

Productivity Decline or Administrative Avalanche? Examining Factors That Shape Changing Workloads in Primary Care

Baisse de productivité ou avalanche administrative? Examen des facteurs qui façonnent l'évolution des charges de travail en soins primaires

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Appendix 1.

TABLE A1. Reasons for exclusion and classification as non-community-based physicians in 1999/2000 and 2017/2018

	1999/2000	2017/2018
Total FPs in data	4,330	6,219
Exclusions		
<100 patient contacts	208	191
<50 billing days	245	384
Missing grad year or in practice <2 years since MD	76	<5
Reasons for classification as non-community-based FP (80% or more of visits in one of the following)		
Non-community-based location	175 (106 have 80% or more visits in ED, 47 have 80% or more visits in hospital) Remainder have majority of visits in both ED plus hospital ([14] or unknown locations)	845 (393 have 80% or more visits in ED, 381 have 8% or more visits in hospital) Remainder have majority of visits in both ED plus hospital ([52] or unknown locations)
Surgical assistance or anesthesiology	49 (10 after removing overlap with non-community-based location)	87 (11 after removing overlap with non-community-based location)
Mental health or substance use	24	51
Other (musculoskeletal complaints [sports medicine], perinatal services, cancer care)	21 (19 after removing overlap with non-community-based location)	88 (48 after removing overlap with other categories)

ED = emergency department; FP = family physician.

TABLE A2. Description of FPs by percentage of billings in focused practice areas or settings in 1999/2000

1999/2000	<50%	50-60%	60-70%	70-80%	80-90%	90-100%
Number of physicians (percentage of total within year)	3,490 (91.8%)	34 (0.9%)	26 (0.7%)	23 (0.6%)	34 (0.9%)	194 (5.1%)
Physician characteristics (n, %)						
Years in practice						
<10	975 (27.9)	7 (20.6)	12 (46.2)	6 (26.1)	9 (26.5)	59 (30.4)
10-19	1,130 (32.4)	15 (44.1)	9 (34.6)	6 (26.1)	15 (44.1)	56 (28.9)
20+	1,385 (39.7)	12 (35.3)	5 (19.2)	11 (47.8)	10 (29.4)	79 (40.7)
Gender						
Women	1,066 (30.5)	7 (20.6)	6 (23.1)	1-4 (4.3-17.4)	1-4 (2.9-11.8)	39 (20.1)
Men	2,424 (69.5)	27 (79.4)	20 (76.9)	19-22 (82.6-95.7)	30-33 (88.2-97.1)	155 (79.9)
Urban/rural						
Urban (MIZ 1-3)	3,053 (87.5)	27 (79.4)	22-25 (84.6-96.2)	19-22 (82.6-95.7)	30-33 (88.2-97.1)	186 (95.9)
Rural (MIZ 4-7)	437 (12.5)	7 (20.6)	1-4 (3.8-15.4)	1-4 (4.3-17.4)	1-4 (2.9-11.8)	8 (4.1)
Location of MD*						
Canada	2,612 (76.1)	26 (78.8)	21-24 (84.0-96.0)	16 (72.7)	26 (76.5)	162 (86.6)
International	820 (23.9)	7 (21.2)	1-4 (4.0-16.0)	6 (27.3)	8 (23.5)	25 (13.4)
Service volume within year (mean, SD)						
Days billed	232.5 (64.0)	209.1 (76.8)	195.0 (69.7)	215.5 (65.5)	183.6 (66.7)	166.4 (59.5)

1999/2000	<50%	50-60%	60-70%	70-80%	80-90%	90-100%
Unique patients seen	1,932.5 (1,126.3)	1,568.0 (1,013.5)	1,813.6 (1,384.9)	2,402.6 (1,924.8)	2,042.3 (1,695.4)	1,715.9 (1,489.4)
Unique patients seen in community	1,781.6 (1,087.2)	1,051.5 (630.6)	940.6 (746.1)	886.7 (593.4)	495.2 (309.0)	118.2 (299.3)
Total patient contacts	5,574.4 (2,837.6)	5,402.8 (4,582.4)	4,460.5 (3,513.9)	46,13.7 (3,850.7)	3,384.9 (2,961.3)	2,303.4 (1,732.3)
Community patient contacts	5,061.9 (2,656.8)	2,781.9 (2,398.4)	2,075.9 (1,947.8)	1,282.0 (934.7)	852.9 (978.5)	258.4 (930.7)
Reason for classification as non-community-based based (both can co-occur)						
Location	0 (0.0)	13 (38.2)	14 (53.8)	12 (52.2)	21 (61.8)	154 (79.4)
Service area	0 (0.0)	22 (64.7)	13 (50.0)	13 (56.5)	15 (44.1)	79 (40.7)

*68 physicians with unknown location of MD are excluded.
FP = family physician.

TABLE A3. Description of FPs by percentage of billings in focused practice areas or settings in 2017/2018

2017/2018	<50%	50-60%	60-70%	70-80%	80-90%	90-100%
Number of physicians (percentage of total within year)	4,398 (78.0%)	112 (2.0%)	75 (1.3%)	101 (1.8%)	115 (2.0%)	840 (14.9%)
Physician characteristics (n, %)						
Years in practice						
<10	1,051 (23.9)	53 (47.3)	22 (29.3)	42 (41.6)	35 (30.4)	236 (28.1)
10-19	916 (20.8)	22 (19.6)	16 (21.3)	21 (20.8)	27 (23.5)	217 (25.8)
20-29	1,199 (27.3)	19 (17.0)	22 (29.3)	23 (22.8)	32 (27.8)	228 (27.1)
30+	1,232 (28.0)	18 (16.1)	15 (20.0)	15 (14.9)	21 (18.3)	159 (18.9)
Gender						
Women	1,947 (44.3)	54 (48.2)	31 (41.3)	40 (39.6)	51 (44.3)	285 (33.9)
Men	2,451 (55.7)	58 (51.8)	44 (58.7)	61 (60.4)	64 (55.7)	555 (66.1)

2017/2018	<50%	50-60%	60-70%	70-80%	80-90%	90-100%
Urban/rural						
Urban (MIZ 1-3)	3,796 (86.3)	99 (88.4)	64 (85.3)	92 (91.1)	106 (92.2)	803 (95.6)
Rural (MIZ 4-7)	602 (13.7)	13 (11.6)	11 (14.7)	9 (8.9)	9 (7.8)	37 (4.4)
Location of MD*						
Canada	2,729 (63.6)	82 (73.9)	55 (74.3)	73 (72.3)	91 (81.3)	687 (83.8)
International	1,559 (36.4)	29 (26.1)	19 (25.7)	28 (27.7)	21 (18.8)	133 (16.2)
Service volume within year (mean, SD)						
Days billed	195.5 (62.3)	173.4 (65.8)	169.4 (64.3)	159.9 (59.4)	154.7 (56.8)	140.8 (46.0)
Unique patients seen	1,729.8 (1,201.5)	1,279.1 (889.3)	1,393.8 (1,103.6)	1,193.6 (887.5)	1,053.7 (909.1)	1,301.1 (1,120.6)
Unique patients seen in community	1,627.2 (1,202.4)	762.9 (568.7)	747.4 (699.1)	460.2 (332.9)	409.2 (448.1)	49.4 (192.9)
Total patient contacts	4,494.4 (2,765.9)	3,077.5 (2,449.6)	3,826.1 (4,639.2)	2,388.5 (1,812.4)	3,258.7 (3,723.1)	2,048.8 (1,659.8)
Community patient contacts	4,226.9 (2,724.5)	1,586.4 (1,333.2)	1,551.0 (1,816.3)	811.4 (832.5)	835.5 (1,083.3)	104.9 (525.0)
Reason for classification as non-community-based based (both can co-occur)						
Location	0 (0.0)	63 (56.3)	50 (66.7)	73 (72.3)	69 (60.0)	777 (92.5)
Service area	0 (0.0)	54 (48.2)	30 (40.0)	39 (38.6)	60 (52.2)	169 (20.1)

*135 physicians with unknown location of MD are excluded.
FP = family physician.