

AVERAGE PAYMENT PER PHYSICIAN REPORT, CANADA 1999/2000 AND 2000/2001



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# **Foreword**

The Canadian Institute for Health Information (CIHI) is a national organization mandated to coordinate the development and maintenance of a comprehensive and integrated health information system for Canada. One way it fulfills this role is by forging alliances with leaders in the health and health information fields.

CIHI's mission is based upon collaborative planning with all provincial, territorial and federal governments, as well as all other major partners in national health care services. The Institute is responsible for providing accurate and timely information necessary to establish sound health policies, manage the Canadian health system effectively, and create public awareness of factors affecting good health.

The Average Payment Per Physician Report, Canada, 1999/2000 and 2000/2001 is produced by Health Human Resources at CIHI to support health human resource planning and utilization analysis. CIHI wishes to acknowledge the support of the Provincial/Territorial Health Ministries and the CIHI Expert Group on Physician Databases in the development and publication of this report.

# **Preface**

The Average Payment Per Physician Report, Canada, 1999/2000 and 2000/2001 is the fifth Average Payment Per Physician Report produced by CIHI since the National Physician Database (NPDB) was transferred from Health Canada to CIHI. Other previously produced reports in the Average Payment Per Physician series include:

- Average Payment Per Physician Report, Canada, 1998/1999 and 1999/2000 (2002)
- Average Payment Per Physician Report, Canada, 1996/97 to 1998/99 (2001)
- Average Payment Per Physician Report, Canada, 1993/94 to 1995/96 (1999)
- Average Payment Per Physician Report, Canada, 1989/90 to 1993/94 (1997)
- Average Fee Payments for Full-time Physicians by Specialty, Canada by Province, 1985/86–1988/89 (1991)
- Average Fee Payment Per Physician and Physician/Population Ratios, Canada by Province and Territory, 1981/82 to 1985/86 and 1986/87 Where Available (1988)

Prior to 1995, Average Payment Per Physician reports were produced by the Health Information Division at Health Canada. These publications were produced using the Medical Care Database (MCDB), the predecessor of the National Physician Database (NPDB). In August 1995, both databases were transferred to CIHI.

The MCDB was developed following the implementation of the Medical Care Act in 1967 and was used to monitor the services provided and payments made by the provincial/territorial medical insurance plans. The NPDB expanded on the MCDB by including information on physician demographic and practice characteristics, and the age and gender of patients.

# Introduction

The National Physician Database (NPDB) has been used by the federal and provincial/ territorial governments, medical stakeholder groups and various private organizations and researchers as a data source for the average payment patterns of Canadian fee-for-service physicians. This information is used by federal and provincial/territorial governments for program administration, evaluation and policy development.

This publication provides information on average payments for fee-for-service physicians. Average payment results are presented in two series:

- per fee-for-service physician who received at least \$60,000 in payments; and
- per full-time equivalent fee-for-service physician.

Figures on the number of physicians, population per physician and physician per population ratios for each of the three categories are also included.

Average payment results represent gross payments made to fee-for-service physicians only. Payment figures do not represent net physician income (e.g. personal income, after making overhead payments). Also, non fee-for-service payments made to physicians are excluded from the figures.

It should be noted that in 2000/2001, Saskatchewan changed its policy allowing those physicians granted a locum license by the College of Physicians and Surgeons of Saskatchewan for more than eleven months to obtain their own billing number. The policy amendment also applied to locums for shorter periods of time where the College indicated the physicians' intent to establish a practice for a period of more than eleven months. In previous years, these locum physicians would have billed through a sponsoring physician who had a billing number. This policy change has the effect of increasing the number of physicians or full-time equivalent physicians and alternately reducing the average payments.

It should be noted that 1999/2000 results were previously presented in the publication entitled *Average Payment Per Physician Report, Canada, 1998/1999 and 1999/2000.* CIHI has received updated information from provinces since the previous publication, producing minor differences between this publication and the earlier one.

Any questions regarding the publications or the NPDB should be directed to:

Consultant, NPDB Health Human Resources, CIHI Suite 200-377 Dalhousie Street Ottawa, ON K1N 9N8

e-mail: npdb@cihi.ca

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# **Methodological Notes**

# **Background**

The National Physician Database (NPDB) provides information on the demographic characteristics of physicians and their level of activity within the Canadian medical care system and is used by governments, professional associations, consulting firms, pharmaceutical companies, researchers and the media for medical human resource planning and utilization analysis. The establishment of the database was approved in 1987 by the Conference of Deputy Ministers of Health upon the recommendation of the Advisory Committee on Health Human Resources (ACHHR).

On August 1, 1995, the NPDB was transferred to the Canadian Institute for Health Information (CIHI). CIHI assumed the responsibilities of Health Canada in maintaining the database. Previously, the NPDB was under the direction of the Working Group on Medical Care Statistics (WGMCS) which was disbanded when the database was transferred to CIHI. An Expert Group on Physician Databases was convened in April, 1996 and advises CIHI on data quality, methodology and product development matters relating to the NPDB and the Southam Medical Database (SMDB).

The NPDB is a multi-year, multi-phase initiative. Phase 1, which is operational, contains data on the demographic characteristics and activity levels of fee-for-service physicians. Information on activity levels includes total payments, total services, average payment per physician and full-time equivalent physician counts. Phase 2 is adding data on clinical activities remunerated under alternative reimbursement plans (such as salaries, contracts and sessional fees), and Phase 3 will contain data on non-clinical care activities of physicians (such as teaching, research and administration).

# **Data Sources and Collection**

#### **NPDB** Data

Data are derived from physician fee-for-service claims submitted by the provincial medical insurance programs to CIHI. The claims data and associated physician and patient demographic data are submitted in seven files, three of which are submitted annually and four quarterly. Quarterly files are submitted usually within six months of the end of a quarter and annual files within six months of the end of the fiscal year.

### Files submitted include:

Title	Description
05 File	Utilization by Age/Sex of Patient File
25 File	Dental Services and Other Non-physician Services File (file not submitted by all provinces)
30 File	Reciprocal Billing File (Quebec does not submit this file)
35 File	Physician Characteristics File
40 File	Utilization by Fee Code and UPI File
45 File	Utilization by UPI, Sex and Age Group of Patient File
55 File	Changes to UPI File

Any files that do not meet appropriate layouts, as defined in the NPDB Functional Specifications Manual, are returned to the provinces for correction and subsequent re-submission.

For a complete description of the record layouts of these files please see the NPDB Functional Specifications Manual, available from the Senior Analyst, NPDB, CIHI.

## **Average Payment Figures**

Two utilization files are used to create average payment indicators, Utilization by Fee Code and UPI File (40 File) and the Reciprocal Billing File (30 File). The Utilization by Fee Code and UPI File contains all direct payments for fee-for-service claims by physicians, laboratories and diagnostic facilities as well as services received by medical care plan beneficiaries out-of-province/territory but not processed through the reciprocal billing system (i.e. essentially services received out-of-Canada and in Quebec as well as services excluded from the reciprocal billing agreement). The Reciprocal Billing File contains data on out-of-province/territory services processed by the Reciprocal Billing System. This means each province/territory sends data on services their physicians provided to out-of-province/territory patients. Quebec does not participate in reciprocal billing arrangements.

## Type of Data: Date of Service vs. Date of Payment

Generally, utilization data files are submitted on a date of payment basis for Newfoundland, Prince Edward Island, New Brunswick, Manitoba and Saskatchewan and on a date of service basis for Nova Scotia, Quebec, Ontario, Alberta and British Columbia. Provinces submitting on a date of service basis wait six months or until 98 percent of services are captured before submitting data files for processing. Please see Table 1 for a yearly breakdown by province of the type of data file submission.

Table 1. NPDB File Submission: Date of Service (DOS) vs. Date of Payment (DOP)

Prov	1999/2000		2000	/2001
1100	DOS	DOP	DOS	DOP
Nfld.		✓		✓
P.E.I.		✓		✓
N.S.	✓		✓	
N.B.		✓		✓
Que.	✓		✓	
Ont.	✓		✓	
Man.		✓		✓
Sask.		✓		✓
Alta.	✓		✓	
B.C.	✓		<b>✓</b>	_

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# Type of Data: Billing vs. Payment Data

All provinces, except Quebec, submit payment data. Billing data reflect the full amount the physician billed the provincial Medical Services Plan for a particular fee code item. Payment data reflect what was actually paid to the physician. The amount paid would be the billed amount less any adjustments applied due to threshold values being met, income capping or clawbacks.

In Saskatchewan payment data exclude lump sum payments made in lieu of retroactive amendments to the Payment Schedule. These payments totaled \$0.9 million in 1999/2000 and approximately \$11.5 million in 2000/2001.

# Payment Mode: Level of Fee-for-service Coverage

Average payment per physician data are based on physician payments/billings for fee-for-service physicians only. The extent to which different forms of non fee-for-service payments are used by provinces to remunerate physicians has changed over the past several years (see Table 2). Many alternative forms of payment, such as salaried and sessional, have become more commonplace. The use of alternative payment plans differs by province and by specialty.

Alternative forms of reimbursement are currently not submitted to the NPDB and are not included in the statistics presented in this report.

Table 2. Payment Mode: Total Physicians and Percent by Payment Mode<sup>1</sup>

D	Total		Percent by Payment Mode			
Prov	Year	Physicians	FFS Only	Salary Only	Sessional Only	Other <sup>2</sup>
Nfld.	1999/2000	948	70	30	N/A	N/A
	2000/2001	941	70	30	"	"
P.E.I.	1999/2000	197	62	4	4	30
	2000/2001	223	55	5	9	31
N.S. <sup>3</sup>	1999/2000	1,838	52.8	1.4	0.1	45.7
	2000/2001	1,988	37.9	1.2	0.1	60.8
N.B.	1999/2000	1,350	51.2	4.5	1.0	43.3
	2000/2001	1,355	50.3	5.9	0.8	43.0
Que.4	1999/2000	14,530	83	3	7	7
	2000/2001	14,752	82	3	7	8
Ont. <sup>5</sup>	1999/2000	20,868	93	N/A	N/A	7
	2000/2001	21023	83	"	II .	17
Man.	1999/2000	2,149	30.2	17.5 Sal	ary/Sessional	52.3
	2000/2001	2,193	30.0	17.2 Sal	ary/Sessional	52.8
Sask.	1999/2000	1,533	81.6	"	"	18.4
	2000/2001	1,565	81.7	"	"	18.3
Alta.6	1999/2000	4,636	98	N/A	1	1
	2000/2001	4,856	98	"	1	1
B.C.	1999/2000	7,957	73.1	0.6	1.4	24.9
	2000/2001	8,074	73.2	0.4	1.5	24.9

N/A = Not applicable.

#### Notes

- 1. Some physicians are primarily on one form of alternative reimbursement, but in special cases can bill fee-for-service. For example, In Ontario, physicians under alternative reimbursement plans can bill fee-for-service when treating out-of-province patients and can bill fee-for-service when providing services to in-province patients when the services they are providing are outside the scope of their alternative payment agreement and the services are insured services. In Prince Edward Island, pediatricians on salary can bill fee-for-service when they are on call or if there is a special request from the family for the physician to see their child.
- 2. "Other" includes physicians who are paid through other single alternative modes (e.g. contract, capitation) as well as those who are paid through any combination of fee-for-service and/or alternative modes.
- 3. For 1999/2000, Nova Scotia counts include 38 physicians receiving radiology/internal medicine/pathology payments only and 62 physicians receiving psychiatric payments only. Nova Scotia counts for 2000/2001 include 29 physicians receiving radiology/internal medicine/pathology payments only and 49 physicians receiving psychiatric payments only.
- 4. Payment mode distributions for Quebec are based on the distribution of payments.
- 5. Figures for Ontario reflect the number of physicians who are eligible to bill on a fee-for-service basis. These counts will differ from those in Appendix E, which reflects physicians who have received payments in each fiscal year. Please contact the Consultant, NPDB for further information.

6. Figures provided are estimates.

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# **Population Data**

Canadian population figures used in this publication are compiled by the Demography Division of Statistics Canada. Statistics Canada prepares by special request, estimates of the "covered population" for use with the NPDB data. The covered population reflects people who received medical services paid for by provincial/territorial medical insurance programs. The covered population is the total population less the members of the Canadian Armed Forces, the Royal Canadian Mounted Police and inmates in federal penitentiaries. These groups of people have their medical services covered by a federal medical insurance program. Estimates are for October 1 of the given year and are revised annually. See Appendix A for the net population data.

Note to Readers:

Readers wishing further information on data provided through the cooperation of Statistics Canada may obtain copies of related publications by mail from: Publication Sales, Statistics Canada, Ottawa, Ontario, K1A OK9, by calling 1-613-951-7277 or toll free 1-800-267-6677. Readers may also facsimile their order by dialing 1-613-951-1584.

# **Data Quality**

#### **Error/Validation Routines**

The NPDB files are derived from provincial/territorial administrative systems and edit checks are conducted on the data by the jurisdiction prior to processing the NPDB files. As CIHI has no control over these edit checks, all data files received by CIHI are processed through the NPDB error/validation routines. The error/validation routines are limited in scope because the data cannot be confirmed against the source. Error/validation routines include review of the total record counts, service counts and dollar amounts for each file, checking each value in the fields against acceptable values, checking for invalid fee codes, checking for Unique Physician Identifier (UPI) numbers with illogical formats and logical review of the processed data. Any files that do not pass through the error/validation routines are returned to the jurisdictions for correction and subsequent re-submission.

# **Additional Data Quality Checks**

Service counts, dollar amounts and other economic indicators are validated against previous years data and provincial/territorial annual reports.

Data providers are given the opportunity to review their own data for validity and consistency. This publication was reviewed by the provincial/territorial medical insurance plan authorization officers prior to publication. For a complete list of the provincial/territorial authorization officers, please see Appendix B.

## **Data Definitions**

# **Full-time Equivalent Physicians**

Full-time equivalent (FTE) physician counts are weighted physician counts. Physicians are weighted based on the total payments they receive. A detailed description of CIHI's full-time equivalent methodology is given in Appendix H.

In summary, a physician's FTE value is calculated using his or her total payments in relation to set amounts that define upper and lower payment benchmarks for a medical specialty group within a province. FTE values are calculated as follows:

FTEi	= Total_Pay <sub>i</sub> / Lower_Benchmark <sub>j</sub>	If physician i earns less than the lower benchmark value
	= 1	If physician i earns an amount equal to or within the benchmark values
	= log (Total_Payi / Upper_Benchmarki)	If physician i earns more than the upper benchmark value

#### where:

- FTE; is the FTE value assigned to the i<sup>th</sup> physician
- Total Payi is the sum of all payments made to the i<sup>th</sup> physician
- Lower\_Benchmark<sub>i</sub> is the lower benchmark value set for the physician specialty group within the home province of the i<sup>th</sup> physician
- Upper\_Benchmark<sub>i</sub> is the upper benchmark value set for the physician specialty group within the home province of the i<sup>th</sup> physician

Province and specialty specific benchmarks are adjusted to account for variations in provincial fee schedules (see Appendix H). Benchmarks are reduced for provinces with lower than average fees and increased for provinces with higher than average fees. Thus, FTE values are payment based workload measures that can be used to compare activity levels across medical specialty groups and provinces.

## **Province/Territory of Practice**

Province/territory of practice is the jurisdiction where the physician is registered and receives payments from the provincial/territorial medical care plan. Physicians may practice in more than one jurisdiction in a given fiscal year. For example, the physician may move from one province to another during the fiscal year, or may provide services in two provinces on a regular basis, e.g. a physician providing services in provincial border areas such as Ottawa-Hull. This can result in the double counting of physicians except at the national level where physician counts are not based on province/territory of practice.

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# Specialty

Physician specialty designations are assigned by the provincial/territorial medical care plans and grouped within the NPDB to a national equivalent. Of the two specialties, latest acquired certified specialty and plan payment specialty, the latter is used for the purposes of this report.

In three provinces, Nova Scotia, Quebec, and British Columbia, data for Public Health Specialists are reported in the General Practice figures. For all provinces/territories, uncertified specialists, Community Medicine and Family Medicine are also grouped with General Practice, except in Ontario where Community Medicine, Public Health, Occupational Medicine and Pediatric Cardiology are received as Internal Medicine Specialists. Internal Medicine includes the sub-specialties such as Cardiology, Gastroenterology, Haematology, Rheumatology and Medical Oncology. Psychiatry includes Neuropsychiatry. Neurology includes EEG specialists, and Physical Medicine includes specialists in Electromyography. Specialists in the double specialty of Ophthalmology/Otolaryngology are included with the Ophthalmologists.

Additionally, the very few Plastic Surgeons and Urologists in Prince Edward Island are grouped into the General Surgery category for privacy and confidentiality reasons.

Physicians in Quebec may have two different status' which include two different specialties, one for in-province billings and one for billings outside Quebec. These two different status' appear on the 35 file (Physician Characteristics File) as two different records with the same Unique Physician Identifier which results in duplicate records on the file as far as individual physician's are concerned. Only the second record is retained on the NPDB system. This results in incorrect specialty assignment for some payments. Approximately 100 physicians per year are affected by this incorrect assignment.

For a complete listing of the specialty designations and their groupings please see Appendix C.

## **Unique Physician Identifier (UPI)**

A unique identifier is created by the province/territory using components of the physician's first and last names (scrambled using an algorithm), the physician's date of birth, gender and place of graduation.

# **Computations**

#### Counts

Two types of physician counts are presented in this report. They are counts based on FTE values and simple head counts. Physician count results are given in Appendix E. These counts are used to calculate results for the two average payment series presented in this report, average payment per physician who received at least \$60,000 in payments and average payment per full-time equivalent physician.

The first series, average payment per physician who received at least \$60,000 in payments, uses simple head counts. In this case, all physicians who receive payments of at least \$60,000 are counted as one physician, regardless of their clinical activity level.

The second series, average payment per full-time equivalent physician, uses physicians' FTE values. FTE counts are the summation of physicians' FTE values. FTE totals can be less than, equal to or greater than simple head count values. FTE counts provide an estimate of physician numbers, adjusting for variations in clinical workload. Physicians earning less than the lower benchmark payment values are counted as less than one physician, while physicians earning more than the upper benchmark payment values are counted as more than one physician. Physicians with earnings within or equal to the payment benchmarks are counted as exactly one physician (see Appendix H for details).

All counts are based on physicians receiving payments from provincial plans on a fee-for-service basis. Canada totals represent distinct UPIs, regardless of province, as physicians may be registered and receiving payments in more than one province. Concurrently registered physicians will appear as separate physicians in each province, for both average payment series. In the average payment per physician who received at least \$60,000 in payments series, physicians are only counted once in the Canada totals. Therefore, Canada totals will not necessarily equal the sum of the ten provinces for this series.

Physicians that receive payments under more than one specialty designation, possibly in multiple provinces, are assigned exclusively to the specialty in which most of their payments have been made.

# **Average Payment**

All average payment figures are created based on a fiscal year, April 1–March 31. Figures released in annual provincial reports may differ if they use the calendar year rather than the fiscal year.

Average payment amounts are calculated as follows for the two data series:

### Average payment per physician who received at least \$60,000 in payments

Average payment amounts are reported for each medical specialty group for each province. Average payment amounts are calculated as the sum of all payments made to physicians who receive at least \$60,000 in payments divided by the number of physicians who receive at least \$60,000 in payments.

#### Average payment per full-time equivalent fee-for-service physician

Average payment amounts are reported for each medical specialty group for each province. Average payment amounts are calculated as the sum of all payments made to physicians divided by the sum of all physician FTE values.

Both of these average payment series are being introduced, for the first time, in this Average Payment Per Physician Report. In 2001, CIHIs Expert Group on Physician Databases reviewed the relevance of average payment results presented in the Average

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Payment Per Physician Report. Based on this review, the Expert Group recommended that the two new series be used in place of past average payment indicators.

The average payment per fee-for-service physician who received least \$60,000 in payments series replaces a previous series that used \$50,000 as its inclusion threshold. The threshold increase recognizes cumulative increases to provincial fee schedules and the effects of inflation.

The average payment per full-time equivalent fee-for-service physician series replaces a previous series that only included average payments made to physicians with FTE values of 1 or greater. The previous series excluded approximately 40% of physicians for whom payment information is available. The previous series also counted physicians with FTE values > 1 as just one physician, thus potentially inflating average payment amounts. The advantages of the new series, average payment per full-time equivalent physician, are that it includes payments made to all physicians and the sum of all FTE values is used as a denominator, rather than a head count sum.

As with past average payment series, physicians with multiple specialty designations are assigned exclusively to the specialty group under which most payments have been made.

## **Data Limitations**

# **Gross and Net Payments**

As noted earlier, NPDB does not contain payments made to physicians through alternative payment programs. Also, average payment figures shown in this report are not adjusted to account for overhead expenses incurred by physicians. Thus, average payments may not represent gross income (i.e. income from all sources) or net income (i.e. personal income).

Provinces/territories vary with respect to overhead expenses incurred by physicians as well as payments made to physicians through alternative reimbursement programs. Provincial/territorial medical associations gather information on physicians' overhead expenses and may be able to provide estimates that would allow adjustments to be made to gross payment amounts. With respect to alternative payments, as shown in Table 2, the Atlantic provinces and Manitoba have proportionately more physicians receiving payments through non fee-for-service arrangements.

# **Specialty Designations**

Provinces/territories are requested to provide two types of specialty information on the NPDB files—latest acquired certified specialty and payment plan specialty. The latest acquired certified specialty is the most recently acquired specialty designation from the Royal College of Physicians and Surgeons of Canada, the Corporation professionelle des médecins du Québec or the College of Family Physicians of Canada. The payment plan specialty may or may not be different from the latest certified specialty and should reflect the specialty area in which the physician provides the majority of their services. The payment plan specialty is not provided by all provinces/territories.

For the purpose of this report, the payment plan specialty is used. Provinces may provide latest certified specialty instead of plan payment specialty if they do not have that information available. The latest certified specialty may or may not coincide with specialty orientation of the work actually carried out by a physician.

Additionally, any physician who practised under more than one specialty during the fiscal year was assigned the specialty under which he/she received the majority of his/her payments.

In 1997/1998, Newfoundland changed how it paid uncertified specialists. Prior to October 1997, such physicians were coded as uncertified specialists and grouped with Family Medicine for the purposes of the NPDB. Starting in October 1997, Newfoundland's uncertified specialists were allowed to bill as specialists and are now reported as specialists within Average Payment Per Physician reports.

CIHI average payment per physician statistics may vary from provincial "Annual Statistics" because of differences in the way specialties are grouped. For example, CIHI groups Neuropsychiatry in with Psychiatry whereas Quebec groups it with Neurology. CIHI includes Electromyography with Physical Medicine whereas Quebec does not. The subspecialties which constitute CIHI's Internal Medicine Specialty are reported on individually in the Régie de l'assurance maladie du Québec annual statistics report. Please refer to Appendix C for the CIHI Specialty groupings.

Finally, base year FTE benchmark calculations for Quebec include payments made through the provincial workers' compensation board. Similar payments are not reported by other provinces/territories, except British Columbia where such payments are reported after the base year (1995/1996). As such, this report includes workers' compensation payments for Quebec and excludes them for British Columbia. In order to improve interprovincial comparability, future NPDB reports will exclude workers' compensation payments from base year benchmark calculations as well as other NPDB indicators.

## Radiology and Pathology (Laboratory) Physicians

Radiologists, pathologists and laboratory directors are excluded from this report. Payments for radiology and laboratory services performed by a physician, who is neither a radiologist, pathologist nor laboratory director, are included. Medical care plan fee payments to radiologists or pathologists are nil or very small in the four Atlantic provinces, relatively small in Quebec, but substantial in the other jurisdictions. Omitting such payments in all jurisdictions improves comparability. See Appendix D for information on the extent of fee-for-service payments for radiology and laboratory services that are included in the NPDB data files, but excluded from this report.

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# **Privacy and Confidentiality**

There are three safeguards utilized by CIHI to protect the privacy and confidentiality of the physician data.

## **Unique Physician Identifier (UPI)**

Physician names are not used on the provincial/territorial files. Instead, a Unique Physician Identifier (UPI) is generated by the province/territory using components of the physician's name, their date of birth, gender and place of M.D. graduation. The name portion of the UPI is scrambled using an algorithm known only to the provinces/territories. The UPI helps protect the privacy and confidentiality of the physician and allows for the tracking of the physician throughout their career in Canada.

# NPDB Data Access/Release Policy

The release of data from the NPDB is governed by the NPDB Data Access/Release Policy which was established by the provincial/territorial ministries of health and is administered by CIHI. Depending on the type of client, the level of data aggregation, the province/territory and indicator of interest, CIHI may not be able to release data to the client without prior approval from the province(s)/territory(ies). Additionally, any cell counts of less than five are suppressed and are aggregated to the next level.

# **CIHI Privacy and Confidentiality Policy**

The release of any data from NPDB, whether as a regular product or as a custom request, is governed by CIHI's *Principles and Policies for the Protection of Personal Health Information and Policies for Institution-identifiable Information*. Refer to CIHI's Web site (www.cihi.ca) for further information including a copy of the policies and procedures document.

# **Products and Services**

There are three types of products that are generated from the NPDB—ad hoc requests, publications and special projects. Ad hoc requests are generally short queries that do not require major programming resources. Services counts and dollars amounts by specific fee codes or procedures are the most common forms of ad hoc request. Most ad hoc requests can be handled through standard reports that are generated annually. Publications currently available include:

- Average Payment Per Physician Report, Canada
- Full-time Equivalent Physicians Report, Canada
- National Grouping System Categories Report, Canada
- Reciprocal Billing Report, Canada

For details on publication years and reporting periods covered by these reports, please refer to the CIHI Web site (www.cihi.ca).

Special projects require project planning and the commitment of extra resources. Please contact Health Human Resources at CIHI for costs associated with these products and services.

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Table 1-1. Average Payment per Fee-for-service Physician Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 1999/2000

by Type of Traduct, c	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	176,295	182,917	169,464	167,958	149,788	202,126	165,090	205,791	189,382	182,773	185,626
Medical Specialties	214,310	216,038	199,012	236,871	173,899	255,423	182,376	230,643	216,453	220,063	223,602
Internal Medicine	234,770	250,199	226,262	281,746	188,827	327,183	196,195	286,770	243,906	278,698	268,202
Neurology	* *	n/a	206,191	245,406	175,881	252,815	186,775	234,498	163,325	255,164	216,725
Psychiatry	219,426	* *	146,660	200,501	122,271	180,450	136,925	201,873	182,498	159,596	165,513
Pediatrics	137,866	* *	179,532	215,131	157,113	231,551	162,677	155,413	178,691	188,319	195,868
Dermatology	* *	* *	311,322	257,142	214,669	291,733	190,072	* *	369,364	291,135	276,259
Physical Medicine	n/a	n/a	155,220	* *	201,070	196,039	100,788	* *	125,008	156,047	181,954
Anesthesia	205,894	172,428	199,294	197,442	191,433	231,076	224,153	200,190	231,506	213,280	218,907
Surgical Specialties	288,889	300,680	310,113	282,700	221,729	320,959	264,749	327,421	333,104	296,313	293,277
General Surgery	243,965	315,943	295,164	272,023	207,914	302,404	254,823	269,048	289,654	281,356	273,242
Thoracic/Cardiovascular Surgery	* *	n/a	389,417	336,492	255,513	431,893	290,276	482,136	619,431	331,389	351,391
Urology	345,425	* *	309,396	275,791	221,755	323,004	225,167	290,014	302,139	337,725	295,974
Orthopedic Surgery	210,118	* *	353,690	257,996	218,837	300,043	251,001	320,352	270,626	247,320	268,413
Plastic Surgery	* *	* *	277,419	242,089	174,877	264,775	343,873	242,626	292,956	213,509	239,522
Neurosurgery	* *	n/a	n/a	* *	177,070	312,746	162,952	* *	326,566	328,838	276,147
Ophthalmology	333,214	* *	377,977	355,032	244,972	383,233	364,918	505,510	448,063	396,224	364,433
Otolaryngology	459,517	* *	230,264	306,158	241,715	363,719	195,501	436,459	430,294	276,136	317,532
Obstetrics/Gynecology	274,417	265,457	251,991	257,262	225,515	306,224	251,564	280,436	300,979	261,150	278,617
Total Specialties	243,932	259,987	253,088	259,722	190,576	277,421	212,934	272,741	255,894	248,766	248,368
Total Physicians	203,708	212,603	204,888	208,357	170,255	237,449	189,424	231,766	216,724	209,105	214,327

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 1-2. Average Payment per Fee-for-service Physician Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
											1
Family Medicine	170,984	187,816	171,736	166,157	154,326	204,698	183,408	197,183	191,851	184,264	188,601
Medical Specialties	217,866	205,671	202,051	230,545	177,694	262,539	196,101	231,265	220,052	224,643	230,366
Internal Medicine	244,479	255,365	222,791	281,900	193,359	341,928	209,585	281,830	246,142	288,614	276,955
Neurology	111,668	n/a	256,250	236,312	176,085	258,295	197,135	242,302	172,975	246,583	219,167
Psychiatry	200,580	* *	146,240	181,727	120,678	180,885	143,357	205,794	188,044	162,373	169,766
Pediatrics	158,823	* *	165,048	215,397	158,294	231,559	176,604	160,621	184,745	196,235	200,954
Dermatology	206,038	* *	343,528	227,763	215,944	294,237	198,496	* *	371,490	293,003	275,952
Physical Medicine	n/a	n/a	157,187	* *	203,751	194,621	141,933	* *	123,381	154,797	180,827
Anesthesia	229,970	172,835	206,201	187,822	183,756	236,107	244,151	199,147	232,210	213,173	222,851
Surgical Specialties	294,108	302,279	331,365	287,187	225,596	331,213	290,392	332,721	344,744	304,142	303,377
General Surgery	242,210	321,493	318,908	261,085	207,964	312,130	261,425	279,810	300,263	281,126	280,128
Thoracic/Cardiovascular Surgery	* *	n/a	386,325	342,135	265,592	471,014	318,613	457,086	587,023	351,820	365,930
Urology	337,594	* *	319,597	291,423	225,715	330,281	260,810	327,679	323,666	334,161	305,271
Orthopedic Surgery	221,942	* *	346,489	267,003	227,319	309,027	280,382	320,554	283,751	248,927	278,729
Plastic Surgery	* *	* *	331,947	241,424	183,579	260,700	367,500	261,635	310,855	228,965	252,380
Neurosurgery	* *	n/a	* *	* *	147,661	325,418	* *	* *	281,788	347,983	272,586
Ophthalmology	349,070	* *	386,653	373,651	257,506	399,908	399,723	506,348	481,734	417,991	381,708
Otolaryngology	407,155	* *	290,168	288,505	244,267	364,037	202,505	365,250	451,193	279,030	321,928
Obstetrics/Gynecology	262,714	261,686	277,355	265,741	225,380	321,095	296,686	282,212	306,615	263,348	289,188
Total Specialties	248,493	253,975	263,366	258,311	195,011	285,488	229,227	274,075	262,189	253,905	256,352
Total Physicians	205,663	213,893	210,422	206,278	174,119	242,795	206,786	226,427	220,655	212,021	219,368
										Sou	ırce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 2-1: Average Payment per Full-time Equivalent Fee-for-service Physician by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
											1
Family Medicine	133,949	153,910	173,045	159,792	138,667	175,679	139,273	167,127	181,019	193,863	167,816
Medical Specialties	174,756	198,921	210,212	195,460	152,564	216,000	179,221	205,140	209,919	221,150	196,157
Internal Medicine	192,478	234,556	235,891	215,129	174,227	267,994	192,779	244,202	226,589	269,019	232,479
Neurology	138,231	* *	198,898	165,920	141,826	213,030	161,037	165,912	179,259	247,976	184,640
Psychiatry	143,013	* *	149,708	166,208	100,628	157,141	133,925	152,846	162,560	174,672	144,685
Pediatrics	114,297	* *	194,673	178,223	132,808	181,775	135,962	161,270	176,412	206,834	166,418
Dermatology	* *	* *	464,030	* *	215,510	286,973	237,467	* *	337,446	336,245	271,806
Physical Medicine	* *	* *	* *	* *	132,226	155,930	99,018	* *	180,043	206,155	151,290
Anesthesia	194,878	167,968	208,673	186,063	178,001	212,942	259,801	201,848	259,638	192,383	205,366
Surgical Specialties	259,913	286,758	321,537	285,466	214,815	289,484	280,073	281,807	331,934	336,360	278,650
General Surgery	207,790	266,618	285,185	258,199	198,885	268,098	254,241	256,667	290,725	304,562	254,472
Thoracic/Cardiovascular Surgery	* *	n/a	348,809	400,253	223,764	478,422	353,463	368,395	511,280	428,452	351,185
Urology	305,686	* *	328,748	294,956	224,322	297,378	289,251	284,344	328,616	351,448	289,141
Orthopedic Surgery	241,725	* *	324,124	267,169	203,297	287,186	261,148	262,417	302,173	295,884	263,378
Plastic Surgery	* *	* *	293,098	257,354	170,308	242,565	270,779	237,848	298,563	257,173	234,379
Neurosurgery	* *	n/a	* *	* *	175,328	274,279	* *	* *	301,794	335,381	253,203
Ophthalmology	348,771	* *	361,192	328,197	235,090	333,640	396,104	338,898	403,170	405,937	328,457
Otolaryngology	335,358	* *	368,294	300,346	244,075	332,349	270,377	308,925	379,151	330,794	306,221
Obstetrics/Gynecology	234,365	* *	299,515	263,516	227,099	273,547	253,477	267,017	310,291	337,947	269,931
Total Specialties	206,287	241,657	264,044	235,466	172,432	239,470	213,606	238,742	249,791	260,987	223,656
Total Physicians	161,093	185,289	210,650	193,758	155,677	205,560	173,740	193,271	208,856	220,674	193,287
										Source	: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 2-2: Average Payment per Full-time Equivalent Fee-for-service Physician by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	134,616	156,657	177,134	159,639	144,065	176,689	150,155	164,049	185,028	196,403	170,548
Medical Specialties	178,994	196,407	216,329	195,182	161,640	219,224	189,670	207,014	213,073	227,038	202,469
Internal Medicine	195,779	236,865	238,233	216,797	184,342	273,301	204,496	247,036	230,237	278,807	240,482
Neurology	* *	* *	218,218	162,447	157,315	213,074	175,586	164,463	185,888	248,305	192,015
Psychiatry	138,731	* *	153,245	160,984	99,260	157,433	139,467	157,337	165,016	178,600	147,256
Pediatrics	125,004	* *	190,320	178,364	136,286	182,487	149,754	164,817	178,771	215,807	170,076
Dermatology	* *	* *	478,726	* *	231,866	289,028	244,099	* *	340,118	343,520	281,155
Physical Medicine	n/a	* *	* *	* *	137,921	155,217	123,134	* *	184,123	220,114	155,391
Anesthesia	204,991	171,382	216,412	183,979	188,663	214,264	266,633	199,656	263,877	193,085	210,170
Surgical Specialties	269,200	292,321	330,527	286,447	229,537	292,785	295,063	281,180	348,857	343,306	287,580
General Surgery	211,601	268,806	294,156	257,468	212,059	271,371	262,419	261,158	310,578	303,768	261,738
Thoracic/Cardiovascular Surgery	* *	n/a	360,050	405,620	231,113	486,656	367,581	349,922	527,793	427,484	363,396
Urology	314,249	* *	341,541	299,992	244,890	300,314	306,344	300,839	337,396	353,750	298,436
Orthopedic Surgery	245,526	* *	330,199	268,168	222,099	290,407	278,913	263,416	327,354	298,865	274,382
Plastic Surgery	* *	* *	306,072	256,624	193,385	242,165	283,522	235,802	323,201	259,243	244,617
Neurosurgery	* *	n/a	* *	* *	163,047	279,222	* *	* *	291,603	347,026	255,402
Ophthalmology	363,310	* *	373,084	335,886	243,277	338,560	408,730	338,640	425,945	416,038	336,747
Otolaryngology	331,324	* *	383,267	293,894	260,308	333,318	292,726	292,296	391,548	333,939	313,890
Obstetrics/Gynecology	234,875	* *	308,208	264,204	243,324	277,342	269,570	266,005	318,293	344,091	277,998
Total Specialties	212,534	242,000	271,831	235,907	183,720	242,719	224,286	239,102	256,784	266,622	230,860
Total Physicians	167,448	187,774	216,636	193,454	163,248	207,876	184,655	191,330	214,046	224,429	197,885
										Sou	ırce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 3-1: Average Payment per Fee-for-service Physician Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 1999/2000 and 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
1999/2000											
Family Medicine	176,295	182,917	169,464	167,958	149,788	202,126	165,090	205,791	189,382	182,773	185,626
Medical Specialties	214,310	216,038	199,012	236,871	173,899	255,423	182,376	230,643	216,453	220,063	223,602
Surgical Specialties	288,889	300,680	310,113	282,700	221,729	320,959	264,749	327,421	333,104	296,313	293,277
Total Specialties	243,932	259,987	253,088	259,722	190,576	277,421	212,934	272,741	255,894	248,766	248,368
Total Physicians	203,708	212,603	204,888	208,357	170,255	237,449	189,424	231,766	216,724	209,105	214,327
2000/2001											
Family Medicine	170,984	187,816	171,736	166,157	154,326	204,698	183,408	197,183	191,851	184,264	188,601
Medical Specialties	217,866	205,671	202,051	230,545	177,694	262,539	196,101	231,265	220,052	224,643	230,366
Surgical Specialties	294,108	302,279	331,365	287,187	225,596	331,213	290,392	332,721	344,744	304,142	303,377
Total Specialties	248,493	253,975	263,366	258,311	195,011	285,488	229,227	274,075	262,189	253,905	256,352
Total Physicians	205,663	213,893	210,422	206,278	174,119	242,795	206,786	226,427	220,655	212,021	219,368
										Sou	urce: NPDB, CIHI

Table 3-2: Percent Change in Average Payment per Fee-for-service Physician Who Received Payments at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 1999/2000 and 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
1999/2000 and 2000/2001											
Family Medicine	-3.01	2.68	1.34	-1.07	3.03	1.27	11.10	-4.18	1.30	0.82	1.60
Medical Specialties	1.66	-4.80	1.53	-2.67	2.18	2.79	7.53	0.27	1.66	2.08	3.02
Surgical Specialties	1.81	0.53	6.85	1.59	1.74	3.19	9.69	1.62	3.49	2.64	3.44
Total Specialties	1.87	-2.31	4.06	-0.54	2.33	2.91	7.65	0.49	2.46	2.07	3.21
Total Physicians	0.96	0.61	2.70	-1.00	2.27	2.25	9.17	-2.30	1.81	1.39	2.35
										Sou	rce: NPDB, CIH

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

Table 3-3: Average Payment per Full-time Equivalent Fee-for-service Physician by Type of Practice, Canada and the Provinces, 1999/2000 and 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
1999/2000											
Family Medicine	133,949	153,910	173,045	159,792	138,667	175,679	139,273	167,127	181,019	193,863	167,816
Medical Specialties	174,756	198,921	210,212	195,460	152,564	216,000	179,221	205,140	209,919	221,150	196,157
Surgical Specialties	259,913	286,758	321,537	285,466	214,815	289,484	280,073	281,807	331,934	336,360	278,650
Total Specialties	206,287	241,657	264,044	235,466	172,432	239,470	213,606	238,742	249,791	260,987	223,656
Total Physicians	161,093	185,289	210,650	193,758	155,677	205,560	173,740	193,271	208,856	220,674	193,287
2000/2001											
Family Medicine	134,616	156,657	177,134	159,639	144,065	176,689	150,155	164,049	185,028	196,403	170,548
Medical Specialties	178,994	196,407	216,329	195,182	161,640	219,224	189,670	207,014	213,073	227,038	202,469
Surgical Specialties	269,200	292,321	330,527	286,447	229,537	292,785	295,063	281,180	348,857	343,306	287,580
Total Specialties	212,534	242,000	271,831	235,907	183,720	242,719	224,286	239,102	256,784	266,622	230,860
Total Physicians	167,448	187,774	216,636	193,454	163,248	207,876	184,655	191,330	214,046	224,429	197,885
										Sou	ırce: NPDB, CIHI

Table 3-4: Percent Change in Average Payment per Full-time Equivalent Fee-for-service Physician by Type of Practice, Canada and the Provinces, 1999/2000 and 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
1999/2000 and 2000/2001											
Family Medicine	0.50	1.79	2.36	-0.10	3.89	0.57	7.81	-1.84	2.21	1.31	1.63
Medical Specialties	2.43	-1.26	2.91	-0.14	5.95	1.49	5.83	0.91	1.50	2.66	3.22
Surgical Specialties	3.57	1.94	2.80	0.34	6.85	1.14	5.35	-0.22	5.10	2.06	3.20
Total Specialties	3.03	0.14	2.95	0.19	6.55	1.36	5.00	0.15	2.80	2.16	3.22
Total Physicians	3.95	1.34	2.84	-0.16	4.86	1.13	6.28	-1.00	2.48	1.70	2.38
										Sou	ırce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

Table 4-1: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001 Family Medicine

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	176,295	182,917	169,464	167,958	149,788	202,126	165,090	205,791	189,382	182,773	185,626
2000/2001	170,984	187,816	171,736	166,157	154,326	204,698	183,408	197,183	191,851	184,264	188,601
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	133,949	153,910	173,045	159,792	138,667	175,679	139,273	167,127	181,019	193,863	167,816
2000/2001	134,616	156,657	177,134	159,639	144,065	176,689	150,155	164,049	185,028	196,403	170,548
										Sou	rce: NPDB, CIHI

Table 4-2: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	eceived										
at least \$60,000 in payments											
1999/2000	214,310	216,038	199,012	236,871	173,899	255,423	182,376	230,643	216,453	220,063	223,60
2000/2001	217,866	205,671	202,051	230,545	177,694	262,539	196,101	231,265	220,052	224,643	230,366
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	174,756	198,921	210,212	195,460	152,564	216,000	179,221	205,140	209,919	221,150	196,15
2000/2001	178,994	196,407	216,329	195,182	161,640	219,224	189,670	207,014	213,073	227,038	202,46
										Sou	rce: NPDB, CI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-3: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

#### Internal Medicine

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	234,770	250,199	226,262	281,746	188,827	327,183	196,195	286,770	243,906	278,698	268,202
2000/2001	244,479	255,365	222,791	281,900	193,359	341,928	209,585	281,830	246,142	288,614	276,955
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	192,478	234,556	235,891	215,129	174,227	267,994	192,779	244,202	226,589	269,019	232,479
2000/2001	195,779	236,865	238,233	216,797	184,342	273,301	204,496	247,036	230,237	278,807	240,482
										Sou	rce: NPDB, CIHI

Table 4-4: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

## Neurology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	* *	n/a	206,191	245,406	175,881	252,815	186,775	234,498	163,325	255,164	216,725
2000/2001	111,668	n/a	256,250	236,312	176,085	258,295	197,135	242,302	172,975	246,583	219,167
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	138,231	* *	198,898	165,920	141,826	213,030	161,037	165,912	179,259	247,976	184,640
2000/2001	* *	* *	218,218	162,447	157,315	213,074	175,586	164,463	185,888	248,305	192,015
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

#### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-5: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Psychiatry** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	219,426	* *	146,660	200,501	122,271	180,450	136,925	201,873	182,498	159,596	165,513
2000/2001	200,580	* *	146,240	181,727	120,678	180,885	143,357	205,794	188,044	162,373	169,766
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	143,013	* *	149,708	166,208	100,628	157,141	133,925	152,846	162,560	174,672	144,685
2000/2001	138,731	* *	153,245	160,984	99,260	157,433	139,467	157,337	165,016	178,600	147,256
										Sou	ırce: NPDB, CIHI

Table 4-6: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

### **Pediatrics**

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	137,866	* *	179,532	215,131	157,113	231,551	162,677	155,413	178,691	188,319	195,868
2000/2001	158,823	* *	165,048	215,397	158,294	231,559	176,604	160,621	184,745	196,235	200,954
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	114,297	* *	194,673	178,223	132,808	181,775	135,962	161,270	176,412	206,834	166,418
2000/2001	125,004	* *	190,320	178,364	136,286	182,487	149,754	164,817	178,771	215,807	170,076
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

#### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-7: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Dermatology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	* *	* *	311,322	257,142	214,669	291,733	190,072	* *	369,364	291,135	276,259
2000/2001	206,038	* *	343,528	227,763	215,944	294,237	198,496	* *	371,490	293,003	275,952
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	* *	* *	464,030	* *	215,510	286,973	237,467	* *	337,446	336,245	271,806
2000/2001	* *	* *	478,726	* *	231,866	289,028	244,099	* *	340,118	343,520	281,155
										Sou	rce: NPDB, CIHI

Table 4-8: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Physical Medicine** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	n/a	n/a	155,220	* *	201,070	196,039	100,788	* *	125,008	156,047	181,954
2000/2001	n/a	n/a	157,187	* *	203,751	194,621	141,933	* *	123,381	154,797	180,827
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	* *	* *	* *	* *	132,226	155,930	99,018	* *	180,043	206,155	151,290
2000/2001	n/a	* *	* *	* *	137,921	155,217	123,134	* *	184,123	220,114	155,391
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

#### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-9: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

### Anesthesia

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	205,894	172,428	199,294	197,442	191,433	231,076	224,153	200,190	231,506	213,280	218,907
2000/2001	229,970	172,835	206,201	187,822	183,756	236,107	244,151	199,147	232,210	213,173	222,851
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	194,878	167,968	208,673	186,063	178,001	212,942	259,801	201,848	259,638	192,383	205,366
2000/2001	204,991	171,382	216,412	183,979	188,663	214,264	266,633	199,656	263,877	193,085	210,170
										Sou	rce: NPDB, CIHI

Table 4-10: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Surgical Specialties** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	288,889	300,680	310,113	282,700	221,729	320,959	264,749	327,421	333,104	296,313	293,277
2000/2001	294,108	302,279	331,365	287,187	225,596	331,213	290,392	332,721	344,744	304,142	303,377
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	259,913	286,758	321,537	285,466	214,815	289,484	280,073	281,807	331,934	336,360	278,650
2000/2001	269,200	292,321	330,527	286,447	229,537	292,785	295,063	281,180	348,857	343,306	287,580
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-11: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**General Surgery** 

	Nfld.	P.E.I.^	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	243,965	315,943	295,164	272,023	207,914	302,404	254,823	269,048	289,654	281,356	273,242
2000/2001	242,210	321,493	318,908	261,085	207,964	312,130	261,425	279,810	300,263	281,126	280,128
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	207,790	266,618	285,185	258,199	198,885	268,098	254,241	256,667	290,725	304,562	254,472
2000/2001	211,601	268,806	294,156	257,468	212,059	271,371	262,419	261,158	310,578	303,768	261,738
										Sou	rce: NPDB, CIHI

Table 4-12: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Thoracic/Cardiovascular Surgery

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	* *	n/a	389,417	336,492	255,513	431,893	290,276	482,136	619,431	331,389	351,391
2000/2001	* *	n/a	386,325	342,135	265,592	471,014	318,613	457,086	587,023	351,820	365,930
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	* *	n/a	348,809	400,253	223,764	478,422	353,463	368,395	511,280	428,452	351,185
2000/2001	* *	n/a	360,050	405,620	231,113	486,656	367,581	349,922	527,793	427,484	363,396
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

n/a = Not Applicable - There were no physicians for this specialty for this province.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality.

<sup>^</sup> PEI plastic surgeons are included with general surgeons.

Table 4-13: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Urology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	345,425	* *	309,396	275,791	221,755	323,004	225,167	290,014	302,139	337,725	295,974
2000/2001	337,594	* *	319,597	291,423	225,715	330,281	260,810	327,679	323,666	334,161	305,271
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	305,686	* *	328,748	294,956	224,322	297,378	289,251	284,344	328,616	351,448	289,141
2000/2001	314,249	* *	341,541	299,992	244,890	300,314	306,344	300,839	337,396	353,750	298,436
										Sou	rce: NPDB, CIHI

Table 4-14: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Orthopedic Surgery** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	210,118	* *	353,690	257,996	218,837	300,043	251,001	320,352	270,626	247,320	268,413
2000/2001	221,942	* *	346,489	267,003	227,319	309,027	280,382	320,554	283,751	248,927	278,729
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	241,725	* *	324,124	267,169	203,297	287,186	261,148	262,417	302,173	295,884	263,378
2000/2001	245,526	* *	330,199	268,168	222,099	290,407	278,913	263,416	327,354	298,865	274,382
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-15: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Plastic Surgery** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	* *	^	277,419	242,089	174,877	264,775	343,873	242,626	292,956	213,509	239,522
2000/2001	* *	^	331,947	241,424	183,579	260,700	367,500	261,635	310,855	228,965	252,380
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	* *	^	293,098	257,354	170,308	242,565	270,779	237,848	298,563	257,173	234,379
2000/2001	* *	^	306,072	256,624	193,385	242,165	283,522	235,802	323,201	259,243	244,617
										Sou	rce: NPDB, CIHI

Table 4-16: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Neurosurgery

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	eceived										
at least \$60,000 in payments											
1999/2000	* *	n/a	n/a	* *	177,070	312,746	162,952	* *	326,566	328,838	276,147
2000/2001	* *	n/a	* *	* *	147,661	325,418	* *	* *	281,788	347,983	272,586
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	* *	n/a	* *	* *	175,328	274,279	* *	* *	301,794	335,381	253,203
2000/2001	* *	n/a	* *	* *	163,047	279,222	* *	* *	291,603	347,026	255,402
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

n/a = Not Applicable - There were no physicians for this specialty for this province.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality.

<sup>^</sup> PEI plastic surgeons are included with general surgeons.

Table 4-17: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Ophthalmology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	333,214	* *	377,977	355,032	244,972	383,233	364,918	505,510	448,063	396,224	364,433
2000/2001	349,070	* *	386,653	373,651	257,506	399,908	399,723	506,348	481,734	417,991	381,708
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	348,771	* *	361,192	328,197	235,090	333,640	396,104	338,898	403,170	405,937	328,457
2000/2001	363,310	* *	373,084	335,886	243,277	338,560	408,730	338,640	425,945	416,038	336,747
										Sou	rce: NPDB, CIHI

Table 4-18: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Otolaryngology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	459,517	* *	230,264	306,158	241,715	363,719	195,501	436,459	430,294	276,136	317,532
2000/2001	407,155	* *	290,168	288,505	244,267	364,037	202,505	365,250	451,193	279,030	321,928
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	335,358	* *	368,294	300,346	244,075	332,349	270,377	308,925	379,151	330,794	306,221
2000/2001	331,324	* *	383,267	293,894	260,308	333,318	292,726	292,296	391,548	333,939	313,890
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-19: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

Obstetrics/Gynecology

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	274,417	265,457	251,991	257,262	225,515	306,224	251,564	280,436	300,979	261,150	278,617
2000/2001	262,714	261,686	277,355	265,741	225,380	321,095	296,686	282,212	306,615	263,348	289,188
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	234,365	* *	299,515	263,516	227,099	273,547	253,477	267,017	310,291	337,947	269,931
2000/2001	234,875	* *	308,208	264,204	243,324	277,342	269,570	266,005	318,293	344,091	277,998
										Sou	rce: NPDB, CIHI

Table 4-20: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Total Specialties** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	eceived										
at least \$60,000 in payments											
1999/2000	243,932	259,987	253,088	259,722	190,576	277,421	212,934	272,741	255,894	248,766	248,368
2000/2001	248,493	253,975	263,366	258,311	195,011	285,488	229,227	274,075	262,189	253,905	256,352
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	206,287	241,657	264,044	235,466	172,432	239,470	213,606	238,742	249,791	260,987	223,656
2000/2001	212,534	242,000	271,831	235,907	183,720	242,719	224,286	239,102	256,784	266,622	230,860
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

Table 4-21: Average Payment per Physician by Category of Payment, Canada and the Provinces, 1999/2000 and 2000/2001

**Total Physicians** 

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Fee-for-service Physicians who re	ceived										
at least \$60,000 in payments											
1999/2000	203,708	212,603	204,888	208,357	170,255	237,449	189,424	231,766	216,724	209,105	214,327
2000/2001	205,663	213,893	210,422	206,278	174,119	242,795	206,786	226,427	220,655	212,021	219,368
Full-time Equivalent											
Fee-for-service Physicians											
1999/2000	161,093	185,289	210,650	193,758	155,677	205,560	173,740	193,271	208,856	220,674	193,287
2000/2001	167,448	187,774	216,636	193,454	163,248	207,876	184,655	191,330	214,046	224,429	197,885
										Sou	rce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

### Notes

Please refer to tables 1-1 through 2-2 for detailed notes by year, province and series.

Based on gross payments.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. n/a = Not Applicable - There were no physicians for this specialty for this province.

# Appendix A Net Population Estimates

Table A1. Statistics Canada Net Population Estimates for Canada, by Provinces, 1999 to 2000

Year	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
1999 (	PP) 540.0	138.5	932.5	750.7	7,337.9	11,534.7	1,140.6	1,024.6	2,962.7	4,025.2	30,387.4
2000 (	PR) 536.2	138.2	934.1	750.5	7,377.4	11,732.3	1,142.9	1,018.4	3,011.5	4,058.7	30,700.2

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

**Notes** Net population estimates are produced by excluding from total estimates the members of the Royal Canadian Mounted Police, the Canadian Armed Forces personnel and the number of inmates in Federal and Provincial institutions.

PR = Updated postcensal estimates.

PP = Preliminary postcensal estimates.

The estimates are based on 1996 census counts, adjusted for net census undercoverage

These figures have been rounded independently to the nearest hundred.

# Appendix B NPDB Authorization Officers

# **NPDB** Authorization Officers

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# Appendix C NPDB Specialty Categories

# **NPDB Physician Specialty Categories**

Family Medicine

01

### 010 Residency 011 **General Practice** 012 **Family Practice** 013 Community Medicine/Public Health 014 **Emergency Medicine Medical Specialists** 02 Internal Medicine 020 General Internal Medicine 021 Cardiology 022 Gastroenterology 023 Respiratory Medicine 024 Endocrinology 025 Nephrology 026 Hematology 027 Rheumatology 028 Clinical Immunology and Allergy 030 Oncology 031 Geriatrics 032 **Tropical Medicine** 035 Genetics 1 04 Neurology 040 Neurology & EEG 041 Neurology 042 **EEG** 05 **Psychiatry** 050 Psychiatry & Neuropsychiatry 051 **Psychiatry** 052 Neuropsychiatry 06 **Pediatrics** 060 **Pediatrics** 07 Dermatology 065 Dermatology 80 Physical Medicine/Rehabilitation 070 Physical Medicine & Rehabilitation 071 Electromiography 09 Anesthesia

075

Anesthesia

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# **Surgical Specialists**

## 10 **General Surgery**

080 General Surgery

# 11 Thoracic/Cardiovascular Surgery

086 Thoracic Surgery

087 Cardiovascular Surgery

088 Cardiovascular/Thoracic Surgery

## 12 *Urology*

090 Urology

# 13 Orthopedic Surgery

095 Orthopedic Surgery

# 14 Plastic Surgery

100 Plastic Surgery

# 15 **Neurosurgery**

110 Neurosurgery

# 16 *Ophthalmology*

- 115 Ophthalmology
- 116 Ophthalmology/Otolaryngology

# 17 *Otolaryngology*

120 Otolaryngology

# 18 Obstetrics/Gynecology

- 126 Obstetrics
- 127 Gynecology
- 128 Obstetrics/Gynecology

**Note:** Although Genetics is no longer a sub-specialty of Internal Medicine it is included in the Internal Medicine category because the number of physician records assigned this specialty is relatively small. The previous version of this publication reported the figures as a separate specialty within the Medical Specialists broad specialty category.

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# Appendix D

Fee-for-service Radiology and Laboratory Coverage in NPDB

# Fee-for-service Radiology and Laboratory Coverage in NPDB

Radiology and laboratory services supplied to CIHI for use in NPDB are not uniform or complete. For this reason the data are not routinely used in the NPDB publications. The following notes were provided by the provincial medical insurance plans regarding the radiology and laboratory services included on the NPDB file submissions.

### Newfoundland

- No laboratory services data are supplied to NDPB as these services are paid through the hospital funding.
- Physicians can be paid on a fee-for-service basis for interpretation services on certain diagnostic services such as EEG, ECGs, etc. These services would be included in the NPDB file submissions.

### **Prince Edward Island**

- No laboratory services data are supplied to NDPB as these services are paid through the hospital funding.
- Radiologists interpretation fees are included in the NPDB file submissions.

### **Nova Scotia**

- No laboratory services data are supplied to NDPB as these services are paid through the hospital funding.
- The majority of radiology billings are not included in NPDB file submissions. For Nova Scotia, the majority of radiology billings are not included in fee-for-service earnings.

### **New Brunswick**

- No laboratory services data are supplied to NDPB as these services are paid through the hospital funding.
- All radiology services are excluded in the NPDB file submissions.

## Quebec

- No laboratory services are included.
- Radiology services provided by physicians in private practice are included in the NPDB file submissions.

### Ontario

- Approximately 50 percent of all laboratory services are funded through OHIP and therefore are included in the NPDB file submissions. The remaining 50 percent are funded via Public Health (1 percent) and Hospital global budgets (49 percent).
- Information on Radiology services was not available.

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### Manitoba

- Laboratory services provided in the NPDB file submissions are those provided by privately owned fee-for-service laboratories. Laboratory services provided in urban/rural facilities are not included in the NPDB file submissions.
- Radiology services submitted include all private radiology services and all urban facility radiology services. Rural facility radiology services, approximately 11 percent of the total dollar value for radiology services, are not included in NPDB file submissions.

# Saskatchewan

- Since 1993/1994, the only laboratory services included in the NPDB file submissions are common in-office laboratory services provided by physicians other than pathologists. Responsibility for private laboratory services provided by specialists in pathology was transferred to District Health Boards in October 1993 and no longer funded on a fee-for-service basis.
- Facility-based radiology services which are funded through District Health Boards are excluded from the NPDB file submissions, as well as radiology services provided through the Screening Program for Breast Cancer.

## **Alberta**

- Up to July 1, 1995 only non-hospital based laboratory services were included.
- Only non-facility based radiology services are included in NPDB file submissions.

### **British Columbia**

■ Laboratory and radiology services when performed on a fee-for-service outpatient basis are included in NPDB File Submissions, but inpatient services are not included.

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Appendix E

**Physician Counts** 

Table E1: Fee-for-service Physician Counts of Physicians Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	314	83	615	459	4,858	8,445	599	631	2,199	3,541	21,797
Medical Specialties	129	25	232	181	3,187	4,958	390	226	1,016	1,466	11,845
Internal Medicine	61	12	68	70	1,365	1,869	129	89	342	453	4,481
Neurology	* *	n/a	6	10	153	160	12	11	43	64	465
Psychiatry	17	* *	47	21	596	1,356	86	28	233	396	2,789
Pediatrics	16	* *	22	20	385	575	56	33	150	158	1,425
Dermatology	* *	* *	11	7	170	157	9	* *	33	54	446
Physical Medicine	n/a	n/a	6	* *	56	101	8	* *	17	24	219
Anesthesia	26	6	72	50	462	740	90	59	198	317	2,020
Surgical Specialties	85	27	220	180	1,706	2,505	230	174	519	885	6,532
General Surgery	23	10	50	33	400	630	50	50	118	190	1,557
Thoracic/Cardiovascular Surgery	* *	n/a	13	12	60	27	17	8	16	32	190
Urology	7	* *	20	18	125	189	18	15	35	69	498
Orthopedic Surgery	13	* *	21	28	249	331	32	21	83	133	917
Plastic Surgery	* *	* *	11	13	86	129	11	14	33	56	354
Neurosurgery	* *	n/a	n/a	* *	46	56	6	* *	17	28	161
Ophthalmology	11	* *	45	26	253	371	28	22	78	158	992
Otolaryngology	7	* *	18	14	159	195	17	9	29	68	517
Obstetrics/Gynecology	16	6	42	32	328	577	51	33	110	151	1,346
Total Specialties	214	52	452	361	4,893	7,463	620	400	1,535	2,351	18,377
Total Physicians	528	135	1,067	820	9,751	15,908	1,219	1,031	3,734	5,892	40,174
										S	ource: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table E2: Fee-for-service Physician Counts of Physicians Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	289	83	609	463	4,981	8,434	623	668	2,300	3,546	22,084
ranny Medicine	209	03	609	403	4,501	0,434	023	000	2,300	3,540	22,064
Medical Specialties	140	27	234	182	3,013	5,011	421	237	1,056	1,485	11,833
Internal Medicine	61	12	72	71	1,364	1,907	147	96	356	465	4,574
Neurology	6	n/a	6	10	152	157	14	12	43	65	465
Psychiatry	20	* *	47	20	438	1,352	89	30	237	398	2,636
Pediatrics	16	* *	21	20	360	583	62	33	157	158	1,421
Dermatology	6	* *	11	7	172	152	9	* *	34	54	449
Physical Medicine	n/a	n/a	6	* *	53	105	9	* *	19	28	229
Anesthesia	31	8	71	51	474	755	91	59	210	317	2,059
Surgical Specialties	94	27	211	175	1,706	2,515	228	173	539	865	6,539
General Surgery	22	10	47	34	400	630	52	47	124	164	1,535
Thoracic/Cardiovascular Surgery	* *	n/a	13	11	61	26	17	8	18	49	209
Urology	7	* *	20	17	128	194	17	13	34	67	499
Orthopedic Surgery	16	* *	23	27	246	341	32	24	88	134	935
Plastic Surgery	* *	* *	10	13	82	129	10	13	34	50	343
Neurosurgery	* *	n/a	* *	* *	43	55	* *	* *	18	26	157
Ophthalmology	12	* *	46	25	253	361	28	22	79	153	979
Otolaryngology	9	* *	11	14	159	201	19	10	29	69	521
Obstetrics/Gynecology	18	6	40	31	334	578	48	33	115	153	1,361
Total Specialties	234	54	445	357	4,719	7,526	649	410	1,595	2,350	18,372
Total Physicians	523	137	1,054	820	9,700	15,960	1,272	1,078	3,895	5,896	40,456
										s	 ource: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

\*\* Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality.

PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table E3: Full-time Equivalent Fee-for-service Physician Counts by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	431.29	104.71	627.62	501.39	5,499.93	9,977.99	749.56	810.26	2,363.04	3,432.97	24,498.76
Medical Specialties	163.12	29.93	228.29	226.83	3,801.63	5,983.94	427.11	261.68	1,081.83	1,493.78	13,698.14
Internal Medicine	75.29	13.18	67.50	93.78	1,520.30	2,315.51	144.76	107.23	380.46	477.24	5,195.25
Neurology	6.42	* *	6.22	15.01	196.06	192.99	14.69	15.75	41.70	67.77	556.98
Psychiatry	26.82	* *	50.98	28.48	828.54	1,616.29	96.96	39.42	268.39	375.07	3,336.11
Pediatrics	22.57	* *	21.04	25.62	489.68	756.13	76.16	32.91	163.61	150.67	1,742.11
Dermatology	* *	* *	7.38	* *	170.44	161.73	7.42	* *	36.29	47.37	444.97
Physical Medicine	* *	* *	* *	* *	87.97	129.95	9.09	* *	12.74	20.37	272.58
Anesthesia	28.01	6.66	70.51	53.85	508.64	811.34	78.03	59.17	178.64	355.29	2,150.14
Surgical Specialties	95.91	28.36	213.75	181.49	1,782.07	2,808.19	220.95	204.18	525.12	789.50	6,849.52
General Surgery	27.61	11.85	52.26	35.68	426.91	722.61	51.61	53.28	119.42	176.83	1,678.06
Thoracic/Cardiovascular Surgery	* *	n/a	14.59	10.09	68.64	24.40	14.03	10.47	19.43	24.81	190.17
Urology	7.91	* *	18.83	17.03	124.16	206.80	14.35	15.30	32.18	66.73	505.01
Orthopedic Surgery	11.49	* *	23.13	27.34	270.76	351.07	31.06	25.77	75.37	113.71	933.43
Plastic Surgery	* *	* *	10.42	12.34	90.77	142.48	14.10	14.48	32.40	47.42	365.99
Neurosurgery	* *	n/a	* *	* *	48.05	64.85	* *	* *	18.40	27.55	176.64
Ophthalmology	10.64	* *	47.29	28.29	265.02	427.68	25.93	32.99	87.01	155.90	1,084.36
Otolaryngology	9.66	* *	11.38	14.38	158.85	214.97	12.96	12.73	33.02	57.51	527.18
Obstetrics/Gynecology	18.97	* *	35.72	32.70	328.91	653.33	51.16	35.23	107.89	119.04	1,388.68
Total Specialties	259.03	58.29	442.04	408.32	5,583.70	8,792.13	648.06	465.86	1,606.95	2,283.28	20,547.66
Total Physicians	690.32	163.00	1,069.66	909.71	11,083.63	18,770.12	1,397.62	1,276.12	3,969.99	5,716.25	45,046.42
										S	ource: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table E4: Full-time Equivalent Fee-for-service Physician Counts by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	382.89	102.87	618.10	502.36	5,582.18	10,056.66	793.89	836.54	2,452.49	3,434.38	24,762.36
Medical Specialties	175.15	30.97	227.37	221.60	3,529.70	6,126.54	464.10	271.04	1,129.15	1,504.54	13,680.16
Internal Medicine	77.53	13.10	68.77	94.49	1,481.74	2,421.85	162.96	111.80	392.53	489.48	5,314.25
Neurology	* *	* *	7.24	14.76	177.00	194.02	15.93	18.16	43.51	66.00	542.74
Psychiatry	30.09	* *	49.36	25.59	697.40	1,614.63	102.96	40.88	279.04	378.23	3,223.45
Pediatrics	22.62	* *	19.24	25.40	456.47	762.70	78.96	33.48	175.85	150.13	1,727.85
Dermatology	* *	* *	8.00	* *	161.52	156.12	7.62	* *	37.21	46.38	430.98
Physical Medicine	n/a	* *	* *	* *	81.84	136.09	11.49	* *	13.20	21.09	275.57
Anesthesia	35.02	8.34	70.35	52.38	473.73	841.13	84.18	59.15	187.81	353.23	2,165.32
Surgical Specialties	103.67	28.06	215.00	178.56	1,701.00	2,875.06	226.99	206.69	536.06	776.65	6,847.74
General Surgery	25.75	11.96	52.12	35.56	399.60	734.77	52.74	51.04	121.68	154.48	1,639.70
Thoracic/Cardiovascular Surgery	* *	n/a	13.95	9.39	71.06	25.25	14.75	10.45	20.02	40.67	210.70
Urology	7.52	* *	18.82	16.66	118.93	214.82	14.61	14.16	32.74	63.38	503.93
Orthopedic Surgery	14.71	* *	24.73	27.16	256.84	367.03	32.30	29.34	76.63	113.66	946.28
Plastic Surgery	* *	* *	11.01	12.23	81.03	140.96	13.00	14.80	32.90	45.70	354.49
Neurosurgery	* *	n/a	* *	* *	41.23	64.96	* *	* *	17.42	26.34	169.87
Ophthalmology	11.57	* *	47.91	27.83	270.00	428.48	27.57	33.05	89.70	154.93	1,094.27
Otolaryngology	11.12	* *	8.74	13.95	149.81	221.13	13.50	12.50	33.53	58.20	523.48
Obstetrics/Gynecology	20.24	* *	36.87	32.21	312.50	677.66	53.64	35.47	111.44	119.29	1,405.02
Total Specialties	278.82	59.03	442.37	400.16	5,230.70	9,001.60	691.09	477.73	1,665.21	2,281.19	20,527.90
Total Physicians	661.71	161.90	1,060.47	902.52	10,812.88	19,058.26	1,484.98	1,314.27	4,117.70	5,715.57	45,290.26
										So	ource: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

# Appendix F Population Per Physician

Table F1: Population per Fee-for-service Physician Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	1,720	1,669	1,516	1,636	1,510	1,366	1,904	1,624	1,347	1,137	1,394
Medical Specialties	4,186	5,540	4,019	4,148	2,302	2,326	2,925	4,534	2,916	2,746	2,565
Internal Medicine	8,852	11,542	13,713	10,724	5,376	6,172	8,842	11,512	8,663	8,886	6,781
Neurology	* *	n/a	155,417	75,070	47,960	72,092	95,050	93,145	68,900	62,894	65,349
Psychiatry	31,765	* *	19,840	35,748	12,312	8,506	13,263	36,593	12,715	10,165	10,895
Pediatrics	33,750	* *	42,386	37,535	19,059	20,060	20,368	31,048	19,751	25,476	21,324
Dermatology	* *	* *	84,773	107,243	43,164	73,469	126,733	* *	89,779	74,541	68,133
Physical Medicine	n/a	n/a	155,417	* *	131,034	114,205	142,575	* *	174,276	167,717	138,755
Anesthesia	20,769	23,083	12,951	15,014	15,883	15,587	12,673	17,366	14,963	12,698	15,043
Surgical Specialties	6,353	5,130	4,239	4,171	4,301	4,605	4,959	5,889	5,708	4,548	4,652
General Surgery	23,478	13,850	18,650	22,748	18,345	18,309	22,812	20,492	25,108	21,185	19,517
Thoracic/Cardiovascular Surgery	* *	n/a	71,731	62,558	122,298	427,211	67,094	128,075	185,169	125,788	159,934
Urology	77,143	* *	46,625	41,706	58,703	61,030	63,367	68,307	84,649	58,336	61,019
Orthopedic Surgery	41,538	* *	44,405	26,811	29,469	34,848	35,644	48,790	35,695	30,265	33,138
Plastic Surgery	* *	* *	84,773	57,746	85,324	89,416	103,691	73,186	89,779	71,879	85,840
Neurosurgery	* *	n/a	n/a	* *	159,520	205,977	190,100	* *	174,276	143,757	188,742
Ophthalmology	49,091	* *	20,722	28,873	29,004	31,091	40,736	46,573	37,983	25,476	30,632
Otolaryngology	77,143	* *	51,806	53,621	46,150	59,152	67,094	113,844	102,162	59,194	58,776
Obstetrics/Gynecology	33,750	23,083	22,202	23,459	22,372	19,991	22,365	31,048	26,934	26,657	22,576
Total Specialties	2,523	2,663	2,063	2,080	1,500	1,546	1,840	2,562	1,930	1,712	1,654
Total Physicians	1,023	1,026	874	915	753	725	936	994	793	683	756
										So	urce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table F2: Population per Fee-for-service Physician Who Received at Least \$60,000 in Payments by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	1,855	1,665	1,534	1,621	1,481	1,391	1,835	1,525	1,309	1,145	1,390
Medical Specialties	3,830	5,119	3,992	4,124	2,449	2,341	2,715	4,297	2,852	2,733	2,594
Internal Medicine	8,790	11,517	12,974	10,570	5,409	6,152	7,775	10,608	8,459	8,728	6,712
Neurology	89,367	n/a	155,683	75,050	48,536	74,728	81,636	84,867	70,035	62,442	66,022
Psychiatry	26,810	* *	19,874	37,525	16,843	8,678	12,842	33,947	12,707	10,198	11,647
Pediatrics	33,513	* *	44,481	37,525	20,493	20,124	18,434	30,861	19,182	25,688	21,605
Dermatology	89,367	* *	84,918	107,214	42,892	77,186	126,989	* *	88,574	75,161	68,375
Physical Medicine	n/a	n/a	155,683	* *	139,196	111,736	126,989	* *	158,500	144,954	134,062
Anesthesia	17,297	17,275	13,156	14,716	15,564	15,539	12,559	17,261	14,340	12,803	14,910
Surgical Specialties	5,704	5,119	4,427	4,289	4,324	4,665	5,013	5,887	5,587	4,692	4,695
General Surgery	24,373	13,820	19,874	22,074	18,444	18,623	21,979	21,668	24,286	24,748	20,000
Thoracic/Cardiovascular Surgery	* *	n/a	71,854	68,227	120,941	451,242	67,229	127,300	167,306	82,831	146,891
Urology	76,600	* *	46,705	44,147	57,636	60,476	67,229	78,338	88,574	60,578	61,523
Orthopedic Surgery	33,513	* *	40,613	27,796	29,989	34,406	35,716	42,433	34,222	30,289	32,834
Plastic Surgery	* *	* *	93,410	57,731	89,968	90,948	114,290	78,338	88,574	81,174	89,505
Neurosurgery	* *	n/a	* *	* *	171,567	213,315	* *	* *	167,306	156,104	195,543
Ophthalmology	44,683	* *	20,307	30,020	29,160	32,499	40,818	46,291	38,120	26,527	31,359
Otolaryngology	59,578	* *	84,918	53,607	46,399	58,370	60,153	101,840	103,845	58,822	58,926
Obstetrics/Gynecology	29,789	23,033	23,353	24,210	22,088	20,298	23,810	30,861	26,187	26,527	22,557
Specialists	2,291	2,559	2,099	2,102	1,563	1,559	1,761	2,484	1,888	1,727	1,671
Total Physicians	1,025	1,009	886	915	761	735	899	945	773	688	759
										So	urce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals including the Yukon and excluding the Northwest Territories.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table F3: Population per Full-time Equivalent Fee-for-service Physician by Type of Practice, by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	1,252	1,323	1,486	1,497	1,334	1,156	1,522	1,265	1,254	1,173	1,240
Medical Specialties	3,310	4,627	4,085	3,310	1,930	1,928	2,671	3,915	2,739	2,695	2,218
Internal Medicine	7,172	10,508	13,815	8,005	4,827	4,981	7,879	9,555	7,787	8,434	5,849
Neurology	84,112	* *	149,920	50,013	37,427	59,768	77,645	65,054	71,048	59,395	54,557
Psychiatry	20,134	* *	18,291	26,359	8,856	7,137	11,764	25,992	11,039	10,732	9,109
Pediatrics	23,926	* *	44,320	29,301	14,985	15,255	14,976	31,133	18,108	26,715	17,443
Dermatology	* *	* *	126,355	* *	43,053	71,321	153,720	* *	81,640	84,974	68,291
Physical Medicine	* *	* *	* *	* *	83,414	88,763	125,479	* *	232,551	197,604	111,481
Anesthesia	19,279	20,796	13,225	13,941	14,427	14,217	14,617	17,316	16,585	11,329	14,133
Surgical Specialties	5,630	4,884	4,363	4,136	4,118	4,108	5,162	5,018	5,642	5,098	4,436
General Surgery	19,558	11,688	17,843	21,040	17,188	15,963	22,100	19,230	24,809	22,763	18,109
Thoracic/Cardiovascular Surgery	* *	n/a	63,914	74,400	106,904	472,734	81,297	97,861	152,481	162,241	159,791
Urology	68,268	* *	49,522	44,081	59,100	55,777	79,484	66,967	92,067	60,321	60,172
Orthopedic Surgery	46,997	* *	40,316	27,458	27,101	32,856	36,722	39,759	39,309	35,399	32,555
Plastic Surgery	* *	* *	89,491	60,835	80,841	80,957	80,894	70,760	91,441	84,884	83,028
Neurosurgery	* *	n/a	* *	* *	152,714	177,867	* *	* *	161,016	146,105	172,030
Ophthalmology	50,752	* *	19,719	26,536	27,688	26,970	43,988	31,058	34,050	25,819	28,023
Otolaryngology	55,901	* *	81,942	52,204	46,194	53,657	88,009	80,487	89,724	69,991	57,641
Obstetrics/Gynecology	28,466	* *	26,106	22,957	22,310	17,655	22,295	29,083	27,460	33,814	21,882
Total Specialties	2,085	2,376	2,110	1,839	1,314	1,312	1,760	2,199	1,844	1,763	1,479
Total Physicians	782	850	872	825	662	615	816	803	746	704	675

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

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<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table F4: Population per Full-time Equivalent Fee-for-service Physician by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	1,400	1,343	1,511	1,494	1,322	1,167	1,440	1,217	1,228	1,182	1,240
Medical Specialties	3,061	4,462	4,108	3,387	2,090	1,915	2,463	3,757	2,667	2,698	2,244
Internal Medicine	6,916	10,550	13,583	7,943	4,979	4,844	7,013	9,109	7,672	8,292	5,777
Neurology	* *	* *	129,019	50,847	41,680	60,470	71,745	56,079	69,214	61,495	56,565
Psychiatry	17,820	* *	18,924	29,328	10,578	7,266	11,100	24,912	10,792	10,731	9,524
Pediatrics	23,705	* *	48,550	29,547	16,162	15,383	14,474	30,418	17,125	27,035	17,768
Dermatology	* *	* *	116,763	* *	45,675	75,149	149,987	* *	80,933	87,510	71,233
Physical Medicine	n/a	* *	* *	* *	90,144	86,210	99,469	* *	228,144	192,447	111,406
Anesthesia	15,311	16,571	13,278	14,328	15,573	13,948	13,577	17,217	16,035	11,490	14,178
Surgical Specialties	5,172	4,925	4,345	4,203	4,337	4,081	5,035	4,927	5,618	5,226	4,483
General Surgery	20,823	11,555	17,922	21,105	18,462	15,967	21,670	19,953	24,749	26,273	18,723
Thoracic/Cardiovascular Surgery	* *	n/a	66,961	79,925	103,819	464,646	77,485	97,455	150,425	99,796	145,706
Urology	71,303	* *	49,633	45,048	62,031	54,615	78,227	71,921	91,982	64,038	60,922
Orthopedic Surgery	36,451	* *	37,772	27,633	28,724	31,966	35,384	34,710	39,299	35,709	32,443
Plastic Surgery	* *	* *	84,841	61,365	91,045	83,231	87,915	68,811	91,535	88,812	86,604
Neurosurgery	* *	n/a	* *	* *	178,933	180,608	* *	* *	172,876	154,089	180,728
Ophthalmology	46,344	* *	19,497	26,967	27,324	27,381	41,454	30,814	33,573	26,197	28,055
Otolaryngology	48,219	* *	106,876	53,799	49,245	53,056	84,659	81,472	89,815	69,737	58,646
Obstetrics/Gynecology	26,492	* *	25,335	23,300	23,608	17,313	21,307	28,712	27,024	34,024	21,850
Total Specialties	1,923	2,341	2,112	1,875	1,410	1,303	1,654	2,132	1,808	1,779	1,496
Total Physicians	810	854	881	832	682	616	770	775	731	710	678
										So	urce: NPDB, CIH

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

# Appendix G

Physicians Per 100,000 Population

Table G1: Fee-for-service Physicians Who Received at Least \$60,000 in Payments per 100,000 Population by Type of Practice, Canada and the Provinces, 1999/2000

by Type of Traduction, e	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	58	60	66	61	66	73	53	62	74	88	72
Medical Specialties	24	18	25	24	43	43	34	22	34	36	39
Internal Medicine	11	9	7	9	19	16	11	9	12	11	15
Neurology	* *	n/a	1	1	2	1	1	1	1	2	2
Psychiatry	3	* *	5	3	8	12	8	3	8	10	9
Pediatrics	3	* *	2	3	5	5	5	3	5	4	5
Dermatology	* *	* *	1	1	2	1	1	* *	1	1	1
Physical Medicine	n/a	n/a	1	* *	1	1	1	* *	1	1	1
Anesthesia	5	4	8	7	6	6	8	6	7	8	7
Surgical Specialties	16	19	24	24	23	22	20	17	18	22	21
General Surgery	4	7	5	4	5	5	4	5	4	5	5
Thoracic/Cardiovascular Surgery	* *	n/a	1	2	1	0	1	1	1	1	1
Urology	1	* *	2	2	2	2	2	1	1	2	2
Orthopedic Surgery	2	* *	2	4	3	3	3	2	3	3	3
Plastic Surgery	* *	* *	1	2	1	1	1	1	1	1	1
Neurosurgery	* *	n/a	n/a	* *	1	0	1	* *	1	1	1
Ophthalmology	2	* *	5	3	3	3	2	2	3	4	3
Otolaryngology	1	* *	2	2	2	2	1	1	1	2	2
Obstetrics/Gynecology	3	4	5	4	4	5	4	3	4	4	4
Total Specialties	40	38	48	48	67	65	54	39	52	58	60
Total Physicians	98	97	114	109	133	138	107	101	126	146	132
										So	urce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table G2: Fee-for-service Physicians Who Received at Least \$60,000 in Payments per 100,000 Population by Type of Practice, Canada and the Provinces, 2000/2001

Бу Турс от Паонос, с	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	54	60	65	62	68	72	55	66	76	87	72
Medical Specialties	26	20	25	24	41	43	37	23	35	37	39
Internal Medicine	11	9	8	9	18	16	13	9	12	11	15
Neurology	1	n/a	1	1	2	1	1	1	1	2	2
Psychiatry	4	* *	5	3	6	12	8	3	8	10	9
Pediatrics	3	* *	2	3	5	5	5	3	5	4	5
Dermatology	1	* *	1	1	2	1	1	* *	1	1	1
Physical Medicine	n/a	n/a	1	* *	1	1	1	* *	1	1	1
Anesthesia	6	6	8	7	6	6	8	6	7	8	7
Surgical Specialties	18	20	23	23	23	21	20	17	18	21	21
General Surgery	4	7	5	5	5	5	5	5	4	4	5
Thoracic/Cardiovascular Surgery	* *	n/a	1	1	1	0	1	1	1	1	1
Urology	1	* *	2	2	2	2	1	1	1	2	2
Orthopedic Surgery	3	* *	2	4	3	3	3	2	3	3	3
Plastic Surgery	* *	* *	1	2	1	1	1	1	1	1	1
Neurosurgery	* *	n/a	* *	* *	1	0	* *	* *	1	1	1
Ophthalmology	2	* *	5	3	3	3	2	2	3	4	3
Otolaryngology	2	* *	1	2	2	2	2	1	1	2	2
Obstetrics/Gynecology	3	4	4	4	5	5	4	3	4	4	4
Specialists	44	39	48	48	64	64	57	40	53	58	60
Total Physicians	98	99	113	109	131	136	111	106	129	145	132
										So	urce: NPDB, CIHI

<sup>\*</sup> Canada totals are ten province totals including the Yukon and excluding the Northwest Territories.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table G3: Full-time Equivalent Fee-for-service Physicians per 100,000 Population by Type of Practice, Canada and the Provinces, 1999/2000

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	80	76	67	67	75	87	66	79	80	85	81
Medical Specialties	30	22	24	30	52	52	37	26	37	37	45
Internal Medicine	14	10	7	12	21	20	13	10	13	12	17
Neurology	1	* *	1	2	3	2	1	2	1	2	2
Psychiatry	5	* *	5	4	11	14	9	4	9	9	11
Pediatrics	4	* *	2	3	7	7	7	3	6	4	6
Dermatology	* *	* *	1	* *	2	1	1	* *	1	1	1
Physical Medicine	* *	* *	* *	* *	1	1	1	* *	0	1	1
Anesthesia	5	5	8	7	7	7	7	6	6	9	7
Surgical Specialties	18	20	23	24	24	24	19	20	18	20	23
General Surgery	5	9	6	5	6	6	5	5	4	4	6
Thoracic/Cardiovascular Surgery	* *	n/a	2	1	1	0	1	1	1	1	1
Urology	1	* *	2	2	2	2	1	1	1	2	2
Orthopedic Surgery	2	* *	2	4	4	3	3	3	3	3	3
Plastic Surgery	* *	* *	1	2	1	1	1	1	1	1	1
Neurosurgery	* *	n/a	* *	* *	1	1	* *	* *	1	1	1
Ophthalmology	2	* *	5	4	4	4	2	3	3	4	4
Otolaryngology	2	* *	1	2	2	2	1	1	1	1	2
Obstetrics/Gynecology	4	* *	4	4	4	6	4	3	4	3	5
Total Specialties	48	42	47	54	76	76	57	45	54	57	68
Total Physicians	128	118	115	121	151	163	123	125	134	142	148
										Soi	urce: NPDB, CIH

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

Table G4: Full-time Equivalent Fee-for-service Physicians per 100,000 Population by Type of Practice, Canada and the Provinces, 2000/2001

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada*
Family Medicine	71	74	66	67	76	86	69	82	81	85	81
Medical Specialties	33	22	24	30	48	52	41	27	37	37	45
Internal Medicine	14	9	7	13	20	21	14	11	13	12	17
Neurology	* *	* *	1	2	2	2	1	2	1	2	2
Psychiatry	6	* *	5	3	9	14	9	4	9	9	10
Pediatrics	4	* *	2	3	6	7	7	3	6	4	6
Dermatology	* *	* *	1	* *	2	1	1	* *	1	1	1
Physical Medicine	n/a	* *	* *	* *	1	1	1	* *	0	1	1
Anesthesia	7	6	8	7	6	7	7	6	6	9	7
Surgical Specialties	19	20	23	24	23	25	20	20	18	19	22
General Surgery	5	9	6	5	5	6	5	5	4	4	5
Thoracic/Cardiovascular Surgery	* *	n/a	1	1	1	0	1	1	1	1	1
Urology	1	* *	2	2	2	2	1	1	1	2	2
Orthopedic Surgery	3	* *	3	4	3	3	3	3	3	3	3
Plastic Surgery	* *	* *	1	2	1	1	1	1	1	1	1
Neurosurgery	* *	n/a	* *	* *	1	1	* *	* *	1	1	1
Ophthalmology	2	* *	5	4	4	4	2	3	3	4	4
Otolaryngology	2	* *	1	2	2	2	1	1	1	1	2
Obstetrics/Gynecology	4	* *	4	4	4	6	5	3	4	3	5
Total Specialties	52	43	47	53	71	77	60	47	55	56	67
Total Physicians	123	117	114	120	147	162	130	129	137	141	148
										Soi	urce: NPDB, CIH

<sup>\*</sup> Canada totals are ten province totals, the Yukon and Northwest Territories are not available.

Net population figures are used to calculate these figures.

<sup>\*\*</sup> Data for this specialty have been rolled up to the medical specialties or surgical specialties broad specialty to protect confidentiality. PEI plastic surgeons are included with general surgeons.

n/a = Not Applicable—There were no physicians for this specialty for this province.

# Appendix H

Full-time Equivalent Methodology: History and Calculations

# Historical Measurement of a Full-time Equivalent (FTE) Physician

In Canada, physician supply has historically been measured in terms of the number of physicians available. These data are often extended to physician/population ratios for interprovincial comparisons or analyses of changes over time. Traditionally these statistics have been used in planning exercises and for the assessment of policy decisions. In particular they have been used for the following purposes:

- to assess the factors contributing to the increases in medical care costs,
- to provide input to physician manpower requirement studies, and
- to assess trends in physicians' remuneration.

The number of fee-for-service physicians has always been viewed as an important health economic indicator because of the "gatekeeper" role that physicians play in the health care delivery system.

The use of simple counts of physicians for analysis implies that all physicians are equal in terms of their capacity to provide patient care. This is clearly not plausible; some physicians are semi-retired, some work part-time and many are not in active clinical practice. Even considering only fee-for-service physicians, the availability of medical services will vary considerably as a result of trade-offs individual physicians have made between income and leisure time. To try to produce a more meaningful measurement of physician supply, the practice of counting full-time and full-time equivalent physicians was adopted.

The first and simplest methods of defining full-time physicians involved the use of income thresholds. A dollar amount was specified and any practitioner whose income met or exceeded this amount was counted as one full-time physician. Physicians whose total billing was less than this amount were excluded from the count. The resultant estimates of physician supply depended strongly on what threshold was chosen; furthermore the supply of medical services by part-time physicians was ignored in the count. Depending on the choice of threshold, statistics could be generated with this algorithm that indicated anything from a serious lack of physician resources to a complete oversupply of all specialties of practitioner. An improvement of this early method involved the counting of part-time physicians as a fraction of a full-time physician.

Apart from the problems caused by the arbitrary choice of income threshold, there are other limitations to this methodology. The statistics are not suitable for any time series analysis as the sub-set of physicians earning in excess of any fixed dollar benchmark will be affected over time by increases in the provincial schedule of benefits. As well, interprovincial comparability will be weak because of differing benefit levels among the provinces.

To try to improve interprovincial, inter-specialty and time series comparisons, thresholds were redefined in terms of percentile levels of physician earnings. For example, instead of counting all physicians receiving payments in excess of \$30,000 as full-time, all practitioners billing

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within the top 70 percent of physicians could be considered full-time. Percentile thresholds have clear advantages over the dollar values. The impact of benefit schedule increases are automatically adjusted. Interprovincial comparability is improved but still there is no indication that the full-time benchmark in one province would reflect the same intensity of production as the full-time benchmark in any other province. Additionally, percentile thresholds implicitly adjust for changes over time, the service price and the changes in service utilization/volume per physician. Full-time equivalent methods based on the average or median earnings are variations on this methodology.

# Development of an Improved Measure of Full-time Equivalence (FTE)

The development of a new measure for FTE was undertaken in 1984 by a working group comprised of representatives from National Health & Welfare, provincial medicare agencies, and academic consultants. The working group identified the following objectives of a FTE measure:

- provide a consistent basis for interprovincial and intraprovincial comparisons of physician supply;
- provide a consistent basis for measuring changes through time in physician supply; and
- recognize workload differences among individual specialties.

## Conceptual Model

All measures of full-time equivalence are to some degree arbitrary, in the sense that there is no "best" measure to be derived through statistical techniques. The choice of a measure was therefore determined by the objectives, and by data availability. The measure developed by the Working Group was based on the following conceptual model.

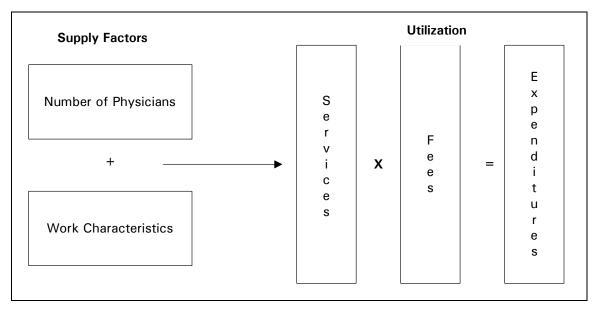


Figure 1. Relationship between income and FTE values

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In an economic context, physicians and hours of work are seen as measures of supply. Services produced by physicians are the most basic measure of utilization, while expenditure is the product of services and fees. The relationship between these three variables is illustrated in Figure 1. The realistic choices for estimation of full-time equivalence were (1) hours of work, (2) services provided, and (3) payments.

An internal study indicated a high degree of variability in income per hour worked by fee-for-service physicians, after standardizing for specialty. Consequently, a FTE measure based on hours of work would not provide accurate estimates of the *potential output* (in terms of clinical services) of the physician population. As FTE measures are used most often in a context where output or expenditure is an important consideration, it was decided that a measure of output would be preferable to hours of work, which is essentially an input measure.

Although services are measures of output, they are not weighted for intensity or value. Expenditure measures services weighted by fees. Payments to physicians were therefore chosen as the most appropriate measure of output with which to determine full-time equivalence.

#### Rationale

In the model adopted, gross income per physician is used to measure output or workload. As there is a wide range of output among physicians within the same specialty, a single cut-off to measure full-time equivalence status did not seem appropriate. It was therefore decided to use a range of output that would be realistic for a typical full-time physician.

It was essential that this range could be defined statistically, and after some experimentation the 40th to 60th percentiles of fee adjusted, nationally defined payment distributions were chosen as the benchmarks within which to measure full-time equivalence.

Simulations of alternative percentiles indicated that the FTE counts were relatively insensitive to different benchmark ranges, as long as those ranges were symmetric (e.g. the 30<sup>th</sup> to 70<sup>th</sup> percentiles yielded approximately the same total counts as the 40<sup>th</sup> to 60<sup>th</sup> percentiles).

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### Comprehensiveness

The measure was designed to count all physicians providing fee-for-service care under the Canadian medicare system. Physicians with payments less than the lower benchmark are counted as fractions of a FTE; physicians within or equal to the benchmarks are counted as one; and physicians above the benchmark are counted as more than one FTE. The decision to count physicians above the benchmark as more than one FTE was based on a recognition that many physicians have large workloads and the FTE measure should recognize this.

At the same time, an algorithm incorporating logarithms was used to prevent high income physicians from having a very large FTE (for example, a physician whose income is three times the upper benchmark will have a FTE of 2.1, while a physician whose income is four times the upper benchmark will have a FTE of 2.4). The relationship between income and FTE count is illustrated in Figure 2.

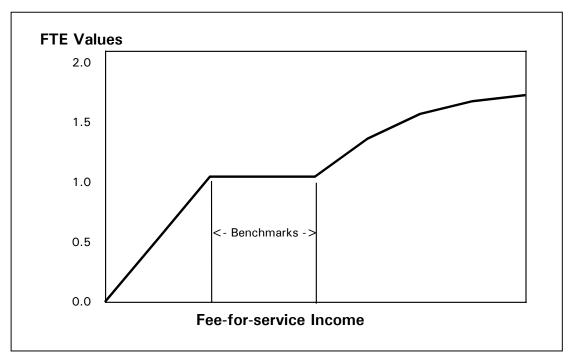


Figure 2. Relationship between income and FTE values.

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## Consistency

In order to provide consistency across provinces and through time it was necessary to remove the effects of different fee levels on physician income. The methodology adopted allowed payments to each physician to be standardized for interprovincial fee differences in order to compute national benchmarks for a base year. The national benchmarks were then converted to provincial values. Each year, the provincial benchmarks are indexed by specialty specific fee increases or decreases.

Benchmark values and FTE physician counts vary depending on the base year used for analysis. As of 2001, CIHI's full-time equivalent physician reports, as well as the current report use 1995/1996 utilization data to establish a base year for implementing the FTE methodology. Earlier reports used 1985/1986 utilization data. A complete description of how base year changes can affect benchmarks and FTE counts is given in Appendix G of the *Full-time Equivalent Physicians Report, Canada, 1996/97 to 1998/99*, published in 2001.

### **Computations**

#### Counts

All counts are based on the number of physicians receiving payments from each provincial plan on a fee-for-service basis. Canada totals represent the sum of the provincial numbers. Concurrently registered physicians will appear as separate physicians in each province, and will be double counted at the national level.

#### **FTE Measure**

- 1. Select a base year for estimation. The current base year is 1995/1996.
- 2. Create a national base year FTE database.
  - Select from the NPDB all the records for physicians who received at least one fee
    payment during each quarter of the base year for services provided within the
    physician's province of residence to in-province patients.
  - Create for each province and each specialty of physician, a data set that includes each physician's total payments in this fiscal year.
  - To eliminate the interprovincial differences in payments that are due to differences in fee levels, adjust the gross income of each physician by the relevant Physician Services Benefit Rates (PSBR) index.

**Note:** FTE statistics are not calculated for physicians in the specialties of radiology or laboratory medicine. Physicians who received payments under more than one specialty during the year are assigned to the specialty under which they received the majority of their payments.

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- 3. Calculate base year lower and upper benchmarks.
  - Within each specialty, rank order the payment amounts and establish the distribution of physicians by payment levels.
  - Label the payment value corresponding to the 40<sup>th</sup> percentile rank as the national lower benchmark and that of the 60<sup>th</sup> as the national upper benchmark.
  - To calculate the provincial lower and upper benchmarks, adjust the national benchmarks by the PSBR index.
- 4. Calculate the benchmarks for years other than the base year.
  - Inflate (or deflate for years prior to the base year) the provincial benchmarks for each specialty by the specialty specific annual fee increase percentages.
- 5. Create FTE database for estimation.
  - Select from the NPDB, all the records for physicians who received at least one fee
    payment during a fiscal year for services provided within the physician's province of
    residence to in-province patients.
  - Create for each province and each specialty of physicians, a data set that includes each physician's total billing in the fiscal year.
- 6. Calculate the FTE statistics.
  - Count physicians with payments within or equal to the benchmarks as 1 FTE.
  - Count physicians with payments below the lower benchmark as a fraction of a FTE equal to the ratio of his/her payments to the lower benchmark.
  - Count physicians with payments above the upper benchmark using a log-linear relationship, i.e. as 1 FTE plus the logarithm of the ratio of his/her payments to the upper benchmark.

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