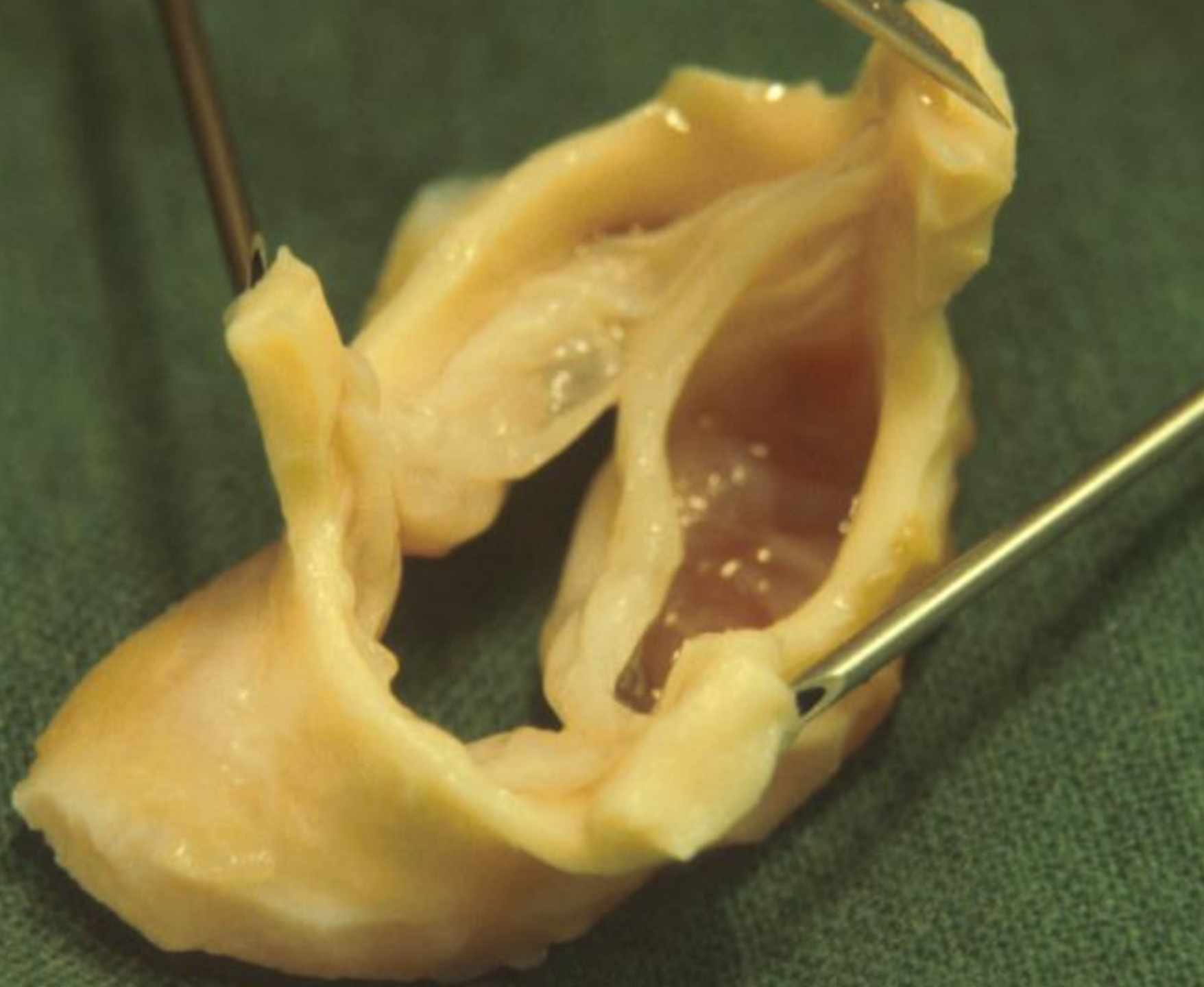
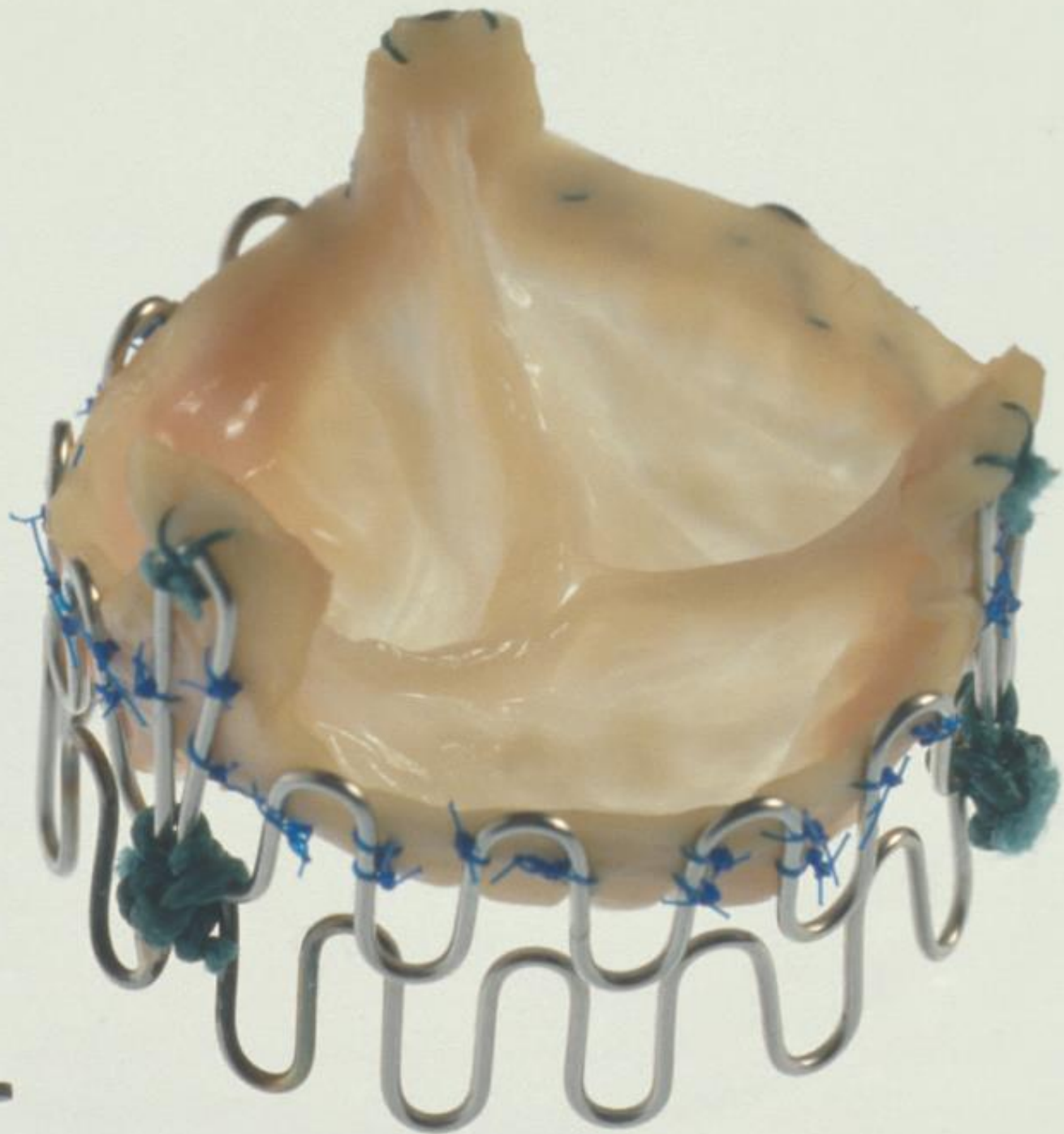


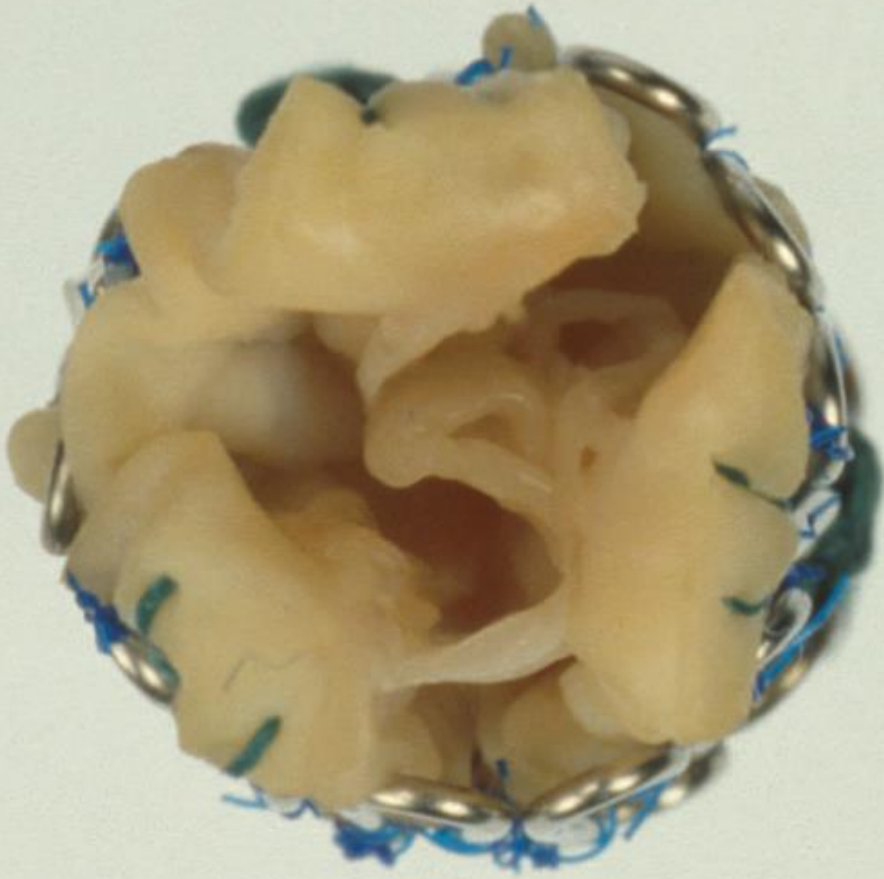
**February 1989**

**Phoenix  
Arizona**



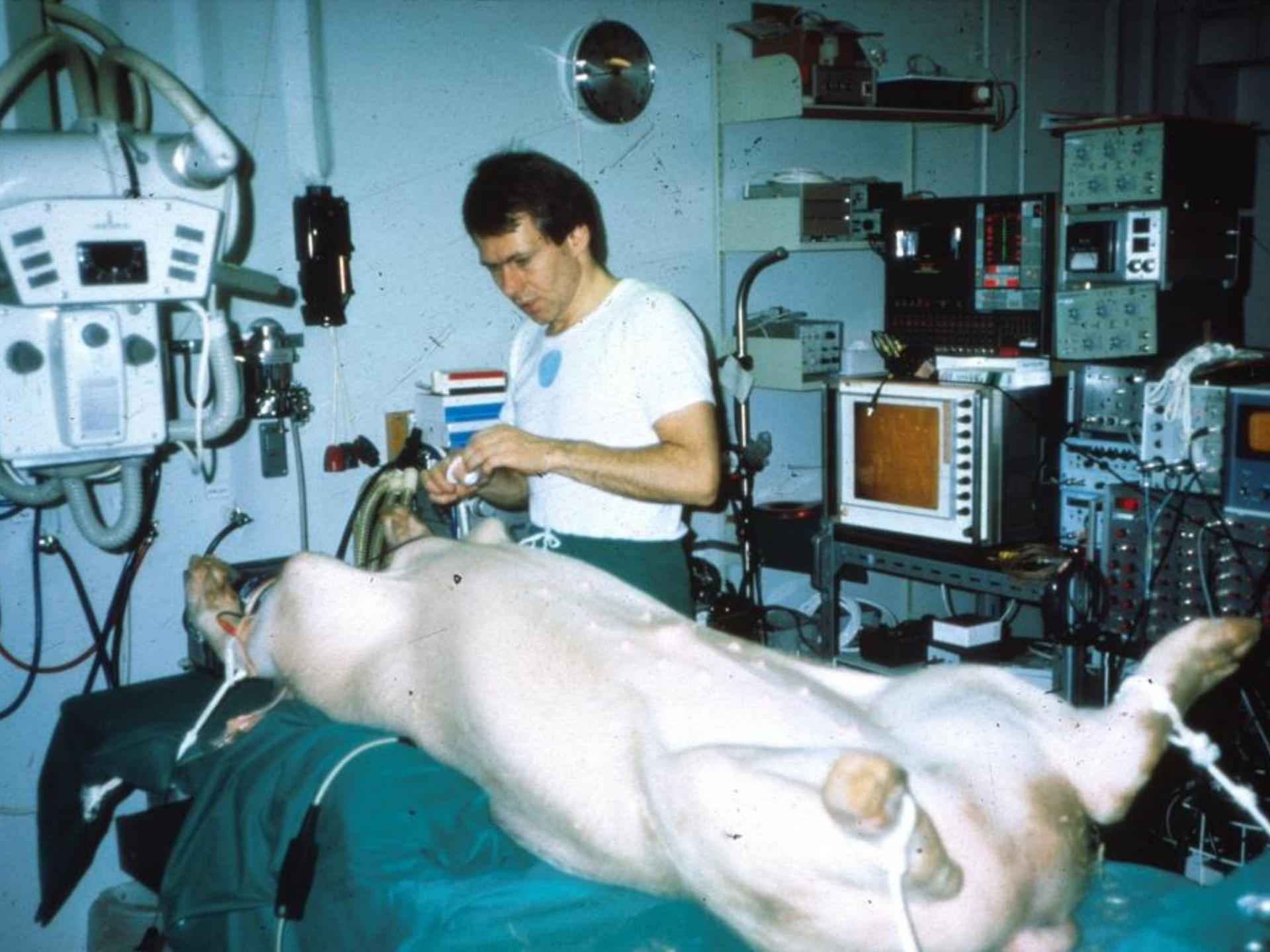


















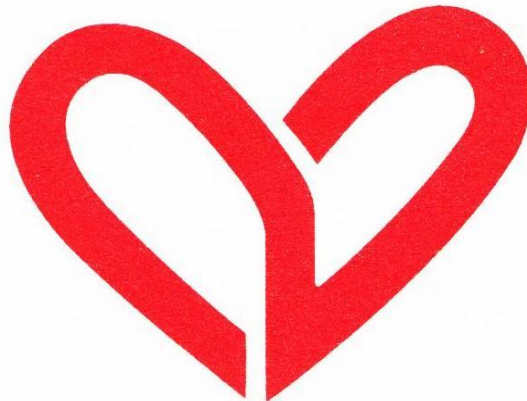
**2½ months from idea  
to proof-of-concept**



# Dansk Cardiologisk Selskab's

30-Års Jubilæumssymposium  
(129. møde)

18.-19. maj 1990  
Hotel H. C. Andersen  
Odense



19. maj 1990

**5. session:**

kl. 9.00 - kl. 10.30 : Moderator: **professor, overlæge, dr.med. Per Henningsen.**  
**"Young Investigators Award".**  
Præsentation af udvalgte forskningsprojekter med efterfølgende prisoverrækkelse (DCS's Jubilæumsfond).

kl. 10.30 - kl. 11.00 : Kaffe, **udstilling.**

**6. session:**

kl. 11.00 - kl. 12.30 : Moderator: **Professor, overlæge, dr.med. Stig Haunsø.**  
**"Dansk kardiologi, fremtidig forskning"** (sponsoreret af Hjertereforeningen).  
Foredragsholdere: Professor Guiseppa Ambrosio, Italien.  
**"Oxygen free radicals in myocardial ischemia and reperfusion".**  
Professor Harald Tillmanns, Tyskland.  
**"Disturbance of the coronary microcirculation in myocardial ischemia: experimental and clinical data".**  
Professor Patrick W. Serruys, Holland.  
**"Revascularisation of ischemic myocardium: present and future techniques".**



JACC  
Journal of the American College of Cardiology

Simon Dack, MD, Editor-in-Chief  
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July 26, 1990

**1990 Impact Factor: 5.9**

Dr. Henning Andersen  
Cardiology  
Skejby University Hospital  
DK-8200 Aarhus N DENMARK

Dear Dr. Andersen:


re: MS # JACC00333  
AUTHORS: Andersen  
TITLE: Implantation of Artificial Heart Valves

Pages 22 Figs 7 Parts 7 Tables 2

Thank you for letting me see this manuscript. I am sorry to have to reject it, but my overall rating is that it has too low a priority for publication in JACC. The comments of our reviewers are enclosed for your information.

With best wishes.

Sincerely,

  
Simon Dack, MD  
Editor-in-Chief



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Sincerely,

  
Simon Dack, MD  
Editor-in-Chief

Never ever give up!





Editorial Office  
2223 Avenida de la Playa  
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FAX 619/454-0921

February 5, 1991

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Department of Cardiology  
Skejby University Hospital  
Breadstrupgaardsvej  
DK - 8200 Aarhus N

**1991 Impact Factor: 9.0**

RE: CR901049, "Implantation of Artificial Heart Valves"

Dear Dr. Andersen:

Your revised manuscript has been reviewed by the original reviewers and by an additional referee. While it has been improved, I'm afraid that the consensus of the editors and the referees is that its priority remains too low for publication in *Circulation*. Comments are enclosed for your information, which we hope will be useful in preparing for resubmission elsewhere.

A number of considerations in addition to the referees' comments were taken into account by the editors in reaching this decision. Because of the large number of manuscripts submitted to *Circulation*, some worthwhile papers cannot be published. Thank you for submitting your manuscript to the journal, and I hope you will consider submitting other manuscripts to us again in the future.

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# ESC 1992, Barcelona

P2380

## TRANSLUMINAL CATHETER IMPLANTATION OF A NEW EXPANDABLE ARTIFICIAL HEART VALVE IN THE DESCENDING THORACIC AORTA IN ISOLATED VESSELS AND CLOSED CHEST PIGS

L.L. Nielsen, B.B. Andersen, J.B. Hansen, Department of Cardiology and Institute of Clinical Experimental Research, State University Hospital, DK-2200 Århus N, Denmark. 

### AIM

In-vitro and in-vivo evaluation of the stent-valve implanted in the thoracic aorta.

### IMPLANTATION TECHNIQUE

compressed



expanded

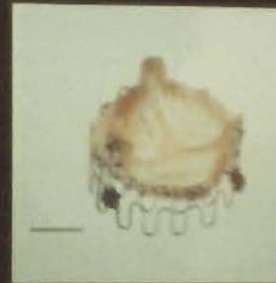


### IN-VIVO IMPLANTATION

compressed    expanded    implanted



### THE STENT-VALVE



### IN-VITRO VALVE STENOSIS (N=4)



### IN-VITRO VALVE INCOMPETENCE (N=4)



No.	leakage flow
1	270 ml/min
2	280 ml/min
3	270 ml/min
4	270 ml/min
5	270 ml/min
6	270 ml/min

### IN-VIVO EVALUATION (N=4)



- stenosis = 0 mm
- no leakage flow

### CONCLUSION

The stent-valve has good prosthesis significant stenosis or leakage flow

### IN-VITRO PROSTHESIS STABILITY (N=4)



# AHA 1992, New Orleans





# EUROPEAN HEART JOURNAL

The Journal of the European Society of Cardiology

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Basic Cardiology Editor: Dr D.L. Brutsaert, University of Antwerp, Physiology Laboratory,  
Groenenborgerlaan 171, 2020-Antwerpen, Belgium

Ref. DLB/2437.91/00

3rd October, 1991.

Henning Ivar Andersen, M.D., D. Sc.,  
Department of Cardiology  
Skejby University Hospital  
Brendstrupgaardsvej  
DK - 8200 Aarhus N  
Denmark

Dear Dr. Andersen,

We are pleased to let you know that your paper Ms EHJ 80-109 entitled: "Transluminal implantation of artificial heart valves. Description of a new expandable aortic valve and initial results with implantation by catheter technique in closed chest pigs" is accepted for publication.

We will forward the manuscript without delay for further processing.

Very sincerely yours,

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*European Heart Journal* (1992) 13, 704–708

**1992 Impact Factor: 1.6**

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Description of a new expandable aortic valve and initial results  
with implantation by catheter technique in closed chest pigs**

H. R. ANDERSEN\*, L. L. KNUDSEN\* AND J. M. HASENKAM†

*Departments of \*Cardiology, †Thoracic and Cardiovascular Surgery, and the Institute of Experimental Clinical Research, Skejby University Hospital, Aarhus, Denmark*



**What about the industry ?**



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Holland

Dear [redacted]

Thank you for an informative meeting in Odense, Denmark, May, 16.  
th, 1990.

Further to our discussions about artificial heart valves and  
stents, I enclose some material about our research activities  
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Sincerely yours,

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Universitetshospital Århus Amt

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**Edwards Lifesciences**

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DENMARK



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Medtronic, Inc., Mpls., MN USA

Cost Center:

8012

Dear Per:

Thank you for sending the manuscript on the Expandable Stent Valve. While it is still early in the concept feasibility stage, it is something that I would like to follow closely.

Unfortunately, my trip to Europe in August is fully scheduled and hence I cannot meet with Dr. Andersen on the dates you suggested. However, I will be back in Europe in September for the EACTS meeting (17-19 Sep-



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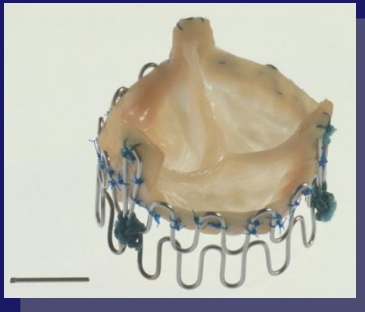
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# The ugly duck

Invention  
FIA - Aorta



1989

13 years



FIM - Aorta



2002