Barry Castleman's DuPont File

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COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF HEALTH
P. O. BOX 90
HARRISBURG 17120

This is
Exhibit No. 5
on the examination of:
G J Stoppf in
v
held on DEC 6 1983
PAUL W. ROSENBERGER
Special Examiner
at TORONTO

November 19, 1964

James Stoppf, M.D.
Dupont Hafkell Laboratory
Elkton Road
Newark, Delaware

Dear Dr. Stoppf:

I have not been able to locate my brochure on post graduate courses sponsored by the American College of Chest Physicians pending for the remainder of this year. This information, however, should be available upon request from the college.

The following is the outline of the equipment our Division is presently attempting to procure for a lung function unit. We believe that this should be adequate for any research work we may wish to do in the field of industrial chest medicine. The prices listed may no longer be valid and more recent price quotations may be in effect.

1 each Diffusion test $ 7,400.00

Spirometric Gas Analysor System to make estimations of the CO diffusion capacity of the lungs using either the Steady State Method or the Single Breath Method.

The apparatus containing the Godart Pulmonet, an infrared CO Meter with two measuring ranges (0-0.05% and 0.02-0.25%) a bag-box system which has two latex bags (one for inspiratory mixtures and the other for expiratory gases).

The Pulmonet is a nine liter water sealed spirometer with a motor blower to eliminate valves and resistance to flow, built-in Helium Analysor, ventilograph (integrator) to record total expired volumes, and a two speed (60 and 1200 mm/min) kymograph. It contains a complete system for the determination of the total lung capacity and all its sub-divisions, including residual volume by the closed circuit helium dilution technique. The subject breathes room air gas concentrations throughout the entire testing. Oxygen consumption is read directly on a precision rotameter. Tests can be conducted with the subject doing standard exercise tests. The thermal conductivity helium

has a fast response time for full scale deflection (0-5% Hg.)

The CO Meter is designed for the specific measurement of small CO concentrations in the determination of the diffusion capacity. CO volume percent is read directly from the two scale meter (0-0.05% and 0.02-0.25%). Response time is approximately 20 seconds. The instrument contains a built-in sampling pump, flow regulator (0.5 - 2.0 liters/min.), flow meter, voltage stabilizer, and water absorber.

The Bag-box system contains two latex bags. One for the inspiratory mixtures, and one for the expiratory gases to be collected into.

1 each Lanooy Ergometer $2,475.00

This versatile instrument is suitable for use before ordering cardio-pulmonary clinic or laboratory procedures in which physical work output is studied. The apparatus may be operated by: subjects in standing, sitting or lying positions, either pedally or manually; it may be used in conjunction with X-ray table procedures, cardiac catheterization, cardiac output tests; work output tests, etc. An absolutely constant workload is guaranteed by novel features of the design, yielding greater accuracy in quantitative results than is possible with any other ergometric apparatus (error less than 1% for total evaluated work). Measuring Ranges: Scale 1. 0-200 Watts; Scale 2. 0-400 Watts.
Approximate shipping weight: 450 lbs.
Net weight approximately 250 lbs.
Dimensions: 62" x 44" x 40".

1 each #10500B Cardiometer complete with monitor $ 1,445.00
system containing 5" rectangular scope, three sweep speed 12.5, 25, 50 mm/sec., Heart Rate Readout Meter with low frequency cardiac arrest alarm, low frequency intermittent tachycardia alarm, conventional automatic Internal-External Pacemaker, with sound cutoff, recorder output jack, four electrode lead system..two for monitoring during pace.

1 each	Radiometer pH Meter 27 GM	$ 890.00
	E-5021 Micro pH Electrode Unit	215.00
	E-5031 pCO2 Electrode Assembly	205.00
	D615/E5044 Oxygen Electrode Assembly	177.00
	VTS 13 Water Thermostat	356.00

SUGGESTED SPARES

1 each	G297/G2 Glass Electrode Insert for pH Assembly		28.50
2 each	Buffers Type S1513	5.95	11.90
2 each	Buffers Type S1503	5.95	11.90
1 each	G8520 Glass Electrode for pCO2 Assembly		41.75
1 each	P5880 Reference Electrode for pCO2 Assembly		17.90

(In accordance with Approved Equipment List - Anthraco-Silicosis Project)

1 each	Modified Otis-McKerrow Valve, Cat. #P-339		$ 65.00
1 each	Mercury Barometer, Cat. #P-411		75.00
1 each	Laboratory Gas Meter, Cat. #P-350		180.00
2 each	Collins Gaint Three Way Valve, Cat. #P-322	45.00	90.00
1 each	Collins Motor Blower, Cat. #P-553		90.00

Available from: Warren E. Collins, Inc.
555 Huntington Avenue
Boston 15, Massachusetts

2 each	Meteorlogical Ballons, neoprene latex, 45" diameter; 120 liter capacity, Cat. #P-342-120.	4.00 ft.	8.00
15 ft.	Collins smooth rubber tubing, 1¼" inside diameter, 1-5/8" outside diameter, Cat. #P-331.	2.00 ft.	30.00
15 ft.	Collins smooth rubber tubing, 3/4" inside diameter, 1" outside diameter, Cat. #P-330.	.75 ft.	11.25
2 each	Tubing reducer, 1¼" inside diameter to 3/4" inside diameter, Cat. #P-346.	3.00	6.00
10 each	Rubber mouthpieces, Cat. No. P-357	1.50	15.00
3 each	Rubber tip noseclip, Cat. No. P-358	2.50	7.50
3 pair	Sponge rubber refills, Cat. #P-359	.50	1.50

Available from: Warren E. Collins, Inc.
555 Huntington Avenue
Boston 15, Massachusetts

1 each	Dyna Pump Model No. 2, Cat. No. 22702 (Price from Will Scientific Co., Inc. Catalog #8).		

Available from: Will Scientific Co., Inc.
Baltimore 24, Maryland

25 feet	Vinyl tubing, inside diameter 1/8", cat. #23520.	.10	2.50
25 feet	Vinyl tubing, inside diameter 3/16", cat. #23520	.12	3.00
10 feet	Neoprene tubing, inside diameter ¼"	.35	3.50
12	Tube Connector - Polyethelene "Quick Disconnect	3.36 per doz.	3.36

2 each	Stop Watch, catalog #25776	$22.50	$ 45.00

Available from: Will Scientific Co.
Baltimore 24, Md.

1 each	Size 1A cylinder, Oxygen, 99% $N_2$1%.	24.00
1 each	Size 1A cylinder, Oxygen, 20 ppm - 275 ppm balance nitrogen	44.50
1 each	Size 1A cylinder, Oxygen, 55%, balance nitrogen	24.00
1 each	Size 1A cylinder, Carbon Dioxide 9%, balance nitrogen	24.00
1 each	Size 1A cylinder, Carbon Dioxide 4%	24.00
1 each	Size 1A cylinder, Carbon Monoxide 0.3%, 10% helium, 21% Oxygen, balance nitrogen	40.50
1 each	Size 1A cylinder, Helium 99.99% min.	21.30
1 each	Size 1A cylinder, Carbon Monoxide 900 - 1000 ppm.	28.50
1 each	Size 1A cylinder, Oxygen 99.6% min., extra dry grade	6.00
	Plus deposit of $44.00 per cylinder (9)	396.00

Available from: The Matheson Company, Inc.
Box 85
East Rutherford, New Jersey

2 each	Cylinder valve 2 stage Model No. 8 CGA Connection 350, hose end CC	46.00	92.00
1 each	Cylinder valve 2 stage Model No. 8 CGA Connection 590, hose end [illegible]	46.00	46.00
4 each	Cylinder valve 2 stage Model No. 8 CGA Connection 320, hose end [illegible]	46.00	184.00
1 each	Cylinder valve 2 stage Model No. 8 CGA Connection 540, hose end [illegible]	46.00	46.00

Available from: The Matheson Company
Box 85
East Rutherford, New Jersey

Thank you for your interest in the lung function unit that we are presently trying to develop. I hope that I will soon be able to meet you in person and if possible to visit your facilities. Please find enclosed a preliminary program for our conference on pneumoconiosis to be held on November 30, December 1 and 2, 1964. If you are interested and able to attend on such short notice, we would be very happy.

Sincerely yours,

[signature]

E. J. Pistawka, M.D.
Public Health Research Physician

EJP:dk
Enclosure