

Time Stamp: 2:00



## Dr. Agustin A. Salvati

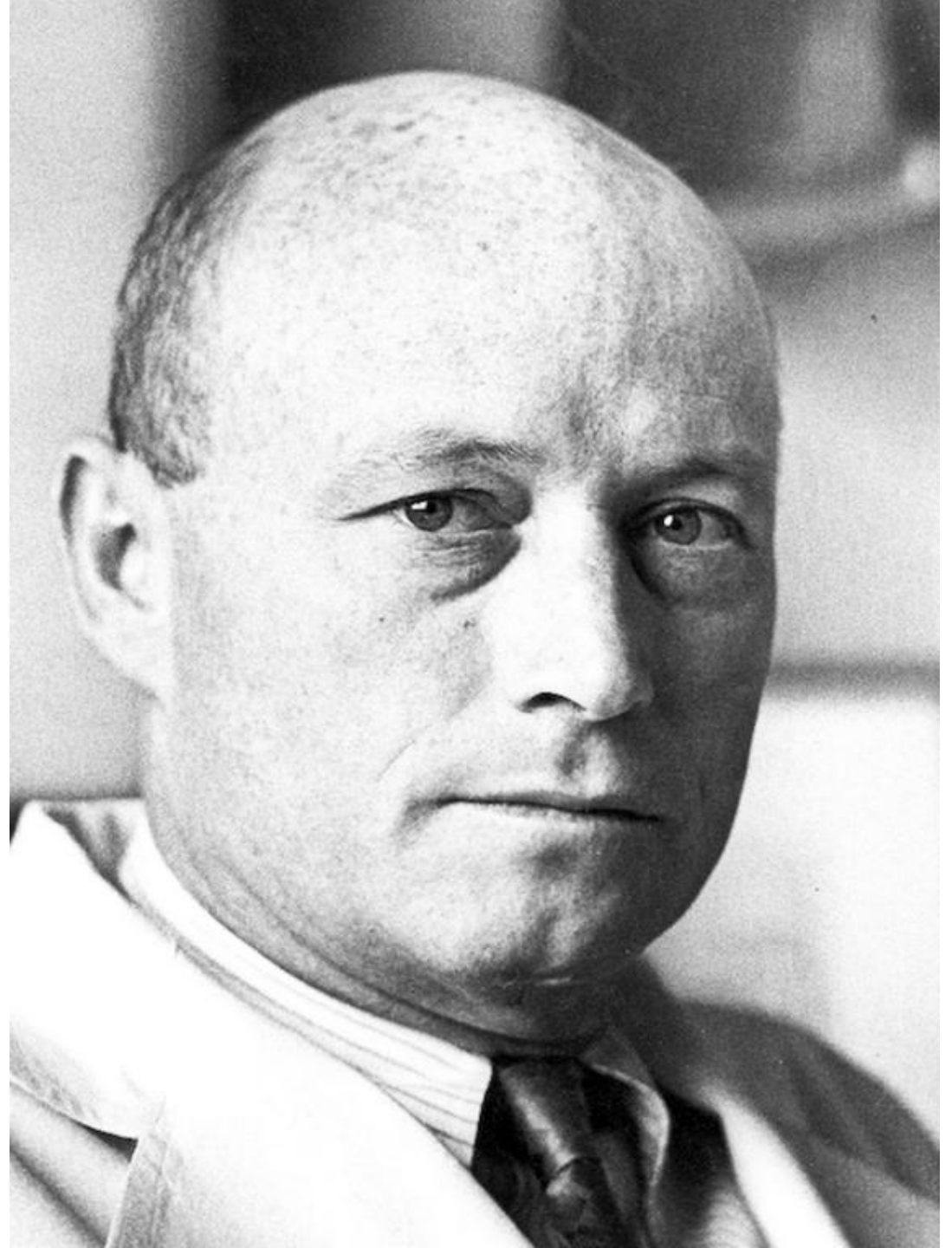
Director and Chief of Orthopedics  
Founder of The Center of Rehabilitation  
Of the Disabled of Quilmes, Argentina

Time Stamp: 3:55

**The Hip Service  
At HSS  
In 1969**

**Chief  
Dr. Philip D. Wilson Jr.**

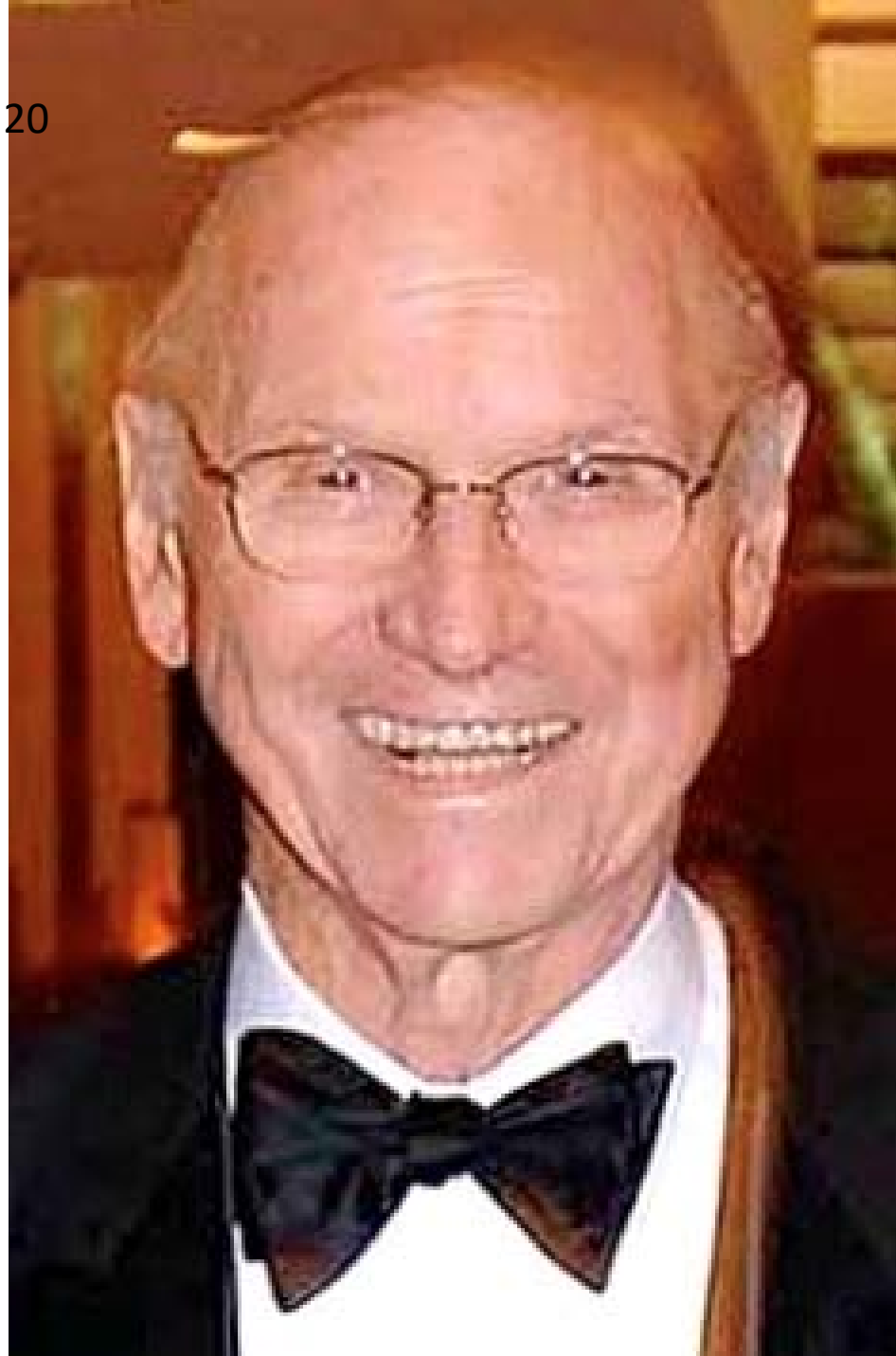
**1920 - 2016**



Time Stamp: 4:20

**Dr.  
Leon  
Root**

1929-2015

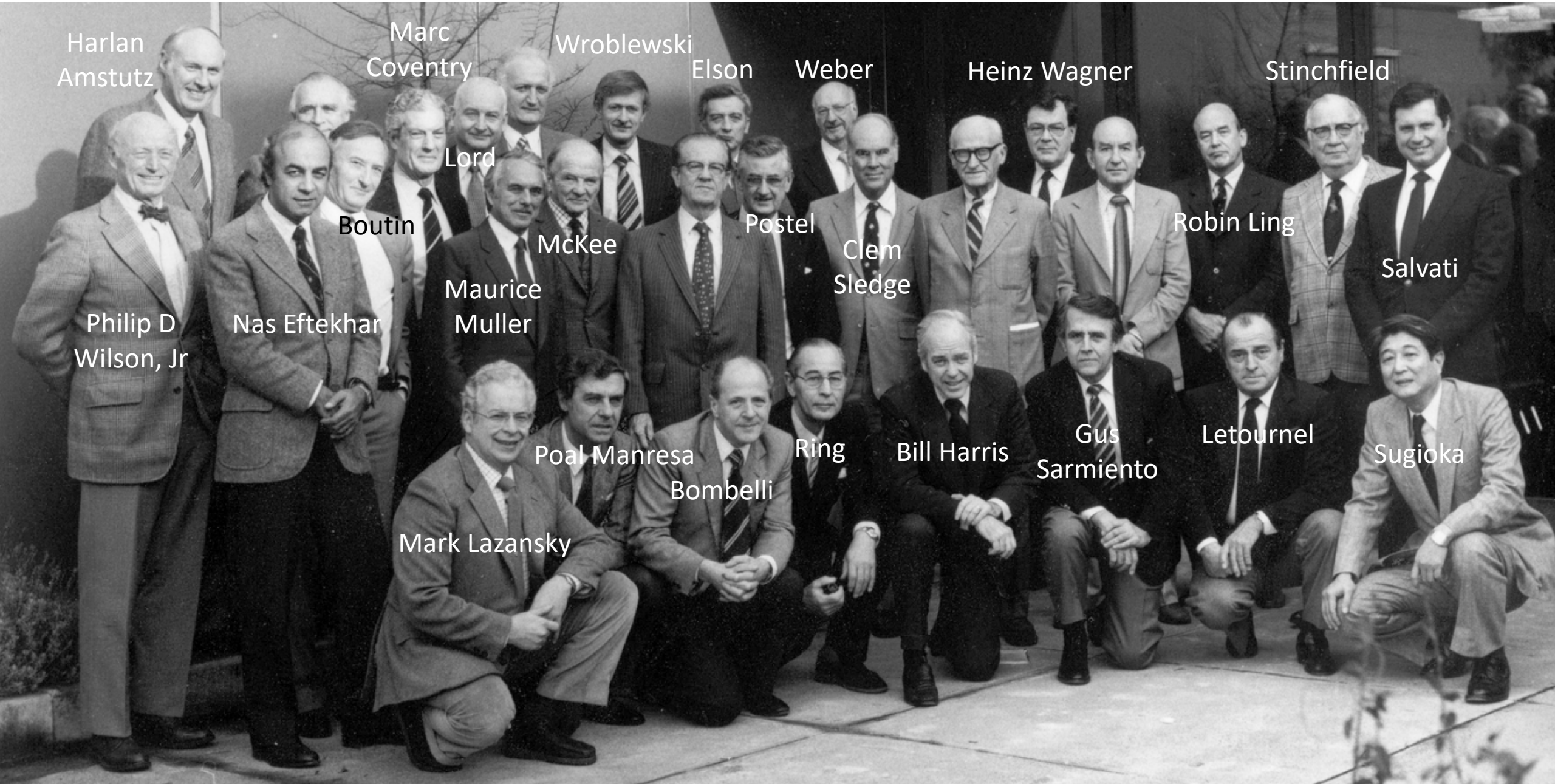


**Dr.  
Paul  
Pellicci**

1948-2023

# INTERNATIONAL HIP SOCIETY 1982

Time Stamp: 6:30



Harlan Amstutz

Marc Coventry

Wroblewski

Elson

Weber

Heinz Wagner

Stinchfield

Lord

Boutin

McKee

Postel

Clem Sledge

Robin Ling

Salvati

Philip D Wilson, Jr

Nas Eftekhar

Maurice Muller

Poal Manresa

Ring

Bill Harris

Gus Sarmiento

Letournel

Sugioka

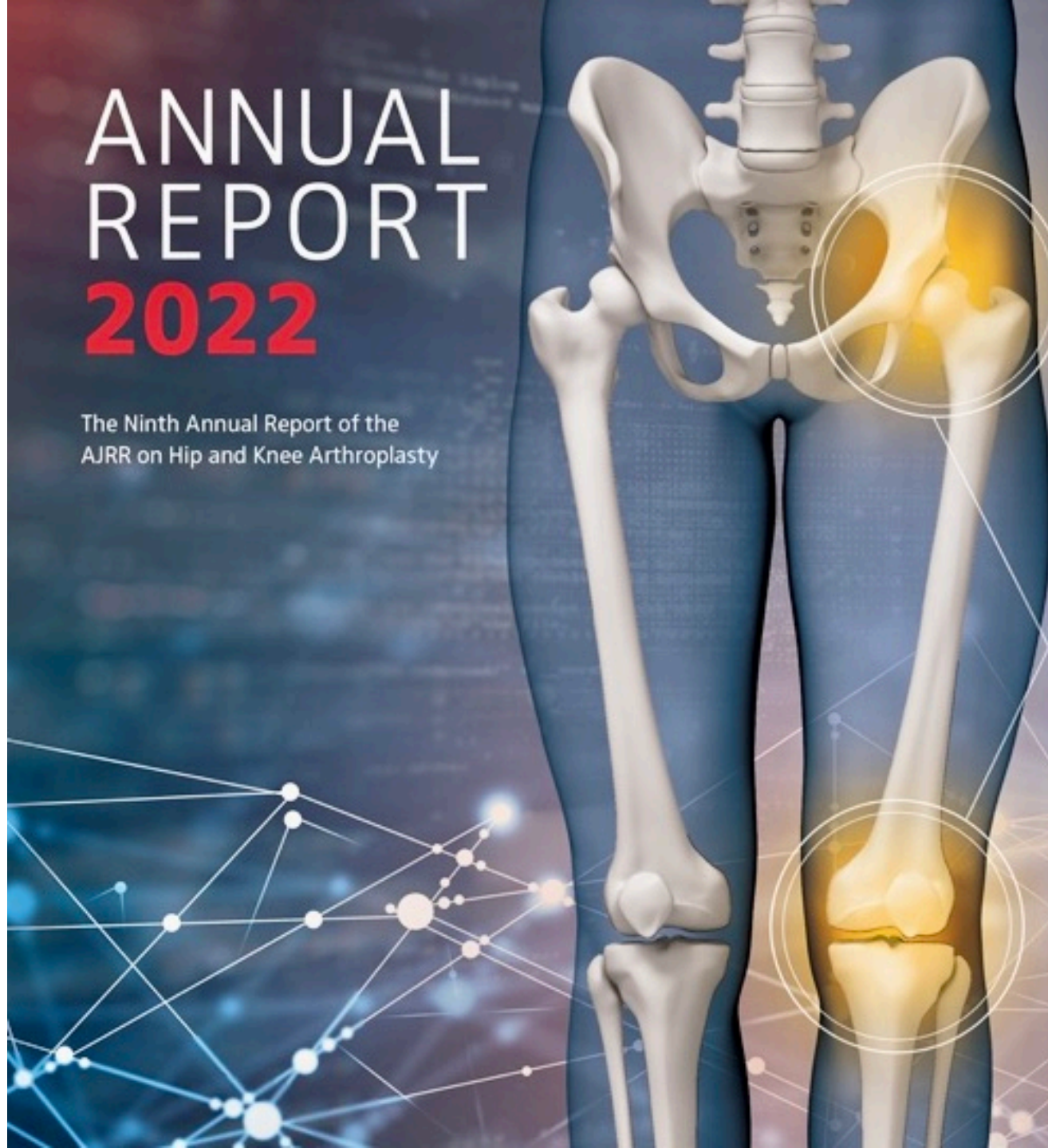
Mark Lazansky

Bombelli

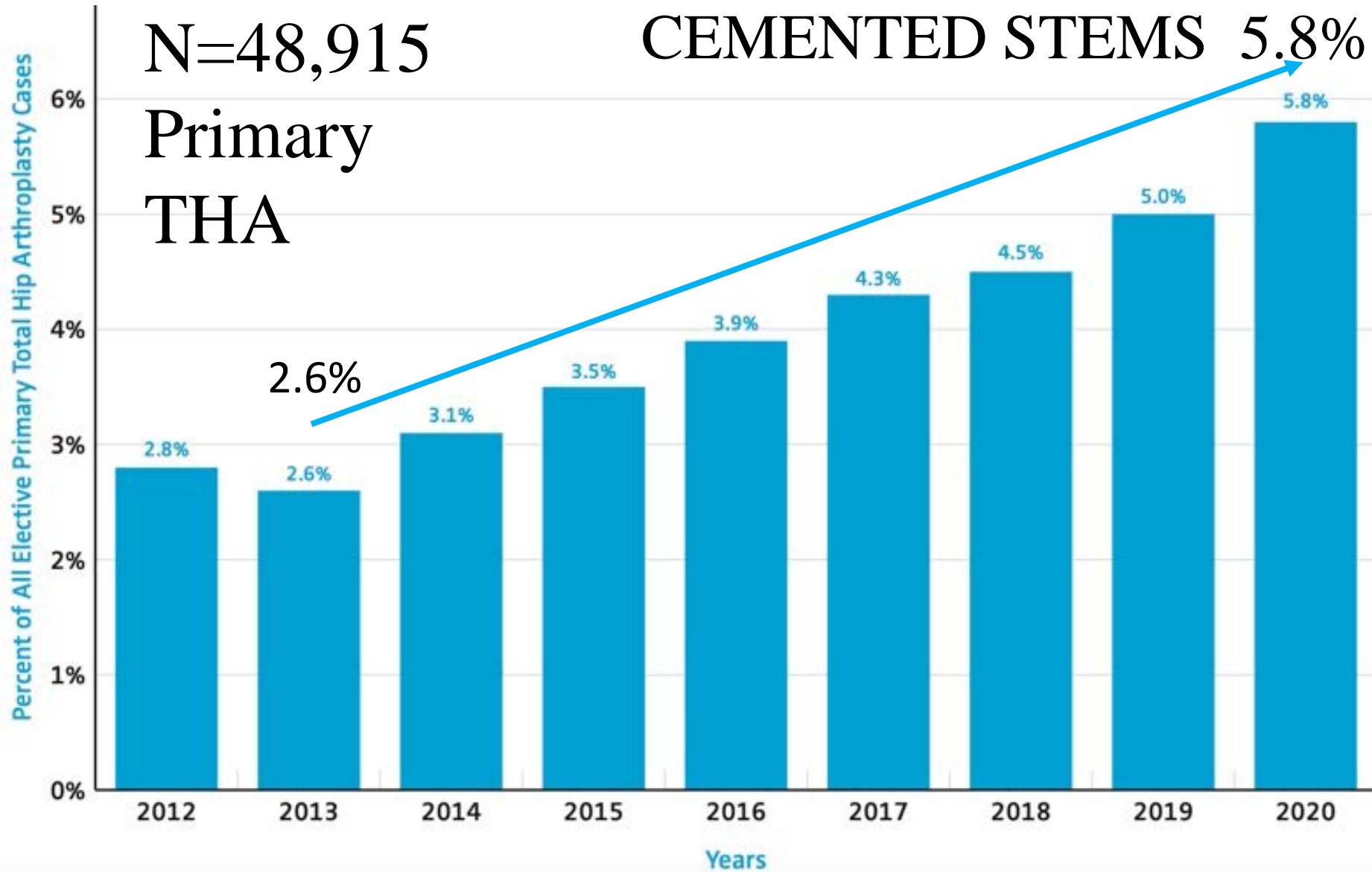
Time Stamp: 7:55

# AAOS

# AJRR



Time Stamp: 8:05



Time Stamp: 8:20

**National Joint Registry**

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**19th Annual Report**

**2022**

Surgical data to 31 December 2021

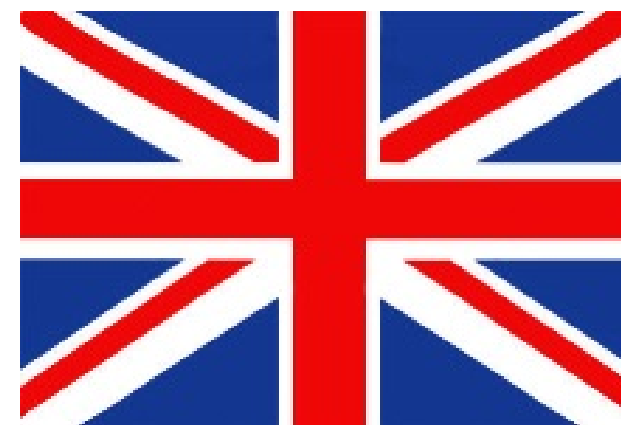
**1,344,357 THR**

**2003 – 2021**

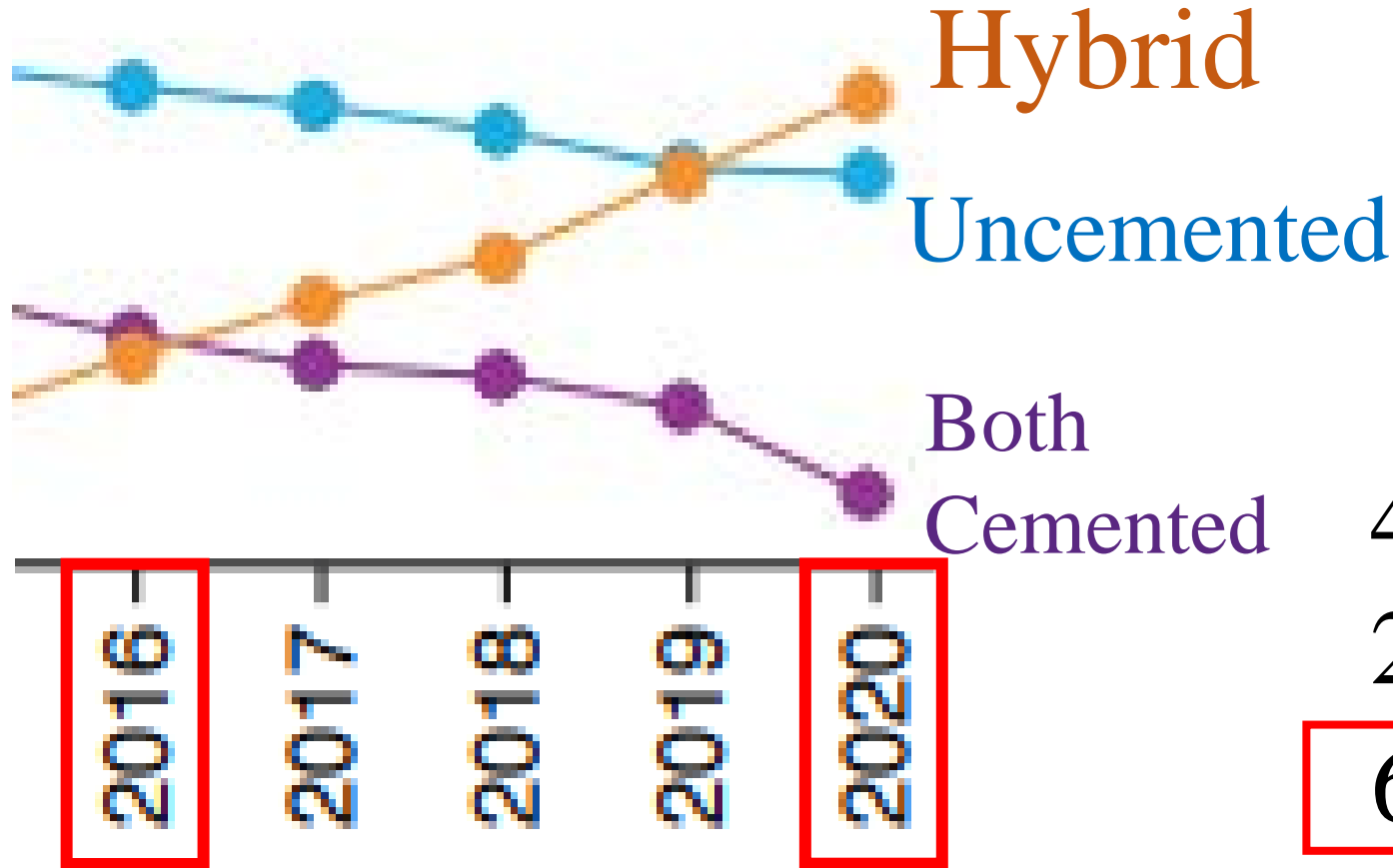
**England, Wales,**

**Northern Ireland,**

**Isle of Man**



# % Femoral Cement Fixation



40 % Hybrid

23 % Both C'ted

63 % Fem C'ted



Time Stamp: 8:50

# Cemented, Cementless and Hybrid THR Cost Effectiveness Analysis

Pennington M. et al. BMJ, Feb 2013

Cemented Prosthesis were the Least Costly

Cementless Prosthesis did Not Improve  
Outcomes to Justify it's Additional Cost

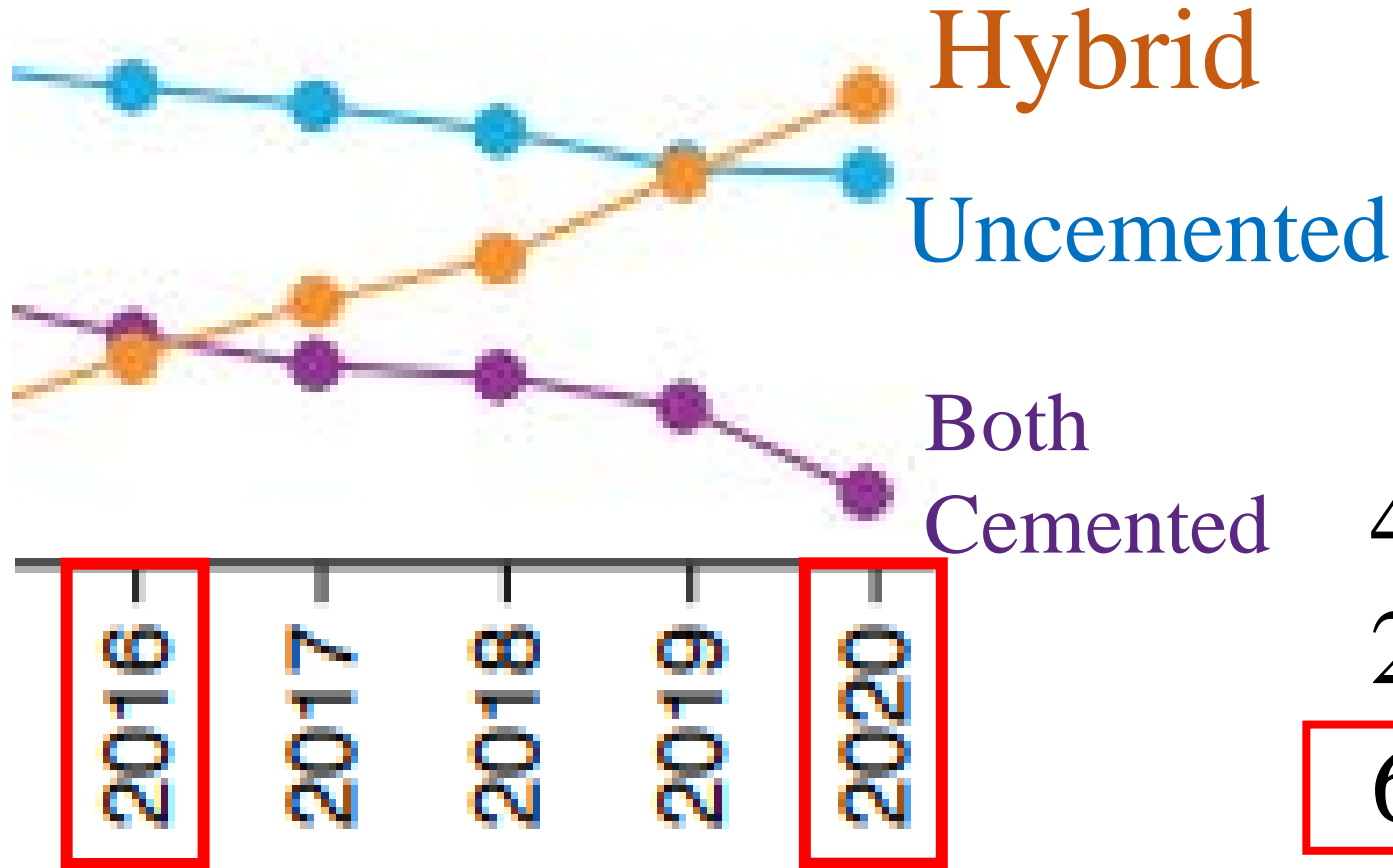
Hybrid Prosthesis were the Most Cost Effective

Time Stamp: 9:40

# Intraoperative Fractures with Cementless Fixation



# % Femoral Cement Fixation



40 % Hybrid

23 % Both C'ted

63 % Fem C'ted

Time Stamp: 10:45



Sir John Charnley

1911 - 1982

# Hip Centre at Wrightington Hospital

Time Stamp: 11:30



Time Stamp: 12:10

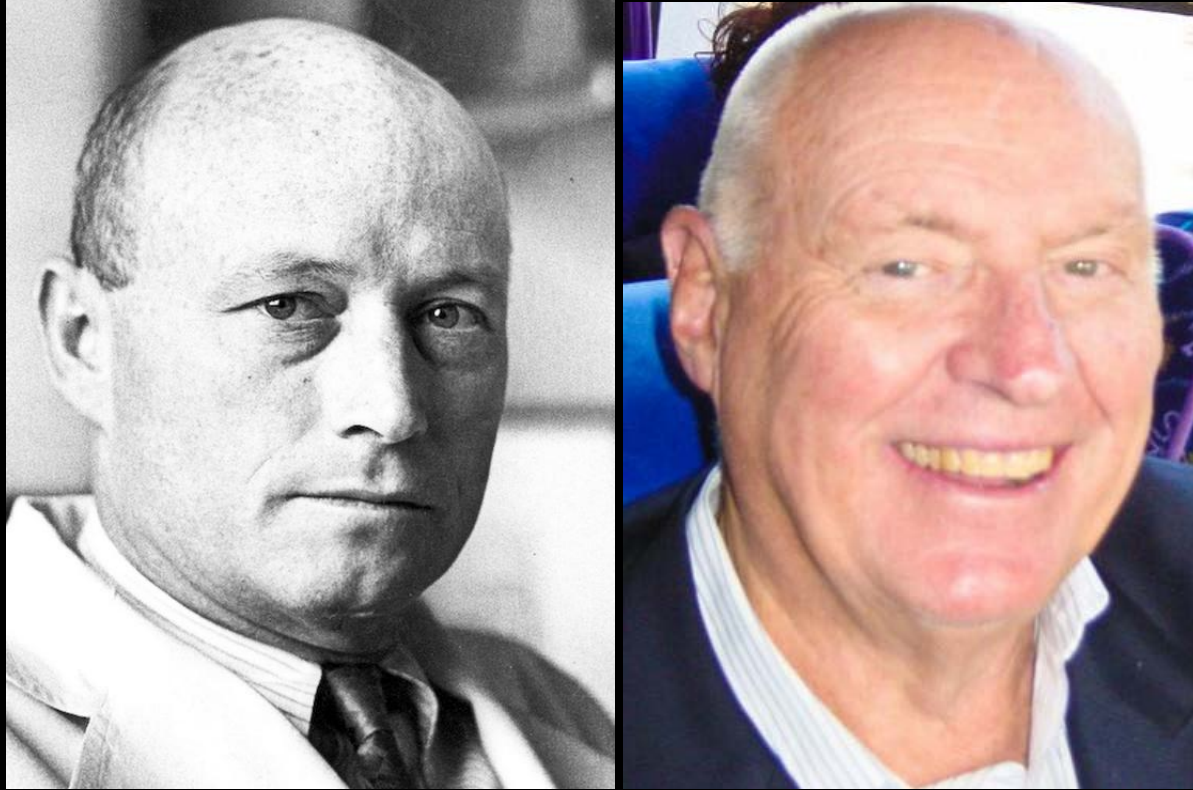


# John Charnley

1911 - 1982

In his Home Garage  
Manufacturing Cups and  
Stems in the Early 1960's  
To be Implanted in  
The Hip Centre at  
Wrightington Hospital

Time Stamp: 12:50



In August 1967, Drs. Philip D. Wilson, Jr and Harlan Amstutz Introduced the McKee-Farrar Metal to Metal THR due to Charnley's poor experience with the Teflon Cup.

Time Stamp: 13:10

Total hip replacement with fixation by acrylic cement. A preliminary study of 100 consecutive McKee-Farrar prosthetic replacements.

Wilson PD Jr, Amstutz HC, Czerniecki A, Salvati EA, Mendes DG.

J Bone Joint Surg Am. 1972 Mar;54(2):207-36.

At 5 yrs fup

Mechanical failure ~20 %

Infection rate 11 % \*

\* On Dec. 1969 Proph. Abx. became Routine and the Infection dropped to ~1%.



> J Bone Joint Surg Am. 1981 Jun;63(5):753-67.

## **A ten-year follow-up study of our first one hundred consecutive Charnley total hip replacements**

E A Salvati, P D Wilson Jr, M N Jolley, F Vakili, P Aglietti, G C Brown **1969 - 1970**

There were three revisions at 10 years:

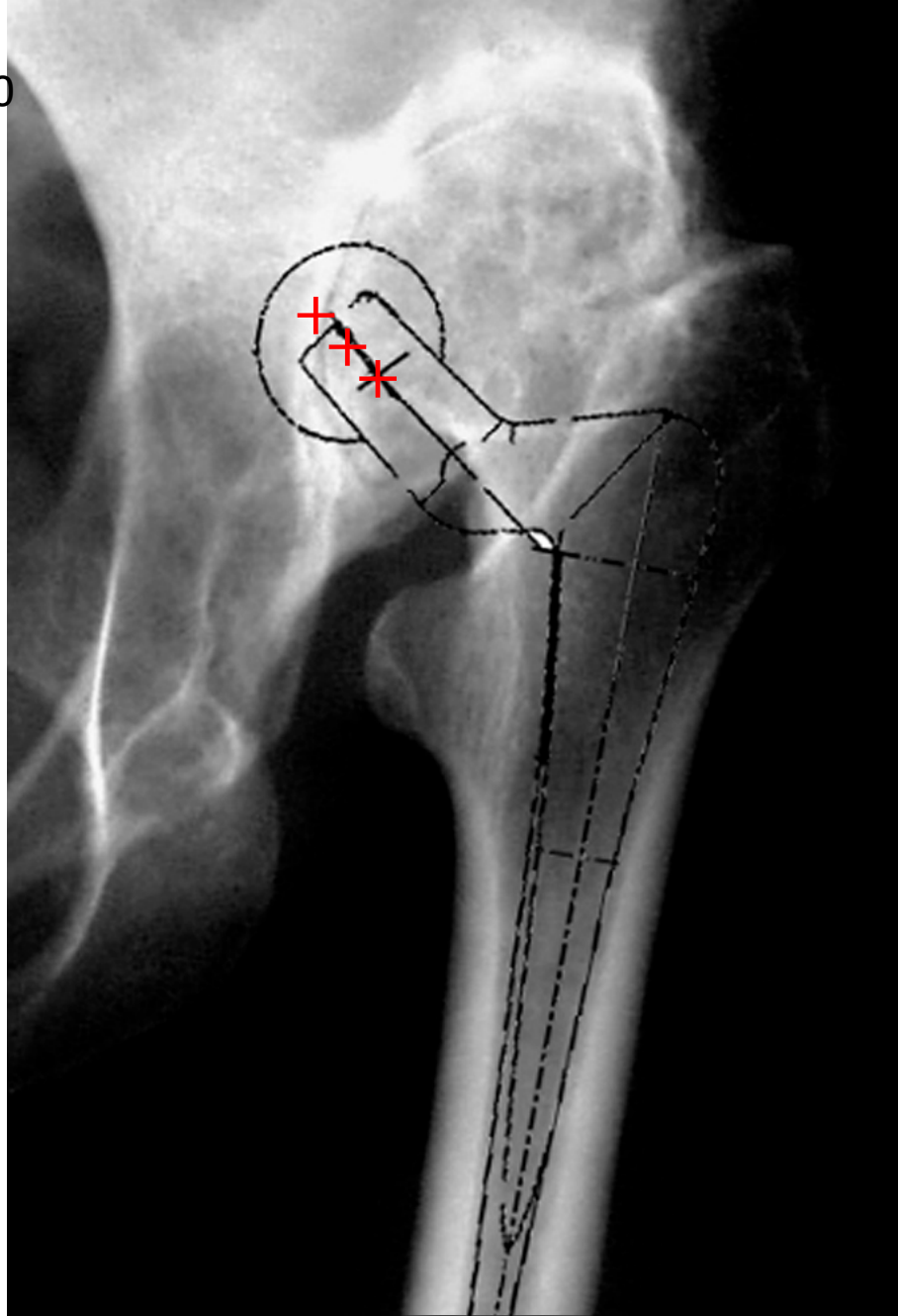
One femoral loosening and one fractured stem,

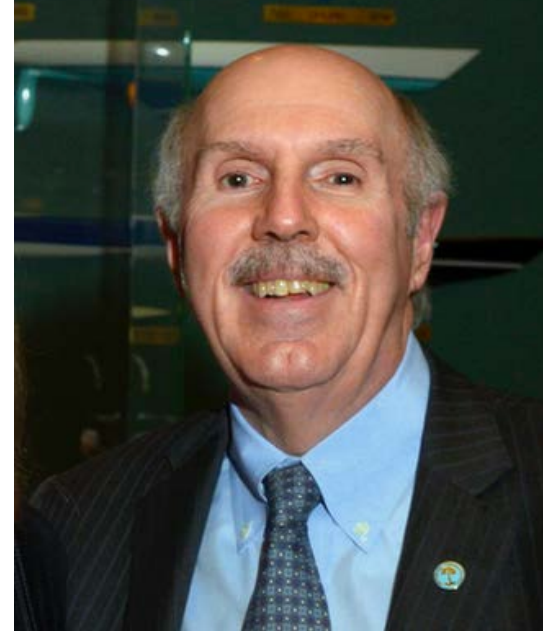
Both at eight years postop.

And one cup loosening, 9 years postop.

All three reoperations were successful.

Time Stamp: 15:00





1976 Manual Machining of Patient-Specific Implants

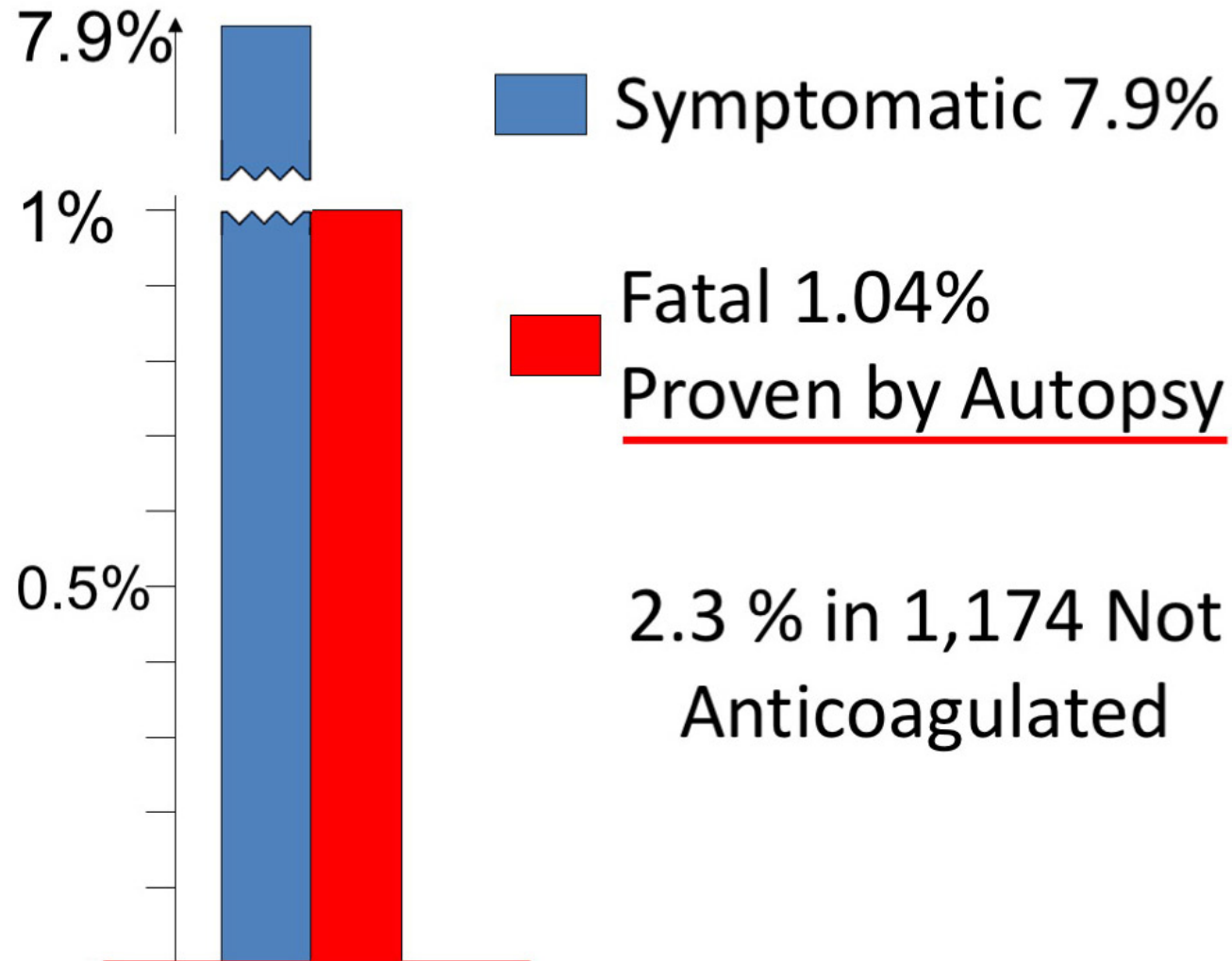
1977 Implant Retrieval Analysis Center

Time Stamp: 15:20



In 1996, After 20 years, the Production of Patient-Specific Implants was Discontinued  
By then, over **2800** were Manufactured  
And Implanted

# Pulmonary Embolus in 7959 THR 1962-1973



Time Stamp: 20:45

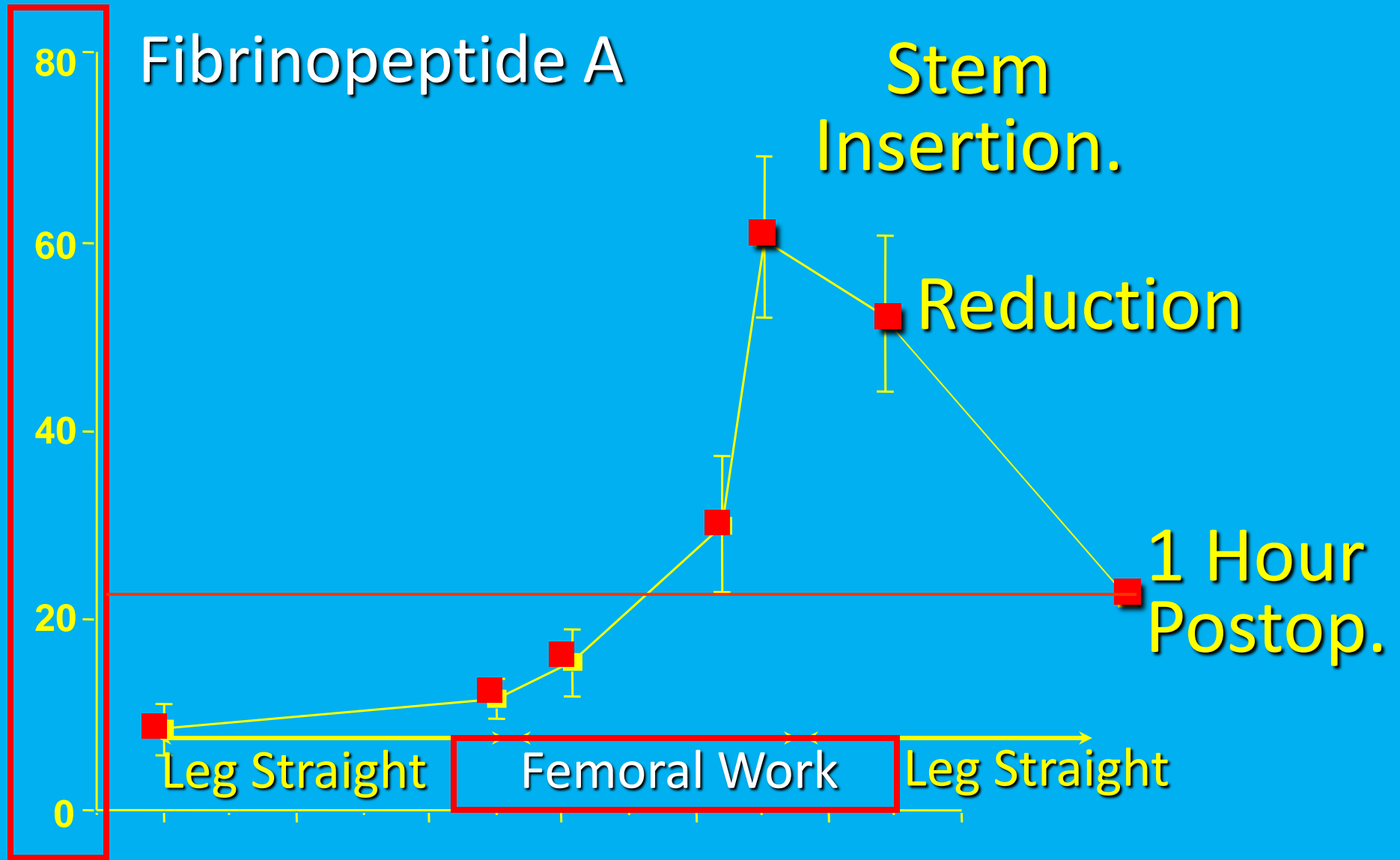
1962 to 1973

Johnson R, Charnley J. CORR, Sep. 1977

Time Stamp: 21:20



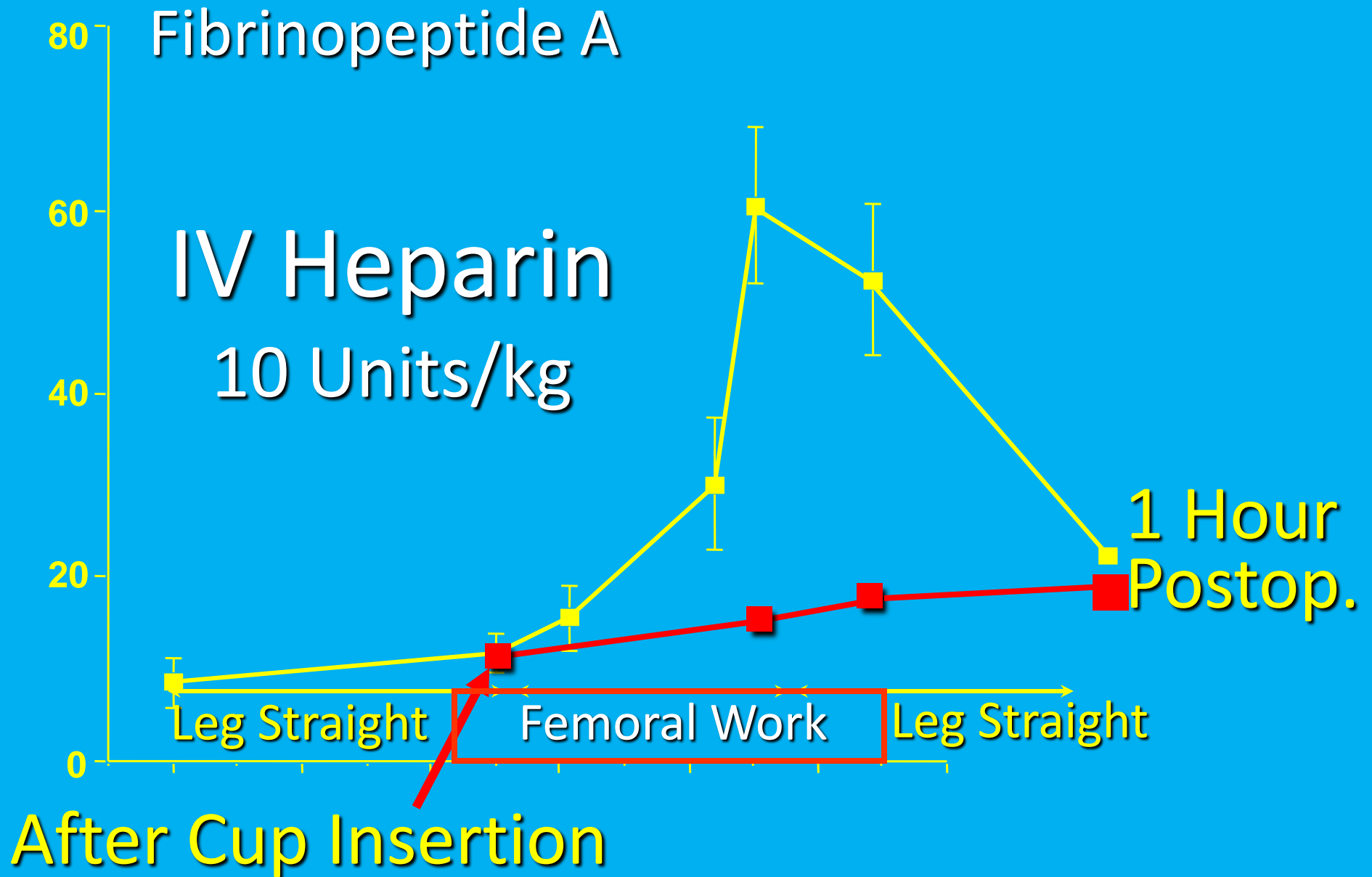
Bill Harris in the early 1970's in  
his VTE Lectures usually mentioned  
that in THR a PE Death was expected  
in 1-2 % of Patients



Sharrock, Sculco, Ranawat, Salvati: John Charnley Award

CORR 1995

Time Stamp: 26:15

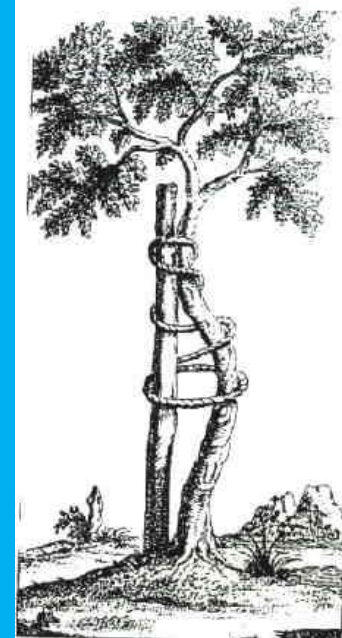




# 2007 Nicolas Andry Award

Three Decades of Clinical,  
Basic and Applied Research  
On Thromboembolic Disease  
After Total Hip Replacement

E A Salvati, N E Sharrock, G Westrich,  
H G Potter, A G Della Valle and T P Sculco  
CORR, 459, 246-254, 2007



Time Stamp: 29:00



## Large Hematoma and Sciatic Palsy

Beksaç, G Della Valle, Salvati. Acute Sciatic Palsy. A Complication Of Low-Molecular-Weight Heparin after THA. Am J Orthop. 2009

Time Stamp: 30:10

# Duplex Ultrasound of the Proximal Femoral Vein In Recovery Room



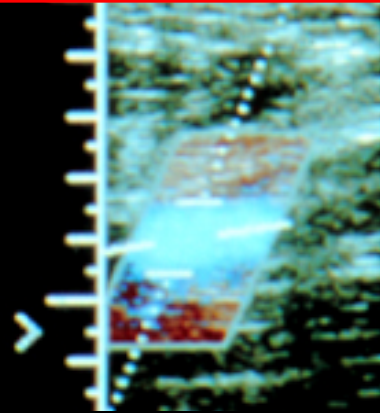
Fast Calf Inflation  
Greatest Increase in Venous  
Volume and Velocity

Westrich, Specht, Sharrock, Sculco, Pellicci, Salvati.  
CORR, 2000

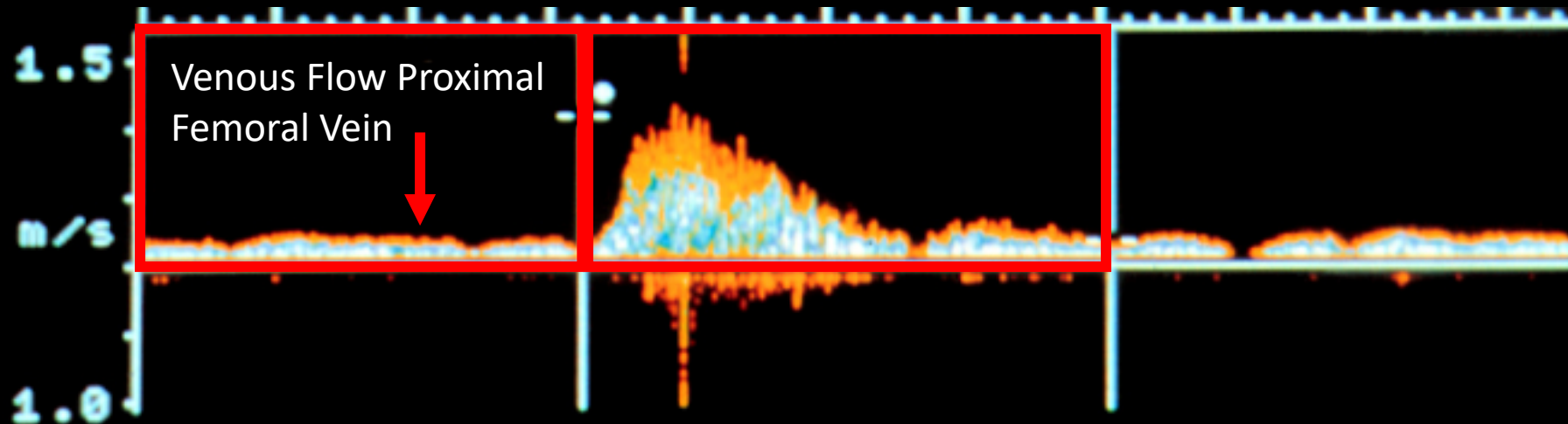
Time Stamp: 30:20

Rapid Inflation  
Calf sleeve

**VENAFLOW**



Stasis



Westrich G, Specht L, Sharrock N, Sculco T,  
Salvati E. CORR, 372, 180-191, Mar 2000

Time Stamp: 32:25

## 2005 John Charnley Award

American Hip Society



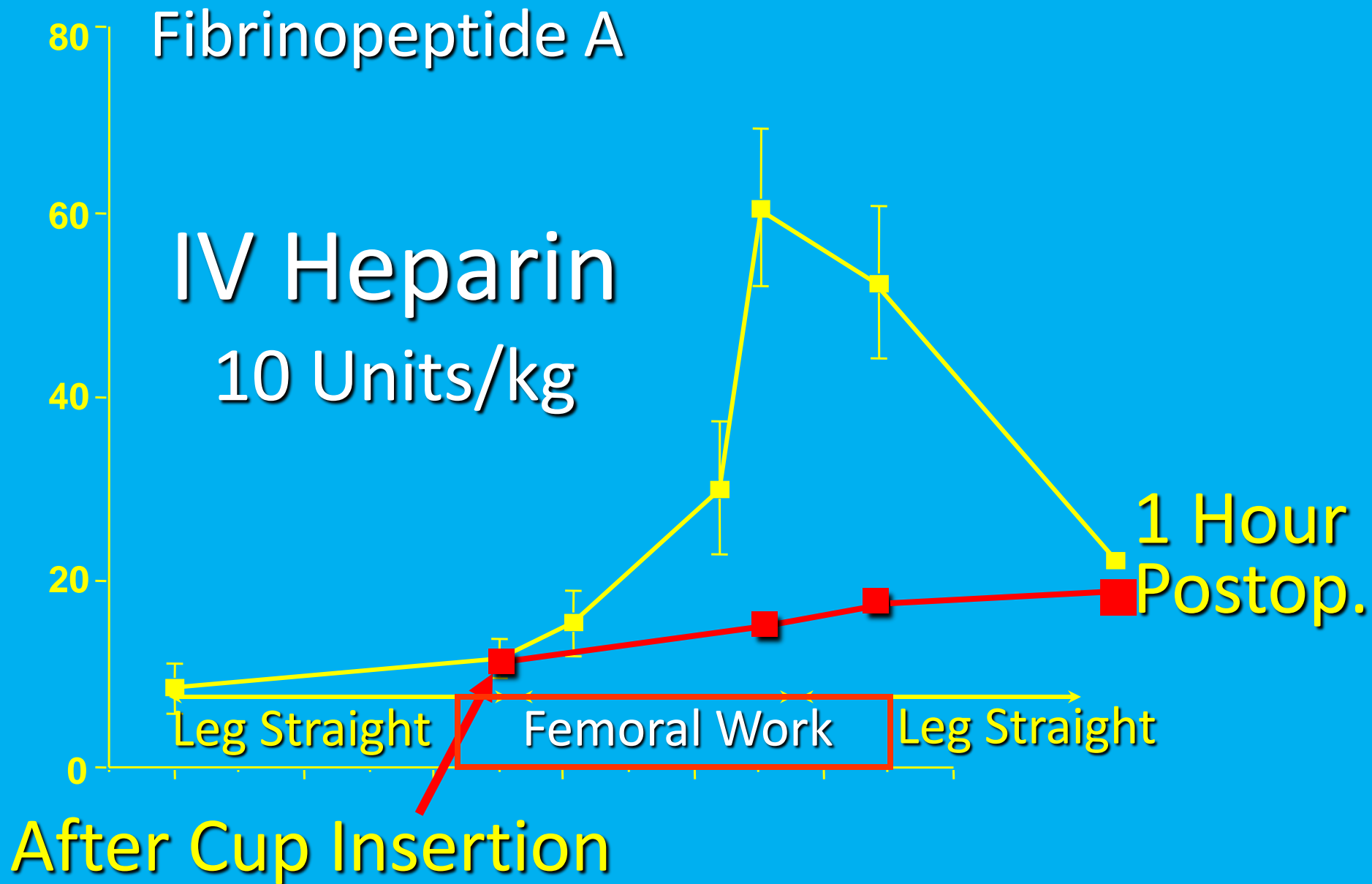
Heritable Thrombophilia and

Development of Thromboembolic Disease

after THA

Salvati, Gonzalez, Westrich, Glueck CORR 2005

Time Stamp: 33:00



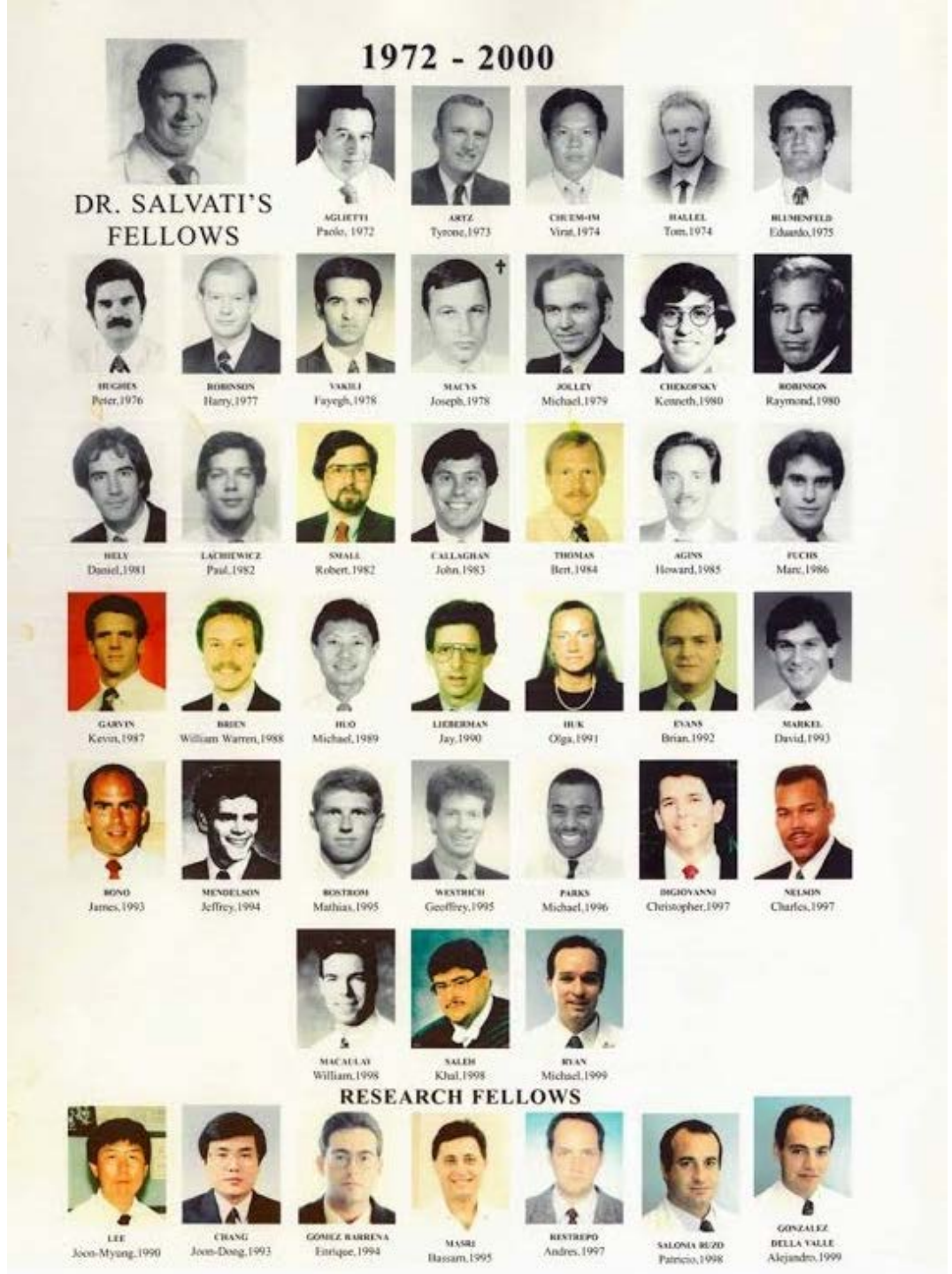
# The Response Is Dose-Related

10 Units / kg IV Heparin  
Safe & Effective

No Effect on Intraop. Blood Loss,  
Postop. Hct, Wound Healing.

Sharrock N, Sculco T, Westrich G, Salvati E.  
Anesthesiology. Apr. 1999

Time Stamp: 36:00



# Dr. Salvati's Hip Fellows 1972-2000





Dr. Salvati's Hip Fellows and Collaborators, Members of the American Hip Society

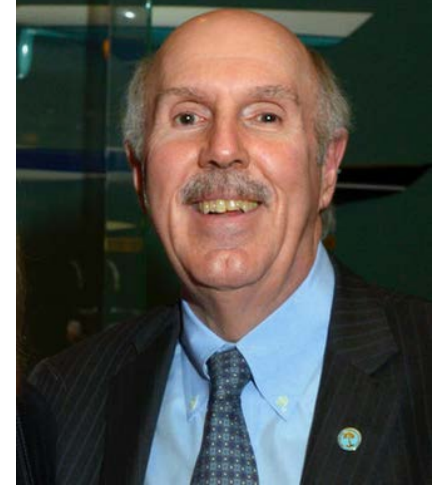
Time Stamp: 36:30



Dr. Salvati Receiving the Life Time Achievement Award of The International Hip Society, with his previous Fellows and Residents, Members of the IHS. 2023



# Cement can also provide Delivery of Antibiotics



Callaghan JJ, Salvati EA, Brause BD, Rimnac CM, Wright TM. HIP SOCIETY-FRANK STINCHFIELD AWARD, 1985.

Reimplantation for salvage of the infected hip:  
Rationale for the use of Gentamicin impregnated  
cement and beads.

Salvati EA, Callaghan JJ, Brause BD, Wright T, et al:  
Reimplantation in infection: Elution of gentamicin from  
cement and beads. Clin. Orthop. 207:83-93, 1986.

Time Stamp: 40:30

## GENTA RESISTANT

24 / 76    3 Recurrences

12,5 %

## GENTA SENSITIVE

52 / 76    3 Recurrences

5,8 %

Time Stamp: 40:50

# Gentamicin Impregnated Cement Is Beneficial in Reimplantation of Periprosthetic Infections

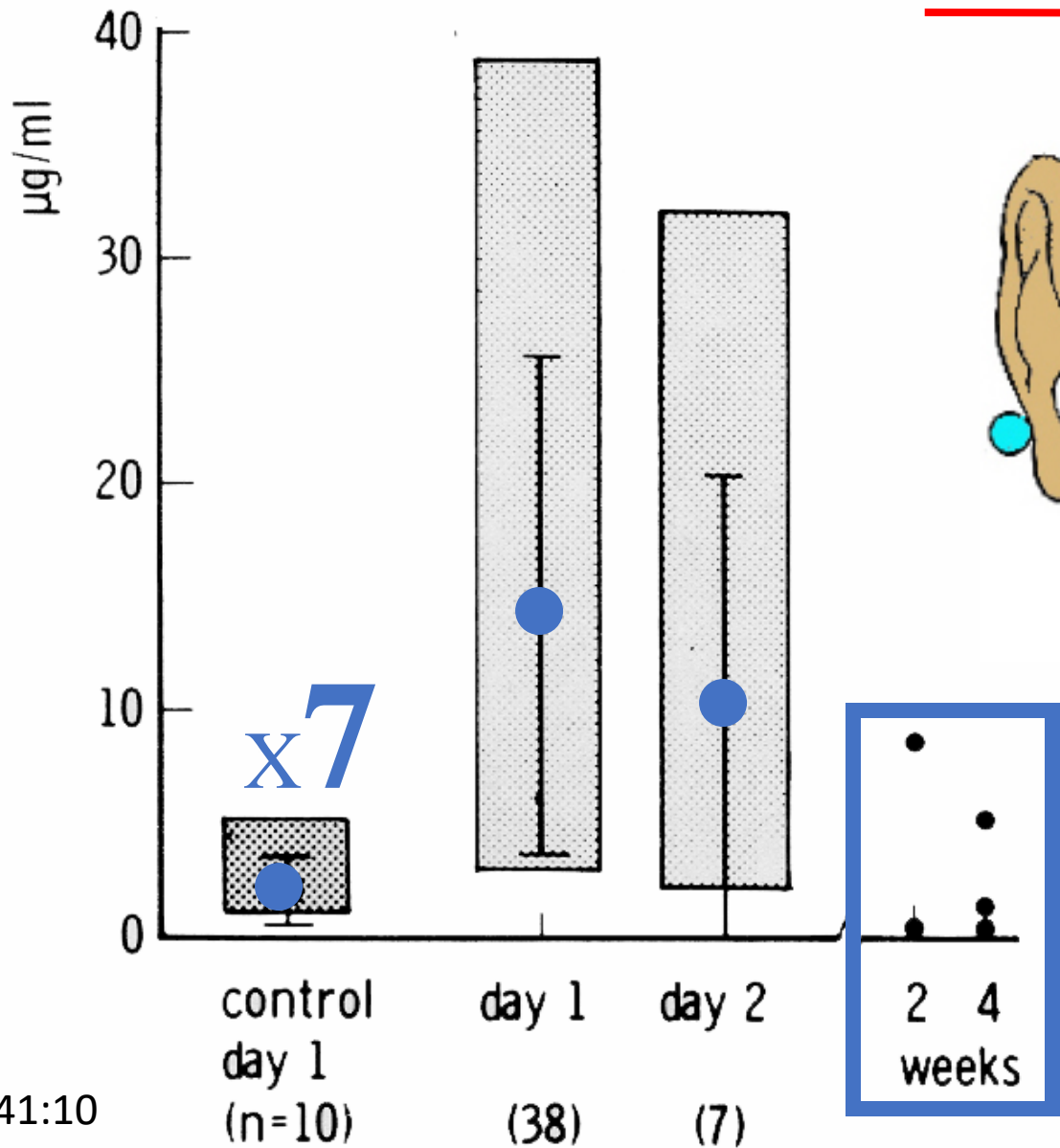


Garvin KL, Evans BG, Salvati EA, Brause BD. Palacos Gentamicin for the Treatment of Deep Periprosthetic Hip Infections. Clin. Orthop. 298:97-105, 1994.

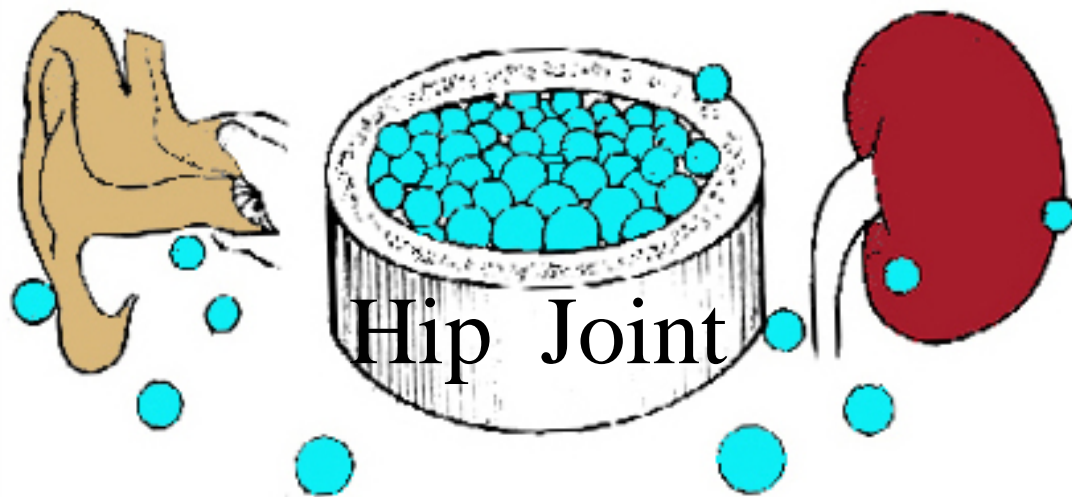
Garvin KL, Fitzgerald RK, Salvati EA. Reconstruction of the Infected THA and TKR with Gentamicin-Impregnated Palacos Bone Cement. Instructional Course Lectures, 1993; 42:293-302

**JOINT FLUID**

38 patients



# Gentamicin Elution



**Low Risk Oto & Nephro Toxicity**

Time Stamp: 42:20

# The 1985 Frank Stinchfield Award of The American Hip Society

## Reimplantation in Infection

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### Elution of Gentamicin From Cement and Beads

EA Salvati, J Callaghan, BD Brause. CORR. June, 1986



**PALACOS®R+G**

Radiopaque bone cement  
containing 1 x 0.5g Gentamicin

1x40

Gentamicin 1x0.5g

**CAUTION:**

Federal law U.S.A. restricts this device to sale,  
distribution, and use by or on the order of a physician.

Do not inject. Do not swallow.

PALACOS®R+G complies with ISO 5833.



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Dues, Ohio 44622 U.S.A.

Manufacturer:  
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