sulfur double bounds, Ozone acts disintegrating such molecules and therefore "smoothing down" from the outside the protruded or herniated part. Ozone stimulates moreover the elimination of the disintegrated material through the granulocytes



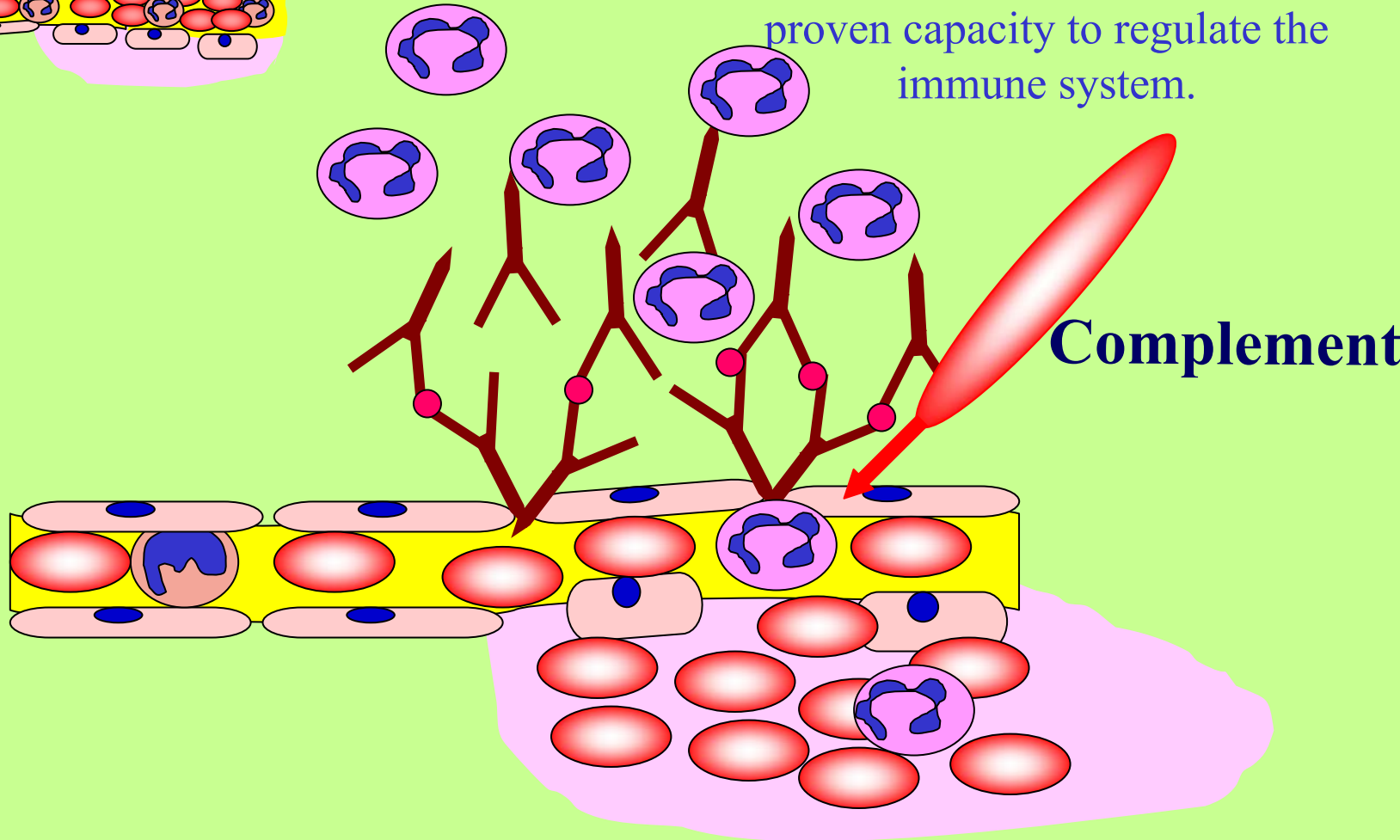
Cicatrizzante azione, already famous, of Ozone

acting on the
discal lesion





The autoimmune reaction created between the pulpy nucleus and the nervous root is effectively neutralized from the ozone, that has proven capacity to regulate the immune system.

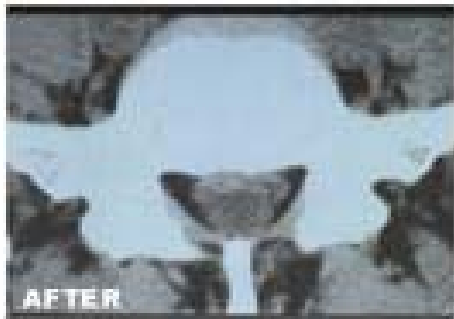
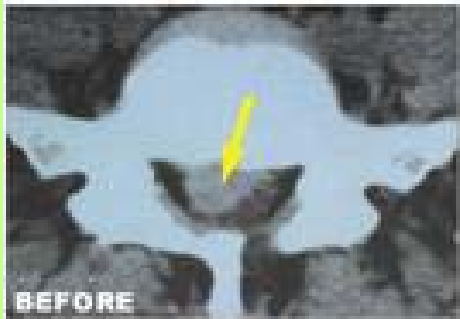


The gaseous mixture, deeply injected in the muscle, determines "a beneficial" jam, comparable to that one of **the Shiatsu**, with an energetic stimulus similar to the execution of **acupuncture** in that point; stimulus that, in difference of the needle, persists for various hours.

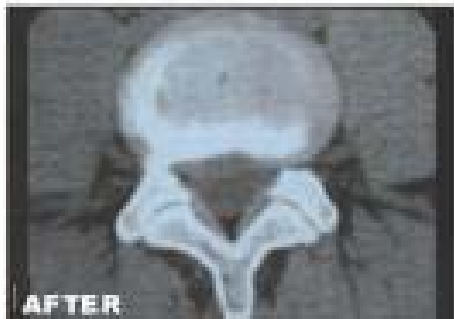
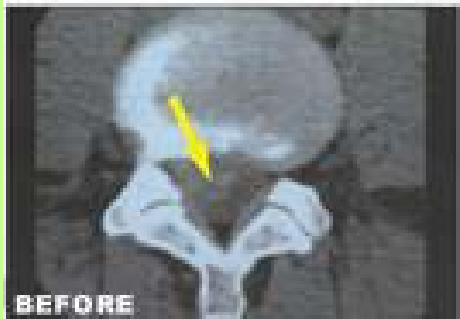


RESULTS FOR IMAGES

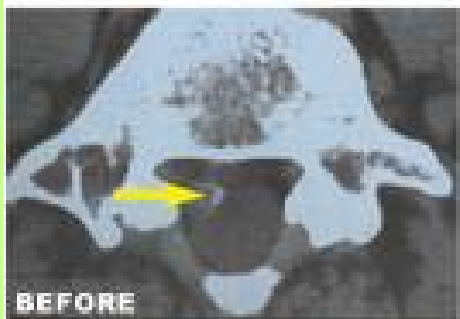




Discal hernia expelled
L5 - S1 right



Discal hernia expelled
L4 - L5 preforaminal right



Hernial fragment inferiorly
moved L4 - L5



Preforaminal discal cervical
hernia C6 - C7

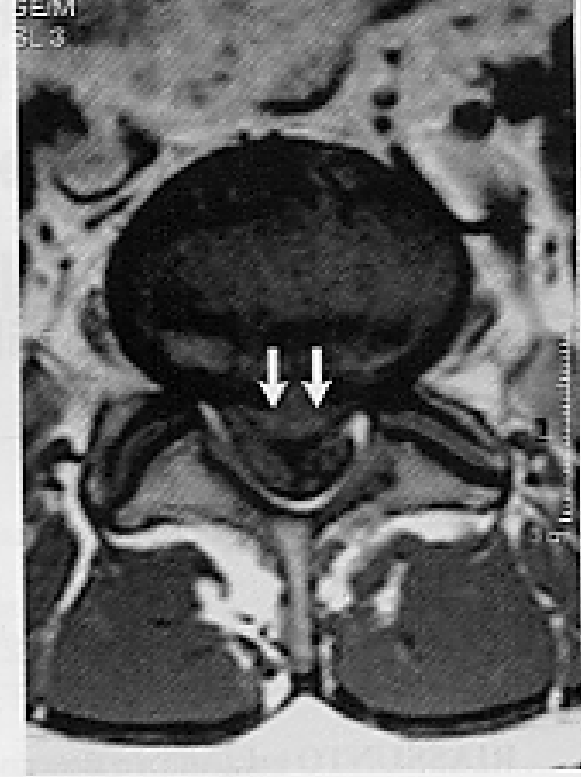
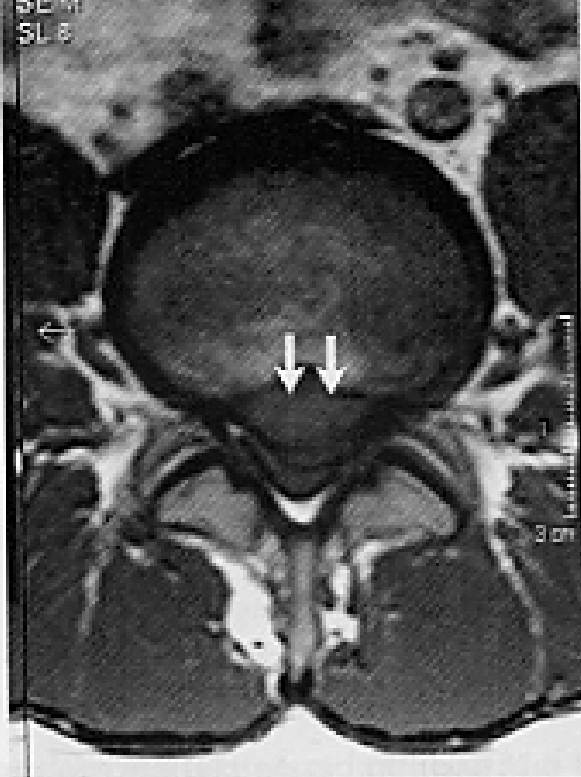
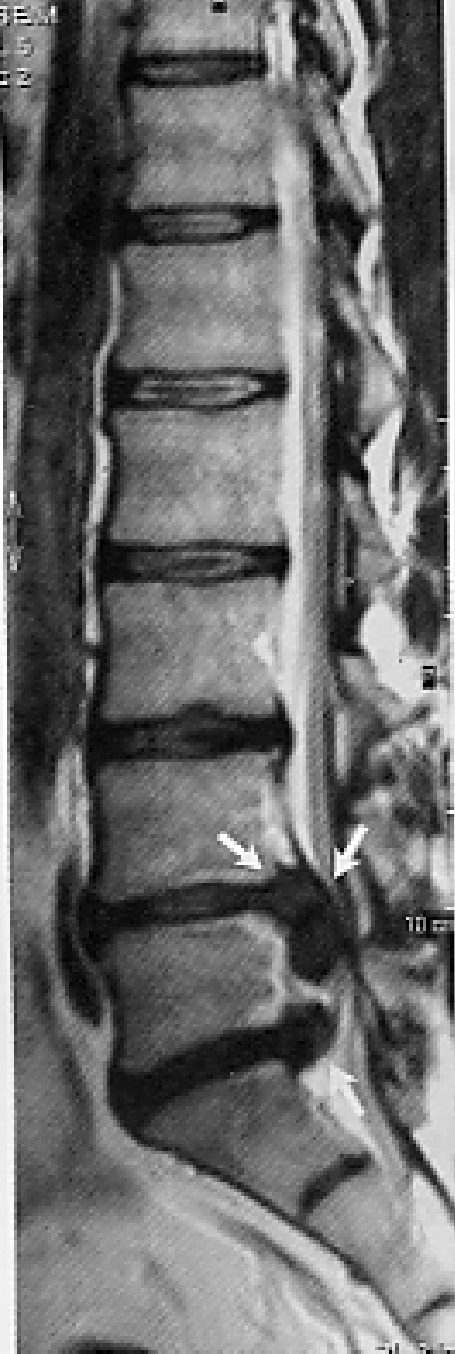


Figura 1 RM (31.10.2000)- Ernia discale espulsa L4-L5 (frece), ernia discale espulsa L5-S1 (frece): A) scansione sagittale T2 pesata, B) scansione assiale T1 dipendente ad L4-L5, C) scansione assiale T1 ad L5-S1.

Figure 1 MR scans (31.10.2000) L4-L5 herniated disc protrusion (arrows). A) T2-weighted sagittal scan, B) T1-weighted axial scan of L4-L5, C) T1-weighted axial scan of L5-S1.

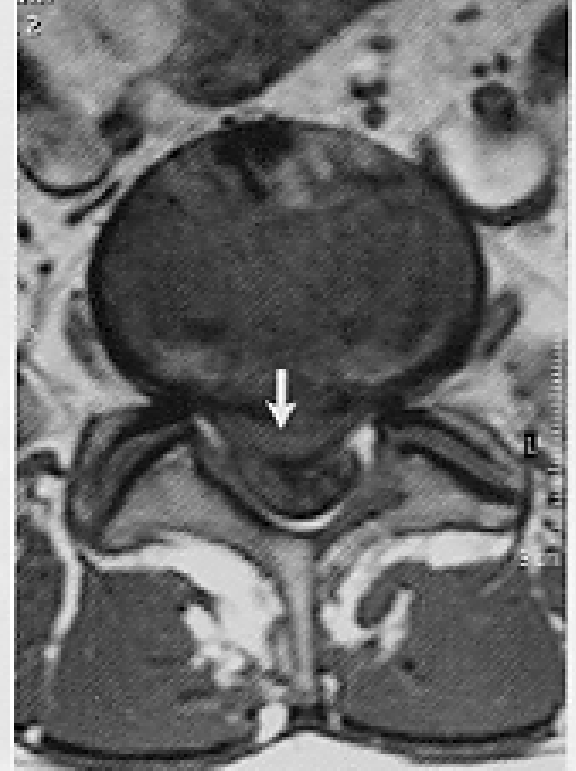
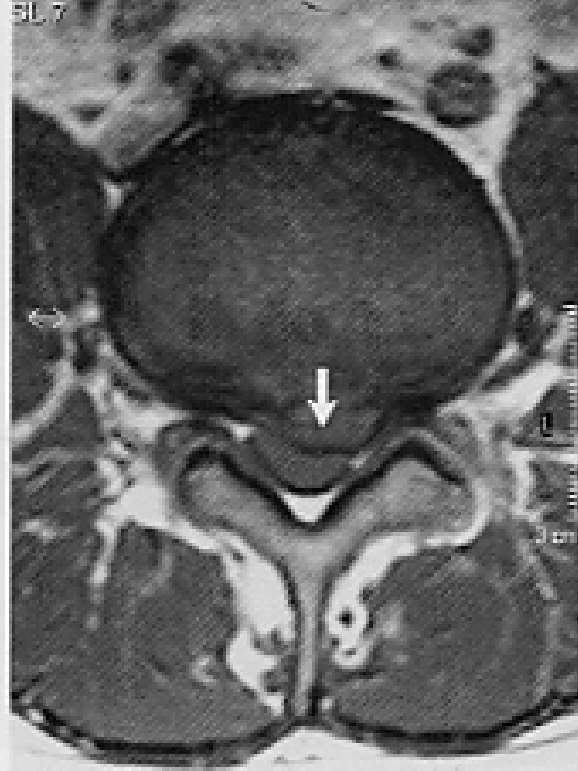
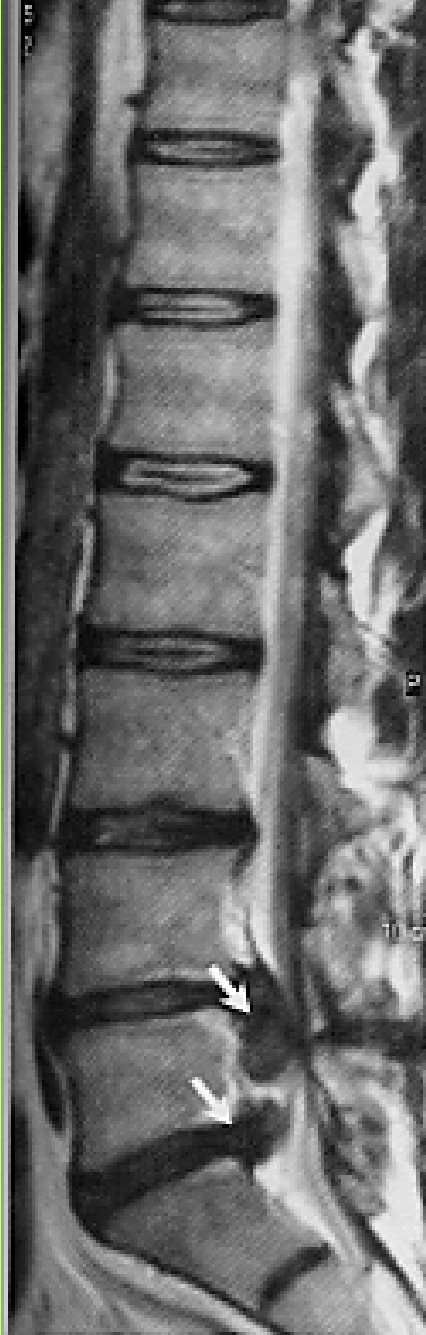


Figura 2 RM (22.11.2000)-Iniziale riduzione volumetrica dell'ernia L4-L5: A) scansione sagittale T2 pesata, B) scansione assiale T1 dipendente ad L4-L5, C) scansione assiale T1 ad L5-S1.
Figure 2 MR scans (22.11.2000) Initial reduction in size of the L4-L5 herniation: A) T2-weighted sagittal scan, B) T1-weighted axial scan of L4-L5, C) T1-weighted axial scan of L5-S1.

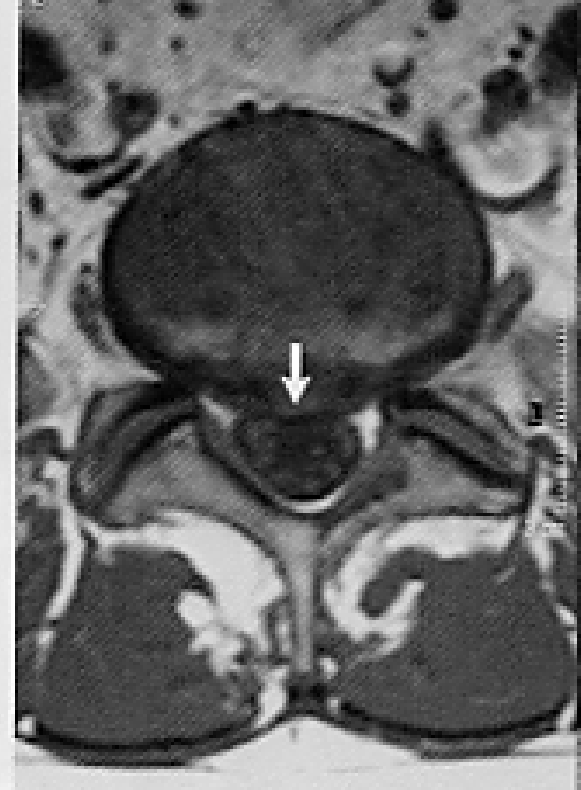
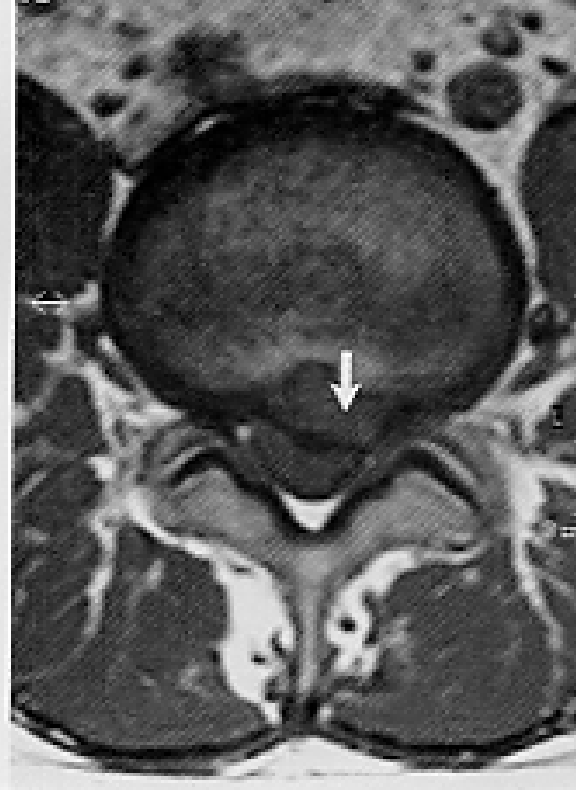


Figura 3 RM (31.01.2001)- Notevole riduzione volumetrica sia dell'ernia L4-L5 che L5-S1: A) scansione sagittale T2 pesata, B) scansione assiale T1 dipendente ad L4-L5, C) scansione assiale T1 ad L5-S1.

Figure 3 MR scans (31.01.2001) Marked reduction in the size of both L4-L5 and L5-S1 herniations. A) T2-weighted sagittal scan, B) T1-weighted axial scan of L4-L5, C) T1-weighted axial scan of L5-S1.

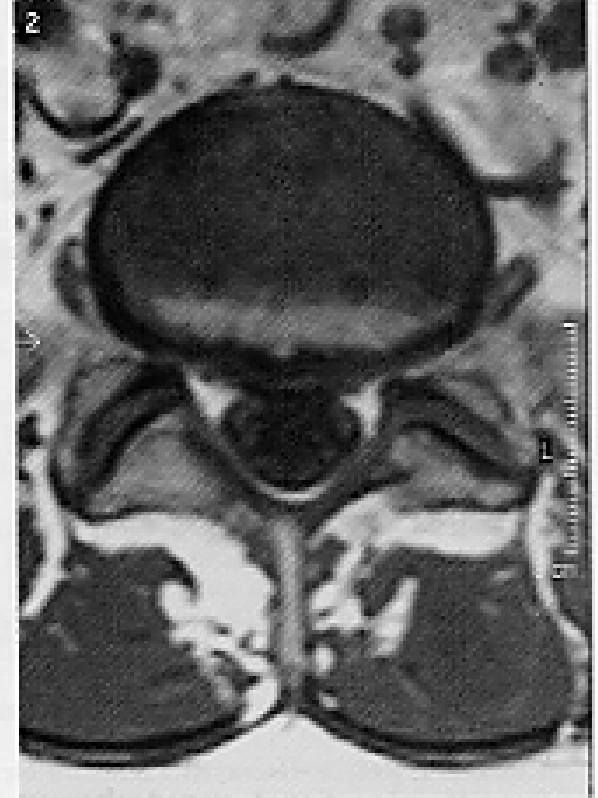


Figura 4 RM (11.06.2001)- Completa scomparsa delle ernie L4-L5 ed L5-S1: A) scansione sagittale T2 pesata, B) scansione assiale T1 dipendente ad L4-L5, C) scansione assiale T1 ad L5-S1.

Figure 4 A-C MR scans (11.06.2001) Complete disappearance of L4-L5 and L5-S1 herniations. A) T2-weighted sagittal scan, B) T1-weighted axial scan of L4-L5, C) T1-weighted axial scan of



31-10-2000



22-11-2000



31-01-2000
(3 months)



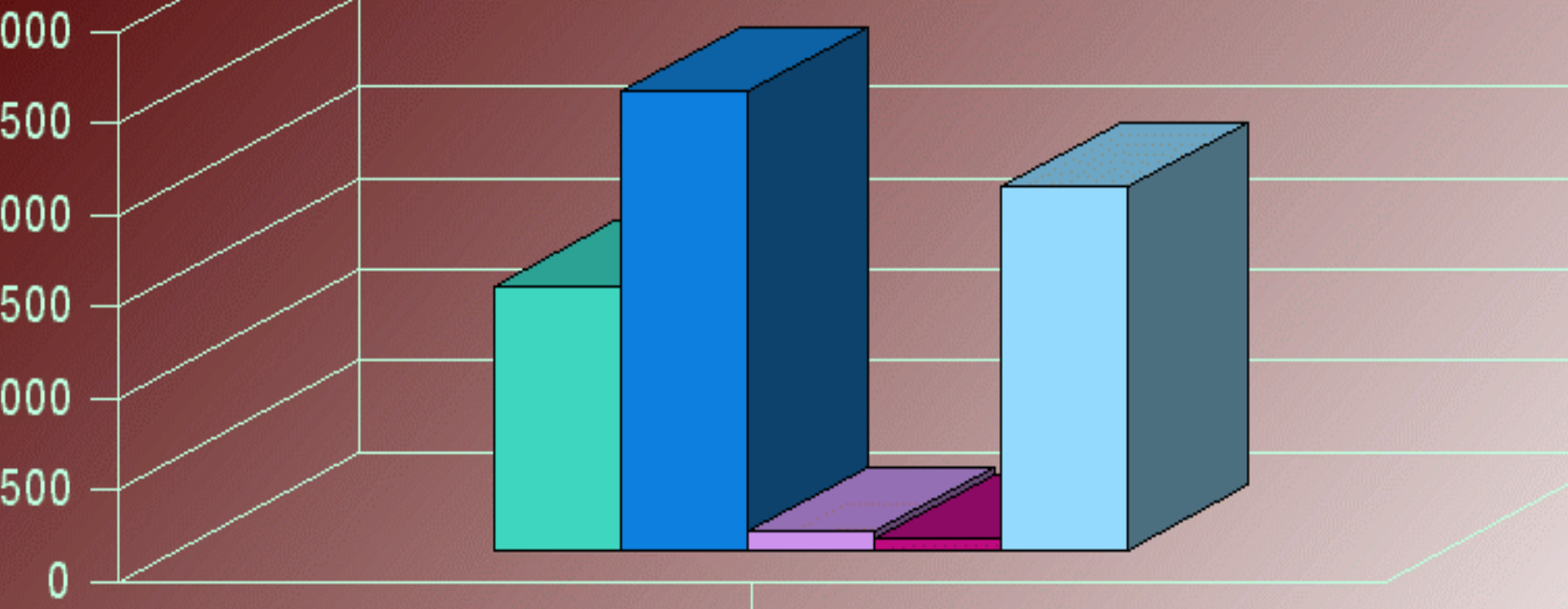
11-06-2001
(8 months)



Let's the numbers speak

Analisi casistica della dissectomia aperta secondo 5

autori



Semmes



Spangfort



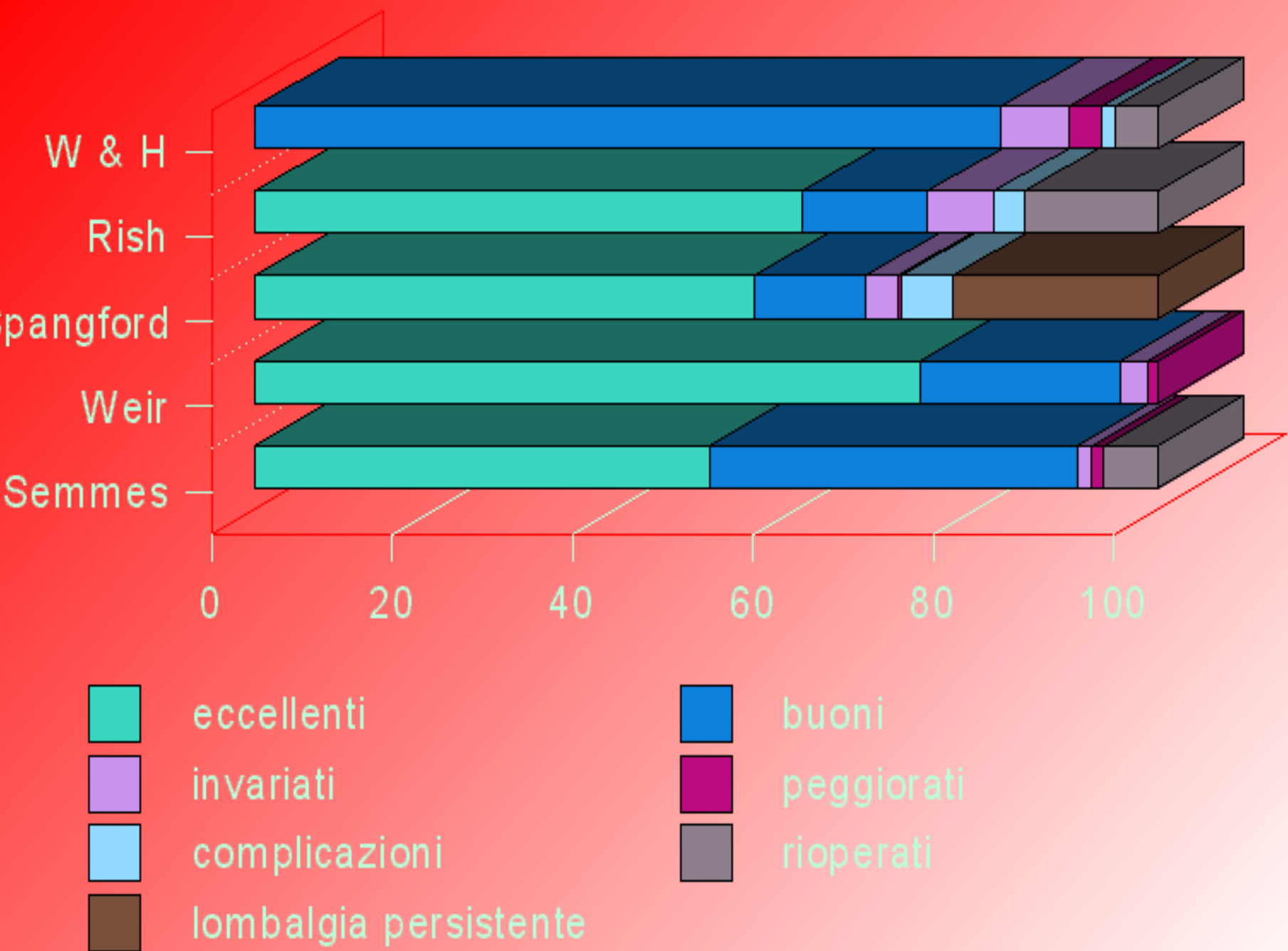
Weir



Rish



Williams & Hudgins



O₂O₃ PARAVERTEBRAL INJECTIONS

PATIENTS HEALED

70%

HOW ?

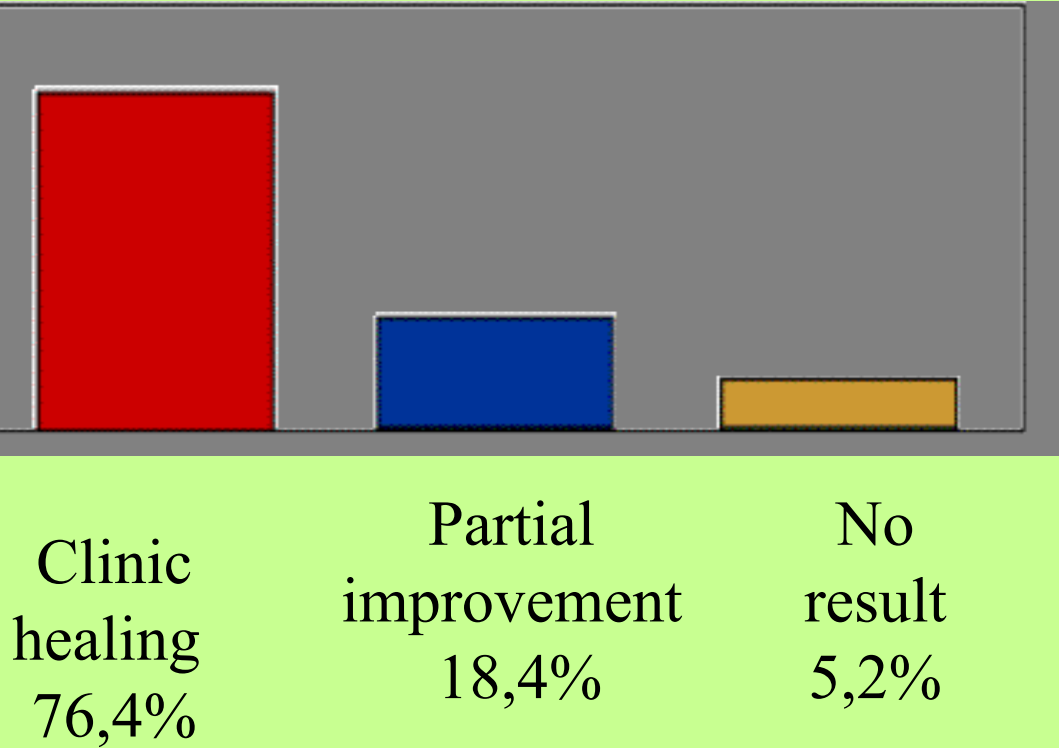
80%

How long ?



>90% = DISCOSAN

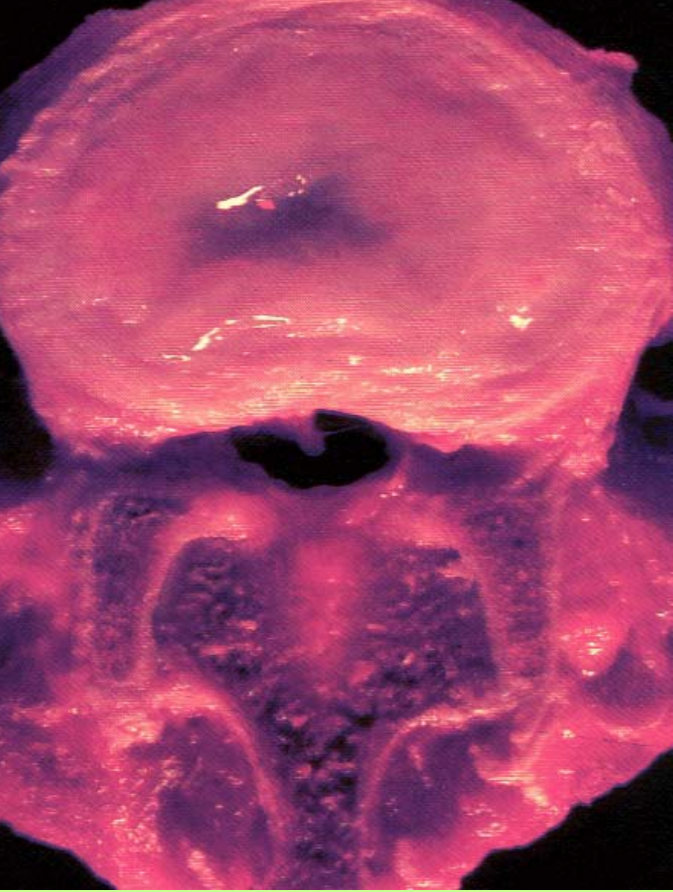
Effectiveness in 1128 cases of discal hernia treated with Oxygen - Ozone therapy.



The maximum number of sitting executed in the protocol was 15.

Da un poster presentato al congresso mondiale di Ossigeno Ozono terapia (Verona 1999) dalla SIOOT

Autori: F. Bertè, M. Bonetti, M. Franzini, P. Richelmi, L. Valdenassi.

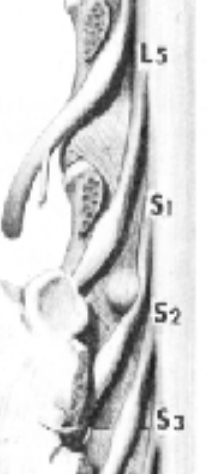


DISCOSAN METHOD

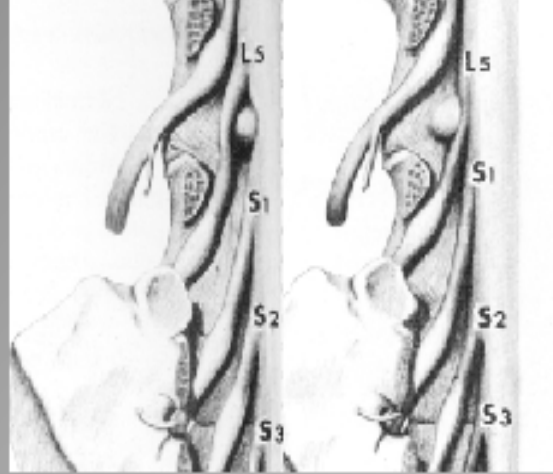
DOTT. CESARE
VERGA

1984

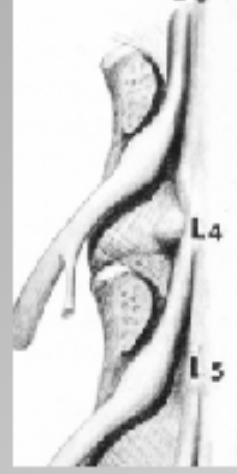




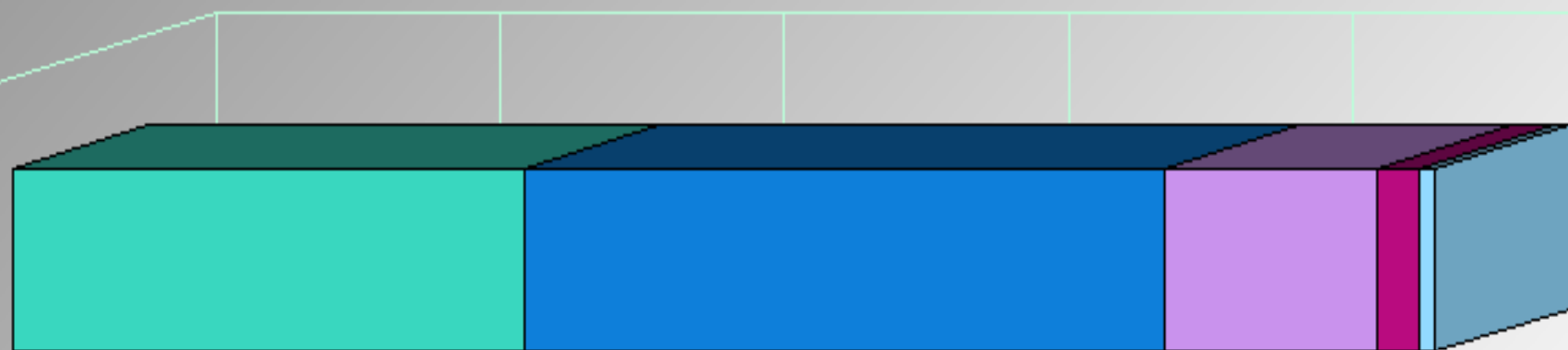
L5-S1



L4-L5



L3-L4



20

40

60

80

100

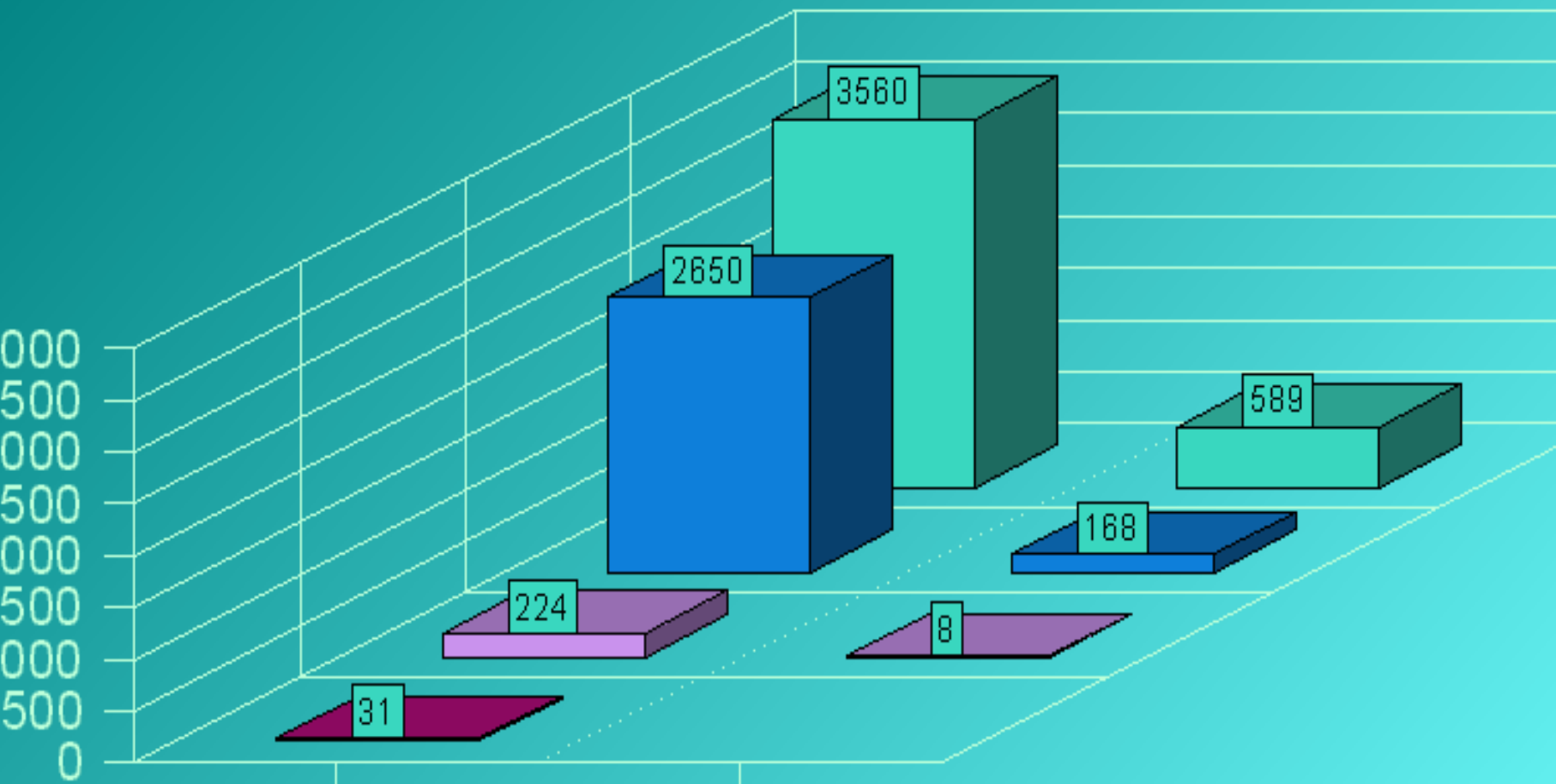
L5-S1

L4-L5

L3-L4

L2-L3

L1-L2



Lomb

Cerv



1 spazio



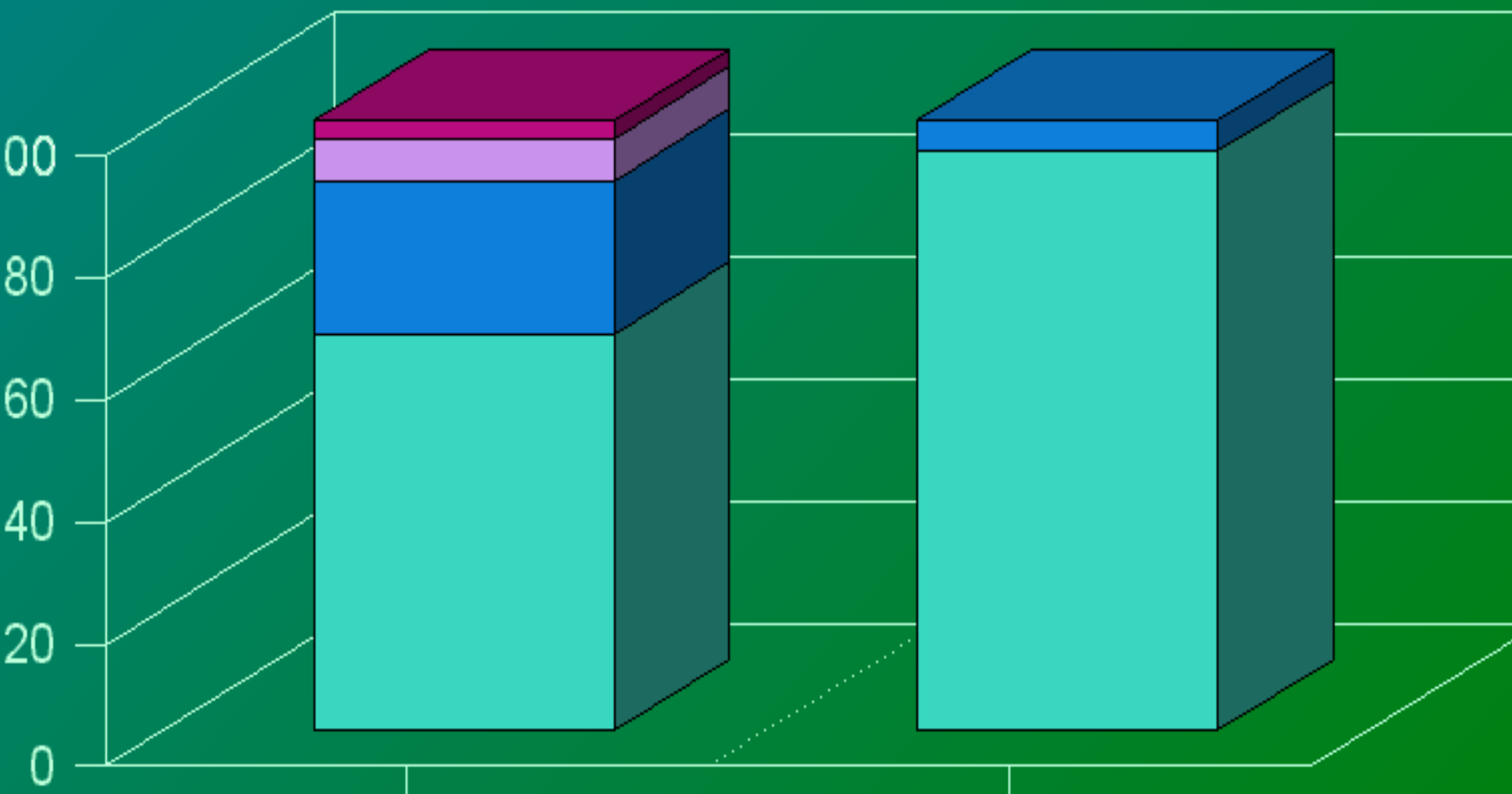
2 spazi



3 spazi



4 o più



3 o più volte

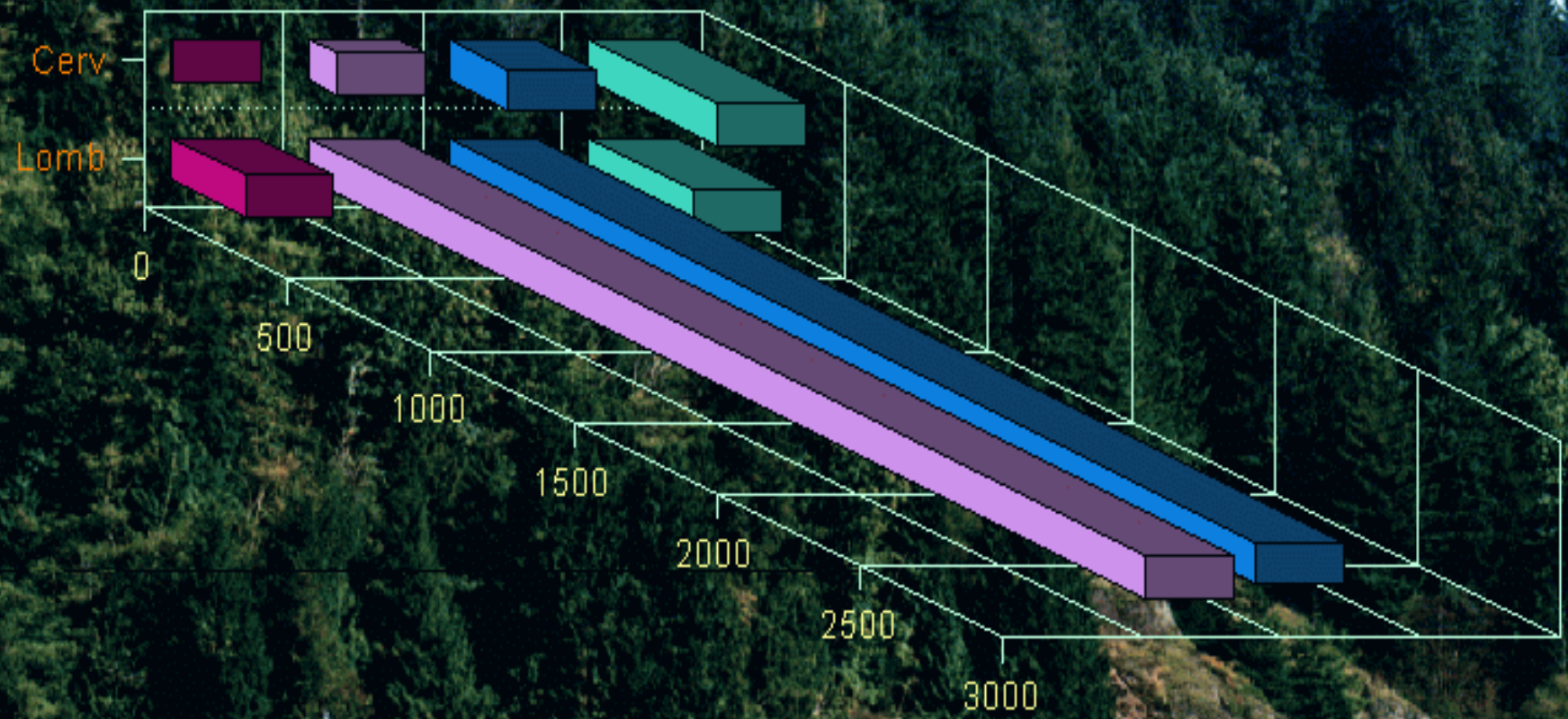
Operati 1 volta



operati 2 volte

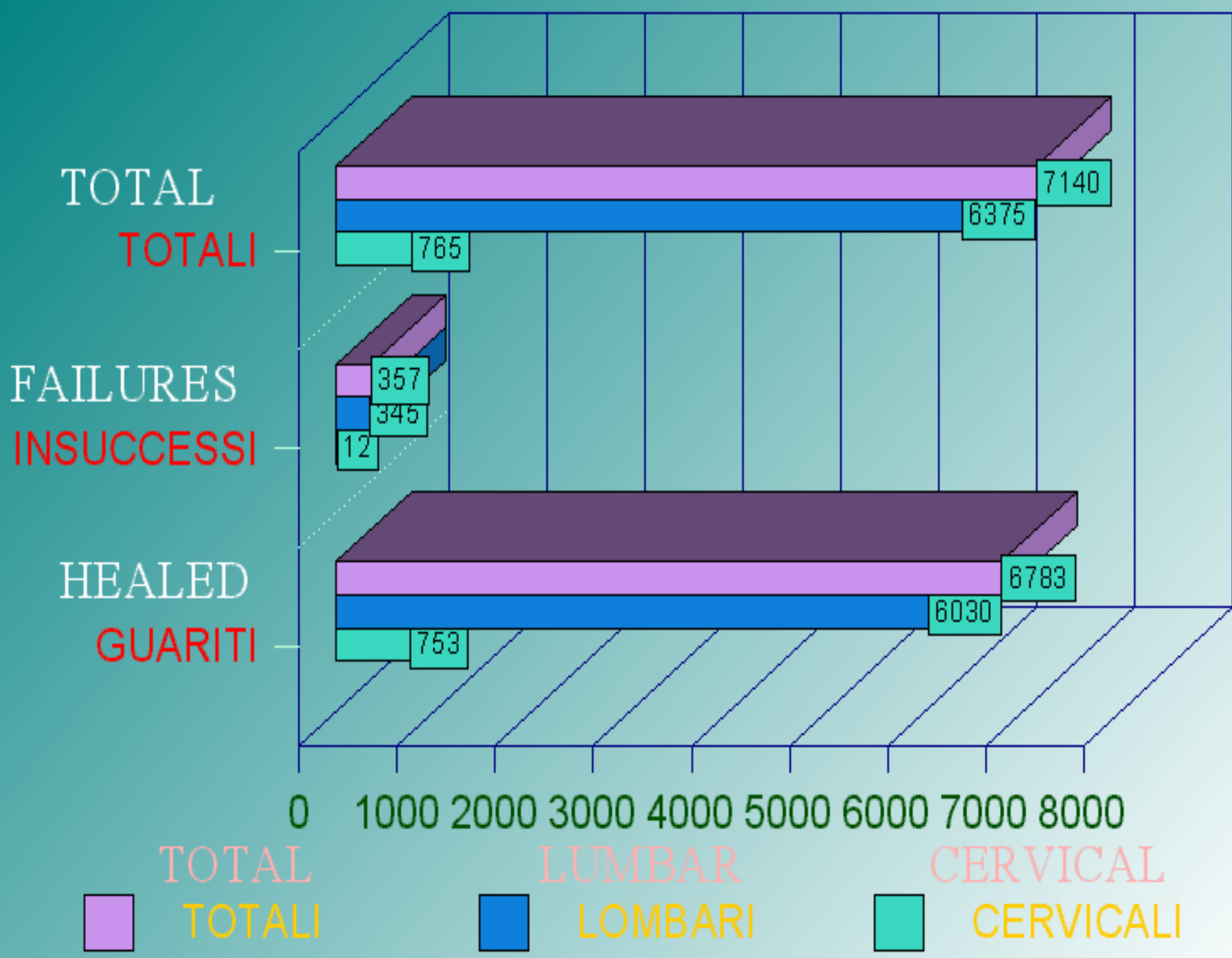
Non operati

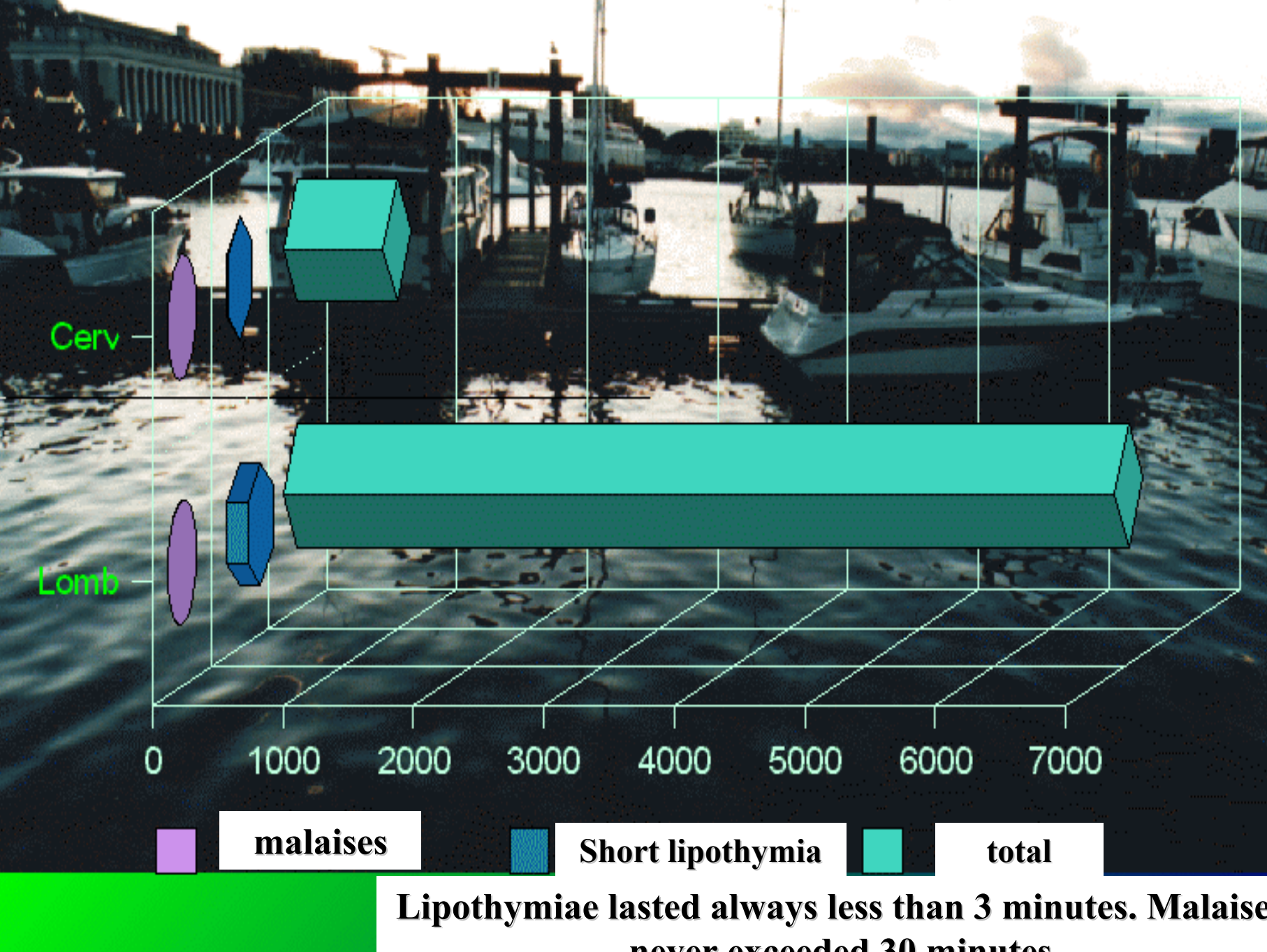
NUMBER OF SITTINGS BEFORE HEALING



■ Più di 20 ■ 13-20 ■ 8/12 ■ Meno di 8

Numero di sedute prima della guarigione





Lipothymiae lasted always less than 3 minutes. Malaise never exceeded 30 minutes

REMEMBER

DIAGNOSIS

Gauge: 30/50 mm

Concentration: 25/30 μ

Amount for injection: 10/20 cc.

Duration of therapy:

Until healing !!!



THE SAFETY AND THE
POTENTIALITIES OF
DISCOSAN TREATMENT
ARE THE MAXIMUM IN
ITS FIELD OF
APPLICATION



Is it a
bird?

NO



Is it a
seal?

NO

It is a
Ornithorhynchus

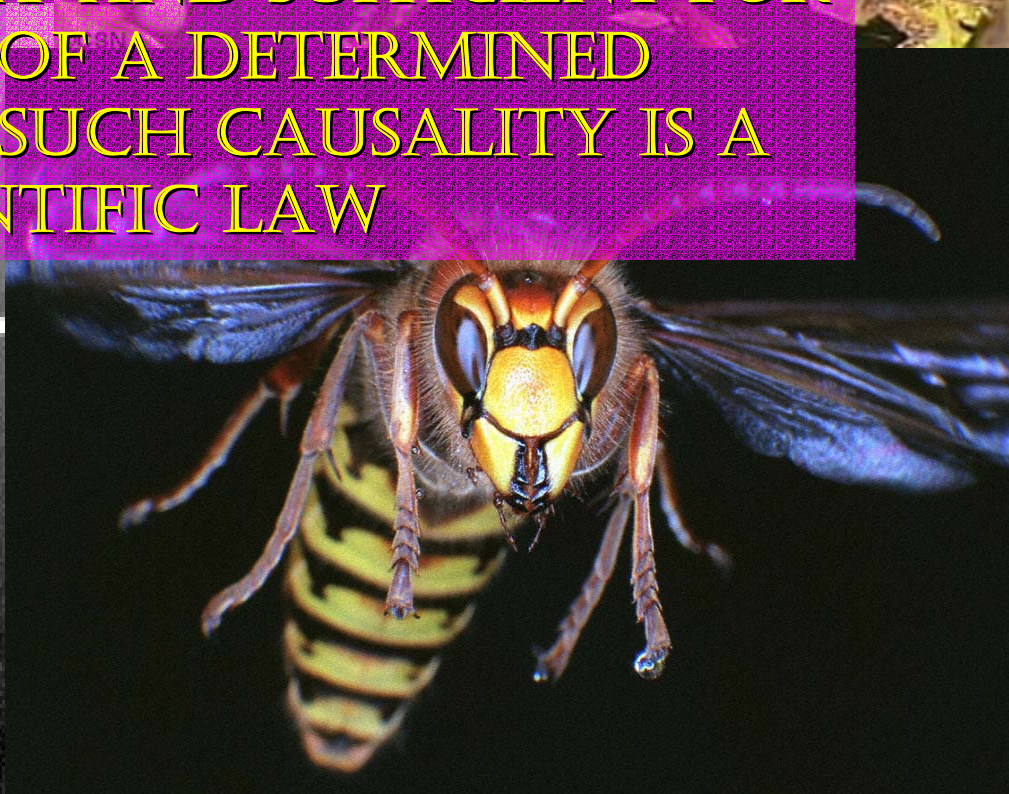


**Nature originates also
what is difficultly
configuring from
Man.**

**But it is however
truth.**



IF THE CONDITION EXISTS FOR WHICH A FACT IS NECESSARY AND SUFFICIENT FOR HAPPENING OF A DETERMINED PHENOMENON, SUCH CAUSALITY IS A SCIENTIFIC LAW

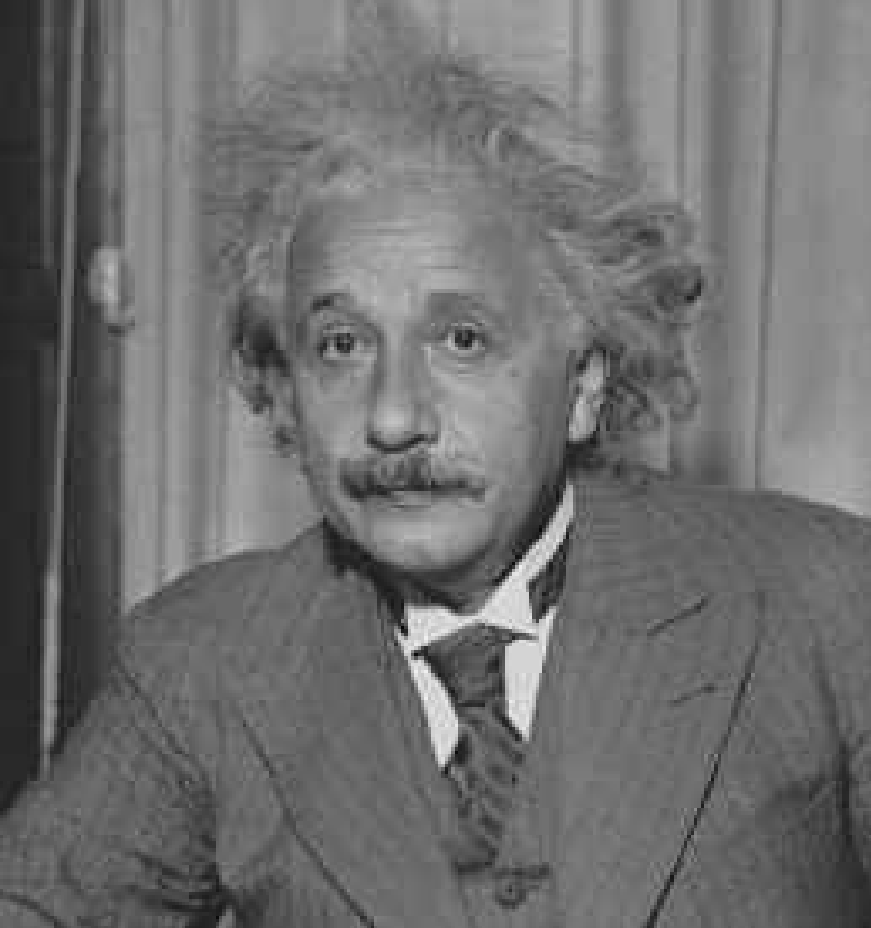




**Every new theory passes through
three phases:**

- 1. It is attacked and declared
absurd**
- 2. Then it is admitted that it is true
and obvious, but insignificant**
- 3. To the end it is recognized the
real importance and its
detractors demand the honor to
have discovered it**

William James



“The true value of a person is revealed from his ability to reach the freedom from himself ”



Thank you