

Benchmark²[™]

the counterpulsation study



A Comparative Database
for Heart Disease Management

Introducing Benchmark 2™ ... co-creating custom solutions.



Partnering with you to develop and deliver strategic insight.

From 1997 to the present, over 37,000 patient reports were logged into the first Benchmark Registry. Each time a participant downloaded data, the entire database was updated allowing participant users access to summary and comparison reports.

Significant comparisons regarding length of stay and mortality could be analyzed. Patient outcomes could be examined, and using a built-in discussion group, participating institutions could easily exchange ideas and approaches to practice. This physician directed outcomes registry provided an easy-to-use software tool for collecting and analyzing all significant data relative to the application and outcome of patients undergoing IABP therapy.

What about those patients who did not receive IABP therapy? The Benchmark Registry was limited to only patients who had received balloon pump therapy.

Now, with the introduction of Benchmark 2: the counterpulsation study, there is finally a web enabled registry that can also include patients with the same diagnosis, who were not treated with an IABP.

Benchmark 2™

Heart Disease Management Tool

A Database

Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.benchmark2.com>

Benchmark 2™

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Sponsored by **Datascope**

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> IABP Reports
Summary Reports

Report Date: July 5, 2005 Registry Participant: 121323 Today's Date: Wednesday, July 13, 2005

Patient Characteristics	Complications	Outcome
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Demographics | Patient Study Group | Indication For Use | Diagnosis | Expand All Sections | Close All Sections

Demographics

1 Admission Date: 5-7-2005 (dd-mm-yyyy) 5 Height: 70 in. Weight: 183 lb.

2 Date of Birth: 1-3-1945 (dd-mm-yyyy) Body Surface Area: 2 m²

3 Patient ID: 1259079 Unit of Measure: U.S. Standard Metric

4 Gender: Male Female

Patient Study Group [\[pop\]](#)

1 Primary Study Classification: Not a study patient [change](#)

2 Attending Physician:

3 Patient Transferred from Another Institution?
 Yes No

4 Balloon Pump Used? Yes No

4a Balloon Volume: Ped. 25cc 34cc 40cc 50cc 4b Catheter Size: 7.5 Fr. 8.0 Fr. Other:

4c System Type:
 S97/97e S98/98XT CS100
 Other:

4d Initial Approach of IAB Insertion: Sheath Sheathless 4e Successful Approach of IAB Insertion: Sheath Sheathless

Internet

Benchmark 2™ Counterpulsation Study can provide the answers you need.



Benchmark 2 is a powerful disease management tool.

For the first time, not just data, but comparative outcomes are well within your grasp. You can easily make statistically significant comparisons to thousands of IABP cases, or simply identify and track your own hospital data.

FEATURES

- **Patient profiles and demographics**
- **Clinical practice information** such as indications for use, duration of therapy, catheter size and insertion techniques used, as well as concomitant therapies
- **Clinical outcomes** including length of stay, complications and mortality, with and without IABP

BENEFITS

- **Clinical pathway improvement**
- **Improve quality of practice**
- **Optimize outcomes**
- **Create individualized study**

Utilization and outcomes can also be reviewed relative to any other parameter collected, for example, technique and hospital department.

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Summary For Registry Participant:
REG-980980

Report Date: 01/06/2005 08:12 PM

SGH Hospital Summary Report for the period: 01/01/2004 to 12/31/2004
in patients where County = State is equal to Michigan

Demographics		
	Your Hospital	All Other Registry Participants
Total Number of Records	100	100
Male	24 (24.0%)	24 (24.0%)
Female	76 (76.0%)	76 (76.0%)
Average Age	65.00 years	65.00 years
Average Height	70.00 (1.78 m)	70.00 (1.78 m)
Average Weight	170.00 (38.50 kg)	170.00 (38.50 kg)
Body Surface Area	2.13 (sq meters)	2.13 (sq meters)
Residence in	0 (0.0%)	0 (0.0%)
Residence in each IABP system	0 (0.0%)	0 (0.0%)

Balloon Systems & Procedural Averages		
BALLOON VOLUME		
	Your Hospital	All Other Registry Participants
Total	100 (100.0%)	100 (100.0%)
Male	24 (24.0%)	24 (24.0%)
Female	76 (76.0%)	76 (76.0%)
Age	65.00 (0.00%)	65.00 (0.00%)
Height	70.00 (0.00%)	70.00 (0.00%)
Weight	170.00 (0.00%)	170.00 (0.00%)
BSA	2.13 (0.00%)	2.13 (0.00%)

CATHETER SIZE		
	Your Hospital	All Other Registry Participants
3.0 Fr	100 (100.0%)	100 (100.0%)
3.5 Fr	0 (0.0%)	0 (0.0%)

SYSTEM TYPE		
	Your Hospital	All Other Registry Participants
System 1000CT	100 (100.0%)	100 (100.0%)
System 100	0 (0.0%)	0 (0.0%)
System 10	0 (0.0%)	0 (0.0%)
System 1000	0 (0.0%)	0 (0.0%)
System 1000T	0 (0.0%)	0 (0.0%)
Other	0 (0.0%)	0 (0.0%)

IABP INDICATION		
	Your Hospital	All Other Registry Participants
Primary Indication	100 (100.0%)	100 (100.0%)
Secondary	0 (0.0%)	0 (0.0%)
Other	0 (0.0%)	0 (0.0%)

INITIAL APPROACH OF IABP INDICATION		
	Your Hospital	All Other Registry Participants
Success	100 (100.0%)	100 (100.0%)
Unsuccessful	0 (0.0%)	0 (0.0%)

SUCCESSFUL APPROACH OF IABP		
	Your Hospital	All Other Registry Participants
Success	100 (100.0%)	100 (100.0%)
Unsuccessful	0 (0.0%)	0 (0.0%)

Summary reports allow data comparison between your hospital and other participants.



What makes the Benchmark 2 Counterpulsation Study unique?

It is dynamic and fully interactive. Each time a participant downloads data, the entire database is updated. Most importantly though, access to summary and comparison reports can be produced on demand.

A communications network. Using a built-in discussion group, participating institutions will be able to easily exchange ideas and approaches to practice.

Supported by Datascope Clinical Consultants. Upon request, our clinical consultants work extensively with you and your staff to plan solutions and implement practices to improve your program's outcomes.

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the counterpulsation study
Report Date: 01/31/05 04:15 PM

SQL Custom Query: Entire Benchmark

SQL Custom Query Report for the period: 01/01/04 to 12/31/04 in patients where Indication is equal to cardiopulmonary bypass

Total All Benchmark Participants:

There were 1070 out of 6208 (or 17.02%) patient case reports that matched peer criteria.

Statistics derived from a qualified pool of 6208 case reports.

There are currently 2057 patient case reports in the Benchmark system.

On demand custom report generated.

Benchmark 2
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Report Date: 02/04/05 03:04 PM

Indications vs. Outcomes
SQL Comparison Report For Registry Participant:
REG-9601460

SQL Comparison Report - K: Indications vs. Outcomes for the period: 01/01/04 to 12/31/04

Your Hospital:	All Other Registry Participants:
<p>Of 13 patients with an Indication of Cardiogenic Shock: The average Length Of Stay was 32.82 days. The average Length Of Balloon Insertion was 35.93 Hours. 52 (or 39.71%) Expired in the Hospital & 7 (or 53.85%) Expired with the IAB in place.</p>	<p>Of 1024 patients with an Indication of Cardiogenic Shock: The average Length Of Stay was 31.45 days. The average Length Of Balloon Insertion was 35.73 Hours. 422 (or 41.21%) Expired in the Hospital & 224 (or 21.87%) Expired with the IAB in place.</p>
<p>Of 8 patients with an Indication of Unstable Refractory Angina: The average Length Of Stay was 31.25 days. The average Length Of Balloon Insertion was 31.33 Hours. 5 (or 62.5%) Expired in the Hospital & 3 (or 37.5%) Expired with the IAB in place.</p>	<p>Of 633 patients with an Indication of Unstable Refractory Angina: The average Length Of Stay was 31.33 days. The average Length Of Balloon Insertion was 31.73 Hours. 21 (or 3.31%) Expired in the Hospital & 24 (or 3.78%) Expired with the IAB in place.</p>
<p>Of 4 patients with an Indication of Wearing from cardiopulmonary bypass: The average Length Of Stay was 9.72 days. The average Length Of Balloon Insertion was 27.85 Hours. 2 (or 50.0%) Expired in the Hospital &</p>	<p>Of 305 patients with an Indication of Wearing from cardiopulmonary bypass: The average Length Of Stay was 12.02 days. The average Length Of Balloon Insertion was 32.45 Hours. 248 (or 81.31%) Expired in the Hospital &</p>

Customer report comparing outcomes.

How the Benchmark 2™ Counterpulsation Study works.



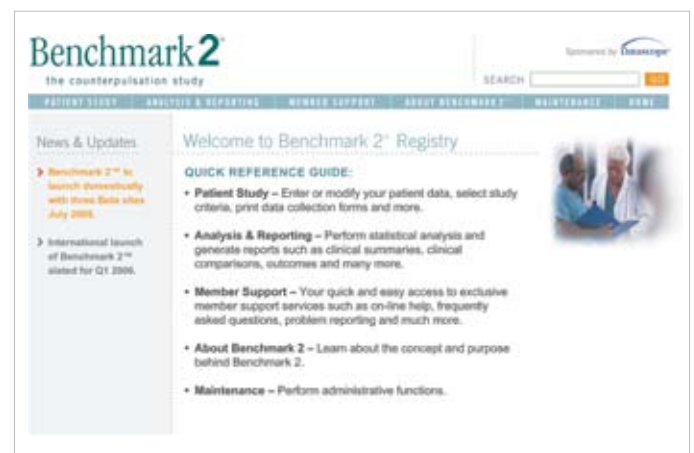
Getting started.

Upon registration, you will receive an access code and password. This will enable you to transmit and receive data. You will receive written instructions and an in-service regarding administration of the database.

Data entry.

Simplicity – this is a web-based program. Pop-up data lists and prompt boxes facilitate quick data entry.

Intuitive – the software uses a very intuitive format developed in conjunction with clinicians and administrators.



The main menu allows simple navigation to the Study's principal areas.

Demonstrating a commitment to our Partners in Excellence.

Only participating Datascope customers have access to the Benchmark 2™ Counterpulsation Study database – currently about 80% of the institutions administering IABP therapy worldwide. As the world's leader of IABP therapy, only Datascope is capable of networking you to this most comprehensive body of knowledge about IABP therapy.

**Call us today at 800.777.4222, ext. 6100 (US only).
Outside of the US call 973.244.6100.**

Our Clinical Consultants can provide additional program information and address your specific questions about how the Benchmark 2 Counterpulsation Study can work for your institution.



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Caution: U.S. Federal Law restricts this device to sale by or on the order of a physician.
Refer to package insert for current indications, warnings, contraindications, precautions and instructions for use. 07/05

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