

Health Research and **Development Expenditures** by Therapeutic Class, 2005

Reporting organization name and address

voc préférez ce questionnaire en français, veuillez cocher

Please correct any mistake in name or address



Information for Respondents

Survey objective

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This survey collects data which are essential to plan and evaluate research and development programs. Data will be used by the Applied Research and Analysis Directorate (ARAD) of Health Canada to monitor and support the development of science and technology policy.

Authority

This survey is conducted under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S19.

Legal requirement

Completion of this questionnaire is a legal requirement under the Statistics Act.

Confidentiality

Statistics Canada is prohibited from publishing any statistics that would divulge information relating to any identifiable org nization without the previous written consent of that organization. Tr. data reported on this questionnaire will be treated in strict confidence, used for statistical purposes and published in aggregated form only. The Access to Information Act or any other legisle on does not affect the confidentiality provisions of the Statistics Act

Federal/Provincial Agreements

In order to avoid duplication of enquiry, to reduce the cost of data collection and to provide consistent statistics, agreements have been

the Institut de la statistique de Québec (ISQ), under Section 11 of the Statistics Act, Statistics of Canada, where data on firms located or having relearch and development (R&D) activities in Québec will be trans nitted to the ISQ. The Statistics Act of Quebec include the same provisions for confidentiality and penalties for disclusure of information as the Canada Statistics

The ARAD, under Section 12 of the Statistics Act, Statutes of Canada, or injoint collection and sharing of information. the ARAD will not be given access to your Howev r. question aire if you send a letter to the Science, Innovation and Electronic Information Division, with your completed guastionnaire, stating that you do not want it made available to the ARAD.

Reporting period and coverage

questionnaire should be completed for the 2005 fiscal year for research and development activities performed by your organization in Canada (exclude foreign operations). Please report all amounts in Canadian currency.

Note: Total R&D reported on page 5 should equal the 2005 total expenditures reported on line 605 of your T661 form "Claim for Scientific Research and Experimental Development (SRED) carried

The first level classes of the Anatomical Therapeutic Chemical (ATC) system are used in this questionnaire. Some basic information about this system is provided in Appendix A.

Planned data linkage

In order to enhance the analytic possibilities of this survey, Statistics Canada intends to combine the information from the Health R&D Expenditures by Therapeutic Class Survey with the information your organization provided on the Research and Development in Canadian Industry Survey, if applicable.



Please return the completed questionnaire within 30 days of receipt.

If you are unable to do so, please inform us of the expected completion date. If you receive more than one copy of this survey questionnaire for the same business, please complete one and attach and return the duplicate(s). If you require assistance in the completion of this questionnaire or have any questions regarding the survey please address all enquiries to:

Science and Technology Surveys Section

Science, Innovation and Electronic Information Division

Statistics Canada

Ottawa, Ontario K1A 0T6

E-mail: sieidinfo@statcan.ca FAX: (613) 951-9920

5-5300-412.1: 2006-08-21 STC/SAT-465-75417



Statistics Canada

Statistique Canada



1.	Is your organization: Please check appropriate category. a brand name pharmaceutical company a contract research organization (CRO) a generic pharmaceutical company Other (please specify) Did your organization perform any R&D related to the discovery and/or development of therapeutic products												
2.	for human use in 2005?		o the discov	ery and/or o	developmei	nt of therape	eutic produc	cts					
	✓ Yes ► Please go to Question✓ No ► Please complete certificationThank you for your cool	ication on p	age 6 and re	turn this ques	stionnaire in	the prepaid e	nvelope.						
3.	For each therapeutic class listed below, please indicate, by stage of development, the number of R&D projects performed by your organization in 2005 and their related expenditures, for new* product development and for existing* product improvements. Please report R&D performed in Canada only. In cases where no R&D was performed, please check "No" and move to the next class.												
1.	. Alimentary Tract and Metabolism.												
	○ No ► Move to next class ○ Yes	R&D expend in 2005	litures		(\$000)	Number of targets*	t						
		Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trails	Phase III Trials*	Pending Approval	Approved*					
	Number of R&D projects for new product development	#	#	#	#	#	#	#					
	b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$067)	(\$000)	(\$000)	(\$000)	(\$000)					
	c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#					
	d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)					
2.	Blood and Blood Forming Organs.												
	○ No ► Move to next class ○ Yes	R&D € roe 10 in 2005	litures		(\$000)	Number of R&D targets*							
		L iscove y	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*					
	a) Number of R&D projects for new product development	#	#		#	#	#	#					
	b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)					
	c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#					
	d) R&D expenditules in 2005 for existing product in prove. ands	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)					
3.	Cardiovascular System.												
	○ No ► Move to next class ○ Yes	R&D expend in 2005	litures		(\$000)	Number of R&D targets*	t .						
	J 1.00	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*					
	Number of R&D projects for new product development	#	#	#	#	#	#	#					
	b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)					
	c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#					
	d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)					

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^{*} see definitions in Appendix A

4. Dermatologicals.

No ▶ Move to next classYes →	R&D expenditures in 2005		(\$000)		Number of R&D targets*		
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	:	# #	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	;	# #	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

5. **Genito-urinary Systems and Sex Hormones.**

○ No ► Move to next class							
Yes —	R&D expend in 2005	litures		(\$000)	Number of Ran targets*		
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Inals*	Pending Approval	Approved*
Number of R&D projects for new product development	#	#	#		#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#		#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

6. Systemic Hormonal Preparation excluding Sex Formones and Insulin.

No ► Move to next classYes — ►	R&D expenditures in 2006			(\$000)	Number of R&D targets	*	
	Discu ery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for non- product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

7. Anti-infectives for Systemic Use.

○ No ► Move to next class ○ Yes ←	R&D expenditures in 2005 (\$000			(\$000)	Number of R&D targets	*	
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

^{*} see definitions in Appendix A

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8. Antineoplastic and Immunomodulating Agents.

No ▶ Move to next classYes →	R&D expend in 2005	litures		(\$000)	Number of R&D targets	*	
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

9. Musculo-skeletal Systems.

○ No ► Move to next class							
Yes —	R&D expend in 2005	litures		(\$000)	Number of Ran targets*		
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Inals*	Pending Approval	Approved*
Number of R&D projects for new product development	#	#	#		#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#		#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

10. Nervous System.

No ► Move to next classYes	R&D expend in 200 i	R&D expenditures in 200 i			Number of R&D targets	*	
	Disco ery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for now product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 20, 5 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

11. Antiparasitic Products, Insecticides and Repellents.

○ No ► Move to next class ○ Yes ←	R&D expend in 2005	litures		(\$000)	Number of R&D targets*		
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

^{*} see definitions in Appendix A

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12	Roen	iratory	System.
12.	KAPI	matorv	Svsteiii.

No ▶ Move to next classYes →	R&D expenditures in 2005			(\$000)	Number of R&D targets*		
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#	#	#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

13. Sensory Organs.

No ► Move to next classYes	R&D expend in 2005	litures		(\$000)	Number of Ran targets	*	
	Discovery R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Inals*	Pending Approval	Approved*
a) Number of R&D projects for new product development	#	#	#		#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvements	#	#		#	#	#	#
d) R&D expenditures in 2005 for existing product improvements	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

14. Various Others (please specify)

○ No ○ Yes →	R&D exp. no in 20บะ	R&D exp. nditures in 200. (\$000)			Number of R&D targets*		
	Discov ry R&D	Pre-clinical Trials*	Phase I Trials	Phase II Trials	Phase III Trials*	Pending Approval	Approved*
Number of R&D projects for new product development	#	#	#	#	#	#	#
b) R&D expenditures in 2005 for new product development	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
c) Number of R&D projects for existing product improvement's	#	#	#	#	#	#	#
d) R&D expenditt res in 100 for existing product improvement;	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)

TOTAL

Total Health R&D (sum of 1 – 14)	(\$000)	Total number of R&D targets			
Other R&D in 2005	(\$000)				
Total R&D in 2005 1	(\$000)				
Planned Health R&D for 2006	(\$000)				
Forecast Health R&D for 2007	(\$000)				

^{1.} Should equal the 2005 total expenditures reported on line 605 of your T661 form "Claim for Scientific Research and Experimental Development (SR&ED) Expenditures" carried on in Canada.

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^{*} see definitions in Appendix A

	CER ⁻	TIFICA	TION			
Please complete certification below Thank you for your cooperation.	w and return th	nis que	estionnaire in th	e prepaid e	envelope.	
Name of person who completed this report (please print) B			ess address			
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Targets — P&D targets refers to the research being performed.	e number of e	nd-pro	oducts that are I	noped to e	volve from the cur	rent
New product development – pleat personnel of your organization.	ase consider n	ew to	mean totally or	essentiall _y	y new/unknown to	the
Existing product improvement — would be improving a product or pro						zation
Pre-clinical trials – includes toxic	ology testing.					
Phase III trials — please include p submitting for approval.	hase IIIB bioe	quiva	ence testing an	d all other	testing before	
Approved – please include phase products on the market.	e IV trials and o	other	testing in compa	arison with	other competing	

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The ATC classification - structure and principles

The Anatomical Therapeutic Chemical (ATC) system is recognized by the World Health Organization (WHO) as an international standard for drug utilization studies. The purpose of the ATC system is to serve as a tool for drug utilization research in order to improve quality of drug use. ATC codes are maintained by the WHO Collaborating Centre for Drug Statistics Methodology in Oslo, Norway.

In the ATC classification system, the drugs are divided into different groups according to the organ or system on which they act and their chemical, pharmacological and therapeutic properties. Drugs are classified in groups at five different levels. The drugs are divided into fourteen main groups (1st level), with one pharmacological/therapeutic subgroup (2nd level). The 3rd and 4th levels are chemical/pharmacological/therapeutic subgroups and the 5th level is the chemical substance. The 2nd, 3rd and 4th levels are often used to identify pharmacological subgroups when that is considered more appropriate than therapeutic or chemical subgroups.

Medicinal products are classified according to the main therapeutic use of the main active ingredient, on the basic principle of only one ATC code for each pharmaceutical formulation (i.e. similar ingredients, strength and pharmaceutical form). A medicinal product can be given more than one ATC code if it is available in two or more strengths or formulations with clearly different therapeutic uses.

ATC pharmacological / therapeutic 1st level groups and 2nd level substitutions

1. Alimentary Tract And Metabolism

- A01 Stomatological Preparations
- A02 Drugs For Acid Related Disorders
- A03 Drugs For Functional Gastrointestinal Disorders
- A04 Antiemetics And Antinauseants
- A05 Bile And Liver Therapy
- A06 Laxatives
- A07 Antidiarrheals, Intestinal Antiinflammatory, Antiinfective Agents
- A08 Antiobesity Preparations, Excl. Diet Froducts
- A09 Digestives, Incl. Enzymes
- A10 Drugs Used In Diabetes
- A11 Vitamins
- A12 Mineral Supplements
- A13 Tonics
- A14 Anabolic Agents For Cyclemic Use
- A15 Appetite Stimulan 3
- A16 Other Alimen ary T act And Metabolism Products

2. Blood And Blood Forming Organs

B05	Blood Substitutes And Perfusion Solutions
A10B	Oral Blood Glucose Lowering Drugs
B05A	Blood And Related Products
A10Bx	Other Oral Blood Glucose Lowering Drugs
B02Bd	Blood Coagulation Factors
B05Aa	Blood Substitutes And Plasma Protein
	Fractions
V07Ac	Blood Transfusion, Auxiliary Products
V07Ad	Blood Tests, Auxiliary Products
B05Aa03	Fluorocarbon Blood Substitutes

3. Cara hvascular System

- C01 Cardiac Therapy
- CC2 Antihypertensives
- C03 Diuretics
- C04 Peripheral Vasodilators
- C05 Vasoprotectives
- C07 Beta Blocking Agents
- C08 Calcium Channel Blockers
- C09 Agents Acting On The Renin-Angiotensin System
- C10 Serum Lipid Reducing Agents

4. Dermatologicals

- D01 Antifungals For Dermatological Use
- D02 Emollients And Protectives
- D03 Preparations For Treatment Of Wounds And Ulcers
- D04 Antipruritics, Incl. Antihistamines, Anesthetics, Etc.
- D05 Antipsoriatics
- D06 Antibiotics And Chemotherapeutics For Dermatological Use
- D07 Corticosteroids, Dermatological Preparations
- D08 Antiseptics And Disinfectants
- D09 Medicated Dressings
- D10 Anti-Acne Preparations
- D11 Other Dermatological Preparations

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5. Genito Urinary System And Sex Hormones

- G01 Gynecological Antiinfectives And Antiseptics
- G02 Other Gynecologicals
- G03 Sex Hormones And Modulators Of The Genital System
- G04 Urologicals

6. Systemic Hormonal Preparations, Excl. Sex Hormones And Insulins

- H01 Pituitary And Hypothalamic Hormones And Analogues
- H02 Corticosteroids For Systemic Use
- H03 Thyroid Therapy
- H04 Pancreatic Hormones
- H05 Calcium Homeostasis

7. Antiinfectives For Systemic Use

- J01 Antibacterials For Systemic Use
- J02 Antimycotics For Systemic Use
- J04 Antimycobacterials
- J05 Antivirals For Systemic Use
- J06 Immune Sera And Immunoglobulins
- J07 Vaccines

8. Antineoplastic And Immunomodulating Agents

- L01 Antineoplastic Agents
- L02 Endocrine Therapy
- L03 Immunostimulants
- L04 Immunosuppressive Agents

9. Musculo-Skeletal System

- M01 Antiinflammatory And Antirheuma, c Products
- M02 Topical Products For Joint and Muscular Pain
- M03 Muscle Relaxants
- M04 Antigout Preparations
- M05 Drugs For Treatment Of Bone Diseases
- M09 Other Drugs Fo. Disorders Of The
 - Musculo-Ske letal & ystem

10. Nervous System

- N01 Anesthetics
- N02 Analgesics
- N03 Antiepileptics
- N04 Anti-Parkinson Drugs
- N05 Psycholeptics
- N06 Psychoanaleptics
- N07 Other Nervous System Drugs

11. Antiparasitic Products, Insecticides And Repellents

- P01 Antiprotozoals
- P02 Anthelmintics
- P03 Ectoparasiticides, Incl. Scabicides, Insecticides And Repellents

12. Respiratory System

- R01 Nasal Preparations
- **R02** Throat Preparations
- R03 Drugs For Obstructive Airway Diseases
- R05 Cough And Cold Preparations
- R06 Antihistamines For Systemic Use
- R07 Other Respiratory System Froducts

13. Sensory Organs

- S01 Ophthalmological
- S02 Otologicals
- S03 Ophthalm logical And Otological Preparations

14. Various Others

- 101. Alle gens
- Vu? All Other Therapeutic Products
- V04 Diagnostic Agents
- V_J6 General Nutrients
- V07 All Other Non-Therapeutic Products
- V08 Contrast Media
- V09 Diagnostic Radiopharmaceuticals
- V10 Therapeutic Radiopharmaceuticals
- V20 Surgical Dressings

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