Appendix 5 - Trends Over Time

1) All Practices

Figure: Inappropriate Health Care in Canada Over Time (All Practices)
Figure: Inappropriate Health Care in Canada Over Time by Sub-category (All Practices)
## Table: Inappropriate Health Care in Canada Over Time (All Practices)

| Category of Care (ALL) | 2009-2017 | | | 2018-2020 | | |
|------------------------|-----------|---|---|-----------|---|---|
|                        | N Total Practices | N Studies (Findings) | Median (IQR) | N Total Practices | N Studies (Findings) | Median (IQR) |
| Diagnostics            |           |               |               |           |               |               |
| Laboratory             | 3         | 5 (6)         | 46% (31%-69%) | 3         | 4 (5)         | 65% (17%-77%) |
| Referrals              | 6         | 8 (10)        | 43% (28%-63%) | 3         | 3 (3)         | *55% (34%-55%) |
| Assessments            | 21        | 22 (43)       | 42% (22%-66%) | 18        | 9 (23)        | 37% (29%-57%) |
| Screening              | 7         | 9 (9)         | 51% (11%-76%) | 7         | 8 (12)        | 20% (6%-63%)  |
| Blood                  | 16        | 16 (43)       | 25% (18%-41%) | 14        | 11 (24)       | 23% (4%-40%)  |
| Imaging                | 25        | 23 (45)       | 19% (5%-32%)  | 19        | 10 (32)       | 12% (3%-26%)  |
| Sub-total              | 78        | 52 (154)      | 28% (17%-50%) | 64        | 35 (99)       | 27% (7%-42%)  |
| Therapeutics           |           |               |               |           |               |               |
| Acute Care Procedures  | 7         | 8 (9)         | 52% (19%-90%) | 4         | 4 (7)         | 55% (22%-65%) |
| Biophysical Therapy    | 20        | 14 (24)       | 54% (18%-85%) | 12        | 14 (18)       | 39% (18%-59%) |
| Psychosocial Therapy   | 7         | 8 (21)        | 36% (18%-56%) | 3         | 3 (10)        | 45% (33%-54%) |
| Medications            | 39        | 38 (74)       | 41% (19%-67%) | 41        | 32 (85)       | 14% (2%-53%)  |
| Sub-total              | 73        | 58 (128)      | 42% (19%-67%) | 60        | 50 (120)      | 25% (4%-55%)  |
| Total                  | 151       | 92 (282)      | 33% (18%-59%) | 124       | 80 (219)      | 26% (5%-52%)  |

*Only 3 data points, range provided

Note:
- Multiple Diagnostics and Acute Care omitted, only one data point in 2018-2020
- Multiple Therapeutics removed only one data point in 2009-2017
2) Underused Practices

Figure: Inappropriate Health Care in Canada Over Time (Underuse)
Figure: Inappropriate Health Care in Canada Over Time by Sub-category (Underuse)
Table: Inappropriate Health Care in Canada Over Time (Underuse)

| Category of Care (UNDERUSE) | 2009-2017 | 2018-2020 |
|-----------------------------|-----------|-----------|
|                             | N Total Practices | N Studies (Findings) | Median (IQR) | N Total Practices | N Studies (Findings) | Median (IQR) |
| Diagnostics                 |             |           |               |               |                   |               |
| Laboratory                  | 3          | 5 (6)     | 46% (31%-69%) | 3          | 4 (5)     | 65% (17%-77%) |
| Referrals                   | 5          | 7 (8)     | 44% (23%-76%) | 3          | 3 (3)     | 55% (-)      |
| Assessments                 | 17         | 17 (37)   | 45% (23%-66%) | 17         | 8 (22)    | 37% (28%-60%) |
| Screening                   | 5          | 5 (5)     | 73% (35%-86%) | 3          | 4 (5)     | 66% (42%-84%) |
| Blood                       | 10         | 10 (29)   | 25% (19%-51%) | 4          | 4 (13)    | 31% (17%-53%) |
| Imaging                     | 12         | 12 (21)   | 21% (11%-34%) | 4          | 3 (4)     | 37% (-)      |
| Sub-total                   | 55         | 32 (110)  | 33% (20%-58%) | 35         | 20 (53)   | 37% (27%-66%) |
| Therapeutics                |             |           |               |               |                   |               |
| Biophysical Therapy         | 12         | 15 (15)   | 65% (51%-93%) | 8          | 10 (13)   | 47% (28%-61%) |
| Psychosocial Therapy        | 7          | 8 (21)    | 36% (18%-56%) | 3          | 3 (10)    | 45% (33%-54%) |
| Medications                 | 26         | 21 (52)   | 46% (21%-70%) | 14         | 14 (19)   | 63% (37%-77%) |
| Sub-total                   | 51         | 34 (95)   | 50% (24%-71%) | 26         | 27 (43)   | 52% (34%-70%) |
| Total                       | 106        | 53 (205)  | 43% (21%-67%) | 61         | 42 (96)   | 48% (29%-66%) |

*Only 3 data points, range provided

Note:
- Multiple Diagnostics and Acute Care omitted, only one data point in 2018-2020
- Multiple Therapeutics removed only one data point in 2009-2017
3) Overused Practices

Figure: Inappropriate Health Care in Canada Over Time (Overuse)
Figure: Inappropriate Health Care in Canada Over Time by Sub-category (Overuse)
### Table: Inappropriate Health Care in Canada Over Time (Overuse)

| Category of Care (OVERUSE) | 2009-2017 | 2018-2020 |
|----------------------------|-----------|-----------|
|                            | N Total Practices | N Studies (Findings) | Median (IQR) | N Total Practices | N Studies (Findings) | Median (IQR) |
| **Diagnostics**             |            |           |              |                |           |              |
| Screening                   | 3          | 4 (4)     | 20% (-)      | 4              | 4 (7)      | 14% (2%-18%) |
| Blood                       | 7          | 6 (12)    | 24% (12%-34%)| 10             | 7 (11)     | 4% (1%-35%)  |
| Imaging                     | 18         | 12 (24)   | 11% (3%-28%) | 17             | 9 (28)     | 7% (3%-21%)  |
| **Sub-total**               | 35         | 25 (48)   | 19% (7%-28%) | 32             | 17 (47)    | 6% (2%-22%)  |
| **Therapeutics**            |            |           |              |                |           |              |
| Acute Care Procedures       | 2          | 3 (3)     | 16% (-)      | 3              | 3 (6)      | 50% (20%-60%)|
| Biophysical Therapy         | 8          | 8 (9)     | 22% (5%-32%) | 5              | 4 (5)      | 10% (4%-41%) |
| Medications                 | 13         | 18 (22)   | 38% (12%-49%)| 32             | 21 (66)    | 5% (1%-26%)  |
| **Sub-total**               | 23         | 29 (34)   | 27% (11%-46%)| 40             | 26 (77)    | 8% (1%-27%)  |
| **Total**                   | **58**     | **52 (82)**| **22% (7%-37%)** | **43**        | **124**    | **8% (1%-26%)** |

* Only 3 data points, range provided

**Note:**
- Laboratory, Multiple Diagnostics, Psychosocial Therapy, Multiple Therapeutics omitted, no data points for 2009-2017 and 2018-2020
- Referrals omitted because no data points 2018-2020
- Assessments omitted because only one data point 2018-2020