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Alcor News Bulletin-----  
Number 47: January 20, 2006  
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Jennifer Chapman [JC], Diane Cremeens [DC], Tanya Jones [TJ], Sergey Sheleg [SSH], Steve Van Sickle [SVS], Website Working Group [WWG].

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\$100,000 Matching Grant for  
Whole Body Vitrification Research

Your donation today enables more research tomorrow. And the more research accomplished by Alcor scientist Sergey Sheleg, MD, PhD, the better our cryopreservation techniques will be in years to come.

We need your help to reach the next level. In fact, we need the help of every one of our members to fully pursue whole body vitrification research.

\*\*Just a \$100 contribution from you and each of our members

would enable us to reach our goal.\*\*

Thus far more than 42% of our target has been raised. But time is running out. This matching grant is set to expire on January 31, 2006.

Contact Alcor today with your pledge. Every dollar you send makes a difference. Thank you, everyone, for your continuing support.

Pledge forms are available at this link:  
<http://www.alcor.org/Library/pdfs/MatchingGrant.pdf>

By Phone: 877-462-5267 ext. 101

By Fax: 480-922-9027

By Mail:  
Alcor Foundation  
7895 E. Acoma Drive, Suite 110  
Scottsdale, AZ 85260  
Attention: Fundraising Dept.  
[JC]

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Cryopreservation Cases

At 08:37 on January 19th, 2006, Alcor member A-1097 (who in his paperwork requested confidentiality) went into witnessed cardiac arrest at local hospice, after a six-day standby.

Cardiopulmonary support (CPS) consisting of manual compressions with the Ambu Cardiopump started at 08:39, as well as the administration of the first three medications. An endotracheal tube was placed at 08:40, along with a FAST1 sternal intraosseous access port. The ET tube was attached to a Surevent pressure-controlled ventilator on 100% oxygen, a Res-Q-Pod respiratory impedance device, and the sensor of a CO2SMO Plus respiratory monitoring device. Covered with ice and an operating SQUID, the patient was moved out of the unit, and the LUCAS cardiac compression device was started while waiting for the elevator at 08:48.

During the approximately 30-minute drive to Alcor, the remainder of the medications were given (with the exception of mannitol, which was discovered to have recrystallized the night before, and the crystals failed to dissolve in time). Immediately on arrival at Alcor, while the patient was still in the rescue cart and under uninterrupted thumper support, surgery was started to access the right carotid artery. A cannula was placed in the artery to infuse cold base perfusate, and cardiac compressions were discontinued, at 10:00 (83 minutes of support) at a measured nasopharyngeal temperature of 16.5C.

Oxygen blood saturation during the entire CPS time varied between 60% and 80%, though it appears that CO2 measurements were sporadic, possibly due to fogging of the sensor. When no advantage to the attempted extra cooling was noticed in 5 minutes, surgery began to place the

remainder of the lines and carry out cephalic isolation. The patient (neuro) was placed in the cooling enclosure and washout was started at 10:36 (36 minutes cold ischemia), 6 liters/minute O<sub>2</sub> flowing through the oxygenator.

The cryoprotective ramp started at 10:44, a gradual slope to 50% target concentration. This was reached at 12:38, and the ramp accelerated to approximately 105% target concentration. Oxygenation was continued throughout the cryoprotective perfusion. After equilibrating for about 1 hour, the perfusion ended at 14:30 slightly above target concentration. The differences between left jugular, right jugular, and arterial concentrations were too small to measure, indicating very effective equilibration and uniform perfusion. At 14:38, rapid deep cooling of the patient started, 6 hours and 1 minute after cardiac arrest.

Alcor now has 72 patients cryopreserved. [TJ]

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#### Research Update

The LESA fiber optic spectrofluorometer was assembled, software installed, and the whole system tested. It will be used to monitor cerebral metabolism and perfusion.

Dr. Sheleg has started work on the paper "Post-arrest autolysis of cortical neurons" based on research data from the research project "Dynamics of hypoxic brain damage after normothermic cardiac arrest" and is designing a new protocol for real-time measurement of tissue viability using the LESA spectrofluorometer. [SVS, SSH]

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#### Construction Progress

We have received and installed our new liquid nitrogen bulk tank. This pressure tank has been tested but is not yet ready to fully deploy. Hugh Hixon and a service technician from our current liquid nitrogen supplier evaluated the unit and have requested a replacement valve, which will be installed and tested prior to performing a boiloff test of the tank. [TJ]

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#### Financial Matters

Major efforts were undertaken in the final months of 2005 to get all of our internal billing completely reconciled before the end of the year. Through sheer determination we ended the year on an extremely high note: All lines of credit are completely paid off, all outstanding bills are paid in full, and a 2006 budget has been created with oversight by the Board of Directors. 2006 starts with a completely clean slate and these professionally recommended accounting controls in place:

\* Our administrative assistant opens all incoming mail and keeps a log of all incoming funds for review by the

Executive Director and COO.

\* All incoming bank and credit card statements are sent directly to the Executive Director for review before going to the bookkeeper.

\* A third party makes the deposits prepared by the bookkeeper.

\* All outgoing checks and relevant invoices are reviewed by both the COO and the Executive Director before signature.

\* A third party mails all outgoing checks.

\* All blank checks are kept locked in a separate room from the bookkeeper and are issued only as needed, and all voided checks are accounted for.

\* Spot checks of accounting activities are routinely conducted by the COO, Treasurer, and Chairman of the Board.

\* An employee honesty insurance policy is in place.

\* The COO directs the bookkeeper about bill payment priorities.

We are pleased that Sheila Kimbrell, our part time bookkeeper, has decided to stay on with the organization, despite the demand that the tax season will have on her accounting firm.

In last month's financial report we referred to "case billing". This is not an external billing. There are no outstanding receivables for any case, nor have any such receivables been written off. What we are referring to is an internal process by which each case is billed to different internal accounts. This covers consumables, labor, and usage charges for equipment. By doing this, we are now able to accurately determine the cost of every case. Additionally, usage charges will be placed in a sinking fund that will allow us to repair or replace equipment as it is damaged, worn out, or becomes obsolete. [SVS]

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#### Arizona CryoFeast

Alcor members and anyone interested in learning more about Alcor and cryonic suspension are invited to attend the Arizona CryoFeast on Saturday, January 28th in Scottsdale. Join us for an afternoon buffet at the home of Alcor members David & Trudy Pizer (3:00-7:00pm). There will be plenty of good food and conversation. Visit this link to RSVP: <http://www.alcor.org/Contact/index.html> [JC]

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#### Media This Month

An estimated 23,800 distinct computers visited Alcor's

website in October. Media participation this month includes:

\* ZDF, German public TV, was sent B-roll footage for a program dealing with aspects of how biological tissue reacts to preservation efforts.

\* Inquiries were received from Shanghai Morning Post, a Swedish filmmaker, and Craftsmen International Design regarding an exhibition for the National Natural Science Museum in Taiwan.

\* An open letter signed by over 60 scientists and physicians endorsing the scientific basis of cryonics has been made public and can be found at:  
<http://www.cryoletter.org>.

\* As always, a real-time list of new things on our website is available at: <http://www.alcor.org/whatsnew.html> [JC, WWG].

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#### Membership Statistics

Approvals: 7  
Members: 786  
Applicants: 66

On December 31, 2005, Alcor had 786 members on its Emergency Responsibility List. Seven memberships were approved during December, no memberships were reinstated, one membership was cancelled, and no members were cryopreserved. Overall, there was a net gain of six members this month.

We had an average net gain of 6.1 members per month in 2005. Overall, Alcor achieved a net gain of 10% for the year.

Alcor distributed 161 information packs this month. [DC]

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#### Legislative Update

Alcor's lobbyist Barry Aarons met key members of the legislature Sen. Carolyn Allen, Sen. Barbara Leff, Rep. Bob Stump, and Rep. Linda Lopez. Regarding the issue of regulation, he saw no need for Alcor to pursue additional regulations. He recommends that we just keep doing what we are doing. Barry also suggested individual members and friends of Alcor consider donating to local candidates. [SVS]

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#### Alcor United

Alcor members have a new forum where they can meet and chat with other members. Get to know other cryonics supporters in your area and around the world by visiting Alcor United:

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Employment Opportunities

Have you ever thought about joining the Alcor team? We have immediate needs for licensed Paramedics, Emergency Medical Technicians, Registered Nurses, Lab Technicians and more to join our nationwide Transport Team. Participation would be on a contractual basis.

You'll be given cryonics training that will enable you to participate in our patient rescue and transport cases. Licensed professionals do not have to be Alcor members to work with us. We welcome your expertise and interest. If you're interested, send your resume to:

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Next Board Meeting

The next Board meeting is scheduled for Saturday, February 4, 2006, at 11:00 AM (MST).

Board meetings are typically held on the first Saturday of the month at the Alcor facility (7895 East Acoma Drive in Scottsdale, AZ). Members and the public are encouraged to attend.

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End of Alcor News bulletin #47 dated January 20, 2006.  
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