

### Introduction

This newsletter will give you some useful information about the conductance catheter technique and CD Leycom products.

To get more information about our products, look at website [www.cdleycom.com](http://www.cdleycom.com). Create a user account and login as a member to get a lot of useful information. If you still have questions, contact CD Leycom for more information on the availability of conductance catheters.

### CFL use with Intra-aortic Balloon Pump

Intra-aortic balloon pumping (IABP) is the most widely and commonly used circulatory assist device to support of the (temporarily) failing heart.

#### **A failing heart treated with a pump could be analyzed as a pump.**

The conductance catheter technique is a proven (ref.) useful addition to properly time and analyse the effects of IABP. It is feasible to determine beat-to-beat effects during IABP support and optimize cardiac assist (ref.). Recently published studies show significant acute improvements in various hemodynamic parameters (incl. SW & Dyssynchrony) using a novel IABP system developed by Arrow International (AutoCat 2 Wave pump). Validation and fine-tuning of this important cardiac assist tool was exclusively done using Pressure-Volume relations acquired with CD Leycom's clinical equipment.

The CD Leycom Cardiac Function Laboratory CFL-512 offers a simple, safe and effective method for the real-time, on-line operator independent measurement of Left Ventricle Pressure-Volume Relations, Left Ventricle dyssynchrony and a lot of useful hemodynamics.

### References

[Beat-to-beat effects of intraaortic balloon pump timing on left ventricular performance in patients with low ejection fraction.](#)  
**Schreuder JJ, Maisano F, Donelli A, Jansen JR, Hanlon P, Bovelander J, Alfieri O.**

Ann Thorac Surg. 2005 Mar;79(3):872-80. PMID: 15734398

[Intraaortic balloon pumping improves hemodynamics and right ventricular efficiency in acute ischemic right ventricular failure.](#)

**Nordhaug D, Steensrud T, Muller S, Husnes KV, Myrmet T.**

Ann Thorac Surg. 2004 Oct;78(4):1426-32. PMID: 15464508

[Intra-aortic balloon pumping in acute mitral regurgitation reduces aortic impedance and regurgitant fraction.](#)

**Dekker AL, Reesink KD, van der Veen FH, van Ommen GV, Geskes GG, Soemers AC, Maessen JG.**

Shock. 2003 Apr;19(4):334-8. PMID: 12688544

### CD Leycom Catheters



Please be advised that as per January 01 of this year, we have raised most prices by ~3%. This will however take effect on February 01, 2006. Hence, you can still place your order this month at last year's prices.

### Measuring with 2 Sigma 5 DF's

Is it possible to connect two Sigma 5 DF systems to 1 computer to do simultaneous LV and RV measurements, is a frequently asked questions.

With the Conduct-PC hardware/software package you can do these measurements simultaneously. If you already own 2 Conduct-boxes you can connect the right ventricle segmental signals with five BNC-cables to the left ventricle Conduct-box. Another possible solution is to use a separate purchased cable, type S15-RVCA-3.0M, to connect the right ventricle Sigma-5DF directly to the left ventricle Conduct-box.

Please note: the frequency of the Sigma-5DF system is always set to 20 KHz. Measuring with two Sigma 5 DF systems, frequency of both systems must be different.

### CFL-512 Patient Module Check

When a CFL-512 fails to function, repair is often a matter of great urgency because of scheduled experiments.

Therefore we have started a 'fresh start' preventive maintenance-check for the Patient Module of the CFL-512. Till March-end, if you send your Patient Module to us we will check, clean and recalibrate the unit (incl. Batteries) at a total cost of Euro 400 (USD 480 for US-based customers), including shipping back to the customer. If any repairs are necessary these will be done free of charge if the costs of the spare parts do not exceed € 50 (USD 70). The equipment will be returned within 2 weeks from delivery at CD Leycom, usually even sooner.

If you have any questions or comments, please contact us.

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