Canadian Market Opportunities-Import Profile

Government of Canada

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Gouvernement du Canada

Regional Industrial Expansion industrielle régionale



PHYSIOLOGICAL MONITORING AND RECORDING EQUIPMENT, ACCESSORIES AND PARTS

Pub. No: 63-86 June 1986



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PHYSIOLOGICAL MONITORING AND RECORDING EQUIPMENT, ACCESSORIES AND PARTS

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Pub. No: 63-86 June 1986

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OR

The nearest DRIE Regional Office. These offices are listed on the last page of this publication.

REFERENCE SOURCES

Department of Regional Industrial Expansion Statistics Canada Revenue Canada

EXPLANATORY NOTES

Valuation

Imports are generally recorded at the values established for customs duty purposes according to the provisions of the Customs Act. Customs values are identical to selling prices for most transactions between non-affiliated companies, but customs values exceed selling prices for many transactions between affiliated companies. All values are reported in Canadian dollars and do not include duty.

Average Growth Rate

Growth rates are calculated on the basis of annual compounding.

Rounding

Figures may not add due to rounding.

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PUB. NO: 63-86 IMPORT COMMODITY CODES - 706-09-11 706-09-87 706-09-88 706-09-90

CANADIAN MARKET OPPORTUNITIES - IMPORT PROFILE

PHYSIOLOGICAL MONITORING AND RECORDING EQUIPMENT, ACCESSORIES AND PARTS

INTRODUCTION AND SCOPE

This report is one of a continuing series designed to increase business awareness of the potential existing for domestic production and to stimulate Canadian business to further explore potential opportunities in both the Canadian and export markets. It is important to emphasize that this report does not attempt any assessment as to the feasibility of manufacturing or competing in a particular market and should be treated as an indicator or starting point for the manufacturer or entrepreneur.

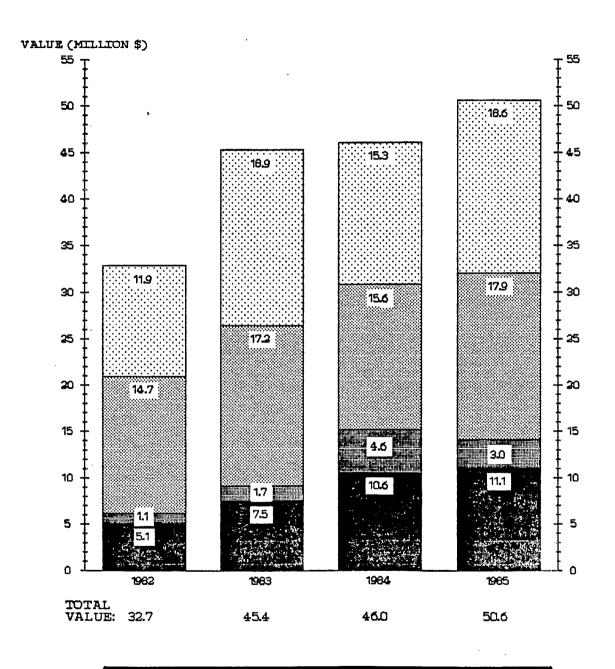
The following products are covered in this report:

| Canadian International Trade Classification (C.I.T.C.) Commodity <u>Code</u> | Product Description |
|--|---|
| 706–09–11 | Physiological Recording Equipment (Includes: cardiographs, cardiotographs, electrocardiographs, electromyographs, electroencephalographs, physiological monitoring units, diagnostic polygraphs and vector cardiographs) |
| 706–09–87 | Physiological Monitoring/Recording Equipment Accessories (Includes: cardiac monitor electrodes) |
| 706–09–88 | Physiological Monitoring/Recording Equipment Parts, Not Elsewhere Specified (Includes: fetal pulse detectors, blood pressure and plethysmograph transducers) |
| 706–09–90 | Physiological Monitoring/Recording Equipment, Not Elsewhere Specified (Includes: medical signal averaging equipment, echoencephaloscopes, heart scopes, coronary care and fetal heart monitors, plethysmographs, electrotherapeutical equipment, mingographs and thermography instruments) |

Cardiac defibrillators, heart pacemakers and pacemaker catheters are not considered in this report.

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IMPORT TRENDS: OVERVIEW



| Physiological Recording Equipment |
|---|
| Physiological Monitoring/Recording Equipment Accessories |
| 🖾 Physiological Monitoring/Recording Equipment Parts, NES |
| Physiological Monitoring/Recording Equipment, NES |

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IMPORT TRENDS - SUMMARY VALUE OF IMPORTS (\$000)

| C.I.T.C. Commodity Code | Description | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | Average Annual Growth Rate <u>1982–1985</u> % | Major Country of Export <u>1985 Value</u> (\$000) |
|-------------------------------|--|-------------|-------------|-------------|-------------|---|--|
| 706 09 11 | Physiological Recording Equipment | 5 132 | 7 543 | 10 572 | 11 089 | 29 | United States 10 149 |
| 7060987 | Physiological Monitoring/Reconding Equipment Accessories | 1 064 | 1742 | 4 592 | 3 030 | 42 | United States 2 781 |
| 7060988 | Physiological Monitoring/Recording Equipment Parts, Not Elsewhere Specified | 14 656 | 17 178 | 15 567 | 17 884 | 7 | United States 16 803 |
| 70609-90 | Physiological Monitoring/Recording Equipment, Not Elsewhere Specified | 11 886 | 18 939 | 15 270 | 18 565 | 16 | United States 16 293 |
| | TOTAL | 32 738 | 45 402 | 46 001 | 50 568 | 16 | United States 46 026 |

Imports of this total group of products rose from \$33 million in 1982 to \$45 million in 1983 (39 per cent increase for the year), followed by two years of more moderate increases to \$51 million in 1985.

The two main subgroups (i.e. Physiological Monitoring/Recording Equipment Parts, N.E.S. - commodity code 706-09-88; and Physiological Monitoring/Recording Equipment, N.E.S. - commodity code 706-09-90) account for most of the total value and followed patterns similar to those of the total.

Physiological Recording Equipment (commodity code 706-09-11) imports doubled between 1982 and 1984, stabilizing in 1985. Accessory imports (commodity code 706-09-87) fluctuated considerably, tending to be 5 to 10 per cent of the group total.

Throughout the four product subgroups the United States has been the overwhelming source of imports since 1982. In only two cases did the U.S. account for less than 90 per cent of the imports: in 1984 Ireland accounted for 17 per cent of the Accessories group; and in 1985 West Germany accounted for six per cent of the Equipment, N.E.S. group. (See Appendix A; pages 12-15, for more detailed data on imports by foreign country of export for each of the four product groups).

IMPORT MARKET CONCENTRATION BY PRODUCT TYPE AND TOTAL (CUMULATIVE PER CENT OF 1984 VALUE)

| PRODUCT AND C.I.T.C. | Top 5 <u>Importers</u> | Top 10 <u>Importers</u> | Top 20 <u>Importers</u> | Top 40 <u>Importers</u> | Total Number of known <u>Importers-1984</u> (100% of 1984 import value) |
|---|---------------------------|----------------------------|----------------------------|----------------------------|--|
| Physiological Recording Equipment (706-09-11) | | | | | |
| Value \$10.6 million (100%) | 60 | 68 | 78 | 86 | 143 |
| Physiological Monitoring/ Recording Equipment Accessories (706–09–87) Value \$4.6 million (100%) | 85 | 91 | 95 | 98 | 69 |
| | | | | | |
| Physiological Monitoring/ Recording Equipment Parts, Not Elsewhere Specified (706-09-88) | | | | | |
| Value \$15.6 million (100%) | 60 | 77 | 89 | 95 | 166 |
| Physiological Monitoring/ Recording Equipment, Not Elsewhere Specified (706-09-90) | | | | | |
| Value \$15.3 million (100%) | 31 | 48 | 69 | 83 | 175 |
| TOTAL (All four products aggregat | | | | | |
| Value \$46 million (100%) | 43 | 57 | 74 | 84 | 304 |

The five major importers of Physiological Monitoring/Recording Equipment Accessories (706-09-87) accounted for 85 per cent or \$3.9 million of the total imports for this commodity. The ten major importers of physiological recording equipment (706-09-11) accounted for 68 per cent or \$7.2 million. The ten major importers of Physiological Monitoring/Recording Equipment, Parts Not Elsewhere Specified (706-09-88) accounted for 77 per cent or \$12 million of the total imports.

NOTE: "Top importers" are the known importers with the largest imports by value in 1984. For a list of Canadian importers in 1984, see Appendix C, page 18.

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| | MANUFACTURERS | | WHOLESALERS | | OTHER (1) | | TOTAL | |
|-----------------------------|---------------------|------------------|---------------------|-------------------------|---------------------|------------------|--|------------------|
| | No. of Importers | Value (\$000) | No. of Importers | Value <u>(\$000)</u> | No. of Importers | Value (\$000) | No. of Importers | Value (\$000) |
| Ontario | 6 | 4 841 | 17 | 25 456 | 5 | 2 884 | 28 | 33 181 |
| Québec , | 74 | 1 253** | 4 | 2 832 | - | - | 12* | 5 385× |
| Western Provinces | 3* | 1 203* | 3 | 928 | 2 | 372 | 12* | 2 302^ |
| TOTAL | 9 | 6 094 | 24 | 29 216 | 7 | 3 256 | 40 | 38 566 |
| Per cent of 1984 total valu | e | 13% | | 64% | | 7% | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u> | 84% |

TYPE AND LOCATION OF THE 40 TOP KNOWN IMPORTERS - 1984 AGGREGATED DATA - ALL PRODUCTS (84% OF TOTAL IMPORT VALUE)

(1) Includes hospitals

* Québec and Western Provinces aggregated to preserve confidentiality.

The top 40 importers of all four products in aggregate accounted for \$38.6 million or 84 per cent of the combined import total in 1984. Of these 40, nine were manufacturers whose total imports represented \$6.1 million or 13 per cent of the import total. Twenty-four of the top importers were wholesalers whose total imports represented \$29.2 million or 64 per cent of the total imports. Eighteen of these wholesalers were wholesalers of professional equipment and supplies. The 28 Ontario importers accounted for \$33.2 million or 72 per cent of the total imports. Eighteen of the top 40 importers were importers of all four products, while an additional eight importers imported three out of the four products.

CANADIAN PRODUCTION

The Canadian manufacturers are distributed by province as follows:

| Product | <u>Nfld.</u> | <u>Number of</u> <u>Québec</u> | <u>Manufacturers t</u> <u>Ontario</u> | <u>oy Province</u> <u>Manitoba</u> | <u>Alberta</u> |
|---|--------------|-----------------------------------|--|---------------------------------------|----------------|
| Physiological Recording Equipment (C.I.T.C. 706-09-11) | 2 | 2 | 2 | - | 1 |
| Physiological Monitoring/Recording Equipment Accessories (C.I.T.C. 706-09-87) | - | - | 1 | · _ | 1 |
| Physiological Monitoring/Recording Equipment Parts, n.e.s. (C.I.T.C. 706–09–88) | - | _ | 5 | 2 | 1 |
| Physiological Monitoring/Recording Equipment, n.e.s. (C.I.T.C. 706-09-90) | - - | 8 | 12 | 1 | 5 |

One company produces all four products and six companies produce at least two of them. Statistics Canada does not publish specific production data for physiological monitoring/recording equipment. This equipment is included with many other products in the category "Dental, optical, surgical and medical instruments and apparatus."

EXPORTS

Statistics Canada does not publish export data for physiological monitoring/recording equipment. It is included in the export class "Medical and related instruments, equipment and parts, not elsewhere specified."

MARKET_SUMMARY

The Products

This profile covers a broad range of physiological monitoring/recording equipment. Devices in this category include pulse, blood pressure, respiratory rate, temperature and cardiac monitors and recorders. Also included in this category are computerized devices which, in addition to the display and recording of physiological parameters, analyze trends, activate alarms and carry out analyses of waveforms, intervals and deviations.

A patient monitor will generally consist of:

- A transducer to create an electrical signal representing a parameter (blood pressure, heart action, respiratory rate, temperature, etc.);
- 2) A "black box" which contains filters, signal conditioners and the other electronic circuits necessary to convert the transducer signals to a form suitable for display on a cathode ray tube and/or a paper or magnetic tape recorder, as well as the circuits necessary to activate alarms;
- A bedside visual display of the parameters being monitored;
- 4) Frequently, particularly in Intensive Care Units (ICUs), a slave display unit or units where several patients may be monitored from a central station.

The bedside unit to which a patient is connected has a small display screen (usually eight inches by 10 inches) and an assortment of controls for sensitivity, calibration, record-no-record choices, alarm settings, etc.

Product Problems

Few safety problems are encountered with modern monitors, but designs must be such that there is never a possibility of stray electric currents which could enter a patient. Radio frequency interference is always a potential problem with devices of this nature, as readings could be distorted or rendered impossible to monitor. The considerable number of wires running from the transducers applied to a patient to the visual display device, is always a problem to the health care staff.

Technology

In all monitors, some device (a transducer) converts the parameter being measured into an electrical signal. This signal is amplified, filtered and then attenuated to a level suitable for display on a cathode ray screen. At the same time, these analog electrical signals may be digitized to allow electronic processing of the data to display both numbers and interpretative data such as trend lines.

MARKET SUMMARY (CONTINUED)

Transducers necessary to sense the signals generated by heart activity are currently manufactured in Canada. Sensors (transducers) for blood pressure, brain activity and muscle electrical signals are not currently manufactured here.

Signal conditioners and amplifiers are based on the same technology used in the handling of all electrical signals, and it would not be difficult for any Canadian electronics company to emulate current designs.

Display screens are also manufactured in Canada and could readily be modified to adapt them to the applications being discussed.

However, there is room for improvement in existing designs and for the introduction of new designs. The principal complaint of users of monitors is radio-frequency interference. A perfectly shielded monitor-display system would find a ready market anywhere in the world. The second major complaint concerning current devices is that add-ons are frequently incompatible with existing equipment. Ergonomic design errors inherent in present equipment create a basis for potential improvements.

Finally, industry has been slow to develop "wireless" connections, by radio telemetry or light, between patients and monitors. Such a step forward, which would eliminate cable and wires around a hospital bed, would be highly desirable and marketable.

Regulatory Environment

Hospitals generally require that monitors meet the standards of the Canadian Standards Association. The safety of such devices must be certified to the Bureau of Medical Devices of the Department of Health and Welfare and records kept testifying to the safety of the device. In addition, physiological monitoring devices must meet the standards of the Food and Drug Act (with respect to leakage of currents) for electromedical devices. The Food and Drug Administration in the United States indicates that all monitors are considered Class II devices (i.e. those for which mandatory standards have been established). Such standards include precise marking and labelling requirements, information to be included in instruction manuals, accuracy of calibration devices, allowable leakage of currents, etc.

Apparent Domestic Market

The Canadian market for medical monitoring devices is almost completely served by imported products. Identifiable imports totalled approximately \$46 million in 1984 and \$51 million in 1985. If one assumes a 33 per cent markup after importation, then the total cost to the Canadian health care system is some \$68 million annually. There is currently limited production in Canada of specialized ultrasonic monitors for fetal heart rate and for blood flow.

In 1985, imports of physiological monitoring/recording equipment and parts, distributed on the basis of hospital beds per province, would indicate that the market by province would be as follows (assuming a 33 per cent markup after importation):

(\$ MILLION)

| <u>Nf1d.</u> | <u>N.S.</u> | <u>P.E.I.</u> | <u>N.B.</u> | <u>Qué.</u> | <u>Ont.</u> | <u>Man.</u> | <u>Sask.</u> | <u>Alta.</u> | <u>B.C.</u> |
|--------------|-------------|---------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|
| 1.48 | .404 | 2.42 | 2.09 | 17.57 | 22.68 | 2.96 | 3.16 | 6.46 | 8.08 |

TOTAL \$67.3 million

MARKET SUMMARY (CONTINUED)

Monitors find many applications, particularly in Intensive Care Units (ICU) where a number of parameters for each patient may be measured and the results for all patients in an ICU displayed at a central console. Similar requirements may exist in recovery rooms and during surgery, while a patient is under general anaesthesia. It is unusual not to measure blood pressure simultaneously at several points in the body, as well as heart rate, heart rhythm and respiratory rate.

Monitoring equipment has a short life span and is constantly being superseded by "new" and "better" equipment. Seven-year-old equipment is considered "old" equipment. However, new technology is not necessarily readily accepted by physicians. To offset this conservatism, manufacturers attempt to design units of greater operating simplicity. At the same time, there is a trend toward increased use of computer-based technology to provide physicians with interpretative as well as specific data. For instance, integral software will calculate and display trends for a considerable time period--up to several hours. In addition, depending upon the desire of governments to increase home patient care programs, health care planners are predicting a large increase in the market for monitors, particularly portable (ambulatory) recording type monitors of heart functions for diagnostic purposes and for monitoring of treatment regimes.

Tariffs and Other Trade Considerations

Monitors enter Canada free of import duty. No federal or provincial sales taxes are levied on such equipment. The rate of duty into the United States is 4.7 per cent.

Competitive Factors

This market is dominated by an aggressive and competent United States' company, Hewlett Packard Inc. Other suppliers such as Honeywell Ltd., Medical Electronics Division, and Medtronic Inc., are almost universally United States based and are also well recognized and well received by the medical profession.

In addition to the United States competition, preference exists for equipment which is universally recognized in all countries and on which many health care professionals received training. Positive evaluations carried out by recognized and respected physicians would help to introduce a good or better Canadian product to the world market.

One must recognize at the outset the immediate price competition which would be generated by the threat to current suppliers from a domestic source. There is considerable latitude in the prices charged to Canadian hospitals by American and overseas suppliers which would allow such suppliers to reduce prices drastically, to attempt to thwart the inroads of a Canadian manufacturer into this market. However, opportunities exist for innovative Canadian companies with the financial strength and the technological background to enter the physiological monitoring and recording equipment market, particularly in the areas of licensing arrangements with large overseas suppliers, development of new products, and the assignment of product mandates by the parents of Canadian subsidiary or affiliate companies.

This report was prepared by:

the Market Development Branch in collaboration with the Health Care Products Division, Resource Processing Industries Branch.

DEPARTMENT OF REGIONAL INDUSTRIAL EXPANSION

VALUE OF IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

RECORDING EQUIPMENT, PHYSIOLOGICAL

| Foreign Country of Export | <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | Average Annual Growth Rate <u>1982-1985</u> % | Per cent Change <u>1984-1985</u> % |
|---------------------------------|-------------|-------------|-------------|-------------|--|---|
| UNITED STATES Value (\$000) | 4 660 | 6849 | 9 509 | 10 149 | 30 | 7 |
| JAPAN Value (\$000) | 256 | 66 | 341 | 277 | 3 | -19 |
| SWITZERLAND Value (\$000) | 10 | 8 | 239 | 125 | 132 | -48 |
| GERMANY, WEST Value (\$000) | 66 | 473 | 127 | 162 | . 35 | 28 |
| UNITED KINGDOM Value (\$000) | 21 | 14 | 137 | 201 | 112 | 47 |
| OTHER Value (\$000) | 119 | 133 | 219 | 175 | 14 | -20 |
| TOTAL Value (\$000) | 5, 132 | 7 543 | 10 572 | 11 089 | 29 | 5 |

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APPENDIX A2

VALUE OF IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PHYSIOLOGICAL MONITORING/RECORDING EQUIPMENT ACCESSORIES

| Foreign Country of Export | , <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | Average Annual Growth Rate <u>1982-1985</u> % | Per cent Change <u>1984-1985</u> % |
|--------------------------------|---------------|-------------|-------------|-------------|--|---|
| UNITED STATES Value (\$000) | 950 | 1 537 | 3 690 | 2 781 | 43 | -25 |
| IRELAND Value (\$000) | 0 | 110 | 780 | 125 | N/A | 84 |
| SWITZERLAND Value (\$000) | 62 | 0 | 15 | 37 | -16 | 147 |
| AUSTRIA Value (\$000) | 0 | 0 | 0 | 33 | N/A | N/A |
| OTHER Value (\$000) | 52 | 95 | 107 | 54 | 1 | 50 |
| TOTAL Value (\$000) | 1 064 | 1 742 | 4 592 | 3 030 | 42 | 34 |

N/A - Not applicable

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APPENDIX A3

VALUE OF IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PHYSIOLOGICAL MONITORING/RECORDING EQUIPMENT PARTS, N.E.S.

| Foreign Country of Export | , <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | Average Annual Growth Rate <u>1982-1985</u> % | Per cent Change <u>1984-1985</u> % |
|----------------------------------|---------------|-------------|-------------|-------------|--|---|
| UNITED STATES Value (\$000) | 13 845 | 15 921 | 14 389 | 16 803 | 7 | 17 |
| GERMANY, WEST Value (\$000) | 58 | 48 | 154 | 342 | 81 | 122 |
| PUERTO RICO Value (\$000) | 585 | 760 | 626 | 225 | -27 | -64 |
| JAPAN Value (\$000) | 8 | 66 | 18 | 117 | 145 | 550 |
| THE NETHERLANDS Value (\$000) | 119 | 71 | 134 | 93 | 8 | -31 |
| OTHER Value (\$000) | 41 | 312 | 246 | 304 | 95 | 24 |
| TOTAL Value (\$000) | 14 656 | 17 178 | 15 567 | 17 884 | 7 | 15 |

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APPENDIX A4

VALUE OF IMPORTS BY MAJOR FOREIGN COUNTRY OF EXPORT

PHYSIOLOGICAL MONITORING/RECORDING EQUIPMENT, N.E.S.

| Foreign Country of Export | , <u>1982</u> | <u>1983</u> | <u>1984</u> | <u>1985</u> | Average Annual Growth Rate <u>1982-1985</u> % | Per cent Change <u>1984-1985</u> % |
|------------------------------|---------------------------------------|-------------|-------------|-------------|--|---|
| UNITED STATES | | | | | | |
| Value (\$000) | 10 751 | 17 587 | 14 415 | 16 293 | 15 | 13 |
| GERMANY, WEST | | | | | | |
| Value (\$000) | 114 | 115 | 116 | 1 075 | 111 | 827 |
| JAPAN | | | | | | |
| Value (\$000) | 162 | 439 | 332 | 494 | 45 | 49 |
| UNITED KINGDOM | | | | | | |
| Value (\$000) | 25 | 130 | 178 | 191 | 97 | 7 |
| PUERTO RICO | | | | | | |
| Value (\$000) | 0 | 2 | 41 | 180 | N/A | 339 |
| OTHER | | | | | | |
| Value (\$000) | 834 | 666 | 188 | 332 | -26 | 77 |
| TOTAL | · · · · · · · · · · · · · · · · · · · | | | | | |
| Value (\$000) | 11 886 | 18 939 | 15 270 | 18 565 | 16 | 22 |

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N/A - Not applicable

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CANADIAN TARIFFS, 1986

| | | % of | TARIFF_TREATMENT | | | | |
|-----------------------|---|---|---|---------------------|--------------------------------------|-------------------|--|
| Tariff <u>Item</u> | Description | Total Import Value <u>(1984)</u> | British Prefer- ential <u>Tariff</u> | U.K. and Ireland | Most Favoured Nation Tariff | General Tariff | General Prefer- ential Tariff |
| | | | % | % | % | % | % |
| 47600–01 | X-ray apparatus and X-ray film; microscopes, illuminating devices and stands for use therewith; the following surgical, dental, veterinary and diagnostic articles: instruments; sterilizers; cobalt-therapy units, anaesthesia, surgical suction and oxygen administering apparatus including motive power and wall outlets but not piping systems. Parts of all the foregoing; electric light lamps designed for use with all the foregoing; portable cases and containers for all the foregoing | 86.2 | Free | Free | Free | Free | Free |
| 47900–01 | Materials and articles for use exclusively in the manufacture of the goods enumerated in tariff items 47600-01, 47605-01, 47805-01, 47810-01, 47815-01, 47820-01, 47826-01, 47830-01 and 47835-01 | 7.5 | Free | Free | Free | Free | Free |
| 47810–01 | Aural, nasal, mastectomy and other medical or surgical prostheses, other than dental prostheses; materials for use in reconstructive surgery, other than dental surgery; ileostomy, colostomy and urinary appliances or articles, other than infants' pants and diapers, designed to be worn by an individual; materials and articles required therewith for proper application and maintenance | 2.8 | Free | Free | Free | Free | Free |

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APPENDIX B

CANADIAN TARIFFS, 1986 (CONTINUED)

| | | % of | | TARI | FF TREATM | ENT | |
|------------------|---------------------------------------|-------------------|---------------|-------------|---------------|-----------|---------------|
| | | Total | British | | Most | | Genera |
| | | Import | Prefer- | | Favoured | | Prefer |
| Tariff | | Value | ential | U.K. and | Nation | General | ential |
| <u>Item</u> | Description | (1984) | <u>Tariff</u> | Ireland | <u>Tariff</u> | | <u>Tariff</u> |
| | | | % | % | % | % | % |
| 47605-01 | Operating room lights designed | | | | | | |
| | to minimize shadow, not | | | | | | |
| | including bulbs, of a class or | | | | | | |
| | kind not made in Canada; chairs | | | | | | |
| | and tables for surgical | | | | | | |
| | operating purposes; infant | | | | | | |
| | incubators; infant and patient | | | | | | |
| | medical-alert or identification | | | | | | |
| | devices including beads, tapes | | | | | | |
| | and ribbons of any material, | | | | | | |
| | cases therefor and equipment | | | | | | |
| | for their application; | | | | | | |
| | electrocardiographs, paper and | | | | | | |
| | sensitized film for use | | | | | | |
| | therein; unexposed instant | | | | | | |
| | film; apparatus for sterilizing | | | | | | |
| | purposes, including bedpan | | | | | | |
| | washer-sterilizers but not | | | | | | |
| | including washing nor laundry | | | | | | |
| | machines; parts of all the | | | | | | |
| | foregoing; | | | | | | |
| | electroencephalographic paper. | | | | | | |
| | All for the use of any public | | | | | | |
| | hospital, under such regulations | | | | | | |
| | as the Minister may prescribe | 1.5 | Free | Free | Free | Free | Free |
| <u>Cariff Ar</u> | rangements and Foreign Countries of L | <pre>xport:</pre> | | | | | |
| | | | | | | | |
| 10st favo | URED NATION: UNITED STATES, JAPAN, S | | | MANY, | | | |
| ACT CANO | AUSTRIA, PUERTO RICO, 1 | | | | | | |
| MUSI FAVU | URED NATION OR U.K. AND IRELAND: UN | LTED KINGDO | 1, IRELAND | ł | | | |
| | | | | | | | |
| ENQUIRIES | CONCERNING TARIFFS SHOULD BE DIRECT | ED TO THE NI | AREST CUS | toms and ex | CISE OFFI | CE OR TO: | |
| TARIFF PR | OGRAMS | | | | | | |
| REVENUE C | | | | | | | |
| | ND EXCISE | | | | | | |
| OTTAWA, O | | | | | | | |
| (1A 0L5 | | | | | | | |
| | | | | | | | |

TEL: (613) 996-9478

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Pub. No: 63-86

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CANADIAN IMPORTERS

Importers of Physiological Monitoring and Recording Equipment, Accessories and Parts as indicated in this report during 1984 are listed below in alphabetical order. This list includes all importers except individuals and a minimal number of importers whose names were not available. The number in brackets following the names of the importers indicate the specific types of equipment they are importing as follows: (1) Physiological Recording Equipment; (2) Physiological Monitoring/Recording Equipment Accessories; (3) Physiological Monitoring/Recording Equipment Parts, Not Elsewhere Specified; and (4) Physiological Monitoring/Recording Equipment, Not Elsewhere Specified.

| Name , | Address | Name | Address |
|--|--|--|--|
| 116844 Canada Ltd.(4) 253992 Ontario Ltd.(1)(4) | Downsview, Ont. Toronto, Ont. | Board of Education Borough of Scarborough(4) | Scarborough, Ont. |
| 3M Canada Inc.(3) A M G Sales Agency Inc.(1)(3) Abbott Laboratories Ltd.(1)(2) | London, Ont. Montréal, Qué. Montréal, Qué. | Boehringer Ingelheim Canada Ltd.(3)(4) British Columbia Institute of | Burlington, Ont. |
| Alberta Anaesthesia & | Calgary, Alta. | Technology(1)(2)(4) | Burnaby, B.C. |
| Respiratory Co. Ltd.(4) Alberta Respiratory Services | talyary, Alta. | Brown Boveri Canada Inc.(1)(3) Bruel & Kjaer Canada Ltd.(3) | Pointe-Claire, Qué. Pointe-Claire, Qué. |
| Associates Ltd.(3)(4) Alcoholism and Drug Addiction | Edmonton, Alta. | Bryant Medical Products | Mississure Ost |
| Research Foundation(1) | Toronto, Ont. | Ltd.(3)(4) Buchan Instruments Inc.(3) | Mississauga, Ont. Pickering, Ont. |
| Allen Crawford Associates | | Burnaby Hospital(1) | Burnaby, B.C. |
| Ltd.(3)(4) American Hospital Supply | Mississauga, Ont. | Burroughs Wellcome Ltd.(3) Burrows Medical Oxygen Ltd.(4) | Kirkland, Qué. Toronto, Ont. |
| Canada Ltd.(3) | Mississauga, Ont. | C A E Equipment, A Division | |
| American Hospital Supply Canada Ltd., Div. of McGraw Supply | | of C A E Electronics Ltd.(4) CCSD Management Ltd.(1) | Vancouver, B.C. Okotoks, Alta. |
| Ltd.(1)(3)(4) | Brantford, Ont. | Calgary General Hospital(4) | Calgary, Alta. |
| Amoco Canada Petroleum Co. Ltd.(1) | Calgary, Alta. | Calgary Separate School Board(4) | Calgary, Alta. |
| Animated Electronics Inc.(4) | Port Moody, B.C. | Cambridge Instruments Canada | ourgury, Arour |
| Arnold Farm Vet Ltd.(3) Avenue Medical Supply Agency | Guelph, Ont. | Inc.(4) Can-Med Surgical Supplies | Montréal, Qué. |
| Ltd. (1) | Toronto, Ont. | Ltd.(2) | Halifax, N.S. |
| B C Medical Equipment Ltd.(4) | Vancouver, B.C. | Canada Microsurgical Ltd.(4) | Burlington, Ont. |
| Babcock Wilcox Canada Ltd.(4) Baker Healthcare Products | Galt, Ont. | Canadian Cardiovascular Products Ltd.(3)(4) | Mississauga, Ont. |
| Ltd.(1)(2)(3) | Vancouver, B.C. | Canadian Dental Supplies | |
| Bard Canada Inc.(4) Baytronix Ltd.(1)(4) | Mississauga, Ont. Montréal, Qué. | Alberta Ltd.(1) Canadian Howmedica Ltd.(1)(3)(4) | Sherwood Park, Alta. |
| Beckman Instruments Inc.(1)(3) | Toronto, Ont. | Canadian NDE Technology Ltd.(3) | Rexdale, Ont. |
| Bell Textile Ltd.(4) | Bramalea, Ont. Montréal Oué | Canadian National Railways(3) | Montréal, Qué. |
| Bio-Mega Inc.(l) Bioimplant Canada Inc.(3) | Montréal, Qué. St-Hyacinthe, Qué. | Canadian Therapy Supply(3) Cancer Control Agency of B.C.(4) | Peterborough, Ont. Vancouver. B.C. |
| Biomedical Engineering Shared | | Candie Medical Inc. | St-Laurent, Qué. |
| Service Inc.(3) Biomedical Instrumentation | Toronto, Ont. | Canon Canada Inc.(3)(4) Centre Hosp. Rég. Baie | Mississauga, Ont. |
| Inc.(4) | Willowdale, Ont. | Comeau(1)(3) | Hauterive, Qué. |
| Bionetics Ltd.(1)(2)(3)(4) Biosig Instruments Inc.(1) | St-Laurent, Qué. Montréal, Qué. | Centre Hospitalier Universitaire(1) | Sherbrooke, Qué. |
| Blair Medical Specialties | nonco car, que. | Centre Hospitalier | aner prooke, que. |
| Ltd.(2)(3)(4) | Toronto, Ont. | Ste-Marie(1)(3)(4) | Trois Rivières, Qué. |

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APPENDIX C

Canadian Importers (Continued)

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APPENDIX C

Name

Address

Centre Hospitalier Régionale de Rimouski(1)(3) Childrens Hospital of Eastern Ontario(3) Childrens Hospital(3)(4) Cilco Canada Inc.(3)(4). City of Calgary(3) City of Regina(3) City of Winnipeg(1)(3). Clift, T.B. Ltd.(1)(2)(3) Clift, T.B. Surgical Ltd.(1)(3) Club Nautilus d'Anjou Inc.(4) Columbia Centre for Pain & Stress Management Ltd.(3) Concordia University(4) Cook (Canada) Inc.(3) Cordis Brent Inc.(1)(3)(4) Corp. de l'Hôpital de Sept-Iles(3) Coulter Electronics of Canada Ltd.(3)(4)Dalhousie University(1)(2)(3)(4) Halifax, N.S. Dantec Electromedical and Scientific Equipment Ltd.(1)(2)(3)(4) Dartmouth General Hospital(4) Dentsply Canada Ltd. (4) Department of National Defence(1)(2)(3)(4) Diasonics Inc.(4) Digidyne Inc.(3) Digital Systems and Applications Inc.(4) Dismed Inc.(1) Doctor Everett Chalmers Hospital(1)(3) Dorlon Products (Canada) Ltd.(4) Richmond, B.C. Downs Surgical Canada Ltd. (2) Dumex Medical Surgical Products Ltd.(2) Dupont Canada Inc.(4) Dynetech Ltd.(2)(3)(4) Éditions Fremontel Inc.(4) Edmonton General Hospital(3) Elscint Canada Ltd.(1) Emery Air Freight Corp.(2) Etobicoke General Hospital(1)(3)Extracorporeal Inc.(4)

Rimouski, Qué. Ottawa, Ont. Vancouver, B.C. Pickering, Ont. Calgary, Alta. Regina, Sask. Winnipeg, Man. St. John's, Nfld. Halifax, N.S. Brossard, Qué. Vancouver, B.C. Montréal, Qué. Markham, Ont. Toronto, Ont. Sept-Iles, Qué. Burlington, Ont. Scarborough, Ont. Dartmouth, N.S. Downsview, Ont. Ottawa, Ont. Sunnyvale, CA, USA* Lachine, Qué. Toronto, Ont. Montréal, Qué. Fredericton, N.B. Mississauga, Ont. Scarborough, Ont. Mississauga, Ont. Toronto, Ont. Montréal, Qué. Edmonton, Alta. Markham, Ont. Scranton, PA, USA* Rexdale, Ont. Markham, Ont.

Name

Fielding Crossman & Associates Ltd.(3) Fish and Wildlife Branch(4) Fisher Scientific Co. Ltd.(2)(3)Foothills Provincial General Hospital(1) Force 3 Medical Inc.(2)(4) Forma Scientific, Div. Mallinckrodt Inc.(3)(4) Foxboro Canada Inc.(3) Gambro Canada Ltd.(4) General Electric Medical Systems Ltd.(4) General Hospital(4) Génie Audio Inc.(1)(2)(4) Goring Kerr Canada Inc.(4) Gould Shawmut Co., Div. of Gould Electronics (Canada) Ltd.(3) Govt. of the Prov. of Nfld & Lab(4) Grace Hospital(3) Graphic Controls Canada Ltd.(1)(2)(3)(4)Grass Instrument of Canada(1)(3) Toronto, Ont. Greater Niagara General Hospital(1)(3) Gregory System Ltd. (4) Griffin Canada Inc.(3) Halifax Infirmary(2)(3) Hamilton Civic Hospital(1) Harco Electronics Ltd.(3) Health Sciences Center Hospital(4) Heath Company, Div. of Zenith Radio Canada Ltd.(4) Hepburn, John T. Ltd.(3) Hewlett-Packard (Canada) Ltd.(1)(2)(3)(4)Honeywell Controls Ltd. (3) Honeywell Limited, Medical Electronics Division(3)(4) Hôpital Général Juif Sir M.B. Davis(2) Hôpital Général d'Ottawa(4) Hôpital Hôtel Dieu(1)(3) Hôpital Laval(1)(3)(4)Hôpital Notre-Dame(2)

Address

Willowdale, Ont. Nanaimo, B.C.

Ottawa, Ont.

Calgary, Alta. Pierrefonds, Qué.

Fort Erie, Ont. Montréal, Qué. Mississauga, Ont.

Milwaukee, WI, USA* Thunder Bay, Ont. Montréal, Qué. Scarborough, Ont.

Toronto, Ont.

St. Johns, Nfld. Vancouver, B.C.

Gananoque, Ont.

Niagara Falls, Ont. Houston, TX, USA* St-Hyacinthe, Qué. Halifax, N.S. Hamilton, Ont. Winnipeg, Man.

Vancouver, B.C.

Toronto, Ont. Toronto, Ont.

Mississauga, Ont. Willowdale, Ont.

Mississauga, Ont.

Montréal, Qué. Ottawa, Ont. Sherbrooke, Qué. Québec, Qué. Montréal, Qué.

APPENDIX C

Canadian Importers (Continued)

Name

Hôpital Reine-Elizabeth de Montréal(4) Hôpital St. François d'Assise(1) Hôpital des Laurentides(1) Hoskin Scientific Ltd.(1) Hospital For Sick Children(1)(2)(3)(4) Hôtel Dieu de Montréal(3) Hydra-Gym Canada Ltd.(4) I C Controls Ltd.(3) Imed Canada Inc.(1)(3)(4) In-Vent Marketing(3)(4) Ingram & Bell Ltd.(1)(2)(3)(4) Ingram, G.A. Co. (Canada) Ltd.(1) Institut de Cardiologie de Montréal(1)(3)(4) Instrument Service Laboratories Ltd.(1)(3)(4) Intertechnology Ltd.(3) Irwin Toy Ltd.(4) Ivac Division Eli Lilly Canada Inc.(3)(4) James International Canada Inc.(4)K D M (Drug Stores) Ltd.(4) Kendall Canada(4) Kingston General Hospital(1)(4) Kontron Scientific Ltd.(1)(2)(3)(4)Laborie, Ray & Associés Inc.(4) Lectec Ltd.(1) Les Industries Technolab Ltée(1) Les Placements Noel Bédard Ltée(2) Lilly, Eli Canada Inc.(3)(4) London Drugs Ltd. (4) London Health Association(1)(3) MOS Laboratories Ltd.(1) Major Medical Supplies Ltd.(1)(4)Matériel Médical Laval Inc.(2)(4)McGill University(3)(4) McKellar General Hospital(1) McMaster University(1)(3)(4)

<u>Address</u>

Montréal, Qué.

Québec, Qué. L'Annonciation, Qué. Oakville, Ont.

Toronto, Ont. Montréal, Qué. Sherwood Park, Alta. Orangeville, Ont. Scarborough, Ont. Maple Ridge, B.C. Don Mills, Ont.

Windsor, Ont.

Montréal, Qué.

Richmond, B.C. Don Mills, Ont. Toronto, Ont.

Agincourt, Ont.

Burnaby, B.C. Mississauga, Ont. Toronto, Ont. Kingston, Ont.

Toronto, Ont. Brossard, Qué. Mississauga, Ont.

Montréal, Qué.

Montréal, Qué. Scarborough, Ont. Richmond, B.C. London, Ont. Rexdale, Ont.

Hamilton, Ont.

Laval, Qué. Montréal, Qué. Thunder Bay, Ont. Hamilton, Ont.

Name

Mechanix Distributors Inc.(1)(3)(4)Med Ex Diagnostic of Canada Inc.(3)(4)Medical Mart Supplies Ltd.(1) Medical and Dental Instruments Co.(1)(3) Medicana Inc.(2) Médigas (Québec) Ltd.(4) Medigas Eastern Ontario Ltd.(4) Medigas Hamilton Ltd.(1)(2) (3)(4)Medigas Ltd.(4) Medtronic of Canada Ltd. (1)(2)(3)(4)Meier Medical Supplies Ltd.(3)(4)Merck Frosst Canada Inc.(3) Metex Corp. Ltd.(1) Metro Edmonton Hospital(1) Metro-Calgary & Rural Hospital(4) Miles Laboratories Ltd.(2) Misericordia Hospital(2) Mono Research Laboratories Ltd. (3) Monte Scientific Instruments Inc.(1)(2)(3)(4)Montréal Childrens Hospital(4) Montréal Creative Consortium(4) Montréal General Hospital(1)(2) Montréal Neurological Hospita1(1)(2)(3) Moose Jaw Union Hospital(4) Morgan Welding Supply Co. Ltd.(4) Mount Sinai Hospital(2)(4) Nanaimo Regional General Hospital(1) Narco Medical Servs., Oiv. of Air-Shields (Canada) Ltd.(1)(2)(3)(4)National Research Council(3) Nicolet Instrument Canada Ltd.(3)(4)Nihon Kohden (America) Inc.(1) North York General Hospital(1) Nova Scotia Association of Health Organizations(3)

Address

Toronto, Ont.

Coquitlam, B.C. Mississauga, Ont.

Willowdale, Ont. St-Laurent, Qué. St-Laurent, Qué. Ottawa, Ont.

Hamilton, Ont. Toronto, Ont.

Mississauga, Ont.

Maple Ridge, B.C. Pointe-Claire, Qué. Weston, Ont. Edmonton, Alta.

Calgary, Alta. Rexdale, Ont. Winnipeg, Man.

Brampton, Ont.

Montréal, Qué. Montréal, Qué. Montréal, Qué. Montréal, Qué.

Montréal, Qué. Moose Jaw, Sask.

Sault Ste-Marie, Ont. Toronto, Ont.

Nanaimo, B.C.

Oownsview, Ont. Ottawa, Ont.

Mississauga, Ont. Vancouver, B.C. Willowdale, Ont.

Halifax, N.S.

APPENDIX C

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Canadian Importers (Continued)

Name Address Name Address Saskatchewan Roughrider OHMEDA(1)(3)(4)Rexdale, Ont. Football Club(4) Regina, Sask. Oakville-Trafalgar Memorial Sault Ste-Marie and District Hospital(1) Oakville, Ont. Group Health Association(2)(3) Sault Ste-Marie, Ont. Old Laurel Investments Ltd.(4) Markham, Ont. Schaan Healthcare Products Ongwanada Hospital(3) Kingston, Ont. Inc.(4) Saskatoon, Sask. Ontario Hydro(3) Toronto, Ont. Siemens Electric Ltd.(1) Pointe-Claire, Qué. Overseas Monitor Corp. Siemens Electric Ltd.(2)(3)(4) Mississauga, Ont. Ltd.(3)(4)Vancouver, B.C. Simon Fraser University(4) Burnaby, B.C. Peterboro Civic Hospital(1) Peterborough. Ont. Squibb, E.R. & Sons Ltd.(1)(3) St-Laurent, Qué. Pharmacia (Canada) Ltd.(4) Dorval, Qué. St. Francis Xavier University(4) Antigonish, N.S. Philips Electronics St. Paul's Hospital(4) Vancouver, B.C. Ltd.(1)(2)(3)(4)Scarborough, Ont. St. Boniface General Picker International Canada Hospital(1)(3)(4)Winnipeg, Man. Inc.(1)(2)(3)(4)Bramalea, Ont. St. Joseph's Hospital(1)(4) Hamilton, Ont. Prairie Medical St. Joseph's Hospital(2) Chatham, Ont. Ltd.(1)(2)(3)(4) Edmonton, Alta. St. Mary's Hospital(1) Kitchener, Ont. Precision Ltd.(3) Winnipeg, Man. St. Michael's Hospital(2)(4) Toronto, Ont. Prince George Regional Standard Medical Supply Hospital(1) Prince George, B.C. Ltd.(1)(4) Calgary, Alta. Province of Nova Scotia, Starkman Surgical Supply Department of Finance(3)(4) Halifax, N.S. Ltd.(2)(4)Toronto, Ont. Province of Ontario, Ministry Stearns Catalytic Ltd., of Government Services(1) Toronto, Ont. Air Products Division(3) Allentown, PA, USA* Puritan-Bennett Ltd.(4) Overland Park. Sterisystems Ltd.(1)(2)(3)(4) Mississauga, Ont. KA, USA* Stevens Alberta Co. Qualité N D E Ltée(3) Mercier, Qué. Ltd.(1)(3)(4)Calgary, Alta. Québeurope Importations Inc.(4) Montréal, Qué. Stevens and Son Ltd.(1)(3)(4) Winnipeg, Man. Queen Elizabeth Hospital(4) Charlottetown, PEI Stevens, B.C. Co. Ltd.(1) Vancouver, B.C. Queensway-Carleton Stevens, J. & Son Co. Hospital(1)(3)Ottawa, Ont. Ltd.(1)(3)(4) Bramalea, Ont. Quinton Instrument Co.(1)(3) Seattle, WA, USA* Strong Enterprises Ltd.(4) Mississauga, Ont. Radionics Medical Inc.(3) Scarborough, Ont. Sunnybrook Hospital(1) Toronto, Ont. Rayvon Electronics Ltd. (2)(3)(4) Mississauga, Ont. Swedish Trade Commissioner(4) Toronto, Ont. Régent St-Pierre Inc.(4) Montréal, Qué. Technicare Corporation(3)(4) Concord, Ont. Regina General Hospital(1)(4) Regina, Sask. Technicon Canada Inc.(1)(3)(4) Montréal, Qué. Rico Medical Ltd.(2)(4) St-Laurent, Qué. Techno Labs Industries Roberts, F.W. Mfg. Co. Ltd.(1)(4) Montréal, Qué. Lockport, NY, USA* Ltd.(3)(4)Teletronics Proprietary Roxon Medi-Tech Ltée(1)(2)(3) St-Léonard, Qué. (Canada) Ltd.(1)(2)(3) Thornhill, Ont. Royal Canadian Mounted Police(1) Ottawa, Ont. The Doctors Hospital(1) Toronto, Ont. Kamloops, B.C. Royal Inland Hospital(3) The Health Sciences Royal Jubilee Hospital(1)(2) Victoria, B.C. Centre(2)(3)(4) Winnipeg, Man. Ottawa, Ont. Royal Ottawa Hospital(1)(3)(4) The Izaak Walton Killam Royal Victoria Hospital(1) Barrie, Ont. Hospital for Children(1) Halifax, N.S. Royal Victoria Hospital(3)(4) Montréal, Qué. The University of Saint John Regional Hospital(4) St. Johns, Nfld. Alberta(1)(4)Edmonton, Alta. Salvation Army Grace Hospital(1) Calgary, Alta. The University of British Sanyo Canada Inc.(4) Toronto, Ont. Columbia(4) VanCouver, B.C. Sarnia General Hospital(3) Sarnia, Ont.

APPENDIX C

Canadian Importers (Continued)

Name

Address

The Wellesley Hospital(1) Toronto, Ont. Thought Technology Ltd.(4) Montréal, Qué. Toronto General Hospital (1)(2)(3)(4)Toronto, Ont. Toronto Rehabilitation Centre(1) Toronto, Ont. Toronto Western Hospital(1)(2) Toronto, Ont. Toshiba International Corp.(1)(3)(4)Vancouver, B.C. Toshiba Medical Systems Inc.(1) Vancouver, B.C. Toshiba Medical Systems(4) Tustin, CA, USA* Mississauga, Ont. Travenol Canada Inc.(3) Trudell, George S. Co. Ltd.(1)(2)(3)(4)London, Ont. Universal X-Ray of Canada Ltd.(1)(3) Université d'Ottawa(1)(3) Université de Montréal(1)(4) University Hospital(1) University of Alberta Hospital(1)(3) University of British Columbia(3) University of Calgary(3) University of Manitoba(1)(3) University of Saskatchewan(3) University of Toronto(1)(3)(4) University of Western Ontario(1)(3) University of Windsor(3) Vancouver General Hospital(2)(3)(4) Vereburn Supply Ltd. (2)(3)(4) Victoria General Hospital(2)(3) Victoria Hospital Corp.(1)(3)(4) Westech Industrial Ltd.(4) Western Memorial Hospital(2) White Cross Surgical Instruments Co. Ltd.(1) Wilder Medical Supplies Ltd.(1) Winkler District Hospital(3) Womens College Hospital(1)(4) Y M C A(1) York X-Ray Management(3) York-Finch General Hospital(4) Downsview, Ont.

Dorval, Qué. Ottawa, Ont. Montréal, Qué. Saskatoon, Sask. Edmonton, Alta. Vancouver, B.C. Calgary. Alta. Winnipeg, Man. Saskatoon, Sask. Toronto, Ont. London, Ont. Windsor, Ont. Vancouver, B.C. Calgary, Alta. Victoria, B.C. London, Ont. Calgary, Alta. Corner Brook, Nfld. Toronto, Ont. Kitchener, Ont. Winkler, Man. Toronto, Ont. Toronto, Ont. Willowdale, Ont.

* Non-resident importer

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Nova Scotia P.O. Box 940, Station M 1496 Lower Water Street Halifax, Nova Scotia B3J 2V9 Tel: (902) 426-2018

New Brunswick P.O. Box 1210 Assumption Place 770 Main Street Moncton, New Brunswick ElC 8P9 Tel: (506) 857-6400

Québec C. P. 247 Tour de la Bourse 800, Place Victoria, Bureau 3800 Montréal (Québec) H4Z 1E8 Tel: (514) 283-8185

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Northwest Territories P.O.Bag 6100 Precambrian Building Yellowknife, Northwest Territories X1A 1CO Tel: (403) 920-8571

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