

# The Science and Art of Orthopaedics

University of Otago Staff Group

17 February 2023

John Matheson





A. Hamblot del. Guillard Sculp.

# L'ORTHOPE'DIE

OU

## L'ART

DE PREVENIR ET DE CORRIGER  
DANS LES ENFANS,  
LES DIFFORMITÉS DU CORPS.

LE TOUT PAR DES MOYENS A LA PORTE'E  
des Peres & des Meres, & de toutes les  
Personnes qui ont des Enfans à élever.

PAR M. ANDRY, CONSEILLER DU ROY,  
Lecteur & Professeur en Médecine au Collège Royal,  
Docteur-Régent, & ancien Doyen de la Faculté de  
Médecine de Paris, &c.

Avec Figures.

TOME PREMIER.



A PARIS, RUE SAINT JACQUES.

Chez } La Veuve ALIX, au-dessus de la rue des  
          Noyers, au Griffon.  
          LAMBERT & DURAND, à la Sagesse,  
          & à Saint Landry.

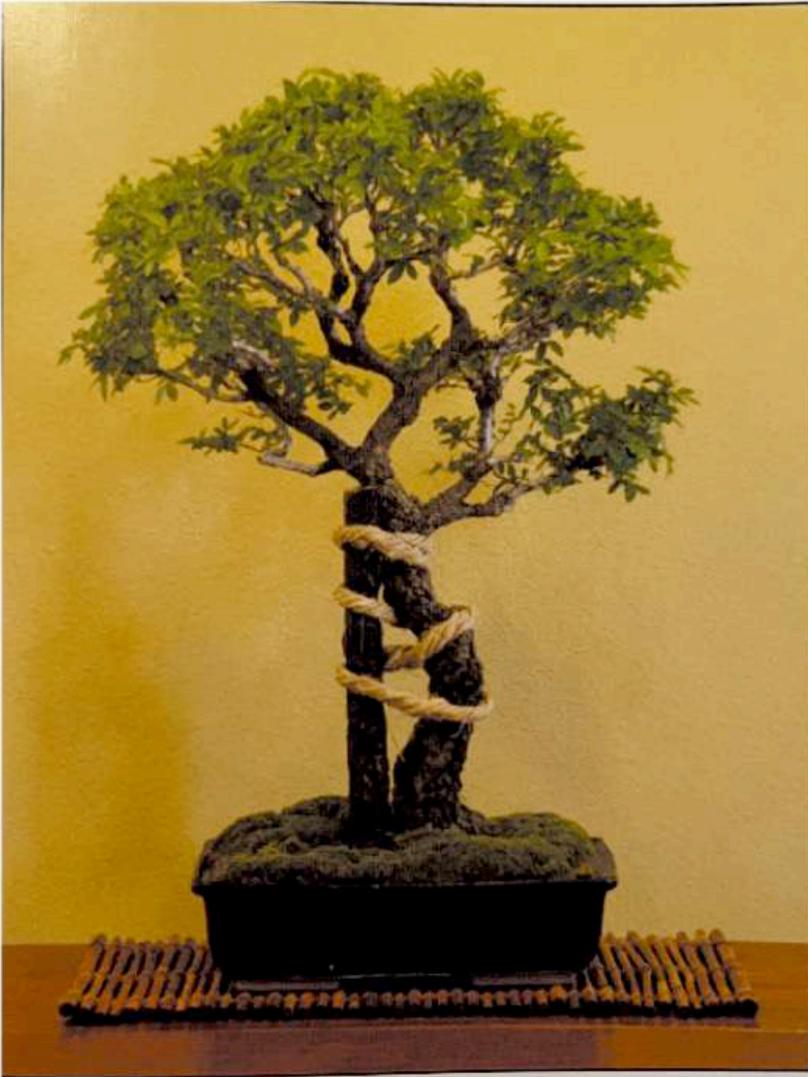
M. DCC. XLI.

AVEC APPROBATIONS ET PRIVILEGE DU ROY



# The Living Orthopaedic tree

Montri Wongworawat MD



Metal sculpture depicting  
SCOLIOSIS – Curvature of the Spine

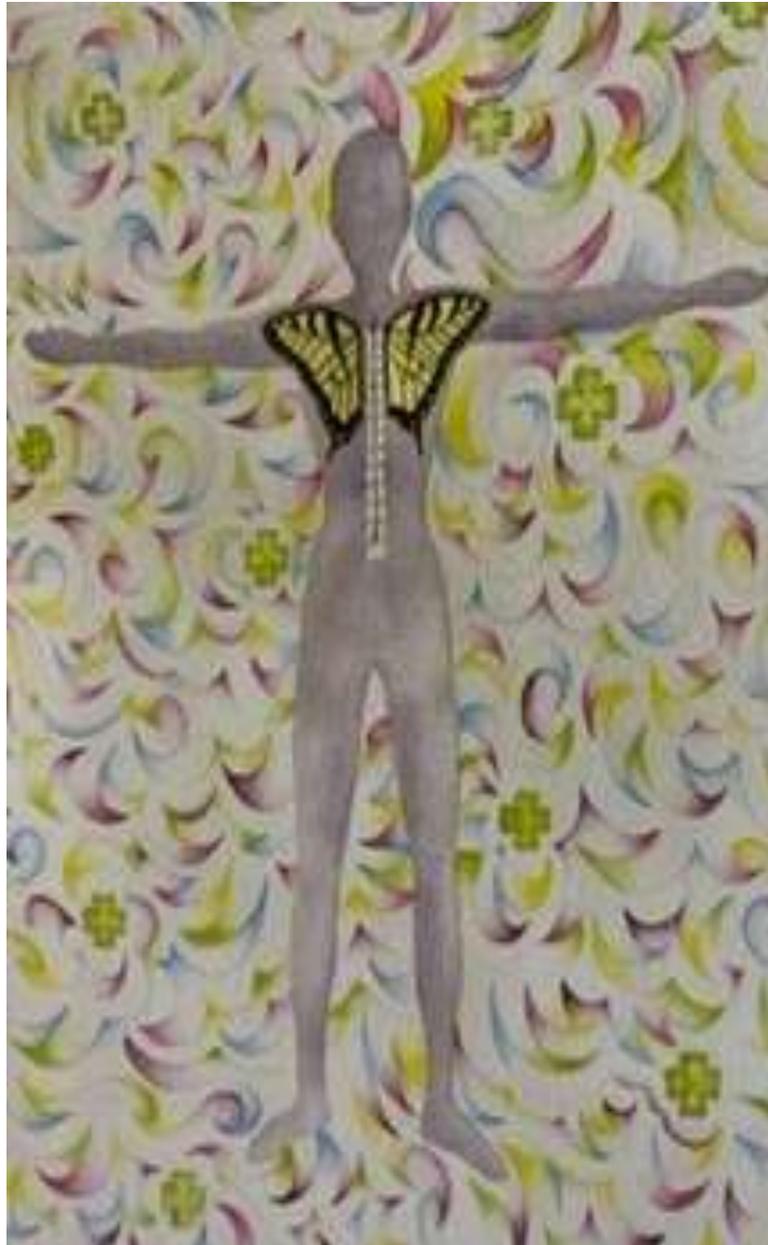
Gary Brazina MD

Metals like patients respond  
differently to heat and treatment



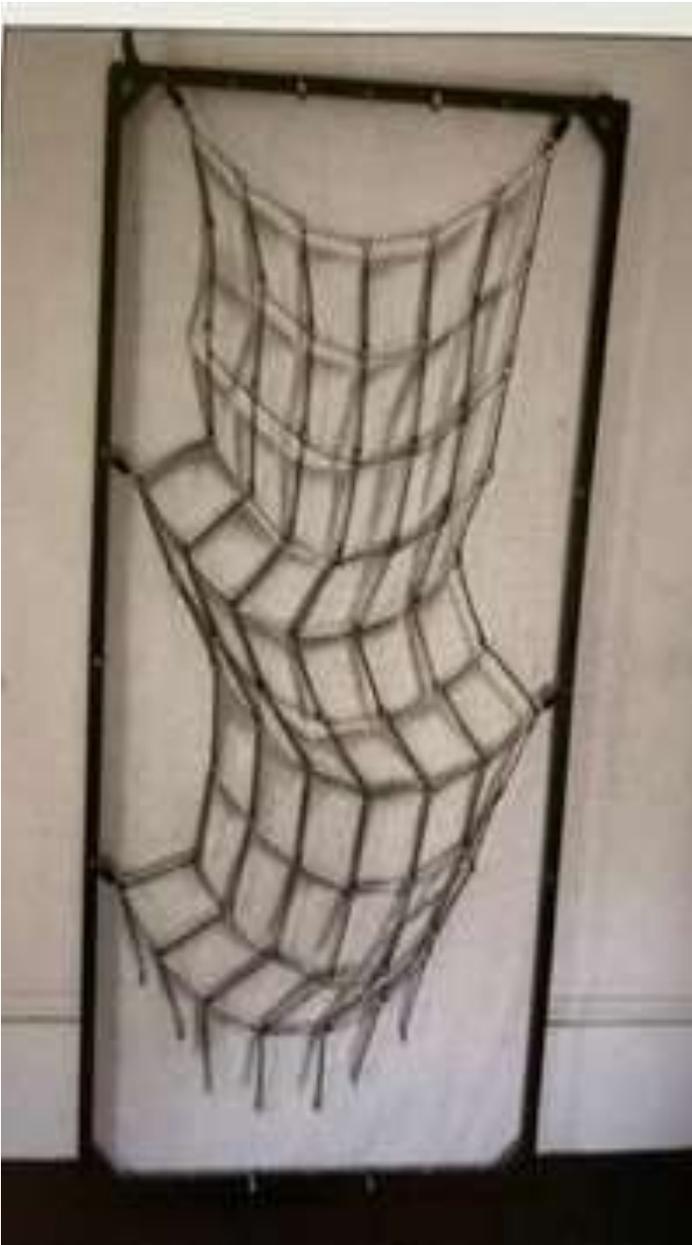


“Vinyl Skin” Jessie Grskovick  
Scoliosis brace



“Butterfly”  
Celeste Collier

Transformation  
After spinal  
fusion surgery



Mixed media

Andrea  
Hart

Represents  
Scoliosis

Paper on  
Frame



Degeneration

Siobhan  
Egan

Photography

Depicting discs  
as doughnuts  
with jelly  
centres





Knee Osteoarthritis



“Opposing Forces”  
Patricia Cairns



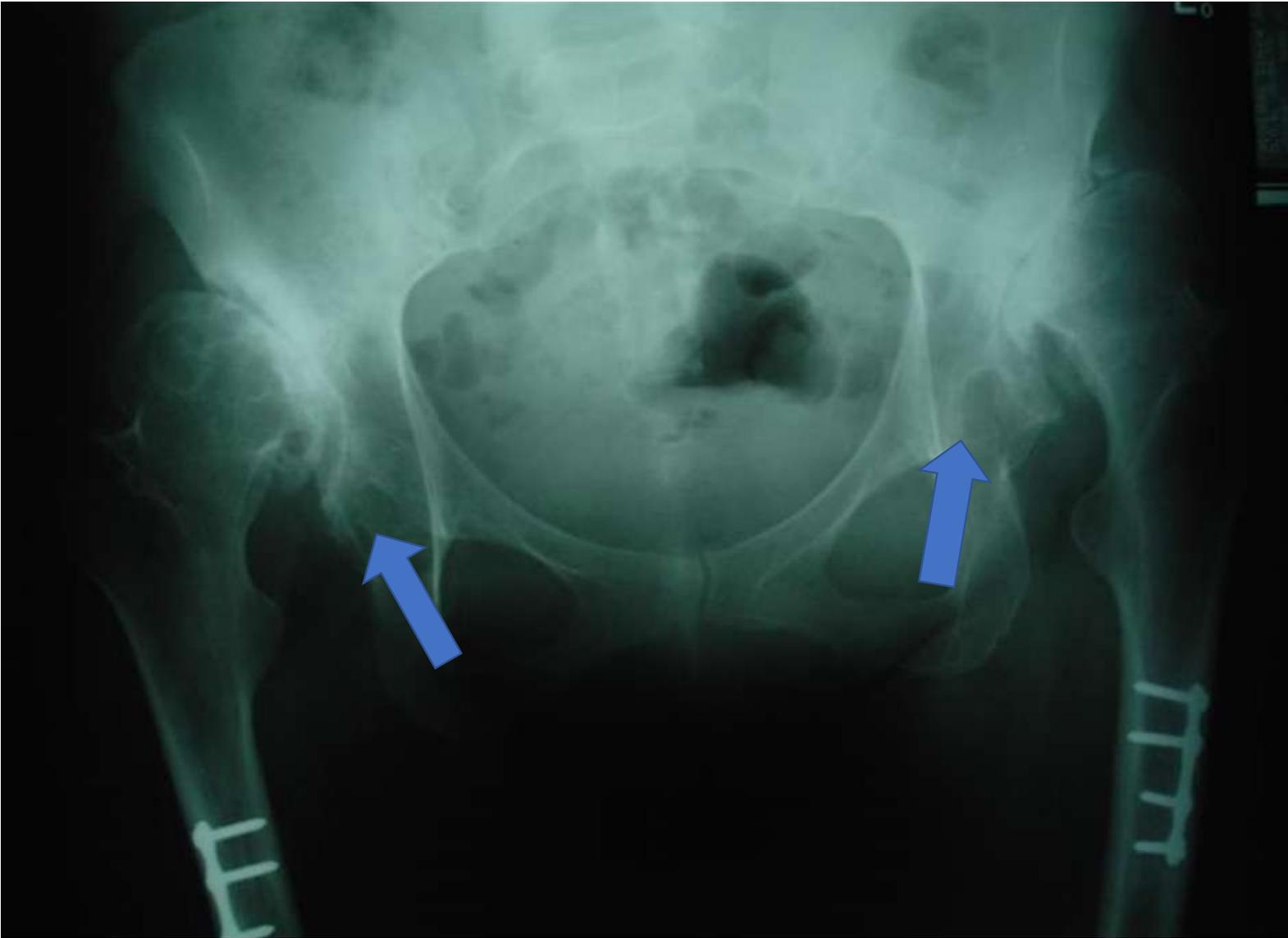
“30 years and 8 Knee  
surgeries” Elaine Cimino



“Best Services”  
Simone Clemhout

Congenital  
Hip  
Dislocation

The hips  
have never  
developed  
normally  
resulting in  
degenerative  
osteoarthritis



First Stage

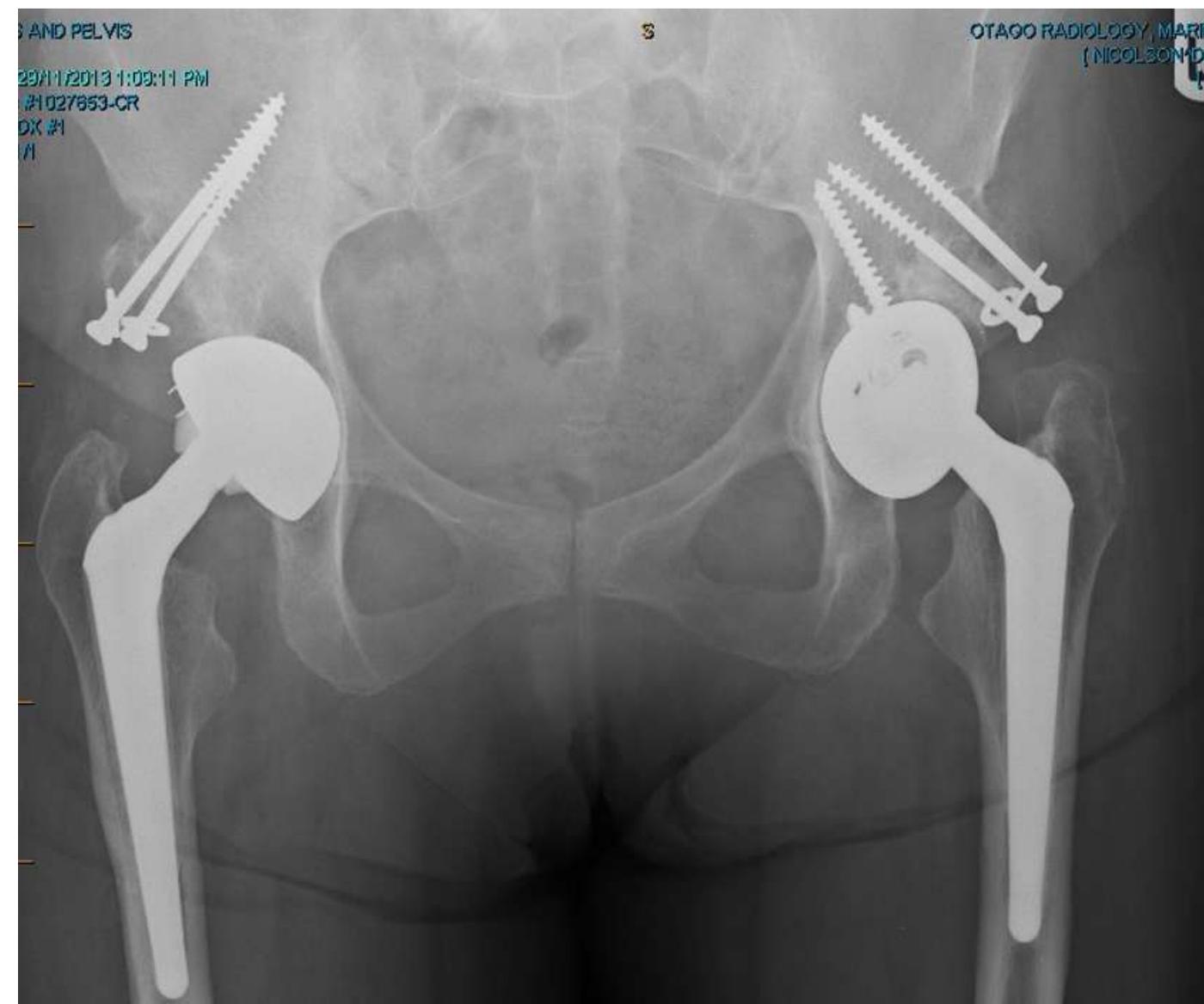
Right Hip  
Reconstruction



Second stage

Left Hip  
Reconstruction



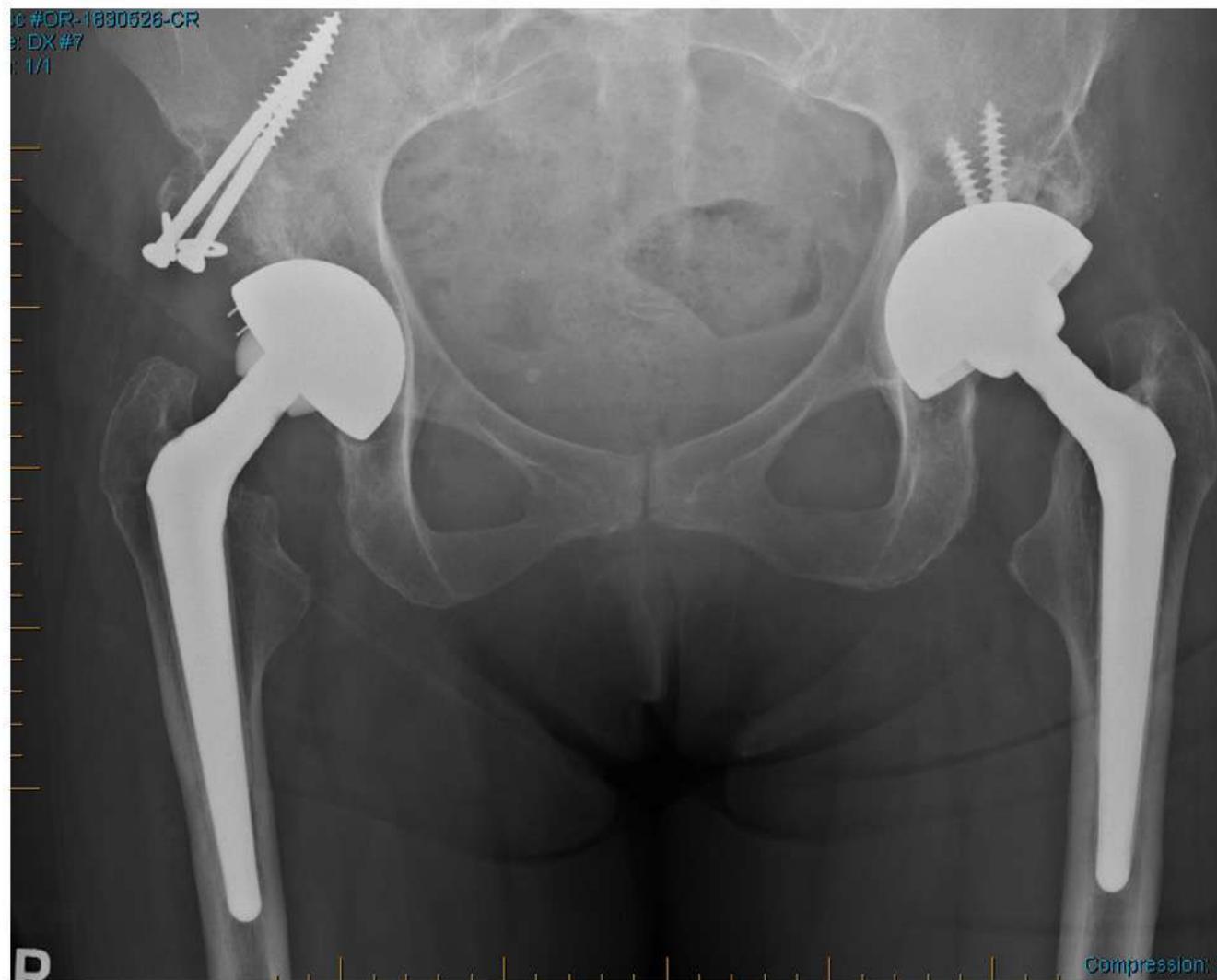


After 21 years

Failed Left socket

Revised with another

After 27 years





“Final position”

Michael Absatz MD  
Acrylic on canvas

An aesthetic portrayal  
of THR combining the  
softness of anatomy with  
the hard-edge coldness of  
Technology”



Before Surgery



After Surgery



“The Blues”

Susan Fraerman

Depicting a modified shoe last to accommodate a bunion deformity with a stiletto of woven glass beads lying on its side as it will never be worn



“Foot’s Dream”

Xuan My Ho

A mosaic inspired by  
Antoni Gaudi of recurring  
dreams of being able to  
walk barefoot on the  
beach after foot surgery

# Leg Amputation

- Trauma
- Tumour
- Congenital



# Prostheses



“Sensuality and Disability”

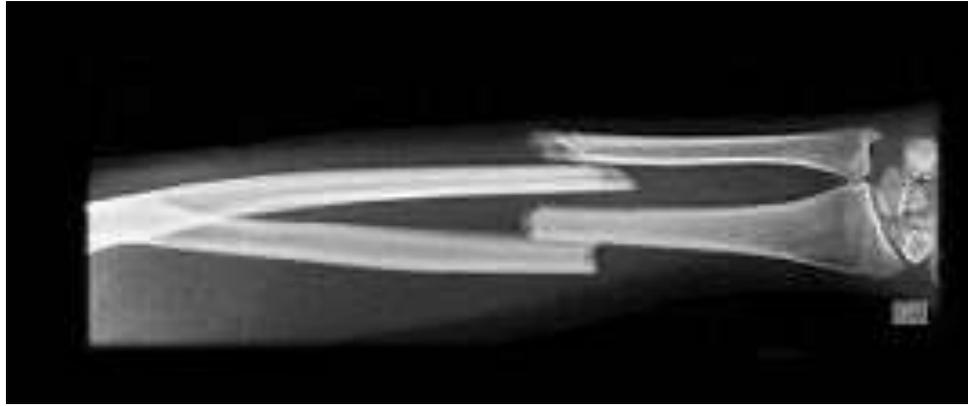
Ronald and Jill Parisi

“Bloom”

Ario

Mashayekhi



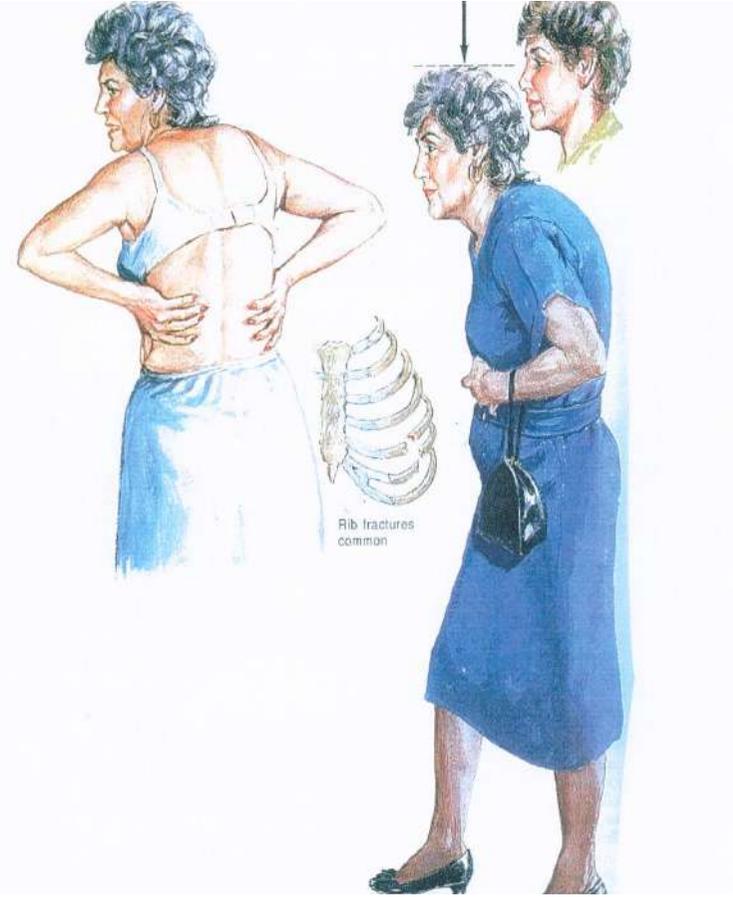
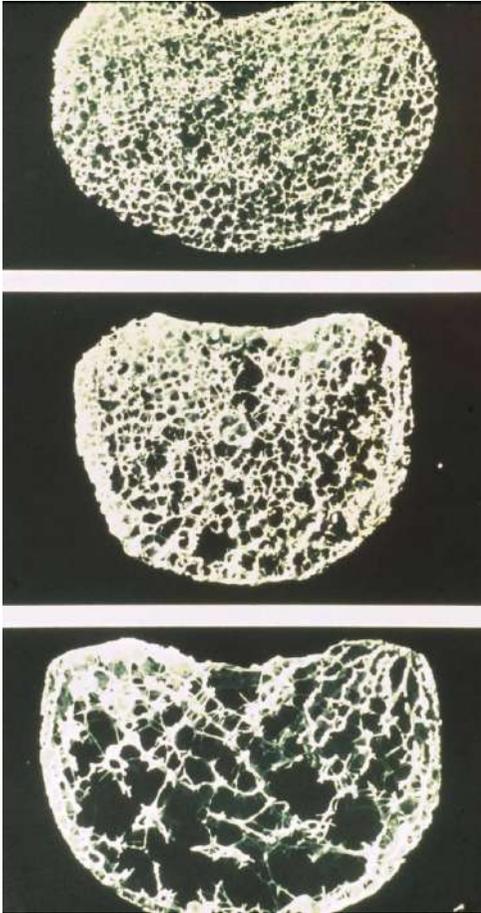
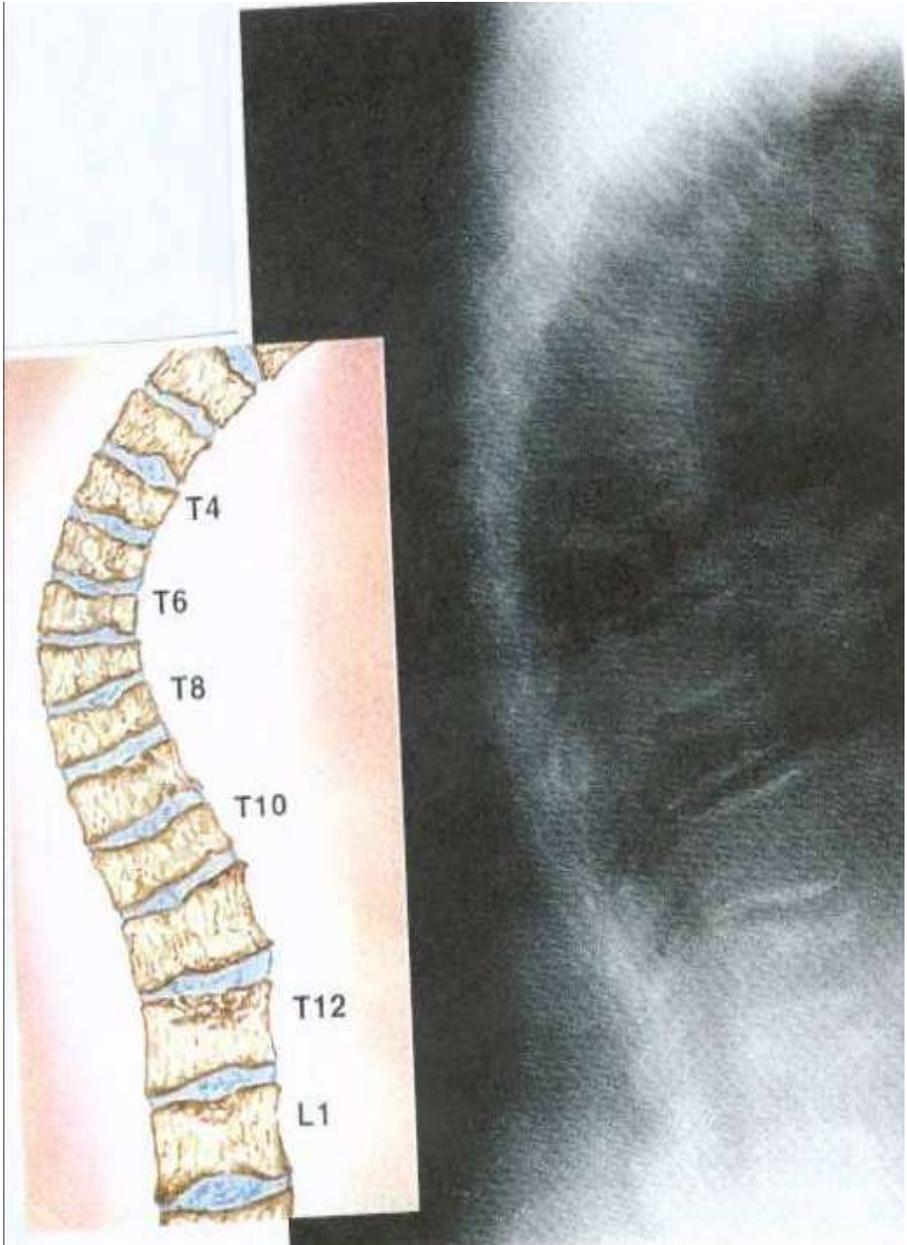


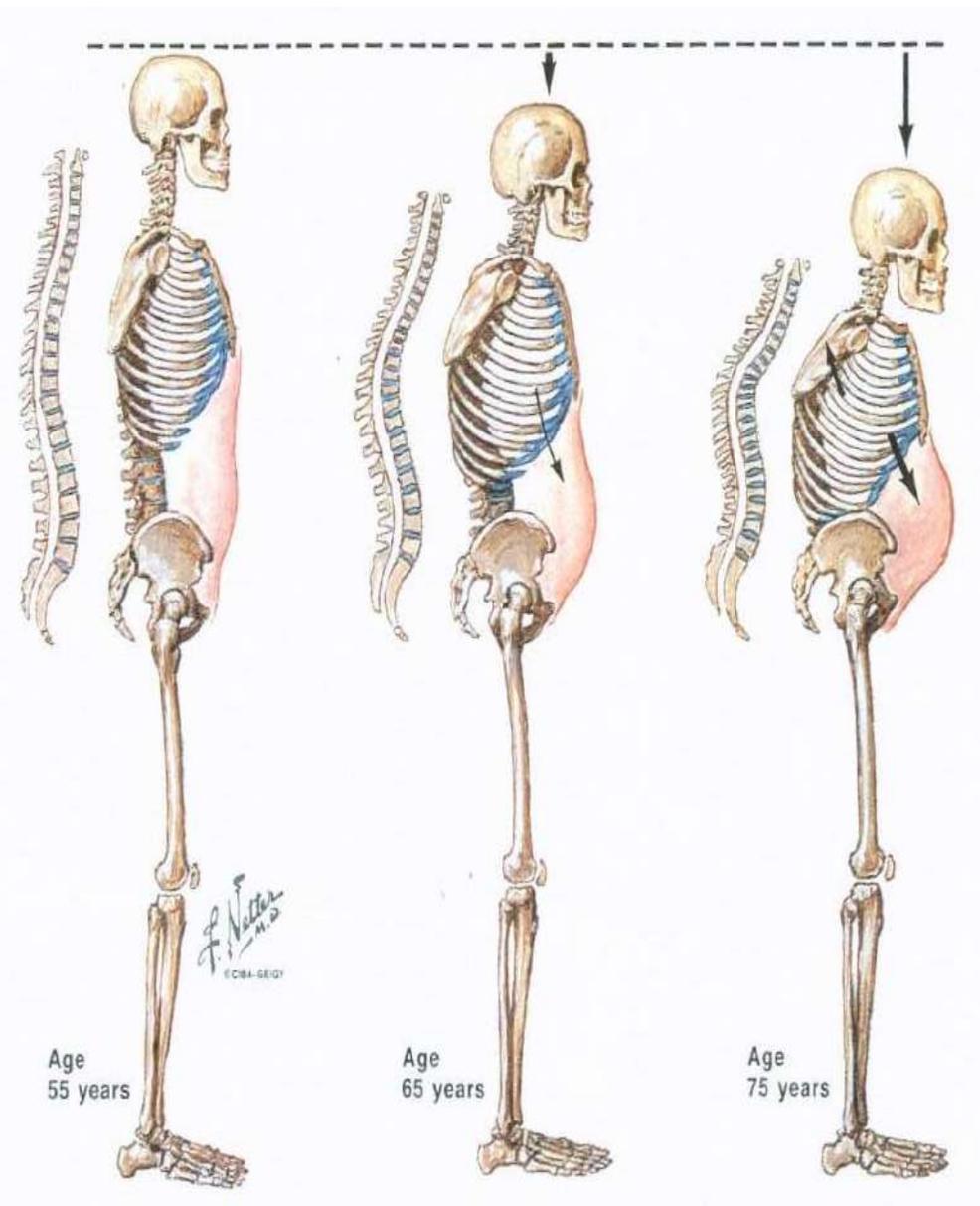
# “Waiting to Fly Again” Sandra Dunn



# Osteoporosis

- Ethnicity
- Genetics
- Gender
- Calcium deficiency
- Inactivity
- Steroids
- Smoking
- Alcohol
- Oestrogen deficiency





“United We Stand”

Anita Horton

The plaster shapes and zips represent the spine and a commitment to support each other





## “Imperfect Bone Origin”

Jon Wos

Glass and Ceramic self portrait depicting all 206 bones and gold and deformity in every fracture the artist had in his condition of “Brittle Bone Disease” (Osteogenesis Imperfecta).

A tribute to human ability to create and overcome.



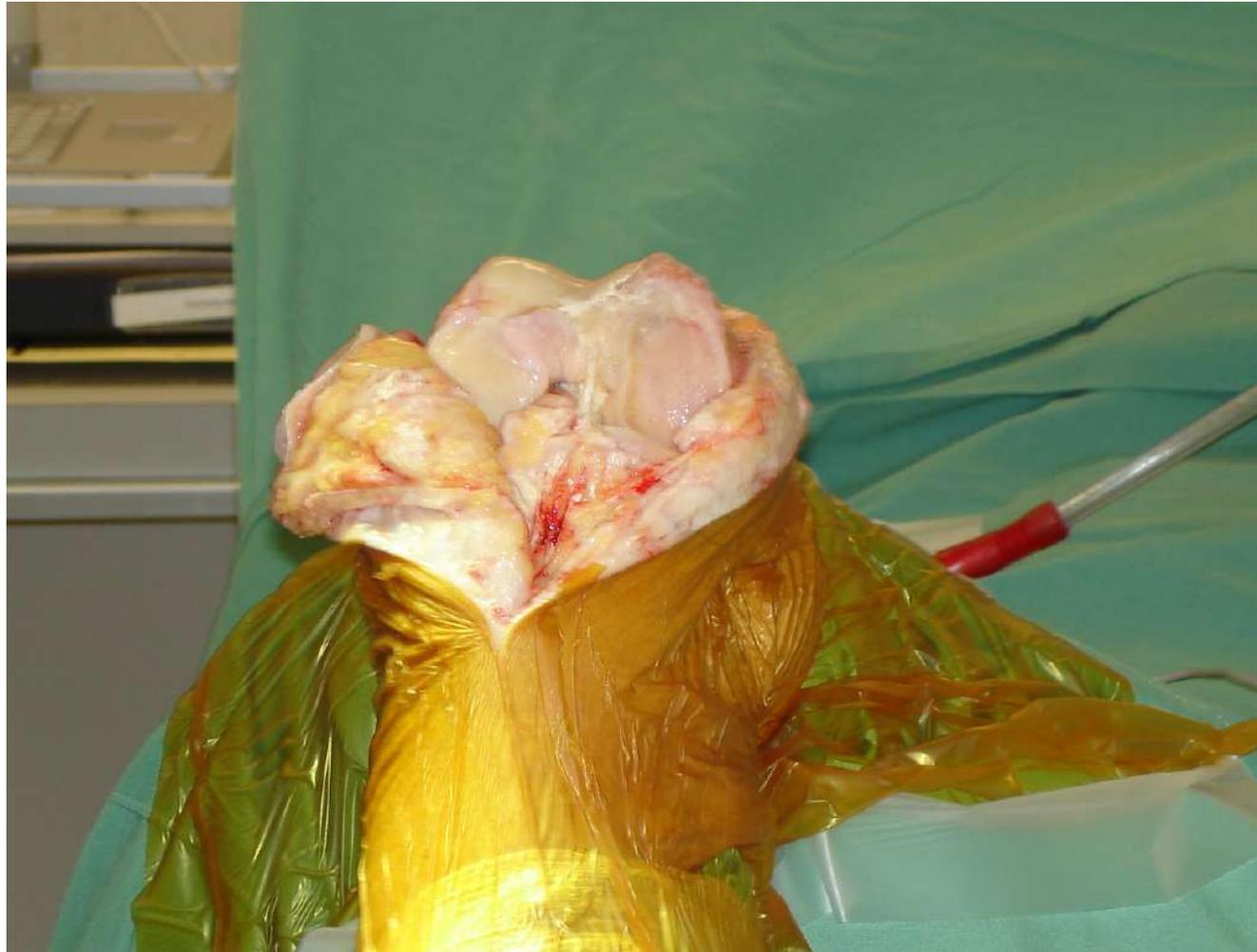
Knee Osteoarthritis

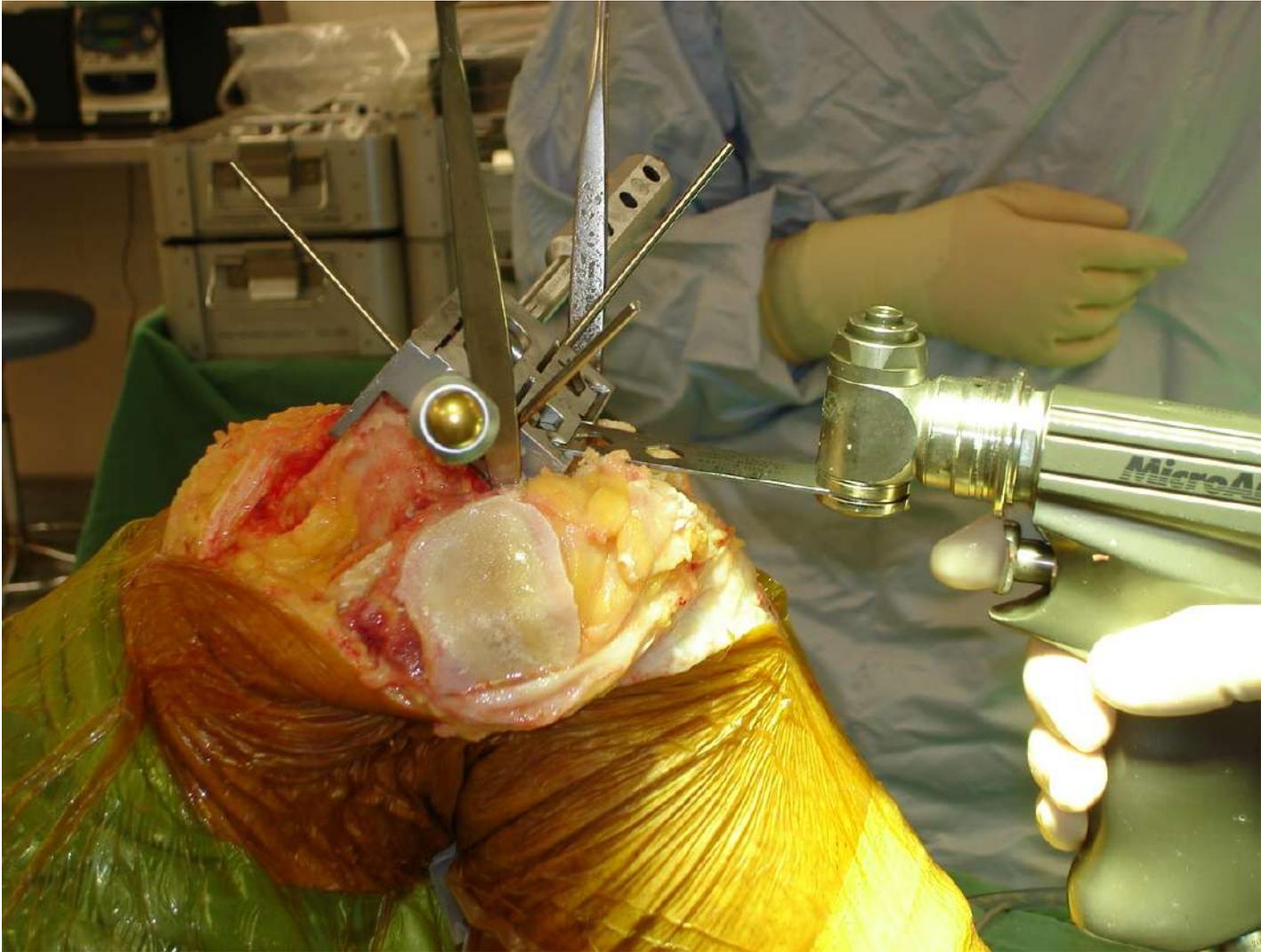






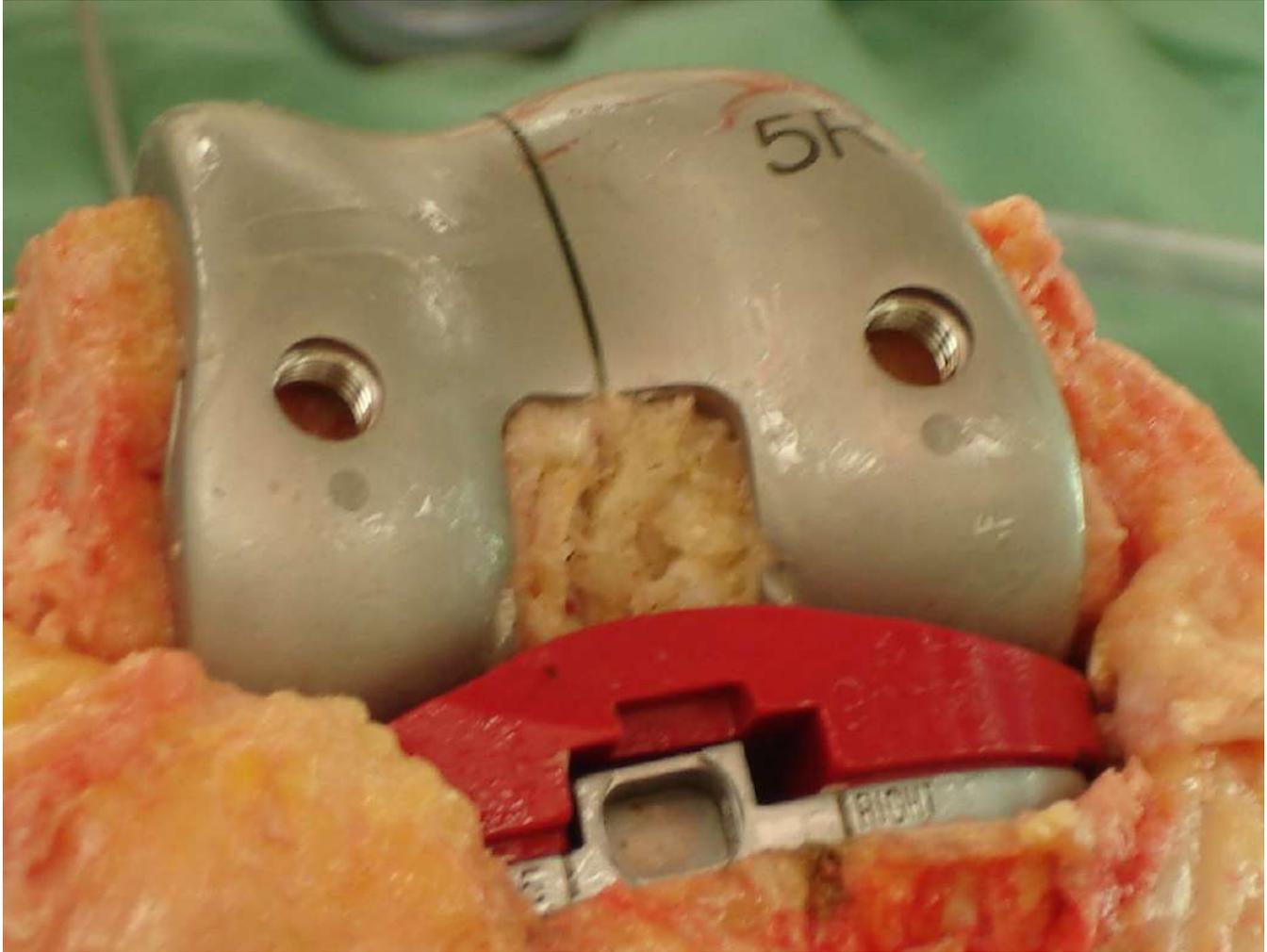






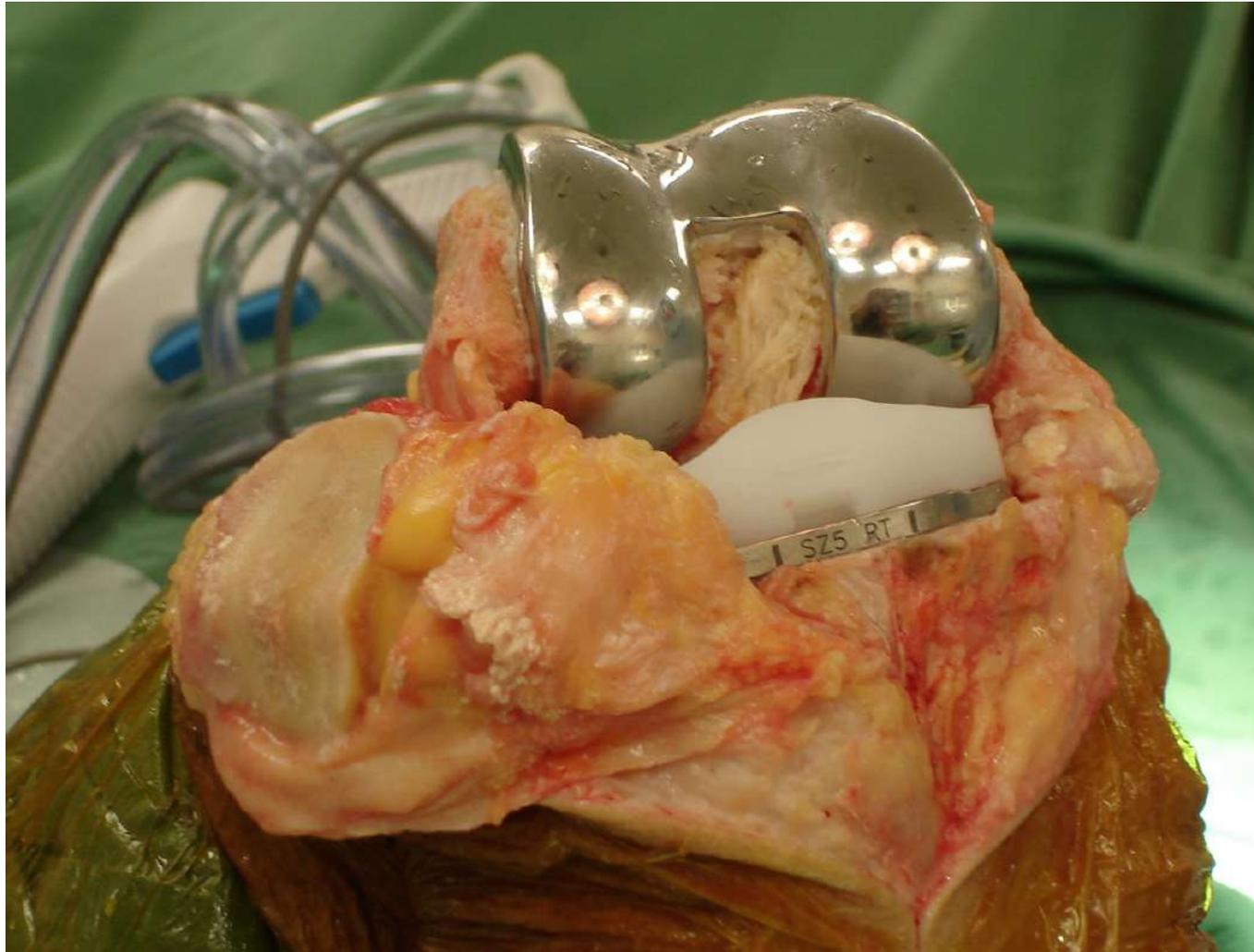




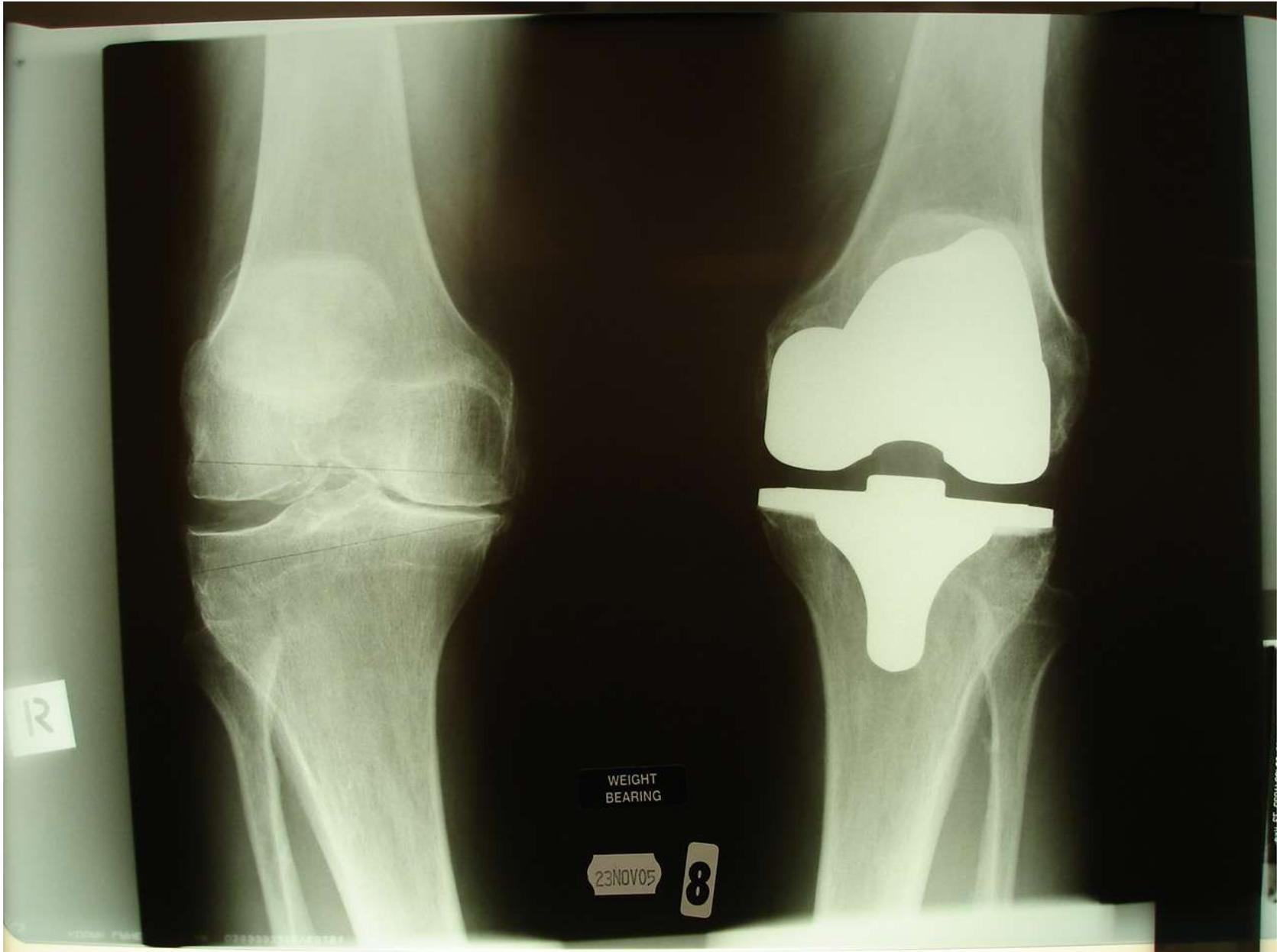












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WEIGHT  
BEARING

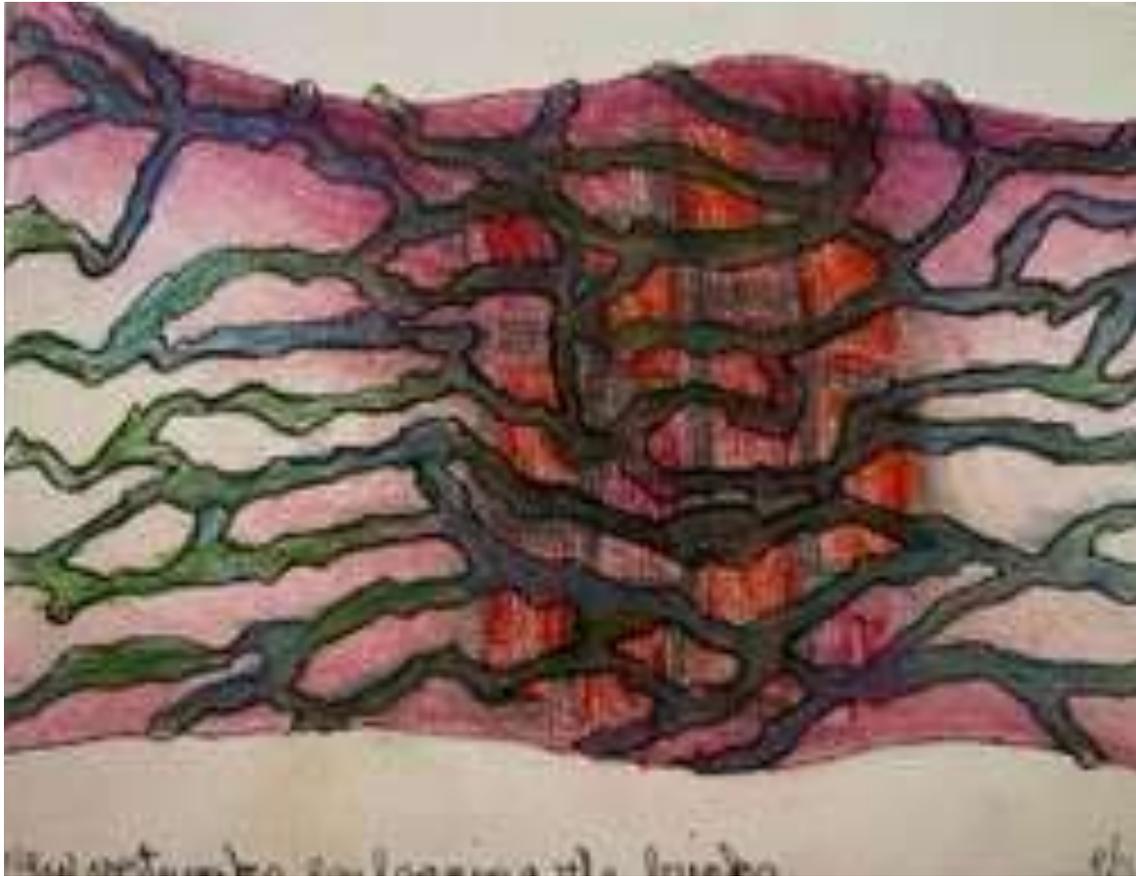
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“New networks embracing the bricks”  
Rosalie Cassell  
Depicting stiffness after Knee Replacement



From Bone on Bone to Bionic  
Julia McDonald



“Porcupine Girl  
Impaled”  
Rosemary Feit Covey  
Wood Engraving

With pain we feel our  
bodies caught on spikes.  
However the woman is  
used to her condition and  
continues to move  
forward using her mind to  
negate the external  
physical effects.

