ANESTHESIOLOGY PROFILE

GENERAL INFORMATION
(Sources: Perspectives on Health Occupations, the Canadian Medical Residency Guide and Pathway Evaluation Program, Royal College)

Anesthesiology (anesthesia) is a diversified specialty requiring physicians to draw upon their knowledge of pharmacy and physiology and to utilize their technical skills in the provision of perioperative care, critical care, emergency care and pain management.

Anesthesiology is a relatively flexible, mobile specialty and is involved in the following settings:
- for surgery, anesthesiologists evaluate the patient’s overall health, plan techniques, choose agents, administer anesthesia, and monitor the effects of anesthesia and surgery on the patient’s vital functions;
- in the ICU, they care for critically ill patients by providing airway management, cardiac and pulmonary resuscitation, advanced life support and pain control;
- on the maternity ward, attend to the management of pain relief during childbirth;
- in pain clinics, anesthesiologists provide acute and chronic pain relief to a variety of patients.

Certain strengths may be needed to pursue this specialty such as the ability to perform under pressure, to think quickly in stressful situations, to use your hands and to work in a team.
environment. The opportunity to establish continuing, long-term physician / patient relationships is limited in this specialty.

Upon completion of medical school, to become certified in anesthesiology requires an additional 5 years of Royal College-approved residency training. This training includes:
- 1 year of basic clinical training; and
- 4 years of Royal College-approved training that must include: 30 months of Royal College-approved resident training in anesthesiology; 1 year of Royal College-approved resident training in internal medicine (to be undertaken preferably after a year of clinical training in anesthesiology); 6 months of training that may include further training in an approved anesthesiology program or research experience in a clinical or basic science department approved by the Royal College; and 6 months training in clinical pharmacology undertaken in an accredited program during the final residency year.

For more detailed training requirements go to:
[http://www.royalcollege.ca/portal/page/portal/rc/credentials/start/routes/traditional_route](http://www.royalcollege.ca/portal/page/portal/rc/credentials/start/routes/traditional_route)

Canadian Anesthesiologists' Society
[http://www.cas.ca/](http://www.cas.ca/)
### Number of physicians and physicians/100,000 population in Anesthesiology in Canada, 2016

<table>
<thead>
<tr>
<th>Province/Territory</th>
<th>Physicians</th>
<th>Phys/100k pop'n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newfoundland/Labrador</td>
<td>52</td>
<td>9.8</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>11</td>
<td>7.5</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>112</td>
<td>11.8</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>62</td>
<td>8.2</td>
</tr>
<tr>
<td>Quebec</td>
<td>761</td>
<td>9.2</td>
</tr>
<tr>
<td>Ontario</td>
<td>1218</td>
<td>8.8</td>
</tr>
<tr>
<td>Manitoba</td>
<td>131</td>
<td>10.0</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>105</td>
<td>9.2</td>
</tr>
<tr>
<td>Alberta</td>
<td>360</td>
<td>8.5</td>
</tr>
<tr>
<td>British Columbia</td>
<td>461</td>
<td>9.8</td>
</tr>
<tr>
<td>Territories</td>
<td>1</td>
<td>0.8</td>
</tr>
<tr>
<td><strong>Canada</strong></td>
<td><strong>3274</strong></td>
<td><strong>9.1</strong></td>
</tr>
</tbody>
</table>

Source: 2016 CMA Masterfile
Physicians/100,000 population in Anesthesiology in Canada, 1995 to 2016

Source: CMA Masterfile
Anesthesiologists by gender and year in Canada, 1995 to 2016

Source: CMA Masterfile
Anesthesiologists by age and gender in Canada, 2016

**Gender**
- Male: 68%
- Female: 32%

**Age Group**
- 34 and under: 6%
- 35 - 44: 26%
- 45 - 54: 27%
- 55 - 64: 29%
- 65 and over: 12%

Source: 2016 CMA Masterfile
Anesthesiologists by age and gender in Canada, 2016

Source: 2016 CMA Masterfile
Main work setting of Anesthesiologists in Canada, 2014

- Academic Health Sciences Centre: 42%
- Community Hospital: 34%
- Non-AHSC Teaching Hospital: 16%
- Private Office/Clinic: 4%
- Nursing home/long term care facility/seniors’ residence: 2%
- Free-standing Lab/Diag Clinic: 1%
- Admin/Corp office: 1%

Source: 2014 National Physician Survey. CFPC, CMA, Royal College
Practice organization for Anesthesiologists in Canada, 2014

Source: 2014 National Physician Survey. CFPC, CMA, Royal College
### Hours worked per week (excluding on-call) by Anesthesiologists in Canada, 2014

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours worked per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct patient care without teaching component</td>
<td>28.6</td>
</tr>
<tr>
<td>Direct patient care with teaching component</td>
<td>11.1</td>
</tr>
<tr>
<td>Teaching without patient care</td>
<td>1.4</td>
</tr>
<tr>
<td>Indirect patient care</td>
<td>1.9</td>
</tr>
<tr>
<td>Health facility committees</td>
<td>0.9</td>
</tr>
<tr>
<td>Administration</td>
<td>2.1</td>
</tr>
<tr>
<td>Research</td>
<td>0.8</td>
</tr>
<tr>
<td>Managing practice</td>
<td>1.3</td>
</tr>
<tr>
<td>Continued professional development</td>
<td>2.9</td>
</tr>
<tr>
<td>Other</td>
<td>0.7</td>
</tr>
<tr>
<td><strong>TOTAL HOURS PER WEEK</strong></td>
<td><strong>51.6</strong></td>
</tr>
</tbody>
</table>

Source: 2014 National Physician Survey. CFPC, CMA, Royal College
On-call duty hours spent per month by Anesthesiologists in Canada, 2014

- Up to 120 hrs/month: 87%
- More than 120, up to 180 hrs/month: 3%
- More than 180, up to 240 hrs/month: 1%
- More than 240 hrs/month: 0%
- No response: 0%

Time spent on call in direct patient care = 52 hrs./month

Source: 2014 National Physician Survey. CFPC, CMA, Royal College
Remuneration for Anesthesiologists in Canada

Average gross clinical earnings for Anesthesiology in 2013/14 (those earning at least $60,000) = $361,681

Average percent overhead reported by all medical specialists in 2010 = 20%

Primary payment method in 2013

- 90% + fee-for-service: 61%
- 90% + salary: 3%
- 90% + other*: 6%
- Blended: 27%
- NR: 3%

* Other includes capitation, sessional, contract and other methods

1 National Physician Survey, 2013, CFPC, CMA, Royal College
2 National Physician Database, 2013/14, CIHI
3 National Physician Survey, 2010, CFPC, CMA, Royal College
Satisfaction among Anesthesiologists in Canada, 2013

Balance of personal & professional commitments
- Very dissatisfied: 6%
- Dissatisfied: 4%
- Neutral: 16%
- Satisfied: 21%
- Very satisfied: 41%
- NR: 13%

Current professional life
- Very dissatisfied: 3%
- Dissatisfied: 6%
- Neutral: 11%
- Satisfied: 52%
- Very satisfied: 22%

Source: 2013 National Physician Survey. CFPC, CMA, Royal College
Number of **Anesthesiologists** who retired during the THREE year period of 2013 to 2015

Source: CMA Masterfile – year over year comparisons

Note: “Retired” is based on giving up licence and is therefore excludes those who have retired from clinical practice but are still licensed; those younger than 45 may include physicians who have temporarily given up their licence but return to practice at a later date.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 and Under</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>35-44</td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>45-54</td>
<td>22</td>
<td>14</td>
<td>36</td>
</tr>
<tr>
<td>55-64</td>
<td>112</td>
<td>24</td>
<td>136</td>
</tr>
<tr>
<td>65 and over</td>
<td>40</td>
<td>40</td>
<td>80</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>135</td>
<td>40</td>
<td>175</td>
</tr>
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# Total and Ministry funded postgraduate MD trainees in 2014/15 – Anesthesiology

<table>
<thead>
<tr>
<th>Faculty of Medicine</th>
<th>Ministry funded</th>
<th>Total</th>
<th>Faculty of Medicine</th>
<th>Ministry funded</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUN</td>
<td>20</td>
<td>20</td>
<td>McMaster U</td>
<td>39</td>
<td>43</td>
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<tr>
<td>Dalhousie U</td>
<td>27</td>
<td>30</td>
<td>UWO</td>
<td>44</td>
<td>63</td>
</tr>
<tr>
<td>U Laval</td>
<td>44</td>
<td>44</td>
<td>NOSM</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>U Sherbrooke</td>
<td>29</td>
<td>29</td>
<td>U Manitoba</td>
<td>28</td>
<td>38</td>
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<tr>
<td>U Montréal</td>
<td>46</td>
<td>48</td>
<td>U Sask</td>
<td>30</td>
<td>31</td>
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<tr>
<td>McGill U</td>
<td>34</td>
<td>50</td>
<td>U Alberta</td>
<td>29</td>
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<tr>
<td>U Ottawa</td>
<td>47</td>
<td>62</td>
<td>U Calgary</td>
<td>33</td>
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<tr>
<td>Queens U</td>
<td>25</td>
<td>28</td>
<td>UBC</td>
<td>55</td>
<td>70</td>
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<tr>
<td>U Toronto</td>
<td>100</td>
<td>201</td>
<td>Canada</td>
<td>634</td>
<td>831</td>
</tr>
</tbody>
</table>

Source: 2014/15 Annual Census of Post-MD Trainees, CAPER
First year and exiting postgraduate-MD trainees in 2014/15 – Anesthesiology

Source: 2014/15 Annual Census of Post-MD Trainees, CAPER
Postgraduate-MD trainees in 2014/15 – Anesthesiology

• Total of 114 first year Anesthesiology trainees representing 18% of all Anesthesiology trainees.

• Total of 633 Anesthesiology trainees representing 5% of all Ministry funded trainees.

• Total of 120 visa trainees in Anesthesiology.

• Total of 124 Anesthesiology trainees completed postgraduate training in 2014.

Source: 2014/15 Annual Census of Post-MD Trainees, CAPER
Of the 132 exits in 2013, 116 (88%) were known to be practising in Canada.

Source: 2014/15 Annual Census of Post-MD Trainees, CAPER
Stress associated with finding employment at end of residency

Source: 2012 National Physician Survey of residents. CFPC, CMA, Royal College
Links to the organizations supplying information for this document

National Physician Survey
http://www.nationalphysiciansurvey.ca

Canadian Medical Association
http://www.cma.ca/pdc

Association of Faculties of Medicine of Canada
http://www.caper.ca/

Royal College of Physicians and Surgeons of Canada
http://www.royalcollege.ca/portal/page/portal/rc/credentials/start/routes/traditional_route

College of Family Physicians of Canada
http://www.cfpc.ca

Canadian Institute for Health Information
http://www.cihi.ca