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July 13, 2012

## Notice

Our file number: 12-111889-914

### **Release of the Therapeutic Products Directorate Statistical Report 2011 for the *Patented Medicines (Notice of Compliance) Regulations* and Data Protection**

Health Canada is pleased to announce the release of the Therapeutic Products Directorate Statistical Report 2011 for the *Patented Medicines (Notice of Compliance) Regulations* and Data Protection. This report provides a statistical overview of Health Canada's administration of the *Patented Medicines (Notice of Compliance) Regulations*, and data protection under section C.08.004.1 of the *Food and Drug Regulations*.

As in previous reports, this report includes information regarding trends in the eligibility of patents for listing on the Patent Register, the eligibility of drugs for listing on the Register of Innovative Drugs, and related court activity, which has been presented using data in a calendar year format. Future versions of this report will contain data presented in a fiscal year format in order to align with reporting requirements across the Branch.

Any concerns or questions regarding the contents of the report should be directed to:

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Canada



# Therapeutic Products Directorate Statistical Report 2011

*Patented Medicines (Notice of Compliance) Regulations  
And Data Protection  
(C.08.004.1 of the Food and Drug Regulations)*

Office of Patented Medicines and Liaison



2012-06-20

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## **Section I Overview**

## Overview

This document provides a statistical overview relating to the administration of the *Patented Medicines (Notice of Compliance) Regulations*, S.O.R./93-133 as amended, and the data protection provisions of the *Food and Drug Regulations*, C.R.C., c.870 as amended by S.O.R./2006-241.

The two sets of regulations are intended to act as a balanced set of measures, designed to work together to stabilize Canada's intellectual property protection for drugs by ensuring a minimum period of protection and maintaining a reasonable ceiling on the maximum protection available.

### A. *Patented Medicines (Notice of Compliance) Regulations*

The *Patented Medicines (Notice of Compliance) Regulations* fall under the authority of the *Patent Act* which is within the mandate of Industry Canada. However, they are administered by the Office of Patented Medicines and Liaison (OPML), Therapeutic Products Directorate, Health Products and Food Branch, Health Canada. The *Patented Medicines (Notice of Compliance) Regulations* came into force in March 1993 and were subsequently amended in 1998, 1999, 2006, 2008, 2010 and 2011.

According to the Regulatory Impact Analysis Statement published in Canada Gazette, Part II on October 18, 2006, the *Patented Medicines (Notice of Compliance) Regulations* help to balance the effective patent enforcement over new and innovative drugs with the timely entry of their lower priced generic competitors. On one end of the balance lies subsection 55.2(1) of the *Patent Act*, known as the "early-working" exception. Early-working allows a subsequent entry (typically generic) drug manufacturer to use a patented, innovative drug for the purpose of seeking regulatory approval to market a competing version of that drug. The *Patented Medicines (Notice of Compliance) Regulations* represent the other half of the balance by linking Health Canada's ability to approve a generic drug to the patent status of the

equivalent innovative drug that the generic drug manufacturer seeks to copy. As such, a drug manufacturer that makes a direct or indirect comparison with, or reference to, an innovative drug in respect of which there are patents listed on the Patent Register, must either agree to await patent expiry before obtaining market authorization or make an allegation justifying immediate market entry that is either accepted by the innovator or upheld by the court.

Under the *Patented Medicines (Notice of Compliance) Regulations*, the OPML maintains a Patent Register that consists of patent lists submitted by drug manufacturers in respect of drugs for which market authorization is sought or has issued in the form of a Notice of Compliance. Each patent list is audited by the OPML in order to determine its eligibility under the *Patented Medicines (Notice of Compliance) Regulations*. As such, on behalf of the Minister of Health, the OPML may refuse to add or may delete any patent that does not meet the eligibility requirements. A web-accessible version of the [Patent Register](#) is found on the Health Canada website.

In addition, the OPML ensures that patents listed on the Patent Register are addressed under the *Patented Medicines (Notice of Compliance) Regulations*. Detailed information on the administration of the *Patented Medicines (Notice of Compliance) Regulations* can be found in the guidance document: [Patented Medicines \(Notice of Compliance\) Regulations](#).

### B. Data Protection

Amendments to the data protection provisions in section C.08.004.1 of the *Food and Drug Regulations* were brought into force on October 5, 2006 in order to clarify and effectively implement Canada's obligations under the *North American Free Trade Agreement* and the *Agreement on Trade-Related Aspects of Intellectual Property Rights* with respect to the protection of undisclosed tests or other data necessary to determine the safety and effectiveness of a pharmaceutical product

which utilizes a new chemical entity. In keeping with those obligations, innovative drugs are provided with an internationally competitive, guaranteed minimum period of market exclusivity of eight years. An additional six-month period is available for innovative drugs that have been the subject of clinical trials designed and conducted for the purpose of increasing the knowledge of the use of the drug in pediatric populations.

The data protection provisions are administered by the OPML. Innovative drugs that are eligible for data protection are listed on the [Register of Innovative Drugs \(RID\)](#) after the issuance of the Notice of Compliance.

Detailed information on the administration of data protection is available in the guidance document: [Data Protection under C.08.004.1 of the Food and Drug Regulations](#).



**Section II**  
**Statistics: Patent Register and**  
***Patented Medicines (Notice of***  
***Compliance) Regulations***

## Number of Patent Lists Submitted for Listing on the Patent Register

### Number of Patent Lists Received

The information on this page is generated from the electronic Patent Register database. This table shows the total number of patents lists received in each year.

Year	2006	2007	2008	2009	2010	2011
<b>Number of patent lists received (during the calendar year)</b>	962	633	629	744	599	566

### Number of Patent Lists Added to the Patent Register

This table shows the total number of patent lists added to the Patent Register in each year. Note that listings do not necessarily represent new patents being added to the Patent Register for the first time. Some listings represent patents already listed on the Patent Register - for previously approved drug submissions - which have been added again in relation to a different supplement to a new drug submission. Also, patent lists may have been received in one calendar year but not added to the Patent Register until the following calendar year.

Year	2006	2007	2008	2009	2010	2011
<b>Number of patent lists added to the Patent Register (during the calendar year)</b>	447	417	431	477	373	315
<b>Patents not previously listed (New Drug Submission)</b>	49	83	68	89	77	102
<b>Patents not previously listed (Supplemental New Drug Submission)</b>	41	52	110	121	92	97

### Number of Patent Lists Rejected for Listing on the Patent Register

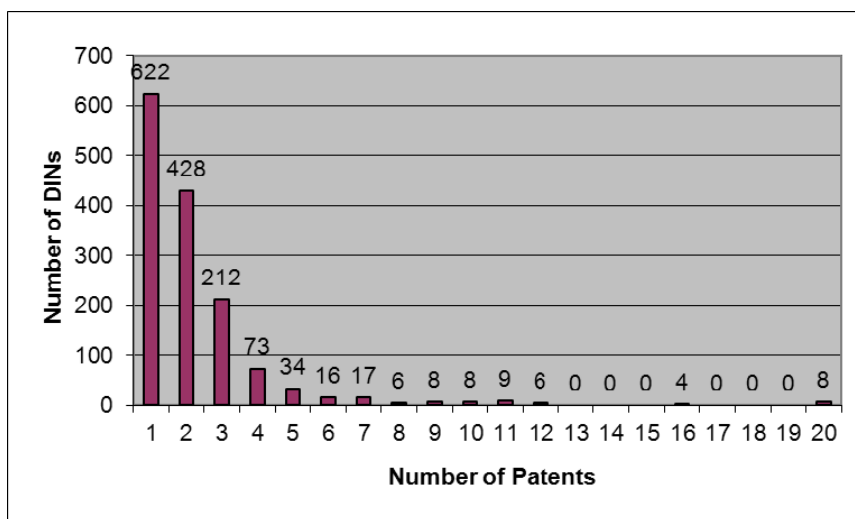
This table shows the number of rejected patent lists which includes patents rejected for all submissions, and not only the number of distinct patents rejected.

Year	June 16, 2006 to December 31, 2006	2007	2008	2009	2010	2011
<b>New Drug Submission (section 4(2))</b>	16	30	25	39	35	23
<b>Supplement to a New Drug Submission (section 4(3))</b>	66	101	75	84	46	75
<b>Timing (sections 4(5) and 4(6))</b>	31	7	8	8	64	25
<b>Other</b>	20	9	25	10	8	7
<b>Total</b>	<b>133</b>	<b>147</b>	<b>133</b>	<b>141</b>	<b>153</b>	<b>130</b>



**A Snapshot of the Patent Register as of December 31, 2011:  
Number of Patents Per Drug Identification Number (DIN) on the Patent Register**

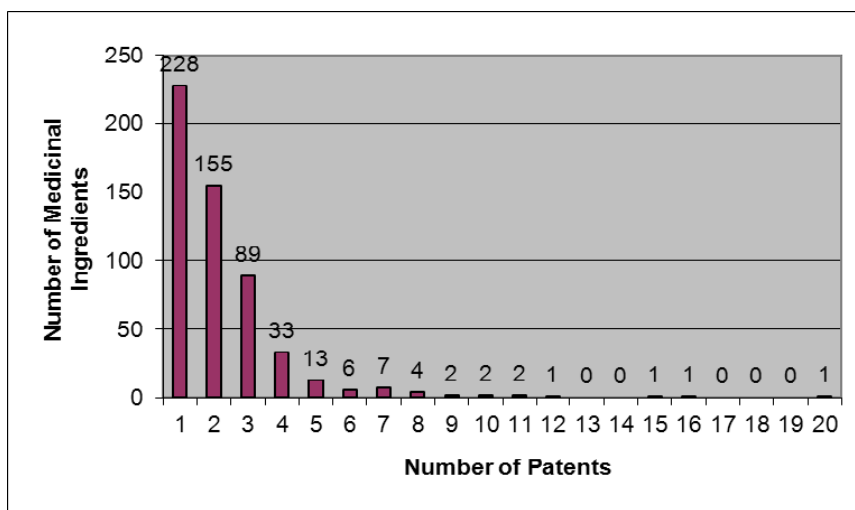
This graph and table represent the number of patents that a second person is required to address when seeking a Notice of Compliance for a patented medicine. As of December 31, 2011 there were 1451 DINs listed on the Patent Register, representing 545 different medicinal ingredients. The total number of patents listed on the Patent Register is 1023 and they are distributed per DIN. For example, there are 622 DINs which only have one patent listed against them; on the other hand, there are eight DINs which have 20 patents listed against them. This data is product-specific, as each DIN is specific to a particular strength, route and dosage form of a medicinal ingredient. Patents may apply to more than one DIN (for example, more than one strength, route and dosage form of a medicinal ingredient). The numbers in the above graph do not include patents which have been removed from the Patent Register nor do they include patents which have expired prior to the generation of this report.



Number of Patents	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Number of DINs	622	428	212	73	34	16	17	6	8	8	9	6	0	0	0	4	0	0	0	8

**A Snapshot of the Patent Register as of December 31, 2011:  
Number of Patents Per Medicinal Ingredient on the Patent Register**

There are currently 545 different medicinal ingredients listed on the Patent Register. The total number of different patents listed on the Patent Register is 1023, and they are distributed per medicinal ingredient. For example, there are 228 medicinal ingredients which only have one patent listed against them; on the other hand, there is one medicinal ingredient which has 20 patents listed against it. The numbers in the graph do not include patents which have been removed from the Patent Register nor do they include patents which have expired prior to the generation of this report.



The Patent Register is divided according to DIN in a product-specific manner. As this graph is produced by medicinal ingredient, some products have multiple strengths, routes, and dosage forms listed on the Patent Register while others do not.

# of Patents	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
# of Medicinal Ingredients	228	155	89	33	13	6	7	4	2	2	2	1	0	0	1	1	0	0	0	1

**Judicial Review Applications Concerning Patent Eligibility: Sections 3 and 4 of the *Patented Medicines (Notice of Compliance) Regulations***

This table lists judicial review applications started in 2011 and changes which took place to ongoing cases during 2011. The applications were filed pursuant to section 18.1 of the *Federal Courts Act* with respect to decisions concerning the eligibility of patents for listing on the Patent Register under sections 3 and 4 of the *Patented Medicines (Notice of Compliance) Regulations*. New cases and changes to open cases which occurred during the year are presented in bold.

Federal Court/ Federal Court of Appeal/Supreme Court of Canada	Style of Cause	Medicinal Ingredient(s)	Start Date	Close Date	Summary of Issue
T-582-09 (dismissed)  A-502-09 (dismissed)  <b>33845 (denied)</b>	Bayer Inc. - and -The Minister of Health and The Attorney General of Canada	drospirenone / ethinyl estradiol	2009-04-14  2009-12-16  2010-09-14	2009-11-1  2010-06-15  <b>2011-01-20</b>	Listing eligibility of patent 2,194,979, entitled “Solid Drug Forms Containing Clathrates of Steroid Sex Hormones”, under section 4(2)
T-248-10 (dismissed)  <b>A-288-10 (dismissed)</b>	Purdue Pharma - and - Attorney General of Canada and Minister of Health	oxycodone hydrochloride/ naloxone hydrochloride	2010-02-22  2010-08-06	2010-07-08  <b>2011-04-11</b>	Listing eligibility of patent 2,098,738, entitled “Controlled Release Oxycodone Compositions”, under section 4(2)
<b>T-235-11 (on-going)</b>	<b>Gilead Sciences Canada, Inc. – and – The Minister of Health and The Attorney General of Canada</b>	<b>tenofovir disoproxil fumarate/ emtricitabine/ rilpivrine</b>	<b>2011-02-11</b>		<b>Listing eligibility of patent 2,512,475, entitled “Compositions and Methods for Combination Antiviral Therapy”, under section 4(2)</b>
<b>T-1071-11 (on-going)</b>	<b>Eli Lilly Canada Inc. – and – Attorney General of Canada and Minister of Health</b>	<b>Drug A</b>	<b>2011-06-29</b>		<b>Listing eligibility of a patent under section 4(2)</b>
<b>T-1574-11 (on-going)</b>	<b>Hoffmann-La Roche Limited – and – Attorney General of Canada and Minister of Health</b>	<b>tenecteplase</b>	<b>2011-09-23</b>		<b>Listing eligibility of patent 1,341,609, entitled “Novel Human Tissue-Type Plasminogen Activator Variant”, under section 4(2)</b>
<b>T-1679-11 (on-going)</b>	<b>Novartis Pharmaceuticals Canada Inc. – and – Attorney General of Canada and Minister of Health</b>	<b>tobramycin</b>	<b>2011-10-14</b>		<b>Listing eligibility of patent 2,304,819, entitled “Perforated Microparticles and Methods of Use”, under section 4(2)</b>
<b>T-1854-11 (on-going)</b>	<b>Eli Lilly Canada Inc. – and – Attorney General of Canada and Minister of Health</b>	<b>Drug X</b>	<b>2011-11-14</b>		<b>Listing eligibility of a patent under section 4(2)</b>





### Average Time to Resolution of Prohibition Applications under the *Patented Medicines (Notice of Compliance) Regulations*

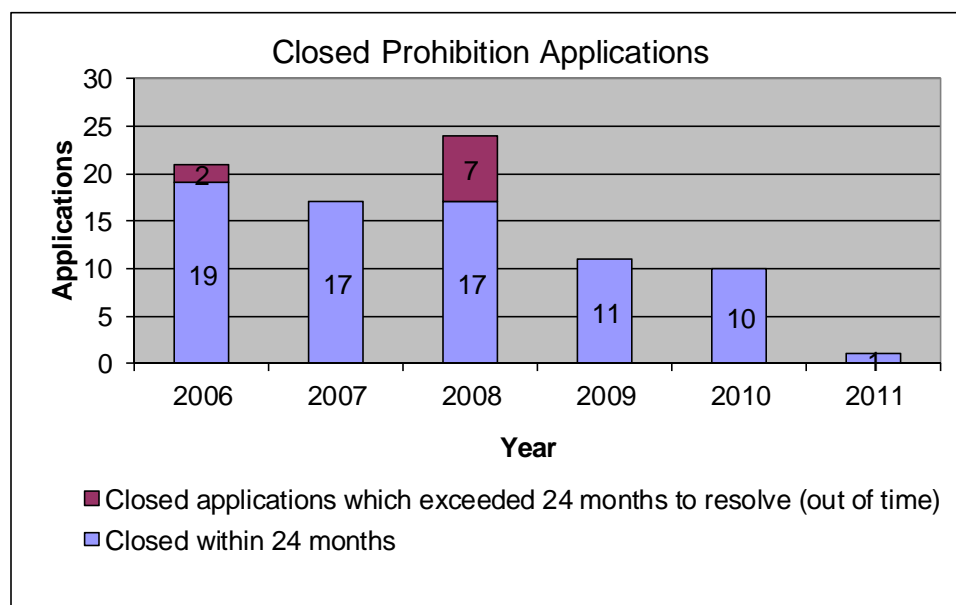
This table represents information regarding court cases filed pursuant to Section 6 of the *Patented Medicines (Notice of Compliance) Regulations*, commonly referred to as prohibition applications. The start date of the application determines the year in which it will be included. Average time to resolution is calculated from the start date to the close date of the application in the Federal Court (appeals not included). The 24-month period is prescribed by paragraph 7(1) (e) of the *Patented Medicines (Notice of Compliance) Regulations*. Pursuant to subsection 7(5), the court may make an order to vary the length of the 24-month stay.

Year	Number of cases per year	Number of cases closed <sup>1</sup>	Average resolution time <sup>1</sup> (months)	Range <sup>1</sup> (months)
2006	60	21	18.2	8.4 – 27.5
2007	53	17	19.1	3.3 – 24
2008	73	24	18.5	5 – 31.8
2009	65	11	14.9	0.9 – 23.8
2010	61	10	8.6	2.2 – 21
2011	49	1	6.2	6.2

<sup>1</sup> These numbers do not include cases which have been discontinued by the Applicant.

### Prohibition Applications Exceeding a 24-Month Resolution Timeframe

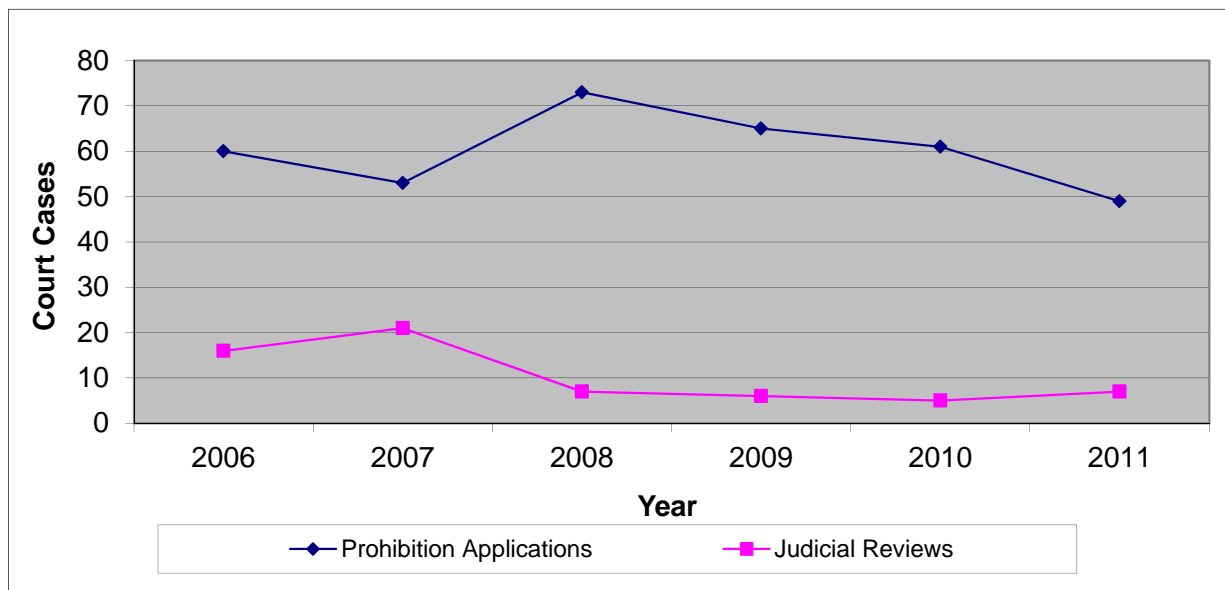
This graph and table represent the number of closed applications per year which were resolved within 24 months and the number of closed applications which exceeded 24 months to resolve. The numbers do not include cases which were discontinued.



Year	2006	2007	2008	2009	2010	2011
<b>Closed within 24 months</b>	19	17	17	11	10	1
<b>Closed applications which exceeded 24 months to resolve (out of time)</b>	2	-	7	-	-	-
<b>Total number of applications closed</b>	21	17	24	11	10	1

**Prohibition and Judicial Review Applications Initiated Per Year**

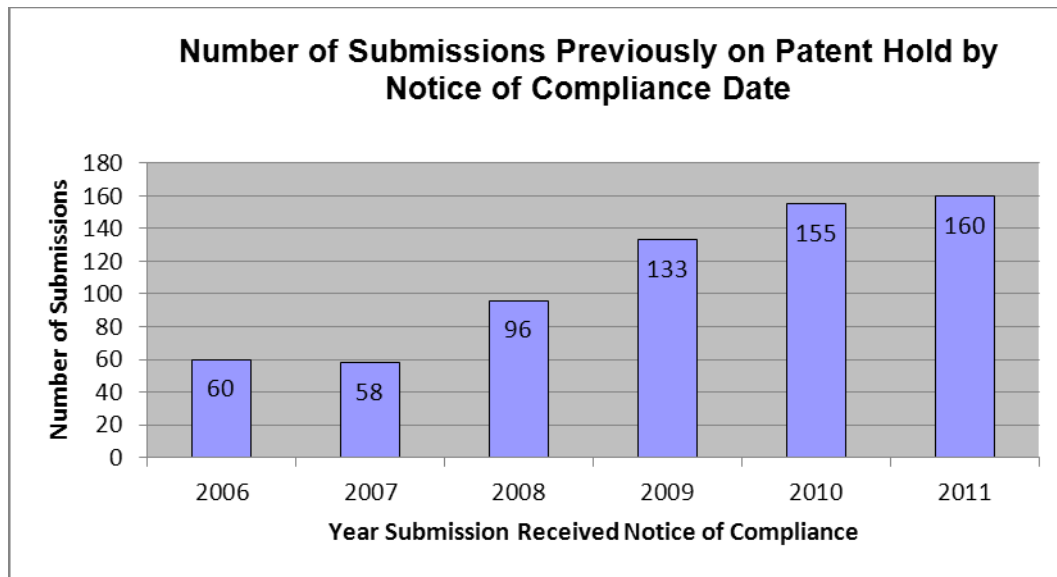
This graph and table compare the number of applications for judicial review of the Minister’s decisions concerning sections 3, 4 and 5 with the number of applications for orders of prohibition with respect to section 6 of the *Patented Medicines (Notice of Compliance) Regulations*.



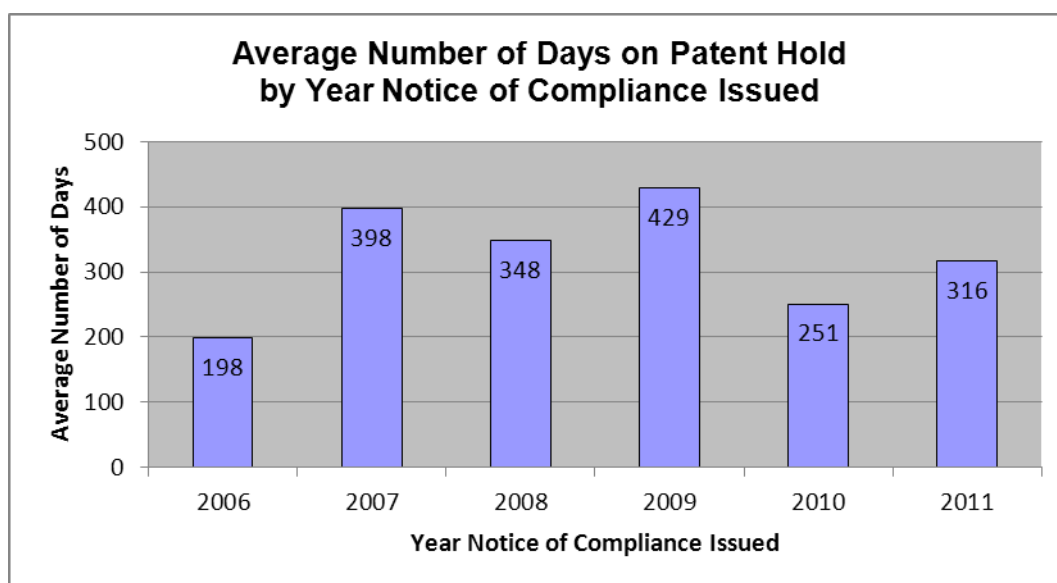
Year	2006	2007	2008	2009	2010	2011
<b>Prohibition Applications</b>	60	53	73	65	61	49
<b>Judicial Reviews</b>	16	21	7	6	5	7

**Submissions on Patent Hold**

The first graph and table show the number of submissions that previously had been on patent hold and are now cleared by the year in which they received their Notice of Compliance. The second graph and table show the average time, in days, that these submissions spent on patent hold.



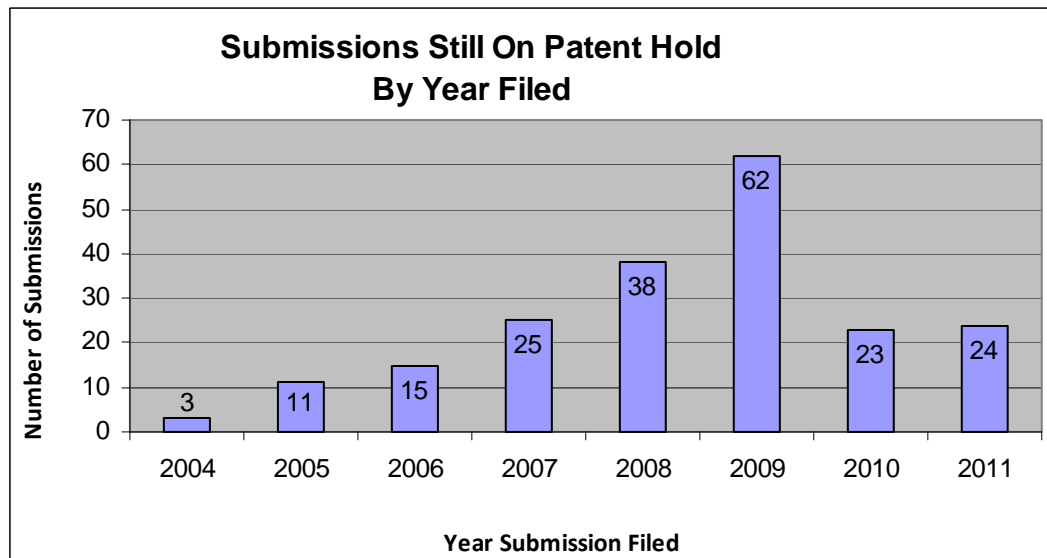
Year	2006	2007	2008	2009	2010	2011
Number of Submissions	60	58	96	133	155	160



Year	2006	2007	2008	2009	2010	2011
Number of Days	198	398	348	429	251	316

**Submissions Still on Patent Hold**

This graph and table show the number of submissions by year filed which were still on patent hold as of December 31, 2011. Note that some submissions may still be in review and are, therefore, not represented in this graph and table.



Year	2004	2005	2006	2007	2008	2009	2010	2011
<b>Number of Submissions Still on Patent Hold</b>	3	11	15	25	38	62	23	24

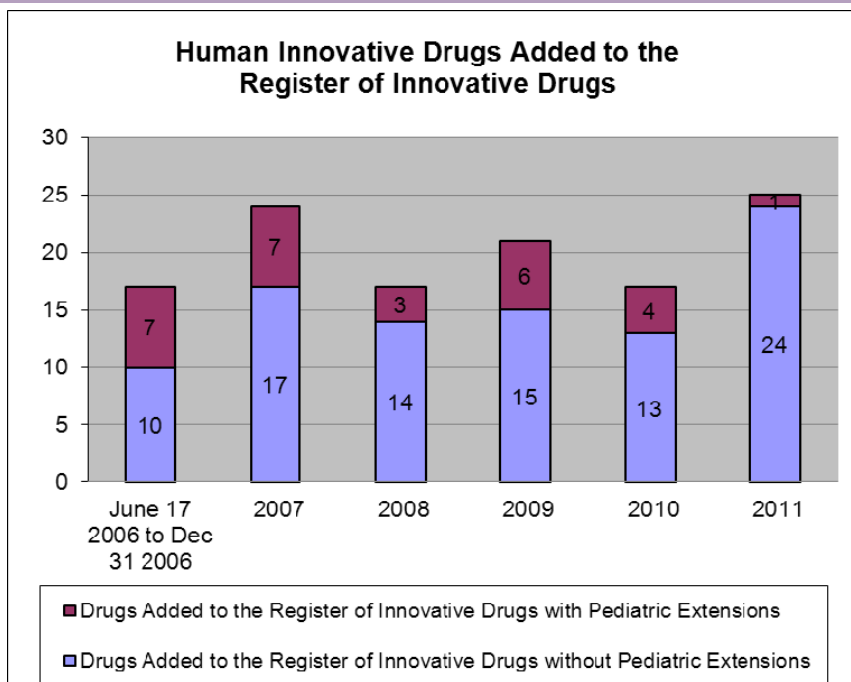




**Section III**  
**Statistics: Data Protection**  
**(C.08.004.1 of the *Food and Drug Regulations*)**

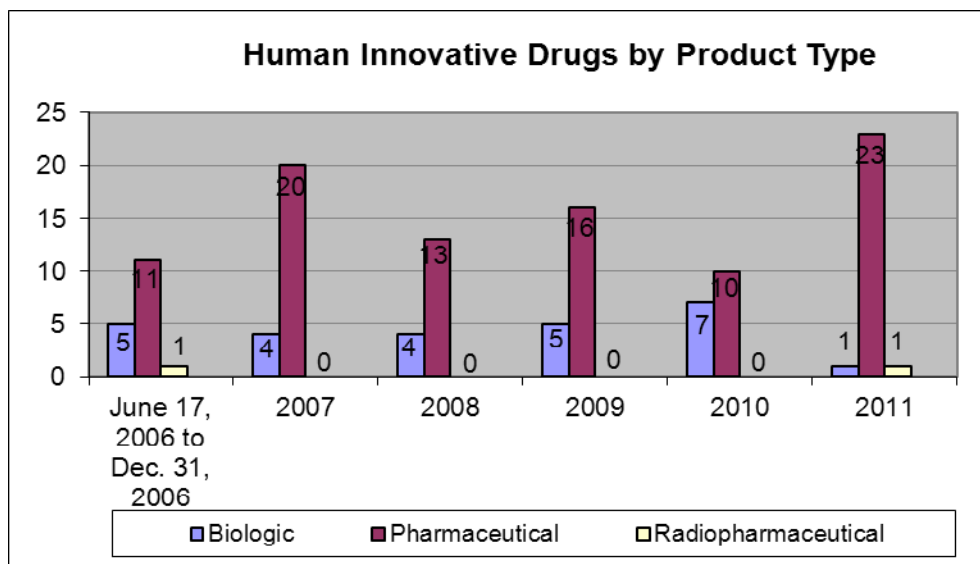
### Register of Innovative Drugs - Human Drugs

This graph and table display the number of human innovative drugs that were added to the Register of Innovative Drugs by Notice of Compliance date. Note that pediatric extensions for previously listed drugs may be added at a later date.



Year	June 17, 2006 to Dec 31, 2006	2007	2008	2009	2010	2011
Human Innovative Drugs with Pediatric Extensions	7	7	3	6	4	1
Human Innovative Drugs without Pediatric Extensions	10	17	14	15	13	24
<b>Total Human Innovative Drugs</b>	<b>17</b>	<b>24</b>	<b>17</b>	<b>21</b>	<b>17</b>	<b>25</b>

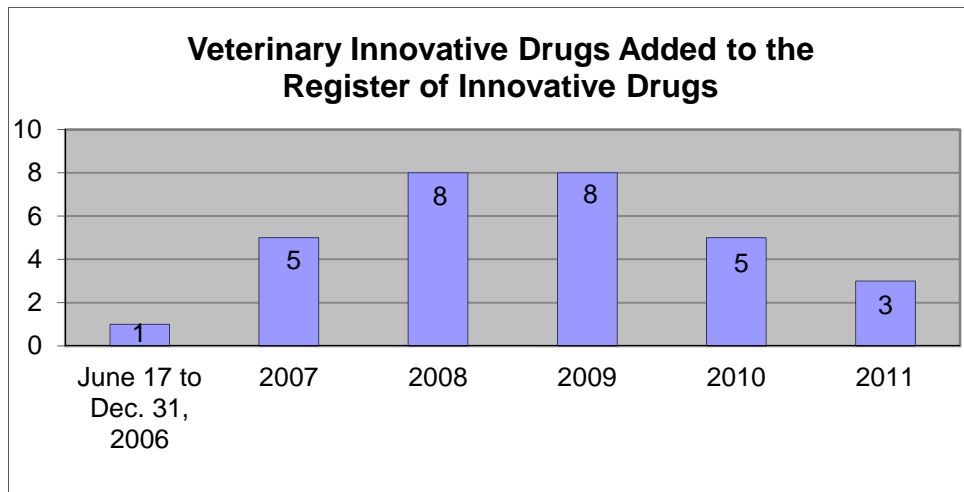
This graph and table display the number of human innovative drugs added to the Register of Innovative Drugs by product type.



Year	June 17, 2006 to Dec. 31, 2006	2007	2008	2009	2010	2011
<b>Biologic</b>	5	4	4	5	7	1
<b>Pharmaceutical</b>	11	20	13	16	10	23
<b>Radiopharmaceutical</b>	1	0	0	0	0	1

**Register of Innovative Drugs – Veterinary Drugs**

This graph and table display the number of veterinary innovative drugs that were added to the Register of Innovative Drugs by Notice of Compliance date.



Year	June 17, 2006 to Dec 31, 2006	2007	2008	2009	2010	2011
<b>Veterinary Innovative Drugs</b>	1	5	8	8	5	3

**Court Cases Concerning Data Protection Provisions (C.08.004.1) of the *Food and Drug Regulations***

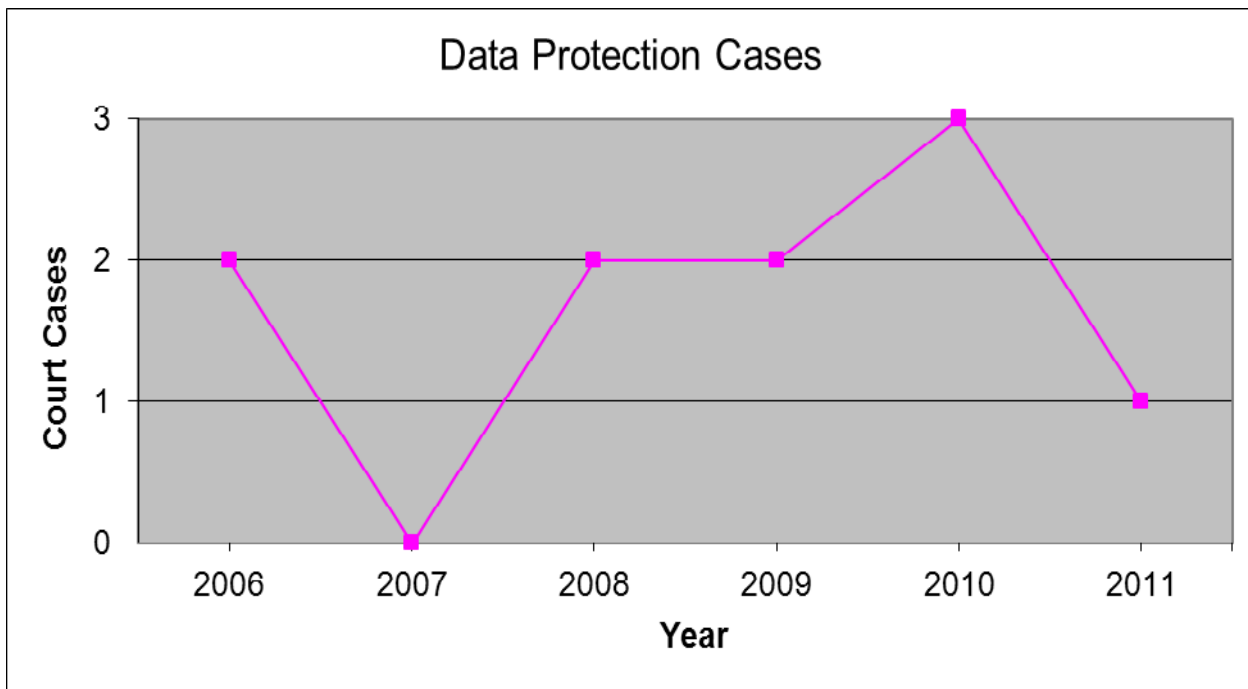
This table lists judicial review applications started in 2011 and changes which took place to ongoing cases during 2011. The applications were filed pursuant to section 18.1 of the *Federal Courts Act* with respect to decisions concerning the data protection provisions (C.08.004.1) of the *Food and Drug Regulations*. New cases and changes to open cases which occurred during the year are presented in bold.

<b>Federal Court/ Federal Court of Appeal/ Supreme Court of Canada</b>	<b>Style of Cause</b>	<b>Medicinal Ingredient(s)</b>	<b>Start Date</b>	<b>Close Date</b>	<b>Summary of Issue</b>
T-1976-06 (dismissed)  A-360-09 (dismissed) <b>34085</b> <b>(denied)</b>	Canadian Generic Pharmaceutical Association - and - The Governor in Council, The Minister of Health and The Attorney General of Canada	Not applicable	2006-11-14  2009-09-14 <b>2011-02-05</b>	2009-07-17  2010-12-09 <b>2011-07-14</b>	Challenge to the data protection provisions
T-2047-06 (dismissed)  A-352-09 (dismissed) <b>34084</b> <b>(denied)</b>	Apotex Inc. - and - The Minister of Health and The Attorney General of Canada	Not applicable	2006-11-22  2009-09-11 <b>2011-02-05</b>	2009-07-17  2010-12-09 <b>2011-07-14</b>	Challenge to the data protection provisions
T-2009-09 (dismissed)  <b>A-397-10</b> <b>(dismissed)</b>	EpiCept Corporation - and - The Minister of Health	histamine dihydrochloride	2009-12-01  2010-10-22	2010-09-24  <b>2011-06-22</b>	Eligibility for data protection; interpretation of “innovative drug” under section C.08.004.1(1)
T-152-10 <b>(dismissed)</b>  <b>A-189-11</b> <b>(dismissed)</b>	Canadian Generic Pharmaceutical Association - and - The Minister of Health and GlaxoSmithKline Inc.	fluticasone furoate	2010-02-03  <b>2011-05-16</b>	<b>2011-04-15</b>  <b>2011-12-15</b>	Eligibility for data protection; interpretation of “innovative drug” under section C.08.004.1(1)

<b>Federal Court/ Federal Court of Appeal/ Supreme Court of Canada</b>	<b>Style of Cause</b>	<b>Medicinal Ingredient(s)</b>	<b>Start Date</b>	<b>Close Date</b>	<b>Summary of Issue</b>
T-1172-10 (dismissed)  <b>A-215-11 (on-going)</b>	Teva Canada Limited - and - The Minister of Health and sanofi- aventis Canada Inc.	oxaliplatin	2010-07-21  <b>2011-06-01</b>	<b>2011-05-02</b>	Eligibility for data protection; interpretation of “innovative drug” under section C.08.004.1(1)
T-2044-10 (dismissed)	Takeda Canada Inc. - and - The Minister of Health, Attorney General of Canada	dexlansoprazole	2010-12-08	<b>2011-12-09</b>	Eligibility for data protection; interpretation of “innovative drug” under section C.08.004.1(1)
<b>T-148-11 (on-going)</b>	<b>Celgene Inc. – and – The Minister of Health</b>	<b>thalidomide</b>	<b>2011-02-03</b>		<b>Eligibility for data protection; interpretation of “innovative drug” under section C.08.004.1(1)</b>

**Data Protection Court Cases Initiated Per Year**

This graph and table represent the number of court proceedings with respect to data protection under (C.08.004.1) of the *Food and Drug Regulations*.



Year	2006	2007	2008	2009	2010	2011
Court Cases	2	0	2	2	3	1



## **Appendix A Definitions**

## Definitions

**Court:**

The Federal Court of Canada or any other superior court of competent jurisdiction.

**Discontinued:**

The cessation of court proceedings where the applicant voluntarily puts an end to the case, with or without leave of the court.

**Dismissed:**

The removal of a case from court, the termination of a case before trial or before a complete trial. In the case of the *Patented Medicines (Notice of Compliance) Regulations*, however, the dismissal indicates a decision at any point in the matter, either summary, as a result of a motion, or at the end of the proceeding following arguments (hearing).

**Drug Identification Number (DIN):**

The number located on the label of prescription and over-the-counter drug products that have been evaluated by the Therapeutic Products Directorate (TPD), Biologics and Genetic Therapies Directorate (BGTD) or Veterinary Drugs Directorate (VDD) and approved for sale in Canada. Once a drug has been approved, a DIN is issued which permits the manufacturer to market the drug in Canada.

**First Person:**

The person referred to in subsection 4(1) of the *Patented Medicines (Notice of Compliance) Regulations*, typically a brand name drug manufacturer.

**Innovative Drug:**

A drug that contains a medicinal ingredient not previously approved in a drug by the Minister and that is not a variation of a previously approved medicinal ingredient such as a salt, ester, enantiomer, solvate or polymorph.  
(C.08.004.1 (1), *Food and Drug Regulations*)

**Notice of Allegation:**

A notice issued under section 5 of the *Patented Medicines (Notice of Compliance) Regulations*. Such notices set out the nature of the generic manufacturer's challenge to a patent listed on the Patent Register.

**Notice of Compliance:**

Market authorization issued under section C.08.004 of the *Food and Drug Regulations*.

**Patent Hold:**

The period of time when, upon completion of the review of a submission, a Notice of Compliance would be issuable but for the provisions of the *Patented Medicines (Notice of Compliance) Regulations*.

**Patent List:**

Form IVs submitted by the first person pursuant to section 4 of the *Patented Medicines (Notice of Compliance) Regulations*.

**Patent Register:**

The register of patents and other information maintained by the Minister in accordance with subsection 3(2) of the *Patented Medicines (Notice of Compliance) Regulations*.

**Pending:**

A court case awaiting judgment.

**Prohibition Granted:**

An order of prohibition which prevents the Minister from issuing a Notice of Compliance.



**Prohibition Partially Granted:**

An order of prohibition applying to one or more but not to all patents that are the subject of a case under section 6 of the *Patented Medicines (Notice of Compliance) Regulations* where more than one patent is at issue.

**Register of Innovative Drugs**

The register maintained by the Minister in accordance with section C.08.004.1(9) of the *Food and Drug Regulations*.

**Second Person:**

The person referred to in section 5 of the *Patented Medicines (Notice of Compliance) Regulations*, typically a generic drug manufacturer.

**Submission:**

Any or all of: a new drug submission (NDS); an abbreviated new drug submission (ANDS); a supplement to a new drug submission (SNDS); a supplement to an abbreviated new drug submission (SANDS); and an extraordinary use new drug (EUNDS).