

**UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF OHIO
WESTERN DIVISION**

ARTHUR RAY BOWLING, ET AL.,	:	
	:	No. C-1-91-256
PLAINTIFF,	:	
	:	
v.	:	JUDGE HERMAN J. WEBER,
	:	SENIOR JUDGE
PFIZER, INC. ET AL.,	:	
	:	
DEFENDANT.	:	

**NOTICE OF FILING OF THE TWENTY-NINTH REPORT OF THE
SPECIAL MASTERS/TRUSTEES COVERING THE PERIOD
FROM APRIL 2, 2008 TO OCTOBER 8, 2008**

NOTICE IS HEREBY GIVEN to all counsel of record that the TWENTY-NINTH REPORT OF THE SPECIAL MASTERS/TRUSTEES COVERING THE PERIOD FROM APRIL 2, 2008 TO OCTOBER 8, 2008 is hereby filed with the Court.

Respectfully submitted,

/s/ Nancy A. Lawson _____
Nancy A. Lawson (0012699)
DINSMORE & SHOHL LLP
1900 Chemed Center
255 East Fifth St.
Cincinnati, OH 45202
(513) 977-8200
*Attorney for
Special Masters/Trustees*

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF OHIO
WESTERN DIVISION

IN RE: : Case No. C-1-91-256
: :
BOWLING-PFIZER LITIGATION : Judge Herman J. Weber,
: Senior Judge

TWENTY-NINTH REPORT OF THE SPECIAL MASTERS/TRUSTEES
COVERING THE PERIOD FROM APRIL 2, 2008 TO OCTOBER 8, 2008

SPECIAL MASTERS/TRUSTEES

James A. Higgins, Esq.
Peter J. Strauss, Esq.

AGENDA

TWENTY-NINTH REPORT OF THE SPECIAL MASTERS/TRUSTEES

In Re: Bowling-Pfizer Litigation

Case No. C-1-91-256

October 23, 2008

11:00 A.M.

Hon. Herman J. Weber, Senior Judge

1. Introductory remarks by Judge Weber.
2. Report of the Special Masters/Trustees.
3. Comments from Counsel:
 - Class Counsel.
 - Counsel for Defendants.
4. Questions and comments from those in attendance.
5. Request for date of next report of Trustees.
6. Closing remarks of Judge Weber.

TABLE OF CONTENTS

- A. Twenty-Ninth Report of the Special Masters/Trustees
- B. Appendices to Court Report
 - 1. Index of Intellectual Property
 - 2. Summary of Research
 - 3. "Hit Report" regarding the Supervisory Panel's Website.
 - 4. Unaudited balance sheet as of August 31, 2008 and an unaudited statement of income and funds balance for the eight months ended August 31, 2008.

**UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF OHIO
WESTERN DIVISION**

IN RE: : **Case No. C-1-91-256**
:
BOWLING-PFIZER LITIGATION : **Judge Herman J. Weber,**
: **Senior Judge**

TWENTY-NINTH REPORT OF THE SPECIAL MASTERS/TRUSTEES

To the Honorable Herman J. Weber, Senior Judge, United States District Court:

Your Special Masters/Trustees respectfully present their twenty-ninth periodic report, covering activities from April 2, 2008 to October 8, 2008. This report is submitted fifteen days prior to the status hearing before the Court scheduled for October 23, 2008.

I. PATIENT BENEFIT FUND

A. Supervisory Panel. The patient studies with the ACES device at The Ohio State University have been concluded and a final report was received in May, 2007. The imaging and acoustics committee was favorably impressed with the ACES work and made a recommendation to the full panel for continued studies. The panel considered the results of the ACES work and agreed that there was sufficient promise in the technology to pursue additional work. Therefore, a research project for ACES to study the BSCC heart valve sound recordings made on patients who participated in the imaging studies at Stanford and Beaumont was recommended by the panel and approved by the Court. That study is ongoing. The panel has recommended the approval of a short-term study by Dr. J. de Hart of Eindhoven University in The Netherlands entitled "Outlet strut vibratory response study of BSCC valves at disc-strut closure impact". The

purpose of the study is to conduct in vitro research on seven BSCC heart valves, including the valve which had been implanted in a sheep at BioSurg, but was misclassified.

With regard to BioQuantetics, the panel has been unsuccessful in obtaining a report on the clinical trials from Dr. Rambod. The trials were done without the sponsorship or funding of the Trustees. The Trustees have been advised by Dr. Rambod, however, that no device employing the technology funded by the Trust has been developed.

The panel has been working with MedicAlert in an effort to develop a program in which MedicAlert expands its services to other countries. The Supervisory Panel has recently received a proposal from MedicAlert to provide emergency alert services to class members in Europe. The Panel will work with MedicAlert to determine if this is a feasible project.

At the hearing with the Court on April 30, 2008, the Court requested an analysis of the Bowling Pfizer contracts to determine if there is potential for any of the contracts to provide funds into the Trust for the benefit of the Class. Counsel for the Trustees has analyzed the contracts to determine whether there is any intellectual property which could be used to generate funds for the Class. Attached as Appendix 1 to this report is a chart listing the Trustees' inventory of intellectual property. Exhibit A to the chart lists the two research projects for which a patent application may be filed in the future. The first is BioQuantetics which will pay royalties to the trust if BioQuantetics derives income from commercialization of the technology resulting from the research funded by the Trust as the Trust licensed the technology to BioQuantetics. To date, no product has been commercialized and no income has been generated as a result of any product commercialization. The second research project for which a patent application may be filed is the ACES research. All rights are reserved to the Trust and it is not known at this time whether a device will be developed which could be commercialized and could

generate funds for the Trust. Exhibit B to Appendix 1 is a list of the research projects sponsored by the Trust for which patent applications will not be filed.

At the April 30, 2008 hearing with the Court, the Court also requested that the Trustees investigate the ramifications of indemnification by the Trust of the parties who are not otherwise protected by insurance in the event that the trust funds dwindle to the extent that indemnification is meaningless. The Trustees have analyzed this issue and determined that commercial insurance should be investigated. Therefore, the Trustees have submitted applications for such insurance from the Chubb Group of Insurance Companies and to Roy Kuhnell, an independent insurance broker at Dempsey & Siders Agency, Inc., in Cincinnati. No quotations for insurance have been received to date, but when they are, the Trustees will report to the Court. The insurance, if obtained would cover the members of the Supervisory Panel, the Trustees, the Administrator, and the three employees in the Bowling office.

B. Guidelines. Drs. Harrison, Ibrahim and Ivey regularly monitor the pertinent world-wide literature and review reported events occurring to class members to ensure that any issues which may impact the guidelines are detected and considered by the full panel.

C. Research. Our report on the status of the research program of the Supervisory Panel is set out in the attached Appendix 2.

D. Imaging. Since the imaging program at Penn State resumed again, effective April 26, 2005, there have been eleven imaging sessions for seven implantees who may qualify for valve replacement surgery. One implantee was imaged three times and two implantees were imaged two times during this period.

E. Repository. The Supervisory Panel maintains a repository of certain documents and information concerning the BSCC heart valve. The repository contains reports on the results of research sponsored by the Supervisory Panel, minutes of meetings of the Supervisory Panel, a

bibliography of published literature regarding the BSCC heart valves, certain unpublished reports prepared by Dr. Ron Brookmeyer of his statistical analysis, the Bowling Settlement Agreement, and other information. The repository is available electronically in a database. Some of the information, such as published articles are not available for review due to copyright and other intellectual property concerns. To access the on-line repository, an individual need only contact the Trustees' office for the website address and a password.

F. Website. The Supervisory Panel's website continues to be found at www.bowling-pfizer.com. It provides basic information on the parties involved (biographies, addresses, telephone numbers, email, etc.), certain orders of the Court including the Guidelines, the Settlement Agreement, Trustee Reports and a bibliography of relevant articles as well as other important information. The panel prepared a summary of key studies which is intended to provide a more user-friendly bibliography. This user-friendly bibliography is available on the website. A copy of the most recent "hit report" of the Supervisory Panel's website is attached to this Report as Appendix 3.

G. Valve Replacement Surgery Claims and Fracture Claims.

The Claims Administrator continues to receive and process claims for valve replacement surgery and outlet strut fracture. Some of the claimants have elected other courses of action rather than to receive the Settlement benefits.

From the beginning there have been 98 (74 foreign) qualified outlet strut fracture claims and 99 (39 foreign) qualified valve replacement surgery claims other than single leg fracture claims. In addition, there have been 39 (16 foreign) single leg fracture claims.

The office of the Claims Administrator continues to fulfill requests to calculate estimated annual fracture rates under the 2007 Guidelines and to respond to other inquiries from and on behalf of Class Members.

III. FINANCIAL INFORMATION

At August 31, 2008, the total balance of cash and cash equivalents was \$22,259,241.

Attached as Appendix 4 are the following: an unaudited balance sheet as of August 31, 2008 and an unaudited statement of income and funds balance for the eight months ended August 31, 2008 (which includes the budgeted amounts for expenses for the administrative office for the period January 1, 2008 through December 31, 2008).

IV. COMMUNICATIONS

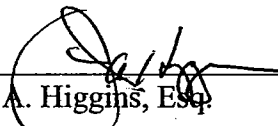
Communications remain open, whether with physicians, Class Members, other BSCC heart valve implantees, Class Counsel, Special Counsel, Defendant's Counsel, or Counsel for Public Citizen.

V. APPROVALS


Your honor, the Special Masters/Trustees request that the Court:

- Approve this Report, and
- Approve, or provide guidance with respect to, each of the Appendices to this Report, and
- Provide guidance with respect to any duty of the Special Masters/Trustees, and
- Fix the date for the next Report.

Respectfully submitted,



James A. Higgins, Esq.



Peter J. Strauss, Esq.

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a copy of this Twenty-Ninth Report of the Special Master/Trustee Covering Period from April 3, 2008 to October 8, 2008, has been electronically sent to the following this 8th day of October, 2008.

Stanley M. Chesley, Esq.
Fay E. Stiliz, Esq.
Waite, Schneider, Bayless & Chesley Co., LPA
1513 PNC Tower
5 West Fourth Street
Cincinnati, OH 45201

Brian Wolfman, Esq.
Public Citizen
1600 20th Street, NW
Washington, D.C. 20009-1001

Jack B. Harrison, Esq.
Frost Brown Todd LLC
2200 PNC Center
201 East Fifth Street.
Cincinnati, OH 45202

James T. Capretz, Esq.
5000 Birch Street
Suite 2500
Newport Beach, CA 92660

John T. Johnson, Esq.
55 Waugh Drive, Suite 505
Houston, TX 77007

Gregory Wallance, Esq.
Kaye Scholer LLP
425 Park Avenue
New York, NY 10022

/s/ Nancy A. Lawson

Nancy A. Lawson

APPENDIX

1

EXHIBIT A
CURRENT AND PROSPECTIVE TECHNOLOGY AND
INTELLECTUAL PROPERTY RIGHTS OF CLASS FOR WHICH
PATENT APPLICATIONS MAY BE FILED.

	Institution	Date	Description of Project	Ownership
1.	BioQuantetics, Inc.	May, 2000 through September, 2006	Development of ultrasound related techniques and devices for the detection of single leg separation in BSSC heart valves.	Licensed to BioQuantetics. Royalties to be paid by BioQuantetics if BioQuantetics derives income from commercialization of the technology resulting from research funded by the Trust. To date, no product has been commercialized and no income has been generated as a result of any product commercialization.
2.	ACES	January, 2006 - present	Passive acoustic detection of implanted BSSC heart valves in sheep and patients.	All rights retained.

**EXHIBIT B
RESEARCH PROJECTS SPONSORED BY THE
BOWLING-PFIZER TRUSTEES FOR WHICH PATENT
APPLICATIONS WILL NOT BE FILED**

	Institution	Date	Description of Project	Ownership
1.	Stichting BSCC-Hartkleppen Onderzoek Nederland and University of Utrecht, Julius Center for Patient Oriented Research	March, 1995 through December, 2005	Continuation of Dutch Follow-up Study. This project was originally sponsored by Shiley Incorporated and was assumed by the Trustees. Purpose is to provide more precise information regarding the hazards of strut fracture over a long period of time and better define subgroups of BSCC patients who are at higher risk of outlet strut fracture	No IP provision in Agreement
2A.	BioSurg, Inc.	June, 1995 through December, 1996	Maintenance of flock of sheep originally maintained for Shiley Incorporated.	
2B.	BioSurg, Inc.	October 2005 to September 2006	Implantation of BSCC heart valve in living sheep; support of in vivo testing of sheep by the other panel sponsored researchers, maintenance and euthanasia of sheep.	
3.	Royal Post Graduate Medical School and RPMS Technology Limited and in December 2001 I.C. Consultants Limited, Acting on behalf of Imperial College School of Science, Technology and Medicine	July, 1995 through December, 2003	UK cohort study. Continued monitoring of the BSCC heart valve population in the UK.	Rights retained to new IP. Trustees agreed no interest in background IP.
4.	The Board of Trustees of the Leland Stanford Junior University and Stephen N. Oesterle, M.D.	November, 1995 through December, 1996	Continuance of imaging program originally sponsored by Shiley Incorporated.	Stanford retained IP rights. Trustees retained exclusive license to use technology.

5.	West Glasgow Hospitals University NHS Trust	November, 1995 through December 31, 1996	Continuance of imaging program originally sponsored by Shiley Incorporated.	All rights retained.
6.	William Beaumont Hospital	November, 1995 through December 31, 1996	Continuance of imaging program originally sponsored by Shiley Incorporated.	All rights retained.
7.	Structural Acoustics, Inc.	November, 1995 through February, 1996	Verify and test SAI algorithm to classify BSCC valves as intact or SLS from acoustic signatures.	SAI retained IP rights. Trustees retained exclusive license with right to sub-license.
8.	Cinema Research Corporation	November, 1995 through December 31, 1996	Reproduction of cine film.	No IP provision in Agreement.
9.	Tracor Applied Sciences, Inc.	November, 1995 through December 31, 1996	Data quality assurance testing on acoustic data obtained at Stanford, Aachen, and Glasgow imaging sites. Maintenance and acoustic support for phonocardiographic data acquisition systems at Stanford, Aachen, and Glasgow imagine sites.	All rights retained.
10.	Medical Data Research Center of the Providence Health System	January, 1996 through April, 1996	Literature analysis of reoperative risk focusing on 90 day and one year morbidity and mortality outcome. Analysis of Shiley Heart Valve Research Center database to determine projected occurrence of actual OSF over time.	All rights retained.
11.	The Pennsylvania State University and The Milton S. Hershey Medical Center	May, 1996 through May, 1997	To determine the feasibility of detecting single leg separation in BSCC heart valves by radiographic imaging through use of static water bath and a working phantom.	All rights retained.
12.	The United States Department of Energy (Lawrence Livermore National Laboratory)	July, 1996 through November, 1996	Process blinded BSCC heart valve acoustic recordings. Design, assemble and operate instrumentation to acquire and analyze anechoic acoustic data from a matrix of BSCC heart valves.	Retained right to elect to retain rights. Trustees granted U.S. Government a non-exclusive license to practice process worldwide.

13.	William Beaumont Hospital	July, 1998 through July, 2000	Epidemiologic follow-up study of patients who previously participated in imaging study at William Beaumont Hospital.	No IP provision in Agreement.
14.	West Glasgow Hospitals University NHS Trust	August, 1998 through August, 2000	Epidemiologic follow-up study of patients who previously participated in imaging study at Western Infirmary Glasgow	No IP provision in Agreement.
15.	Health Data Research, Inc.	November, 1998 through April, 2000	Assessment of the risks and outcomes of patients undergoing heart valve re-placement. To determine the morality and morbidity outcomes of patients requiring re-operation due to heart valve complications. To test (validate) the accuracy of the Piehler model on a data set	All rights retained.
16.	The Board of Trustees of the Leland Stanford Junior University and Stephen N. Oesterle, M.D.	December, 1998 through December, 2000	Epidemiologic follow-up study of patients who previously participated in imaging study at Stanford University Hospital.	No IP provision in Agreement.
17.	The Board of Trustees of the Leland Stanford Junior University and Stephen N. Oesterle, M.D.	December, 1998 through December, 1999	X-Ray imaging study of BSCC patients.	Stanford retained IP rights. Trustees retained exclusive license with right to sub-license.

18.	California Institute of Technology	May, 1999 through November, 1999	To apply state-of-the-art, high frame rate, parallel processing digital color Doppler ultrasound system measurements in-vitro, to differentiate the actively excited resonance frequencies by the single-leg-separation valve from that of an intact outlet strut valve.	CIT retained IP rights. Trustees retained exclusive license with right to sub-license.
19.	Edison Welding Institute	May, 1999 through February, 2000	To study welding process variables to identify the variables that have the most significant effect on joint integrity; conduct a failure analysis of the welded joints of the BSCC heart valve; use computer modeling of residual stress to determine the stress state in the as-welded condition prior to implantation and during operation; and, evaluate the aspects of the weld design that may contribute to failures in BSCC heart valves.	All rights retained.
20.	University of Cincinnati on Behalf of Institute for Health Policy and Health Services Research	June, 1999 through June, 2000	To evaluate the quality and comprehensiveness of the research conducted regarding the failure of the BSCC heart valve and to develop recommendations regarding the use of such research and areas for future research which may be beneficial to class members.	UC retained IP rights. Trustees retained exclusive license with right to sub-license.
21.	Battelle Memorial Institute, Commercial Business Operations	July, 1999 through December, 1999	Review of research projects previously completed by Shiley, Pfizer or the Trustees and make recommendations about future research projects.	Battelle retained IP rights. Trustees retained exclusive license with right to sub-license.
22.	University of Utrecht, Julius Center for Patient Oriented Research	July, 1999 through July, 2001	MRI brain scan used as indicator of valve failure and whether paramagnetic defects are associated with cognitive disturbances.	All rights retained.

23.	Vanderbilt University	July, 1999 through July, 2000	To determine the feasibility of two noninvasive electromagnetic approaches and three electromagnetic or acoustic invasive techniques to the detection of single leg separation.	Vanderbilt retained IP rights. Trustees retained exclusive license with right to sub-license.
24.	The Pennsylvania State University and The Milton S. Hershey Medical Center	May, 2000 through present	Imaging program to determine whether single leg separation can be detected using radiographic imaging techniques.	All rights retained.
25.	Imperial College School of Medicine at Hammersmith Hospital	November, 2000 through March, 2003	Examine the influence of multiple hook deflection tests and other characteristics of the manufacturing process on the risk of outlet strut fracture among 60 degree BSCC heart valves.	All rights retained.
26.	Karolinska Institute	April, 2001 through May, 2003	Follow-up cohort study of BSCC patients in Denmark, Finland, Norway, Sweden and Poland.	All rights retained.
27.	MedicAlert Foundation	October, 2001 through October, 2002	Updating of the MedicAlert cohort study of BSCC patients in the United States to assess whether risk of fracture and death changed over time	All rights retained.
28.	University of Sheffield	December, 2001 through June, 2003	Prediction of closure forces on 60 degree BSCC heart valves. Assist with the quantification of risk for existing 60 degree valves	All rights retained.
29.	Jeffrey Crompton and Bahram Farahbakhsh	April, 2002 through July, 2002	Detection of outlet strut fracture in BSCC heart valves using passive acoustics	All rights retained.
30.	Duke University Medical Center	May, 2002 through November, 2003	Compare morbidity and mortality of redo mitral operation using port access versus standard right thoracotomy versus sternotomy	Duke retained IP rights. Trustees retained exclusive license with right to sub-license.

31.	University of Utrecht, Julius Center for Patient Oriented Research	June, 2002 through June, 2004	Association between manufacturing characteristics and metallurgy. To determine any relationship between manufacturing characteristics and defects other than outlet strut fracture, such as single leg fractures, cracks and other micro defects.	All rights retained.
32.	University of Alabama at Birmingham	July, 2002 through July, 2004	Evaluation of a combined therapy approach for improved intra-operative myocardial protection during prosthetic valve re-operation. To define a combined therapy approach to protecting the heart during cardiac surgery that will be directly applicable to clinical surgery.	UAB retained IP rights. Trustees retained non-exclusive license with right to sub-license.
33.	International Epidemiology Institute, Ltd.	November, 2003 through November, 2004	Quality of life and health survey. Conduct a long-term follow-up of BSCC patients in the USA regarding prescription drug use and health status.	All rights retained.
34.	Eindhoven University of Technology	November, 2003 through November, 2004	In-vitro analysis to evaluate the effect of modeling assumptions and boundary conditions on BSCC heart valve loading. Validation of modeling assumptions and boundary conditions of the computational work performed by EWI and Sheffield University.	All rights retained.
35.	Cleveland Clinic Foundation	January, 2004 through January, 2005	Three dimensional motion of prosthetic heart valves by computed tomography and echocardiography. Define the three-dimensional trajectory of prosthetic heart valves to define movement of the outlet strut throughout the cardiac cycle. Obtain echocardiographic images to delineate the motion of the valve and devine the closing velocity of the disc by carefully oriented M-mode echocardiography.	All rights retained.

36.	University Medical Center, Utrecht	January, 2004 through June, 2004	Assess the valve of three dimensional rotational angiography for detecting single leg separation in BSCC hart valves in vitro and subsequently in vivo.	All rights retained.
37.	EAR Medical Communications	January, 2004 through August, 2004	Drafting, translation and distribution of patient guide to 2003 Guidelines.	All rights retained.
38.	WESTAT, Inc.	February, 2004 through October, 2004	Survey physicians and class members to determine if and how the Guidelines are being used to support decisions regarding explantation of BSCC heart valves.	All rights retained.
39.	International Epidemiology Institute, Ltd.	May, 2004 through May 2005	USA piece of an international epidemiology study. Identify a cohort of patients who have undergone prophylactic replacement of their BSCC heart valves to determine mortality and health status in the years following explant surgery, and to compare the outcomes with those of similar patients who have not had their valves replaced.	All rights retained.
40.	Utrecht University, Julius Center for Health Sciences and Primary Care	May, 2004 through May 2005	Dutch piece of an international epidemiology study. Identify a cohort of patients who have undergone prophylactic replacement of their BSCC heart valves to determine mortality and health status in the years following explant surgery, and to compare the outcomes with those of similar patients who have not had their valves replaced.	All rights retained.

41.	The Pennsylvania State University	September, 2004 through February, 2005. Contract was approved in May, 2003, however researcher just recently received manufacturing records from Pfizer. Six month term of the contract runs from the date of receipt of such manufacturing records.	Creation of a database of BSCC heart valve manufacturing records that will be available to assist the Supervisory Panel an identifying individual BSCC heart valves manufactured prior to April 1, 1984, presently implanted in registered members of the settlement class that are at a high risk of fracture.	All rights retained.
42.	Information Systems Laboratories	March, 1998 through March, 2005	Development of noninvasive techniques for the detection of single leg separation in BSCC heart valves. This project has developed and changed over time. Current work involves a noninvasive electromagnetic heart valve detection system. Animal studies have recently been approved.	All rights retained
43.	Michigan State University	October, 2001 through March, 2006	Development of three complimentary methods of detecting single leg separation: (a) EMAT based approach, (b) catheter-based eddy current probe with external excitation, and (c) differential eddy current probe approach. This project is ongoing and has developed over the past three years. Animal studies have recently been approved.	All rights retained
44A.	Edison Welding Institute	May, 2001 through February, 2002	To identify the stresses associated with disc closure and use such stresses to define the failure process that leads to outlet strut fracture.	All rights retained

44B.	Edison Welding Institute	May, 2001 through January, 2002	Vibration analysis of BSCC heart valves. To provide confidence in the ability to detect partially failed outlet struts and to identify the origin of the observed variation in the resonant frequency.	All rights retained
44C.	Edison Welding Institute	May, 2001 through October, 2001	To develop standard samples that can be used to examine the ability of advanced acoustic resonance techniques to detect partially failed outlet struts in BSCC heart valves.	All rights retained
44D.	Edison Welding Institute	March, 2002 through September, 2002	To develop a searchable database of design information that can be used to readily identify significant changes in the BSCC heart valve, and a database that catalogs changes in the BSCC heart valve that took place during production.	All rights retained
44E.	Edison Welding Institute	March, 2002 through June, 2002	To critically assess the capability of available passive acoustic technology to detect acoustic signals that are symptomatic of outlet strut fracture, and to develop a strategy for integrating key components into a novel passive acoustic system that can detect acoustic signals that are symptomatic of outlet strut fracture in the BSCC heart valve.	All rights retained
44F.	Edison Welding Institute	March, 2002 through February, 2003	To characterize the structural capabilities of the BSCC heart valve after single leg separation has occurred on the outlet strut.	All rights retained
45.	Miromico Inc., IPT GmbH and Strela Development AG	July, 2003 through March, 2005	Develop and test the first tele-monitoring prototype system for valve related cardiac emergencies. Miromico is currently beginning Phase II of this project which will be completed in approximately 6 months.	Royalty & licensing rights retained

46.	University Medical Center, Utrecht	October, 2003 through March, 2005	Development of a high-frequency, miniaturized, electromagnetic dip meter for early detection of single leg separation in BSCC heart valves from the esophagus.	All rights retained Preliminary Patent Application filed on October 8, 2004. No Final Patent Application filed.
47A.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	November, 2003 through August, 2004	Demonstration of a passive acoustics system using commercially available components for the detection of critical resonant frequencies caused by the vibration of the outlet strut of a BSCC heart valve.	All rights retained
47B.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	November, 2003 through September, 2004	Incorporate recent advances in technology to identify the effects of body cavities, tissue and bones on the intensity and origin of specific acoustic frequencies.	All rights retained
47C.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	March, 2004 through December, 2004	Critical evaluation of the role of crack initiation and crack growth in determining the lifetime for outlet strut fracture using computational analysis. Incorporate the time for crack initiation into predictions of the time for single-leg-separation and outlet strut fractures.	All rights retained
47D.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	April, 2004 through December, 2004	Relationship between engineering database and epidemiological studies. To determine whether the approach for predicting the likelihood of valve failure as a function of design and manufacturing changes that were implemented throughout the production of BSCC heart valves is valid.	All rights retained
47E.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	April, 2004 through December, 2004	Determine the effect of compliant support conditions on BSCC heart valves. Incorporate the effect of local compliance on the predicted outlet strut load during closure.	All rights retained

47F.	ACES of Columbus, LLC formally known as Advanced Computational and Engineering Services, LLC	April, 2004 through December, 2004	BSCC heart valve performance modeling using element free techniques. Validate certain modeling techniques which have been used to determine the loads on the outlet strut caused by the occluder disk closure.	All rights retained
48.	Erasmus MC, University Center Rotterdam	April, 2003 through October, 2004 (K ended in January)	To determine whether broken struts of BSCC heart valves can be detected with standard ultrasound instruments.	All rights retained
49.	Eindhoven University of Technology	April, 2003 through April, 2004	Development of a catheter-based antenna for detecting flaws in BSCC heart valves. Demonstrate proof of concept of using the electromagnetic coupling between a small loop antenna and the metal part of a BSCC heart valve to determine the condition of the smaller strut.	All rights retained

APPENDIX

2

SUPERVISORY PANEL SUMMARY OF RESEARCH PROJECTS (as of October 3, 2008)

A. Current Epidemiology Projects

<u>Name of Institution</u>	<u>Effective Date of Contract</u>	<u>Termination Date</u>	<u>Description of Project</u>	<u>Current Status</u>	<u>Contract Amount</u>	<u>Billed To Date</u>
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None

B. Current Imaging & Acoustic Projects

<u>Name of Institution</u>	<u>Effective Date of Contract</u>	<u>Termination Date</u>	<u>Description of Project</u>	<u>Current Status</u>	<u>Contract Amount</u>	<u>Billed To Date</u>
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1. Hershey Imaging 4/23/08 10/23/08 Radiographic Imaging to Detect SLS
2. ACES 7/14/08 10/3/08 Analysis of acoustic recordings of human volunteers with implanted BSCC heart valves.

C. Projects Completed During Quarter

None

D. Approved Research Projects Pending Contract

None

E. Proposed Research Projects

1. Eindhoven (Jurgen de Hart) Study of second harmonic of BSCC valves 75,000 Euros

APPENDIX

3

