

MARK BUGNASKYSTAFF PHOTOS

Patient Dean Gawlas enters the chamber at Baltimore's Life Force clinic. Hyperbaric oxygen therapy is used to treat people with AIDS.

Hyperbaric oxygen therapy: hope or hype?

Doctors divided on effect on AIDS

By Holly Selby Staff Writer

When E. J. Roberts seeks respite from the disabling fatigue caused by AIDS, he dons a green paper coverall, green paper shoes and a plastic hood that looks like a space helmet. He enters a steel chamber resembling a small submarine.

As oxygen is piped into his hood, the 24-year-old Essex resident says he sits back and passes the time by singing show tunes.

The chamber belongs to Life Force, a clinic set up three months ago in a former Mount Vernon art gallery. Mr. Roberts and others infected with the human immunodeficiency virus come here from as far away as North Carolina for treatment at \$125 per session.

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Tve tried AZT; it made me sick.
I've tried ddl; it made me sick, too,"
Mr. Roberts says of two anti-viral

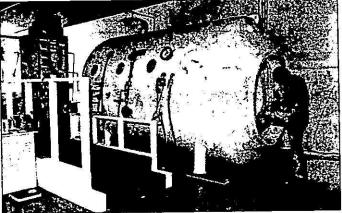
drugs used to combat AIDS. Why not try this?

This is hyperbaric oxygen therapy. Best known as a way of treating the "bends" — a deadly condition in which divers have nitrogen bubbles in the blood — the therapy is also used at institutions such as the Maryland Shock Trauma Center to treat some types of wounds, burns and infections.

While in a chamber of highly compressed air, patients breathe pure oxygen. Some doctors say that saturating the blood with oxygen promotes healing by stimulating capillary growth in unhealthy tis-

The owners of Life Force tout the therapy as a way to alleviate the fatigue often associated with the virus that causes AIDS.

Michelle R. Reillo, a nurse who is president of the clinic, contends that the therapy also halts progression of the virus, saying oxygen sat-



Mr. Gawlas talks to a technician while undergoing a 45-minute hyperbaric oxygen treatment at Life Force.

uration "slows viral replication by interrupting blochemical reactions." She has made similar statements in letters to doctors.

But researchers have not established whether hyperbaric oxygen therapy helps people who are HIVpositive, let alone that it might impair the virus that leads to full-blown AIDS and eventual

See CHAMBER, 3B

The Sun 11/28/93

HYPERBARIC OXYGEN THERAPY

From IB

death, according to specialists in the

experiencing a placebo effect --- a phenomenon in which a treatment works because patients believe in it. knowledging their testimony, some doctors say that the patients may be Still, people with AIDS who have received the treatment say it makes them feel better afterward. While ac-

'We have to be very cautious'

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do it with technologies, says Dr. Jo-seph O'Neill, director of research at Chase Brexton, a Baltimore AIDS clinic that manages the cases of tious about application of a potentially very expensive technology that is unproven. We don't do it with mediabout 1,500 patients. I think we have to be very cauions and I don't think we should

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Chase Brexton doctors do not pre-scribe hyperbaric oxygen therapy. Nor do doctors at the Moore Clinic, a part of the Johns Hopkins Hospital that oversees care of nearly 3,000 who are HIV-positive.
We don't refer patients because

we feel there isn't very much data to support using [the therapy] with HIV. says Moore's director, Dr. Joel One Baltimore doctor says she

cautions her patients that the theraby is unproven but does not prevent

a patient is in the end stages of AIDS, or even before, and has exhausted all the things that we know are of proven benefit, and if he that's up to him. wants to seek treatment elsewhere. don't want to deprive them of hope, The way I approach patients with a terminal illness is that you lays Dr. Janet Horn, an internist.

a Fighting fatigue

Man who have tried the therapy asy it helps them. Since September, when he began receiving hyperbaric coygen therapy. Mr. Roberts says he sleeps eight hours a day instead of 18. Previously, he says he was unable to overcome his intense fatigue, which jed him to guit his job as a

conventence store manager.
Similarly, Domings Vega, 37, also says hyperbarto exygen therapy relieves his fatigue. "I used to come home and get into bed. Now I work, and then I come home, and I still do my normal activities."

In many ways, the discussion aurrounding the Life Force clinic epitomizes a larger debate that began with the onset of the AIDS epidemic: whether people with HiV should — or can — wait for treatout eay that seems promising.
On one side is Ms. Reillo. Thave a ments to be proven effective or seek

S(191), (14) · 45' DEPTH (2.38 ATA) EVEL LEVEL

Hyperbaric oxygen chambers were developed to treat deep sea divers with the "bends," a condition in which nitrogen builds up in the blood. Breathing pure oxygen while under pressure forces a person's red blood cells, which normally are 97 percent oxygen, to become saturated. Oxygen is also forced into the plasma. 45 or 60 feet. simulate pressures found at varying depths below sea level — usually 33, People are placed in chambers that

infections for which oxygen is toxic. It also is believed to promote healing of some wounds and burns. A new use considered experimental. The therapy is used to treat the treatment of AIDS patients - is

*One Atmosphere, or 14.7 pounds per square inch of atmospheric pressure.

JEF DAUBER / STAFF GRAPHIN

66The way I approach

deprive them of hope. 99 terminal illness is that you don't want to patients with a

to say, 'Yes, it works.'

DR. JANET HORN Baltimore internist

ment when clearly it seems to help,

ple with AIDS. After becoming con-vinced the therapy works, she left Shock Trauma to open the clinic. nurse worked at Shock Trauma and collaborated on a study of the effect of hyperbaric oxygen therapy on peo Before establishing Life Force, the

On the other side of the debate is the medical establishment, embodied by Dr. Roy A. M. Myers, a Shock.
Thatma surgeon, who oversaw the study. We have not proven anything, he says.

says. Eight of the 25 have since died as two years. All reported feeling bet-ter and suffering less fatigue, he Beginning in December 1990, 25 people with AIDS who were experi-encing fatigue received the therapy three times a week, some for as long

Blood tests abandoned

no centrol group and results were not replicated. In addition, he says, clusive because assessment of "qual-ity of life" was subjective, there was of expense and of expense and because biological markers in the blood, fatigue and blood tests were abandoned because Dr. Myers calls the results incon-

and by proceeds of Dr. Myers' lec-tures, he says. therapy could not be correlated.

The study was paid for by the University of Maryland, by a manufacturer of hyperbaric chambers,

Although the study has ended, some former participants continue to receive hyperbaric oxygen therapy at Shock Trauma. Some are treated for

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problem with withholding a non-invasive, basically low-risk treat-

Insurance companies for payment.
If think something is happening here. The fatigue seems to improve, Dr. Myers says. "Emotionally, I want ree and a few submit claims to their

duct another study that has a control group. The same number of people who are HIV-positive and do not re-Myers says, he would have to conzeive the therapy would be moni-But to claim definitive results, Dr.

lergies and infectious Diseases, raised the issue of a control group when asked to comment on the Unitored for the sake of comparison.

Dr. Steve Schnittman, chief of the medical branch of the division of AlbS at the National Institute of Albrought up the need for review reralty of Maryland study. He also

No direct funding

search on hyperbaric oxygen thera-py and AIDS, he says. The institute, which pays for AIDS research throughout the nation, is not directly funding any re-

shed light on how high levels of oxy-gen affect HIV molecules has been funded by a grant from the division.
Dr. Michael Summers, associate chemistry professor at the University of Maryland Baltimore County, is But basic research that could

studying the effects of oxidation on key components of HIV molecules, called nucleocapsid zinc fingers. In test tubes, certain organic

of his work and has raised money to ing whether high concentrations of oxygen molecules have the same effect as the oxidizing chemicals. Ms. Reillo is collaborating on this portion chemicals halt production of the vi-rus during an oxidation process, Dr. Summers says. Now he is investigat-

hyperbaric oxygen therapy slows or stops the progression of the human tmmunodeficiency virus, he says. oxygen molecules can interfere with supplement his grant, he says.

Even if experiments show that studies would be required to prove the replication of the virus, more

> fore being prescribed for people with therapy should be documented be-"I want this woman to have a

AIDS feel better... I would love i oxygen therapy "ought to undergo that same rigorous scrutiny that we insist drugs undergo. And if it is gohe says. But he contends hyperbaric ng to be studied. [patients] should

not pay for it."

Bills for the therapy can add up.

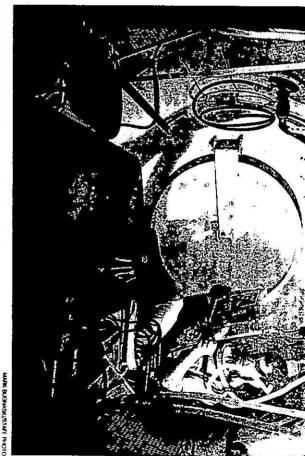
Ms. Rello says Life Force pattents begin with three weekly treatments. That would cost 8375. In a few

Although hyperbarte oxygen therapy is not a medically approved treatment for AIDS, some insurers reimburse HIV-positive patients for the procedure. That's because the therapy is an approved treatment for certain symptoms, Ms. Reillo says.
Those who need a doctor's referments that can continue indefinitely.

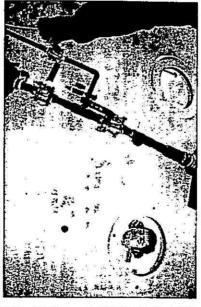
ral for treatment at Life Force can get one from the clinic's physician, says Dr. Ray Altieri, an internist who has a private practice in Dun-

ment that might help them.
Doug Garriott, 51, says the theraing from HIV say they have neither time nor reason to eschew any treat-Meanwhile, many people suffer-

py has allowed him to remain pro-ductive as an architect. He switched Trauma to using the chamber at Life from hyperbaric treatment at Shock Some of its effects may have



inside the chamber of highly compressed air, Dean Gawlas breathes pure oxygen.



HAN BUCHASASTAFF PHOTO

Mr. Gawlas watches as a technician pressurizes the chamber. nies. He, too, wants to run a con-trolled study.

perbaric oxygen therapy "doesn't kill the virus but keeps it in a resting state breause it disrupts chemical reactions" will be borne out. Ms. Rellio says her belief that hy-

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At the Coast Plaza Doctor's Hospi-in Norwalk, Calif., Dr. Wilbert

Enhancing well-being

Jordan is investigating the effects of hyperbaric oxygen therapy on fatigue, white blood cells and certain

Association of Nurses in AIDS Care. She described the study as having been conducted at a "Mid-Atlantic medical facility" and the technology as one that will "enhance well-being" of people with AIDS.

After visiting Shock Trauma last An account of the Shock Trauma study was published by Ms. Reillo in a recent issue of the Journal for the positive people who heard of Ms. Reillo's work have purchased a small hyperbaric oxygen chamber in which they are treating themselves.

Dr. John Bartlett, director of the

search foundation

In nearby Los Angeles, 22 HIV-

has no control group, is funded by Search Alliance, a nonprofit retypes of numbness experienced by people with AIDS. His study, which

ami's Mercy Hospital began offering the therapy to some AlDS patients and billing their insurance compayear, Dr. Corklin Steinhart of Mi-

Johns Hopkins Medical Institutions, says the effects of hyperbaric oxygen

been psychological. I have no idea," he says. "But the way I look at it, if it's psychological, that's fine, too."