

Understanding CANDI Gross Daily Income Calculations FFS and Primary Care Model Calculations

Pure Fee-For-Service Models:

- The following is a hypothetical scenario.
 - Imagine that Doctors “A” to “T” (20 doctors) represent all doctors in a particular Section.
 - Also imagine that the depicted week is actually representative of an entire year. For simplicity, this could be multiplied by an average of 48 weeks per year (accounting for 4 weeks of vacation per year).
 - The same concepts and calculations would apply when extrapolated to hundreds or thousands of doctors for an entire year.
 - This is the way CANDI Fee-For-Service (FFS) income is calculated for all Sections, including pure FFS in family medicine, as well as the FFS component in patient enrollment models (FHOs, FHNs, FHGs).

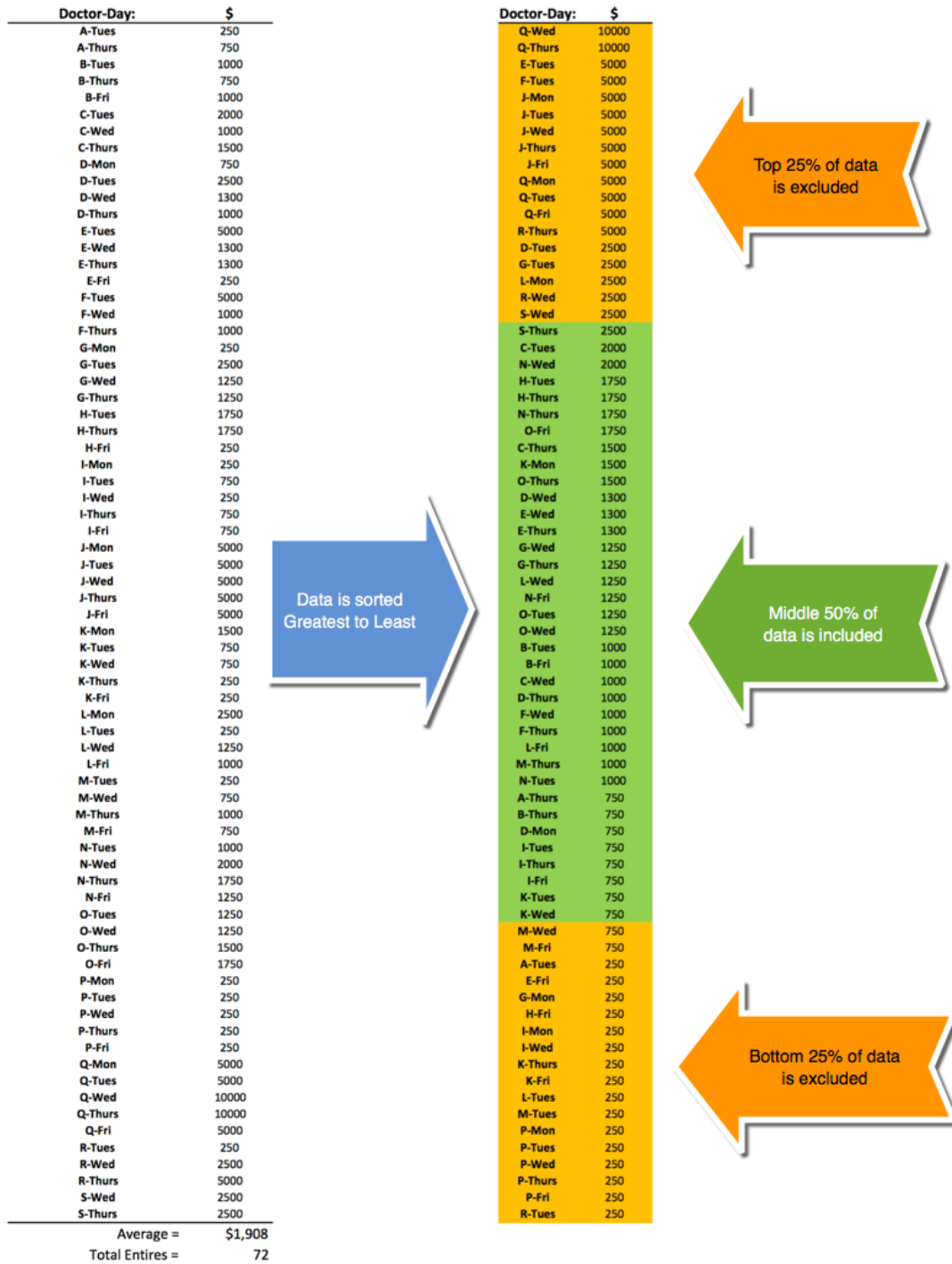
Doctor	Daytime Billings (Not Including After-Hours) (\$)							Doctor	# Days Billed/Week	# Days Billed/Year <i>(avg 48 wks/yr)</i>
	Mon 9-Jan-17	Tues 10-Jan-17	Wed 11-Jan-17	Thurs 1-Dec-17	Fri 13-Jan-17	Sat 14-Jan-17	Sun 15-Jan-17			
A	0	250	0	750	0	0	0	A	2	96
B	0	1000	0	750	1000	1500	1500	B	5	240
C	0	2000	1000	1500	0	0	0	C	3	144
D	750	2500	1300	1000	0	0	0	D	4	192
E	0	5000	1300	1300	250	0	0	E	4	192
F	0	5000	1000	1000	0	0	0	F	3	144
G	250	2500	1250	1250	0	0	0	G	4	192
H	0	1750	0	1750	250	2500	0	H	4	192
I	250	750	250	750	750	250	0	I	6	288
J	5000	5000	5000	5000	5000	5000	0	J	6	288
K	1500	750	750	250	250	1250	1500	K	7	336
L	2500	250	1250	0	1000	2500	0	L	5	240
M	0	250	750	1000	750	0	0	M	4	192
N	0	1000	2000	1750	1250	2500	2500	N	6	288
O	0	1250	1250	1500	1750	0	0	O	4	192
P	250	250	250	250	250	0	0	P	5	240
Q	5000	5000	10000	10000	5000	0	0	Q	5	240
R	0	250	2500	5000	0	1250	0	R	4	192
S	0	0	2500	2500	0	0	0	S	2	96
T	0	0	0	0	0	10000	500	T	2	96
# Billing Doctors	8	18	16	18	12	9	4	Avg =	4.25	204
Total Billings (\$)	\$15,500	\$34,750	\$32,350	\$37,300	\$17,500	\$26,750	\$6,000	Total =	85	
Avg \$ per BILLING doctor	\$1,938	\$1,931	\$2,022	\$2,072	\$1,458	\$2,972	\$1,500			

- The greyed zeros represent days on which the doctor did not submit any OHIP billings.
- The numbers depicted already exclude after-hours billings.

- For Fee-For-Service billings, CANDI excludes all weekend billings, so Saturday and Sunday numbers are removed below:
- If applicable, it would also exclude Statutory Holidays.

Doctor	Daytime Billings (Not Including After-Hours) (\$)				
	<i>Mon</i>	<i>Tues</i>	<i>Wed</i>	<i>Thurs</i>	<i>Fri</i>
	<i>9-Jan-17</i>	<i>10-Jan-17</i>	<i>11-Jan-17</i>	<i>1-Dec-17</i>	<i>13-Jan-17</i>
A	0	250	0	750	0
B	0	1000	0	750	1000
C	0	2000	1000	1500	0
D	750	2500	1300	1000	0
E	0	5000	1300	1300	250
F	0	5000	1000	1000	0
G	250	2500	1250	1250	0
H	0	1750	0	1750	250
I	250	750	250	750	750
J	5000	5000	5000	5000	5000
K	1500	750	750	250	250
L	2500	250	1250	0	1000
M	0	250	750	1000	750
N	0	1000	2000	1750	1250
O	0	1250	1250	1500	1750
P	250	250	250	250	250
Q	5000	5000	10000	10000	5000
R	0	250	2500	5000	0
S	0	0	2500	2500	0
T	0	0	0	0	0
<i># Billing Doctors</i>	8	18	16	18	12
<i>Total Billings (\$)</i>	\$15,500	\$34,750	\$32,350	\$37,300	\$17,500
<i>Avg \$ per BILLING doctor</i>	\$1,938	\$1,931	\$2,022	\$2,072	\$1,458

- CANDI takes all the individual billing occurrences, excluding all the \$0 billings.
 - In the diagram below, “A-Tues” corresponds to the \$250 that Doctor A billed on Tuesday, and so forth ...
- Then, as per the revision the Board made to CANDI in Oct 2017, the Top and Bottom Quartiles of data are excluded.



- Once the Top and Bottom Quartiles are excluded, that leaves the following:

Doctor-Day:	\$
S-Thurs	2500
C-Tues	2000
N-Wed	2000
H-Tues	1750
H-Thurs	1750
N-Thurs	1750
O-Fri	1750
C-Thurs	1500
K-Mon	1500
O-Thurs	1500
D-Wed	1300
E-Wed	1300
E-Thurs	1300
G-Wed	1250
G-Thurs	1250
L-Wed	1250
N-Fri	1250
O-Tues	1250
O-Wed	1250
B-Tues	1000
B-Fri	1000
C-Wed	1000
D-Thurs	1000
F-Wed	1000
F-Thurs	1000
L-Fri	1000
M-Thurs	1000
N-Tues	1000
A-Thurs	750
B-Thurs	750
D-Mon	750
I-Tues	750
I-Thurs	750
I-Fri	750
K-Tues	750
K-Wed	750
Average =	\$1,233
Total Entries =	36

In this example, the average Gross Daily Income (GDI) would be \$1,233

Calculating the Gross Daily Income in FHOs:

The calculations for FHOs are more complex because income is paid under different categories, including:

- Pure Fee-For-Service billings that are “out of the FHO basket” and thus paid at 100% value.
- Shadow Fee-For-Service Billings that are “in the basket” and thus paid at 15%.
- Capitation Payments
- CCM Fee
- Access Bonus

For the sake of simplicity in these illustrations,

- Both Pure FFS and Shadow FFS will be grouped together as they are both calculated the same way.
- Only the method for calculating Capitation payments will be shown, but the exact same method applies to the CCM Fee and the Access Bonus.

Important:

- As per a revision to CANDI that the OMA Board approved in October 2017, Capitation Payments, CCM Fees, and Access Bonuses are all divided by the average number of days that FHO physicians bill OHIP per year (based on Fee-For-Service billings).
- Precisely how this is calculated is illustrated below.

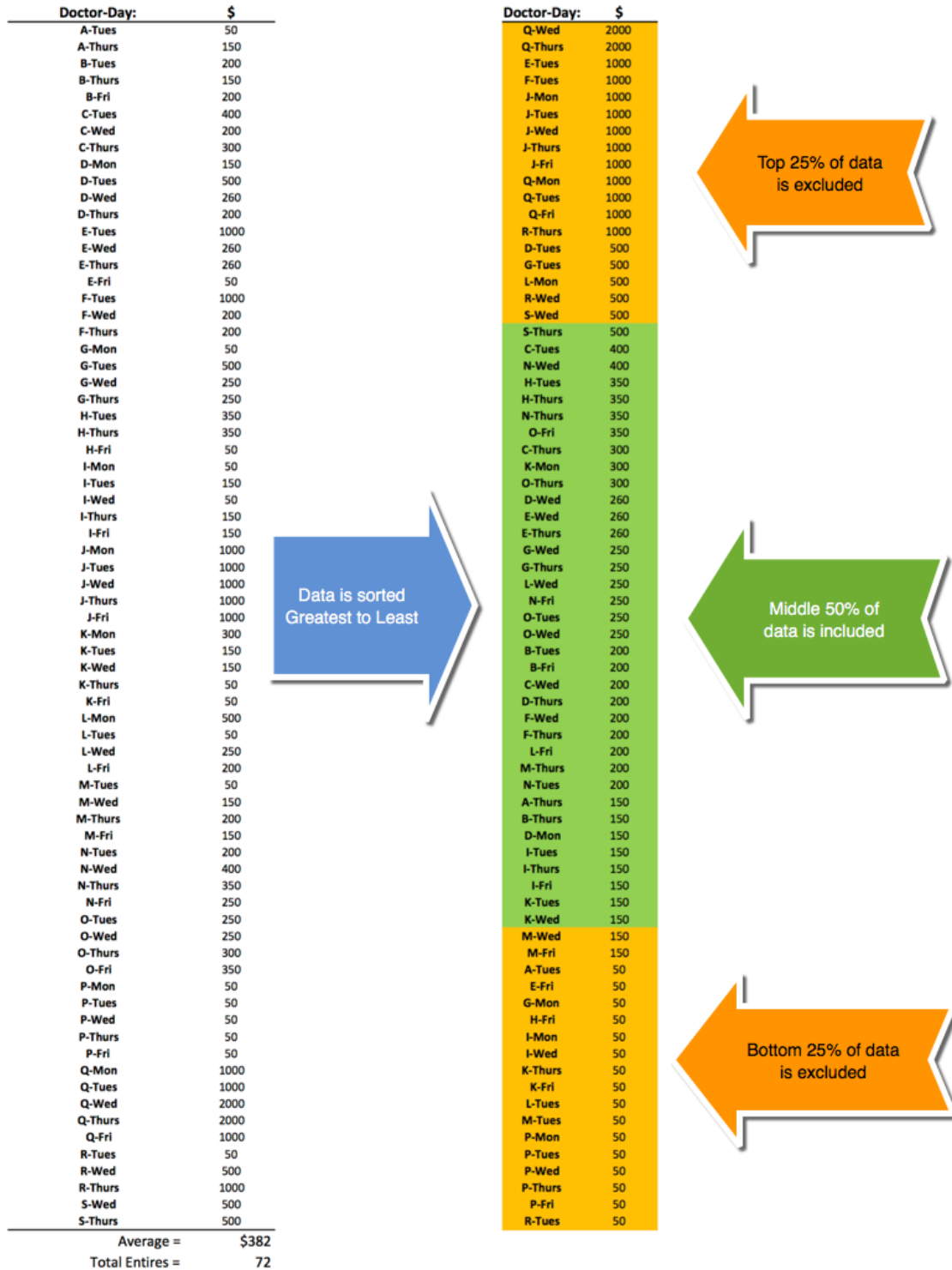
- The following is a hypothetical scenario similar to that shown for pure FFS.
 - Imagine that Doctors "A" to "T" (20 doctors) represent all doctors in FHOs.
 - Also imagine that the depicted week is actually representative of an entire year. For simplicity, this could be multiplied by an average of 48 weeks per year (accounting for 4 weeks of vacation per year).
 - The same concepts and calculations would apply when extrapolated to thousands of doctors for an entire year.

Doctor	Daytime FFS + Shadow Billings (Not Including After-Hours) (\$)							Doctor	# Days Billed/Week	# Days Billed/Year (avg 48 wks/yr)
	Mon	Tues	Wed	Thurs	Fri	Sat	Sun			
	9-Jan-17	10-Jan-17	11-Jan-17	1-Dec-17	13-Jan-17	14-Jan-17	15-Jan-17			
A	0	50	0	150	0	0	0	A	2	96
B	0	200	0	150	200	300	300	B	5	240
C	0	400	200	300	0	0	0	C	3	144
D	150	500	260	200	0	0	0	D	4	192
E	0	1000	260	260	50	0	0	E	4	192
F	0	1000	200	200	0	0	0	F	3	144
G	50	500	250	250	0	0	0	G	4	192
H	0	350	0	350	50	500	0	H	4	192
I	50	150	50	150	150	50	0	I	6	288
J	1000	1000	1000	1000	1000	1000	0	J	6	288
K	300	150	150	50	50	250	300	K	7	336
L	500	50	250	0	200	500	0	L	5	240
M	0	50	150	200	150	0	0	M	4	192
N	0	200	400	350	250	500	500	N	6	288
O	0	250	250	300	350	0	0	O	4	192
P	50	50	50	50	50	0	0	P	5	240
Q	1000	1000	2000	2000	1000	0	0	Q	5	240
R	0	50	500	1000	0	250	0	R	4	192
S	0	0	500	500	0	0	0	S	2	96
T	0	0	0	0	0	2000	100	T	2	96
# Billing Doctors	8	18	16	18	12	9	4	Avg =	4.25	204
Total Billings (\$)	\$3,100	\$6,950	\$6,470	\$7,460	\$3,500	\$5,350	\$1,200	Total =	85	
Avg \$ per BILLING doctor	\$388	\$386	\$404	\$414	\$292	\$594	\$300			

- CANDI excludes weekends (and Statutory Holidays, if applicable) for FFS billings:

Doctor	Daytime FFS + Shadow Billings (Not Includ After-Hours) (\$)				
	Mon	Tues	Wed	Thurs	Fri
	9-Jan-17	10-Jan-17	11-Jan-17	1-Dec-17	13-Jan-17
A	0	50	0	150	0
B	0	200	0	150	200
C	0	400	200	300	0
D	150	500	260	200	0
E	0	1000	260	260	50
F	0	1000	200	200	0
G	50	500	250	250	0
H	0	350	0	350	50
I	50	150	50	150	150
J	1000	1000	1000	1000	1000
K	300	150	150	50	50
L	500	50	250	0	200
M	0	50	150	200	150
N	0	200	400	350	250
O	0	250	250	300	350
P	50	50	50	50	50
Q	1000	1000	2000	2000	1000
R	0	50	500	1000	0
S	0	0	500	500	0
T	0	0	0	0	0
# Billing Doctors	8	18	16	18	12
Total Billings (\$)	\$3,100	\$6,950	\$6,470	\$7,460	\$3,500
Avg \$ per BILLING doctor	\$388	\$386	\$404	\$414	\$292

- **For the FFS component**, CANDI takes all the individual **FFS billing occurrences**, excluding all the \$0 billings.
 - *In the diagram below, “A-Tues” corresponds to the \$250 that Doctor A billed on Tuesday, and so forth ...*



- Once the Top and Bottom Quartiles are excluded, that leaves the following:

Doctor-Day:	\$
S-Thurs	500
C-Tues	400
N-Wed	400
H-Tues	350
H-Thurs	350
N-Thurs	350
O-Fri	350
C-Thurs	300
K-Mon	300
O-Thurs	300
D-Wed	260
E-Wed	260
E-Thurs	260
G-Wed	250
G-Thurs	250
L-Wed	250
N-Fri	250
O-Tues	250
O-Wed	250
B-Tues	200
B-Fri	200
C-Wed	200
D-Thurs	200
F-Wed	200
F-Thurs	200
L-Fri	200
M-Thurs	200
N-Tues	200
A-Thurs	150
B-Thurs	150
D-Mon	150
I-Tues	150
I-Thurs	150
I-Fri	150
K-Tues	150
K-Wed	150
Average =	\$247
Total Entries =	36

**The average daily total of combined
Pure FFS and Shadow FFS billings in FHOs is \$247**

- Here are the same FHO doctors but now also showing their Roster Sizes and corresponding **daily** Capitation payments.
 - The Capitation Payments are calculating by taking the age-sex specific daily rates for each patient. CANDI takes the roster size and composition as of October 1st of (mid-point in the fiscal year) for each physician and estimate this daily rate for each physician.

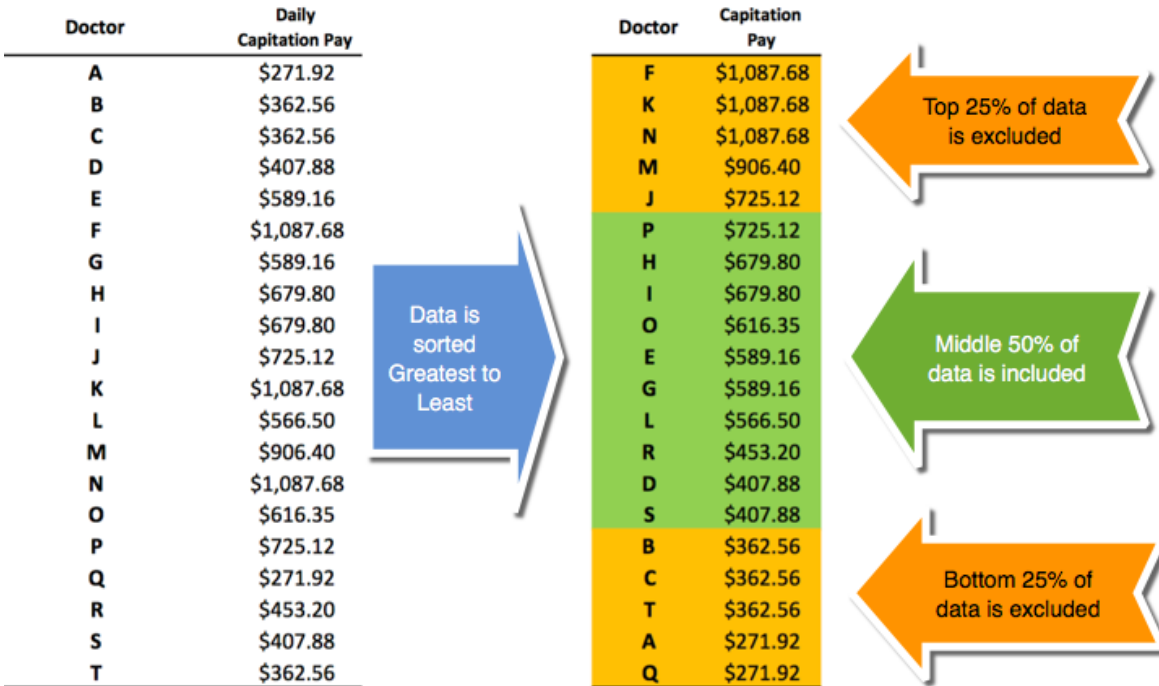
Doctor	Daytime FFS + Shadow Billings (Not Including After-Hours) (\$)							Doctor	# Days Billed/Week	# Days Billed/Year (avg 48 wks/yr)	Roster Size (# Patients)	Daily Capitation Payment
	Mon 9-Jan-17	Tues 10-Jan-17	Wed 11-Jan-17	Thurs 1-Dec-17	Fri 13-Jan-17	Sat 14-Jan-17	Sun 15-Jan-17					
A	0	50	0	150	0	0	0	A	2	96	600	\$271.92
B	0	200	0	150	200	300	300	B	5	240	800	\$362.56
C	0	400	200	300	0	0	0	C	3	144	800	\$362.56
D	150	500	260	200	0	0	0	D	4	192	900	\$407.88
E	0	1000	260	260	50	0	0	E	4	192	1300	\$589.16
F	0	1000	200	200	0	0	0	F	3	144	2400	\$1,087.68
G	50	500	250	250	0	0	0	G	4	192	1300	\$589.16
H	0	350	0	350	50	500	0	H	4	192	1500	\$679.80
I	50	150	50	150	150	50	0	I	6	288	1500	\$679.80
J	1000	1000	1000	1000	1000	1000	0	J	6	288	1600	\$725.12
K	300	150	150	50	50	250	300	K	7	336	2400	\$1,087.68
L	500	50	250	0	200	500	0	L	5	240	1250	\$566.50
M	0	50	150	200	150	0	0	M	4	192	2000	\$906.40
N	0	200	400	350	250	500	500	N	6	288	2400	\$1,087.68
O	0	250	250	300	350	0	0	O	4	192	1360	\$616.35
P	50	50	50	50	50	0	0	P	5	240	1600	\$725.12
Q	1000	1000	2000	2000	1000	0	0	Q	5	240	600	\$271.92
R	0	100	500	1000	0	250	0	R	4	192	1000	\$453.20
S	0	0	500	500	0	0	0	S	2	96	900	\$407.88
T	0	0	0	0	0	2000	100	T	2	96	800	\$362.56
# Billing Doctors	8	18	16	18	12	9	4	Avg =	4.25	204	1351	\$612.05
Total Billings (\$)	\$3,100	\$7,000	\$6,470	\$7,460	\$3,500	\$5,350	\$1,200	Total =	85			
Avg \$ per BILLING doctor	\$388	\$389	\$404	\$414	\$292	\$594	\$300					

- Zoomed in on just the Capitation numbers:

Doctor	# Days Billed/Week	# Days Billed/Year (avg 48 wks/yr)	Roster Size (# Patients)	Daily Capitation Payment
A	2	96	600	\$271.92
B	5	240	800	\$362.56
C	3	144	800	\$362.56
D	4	192	900	\$407.88
E	4	192	1300	\$589.16
F	3	144	2400	\$1,087.68
G	4	192	1300	\$589.16
H	4	192	1500	\$679.80
I	6	288	1500	\$679.80
J	6	288	1600	\$725.12
K	7	336	2400	\$1,087.68
L	5	240	1250	\$566.50
M	4	192	2000	\$906.40
N	6	288	2400	\$1,087.68
O	4	192	1360	\$616.35
P	5	240	1600	\$725.12
Q	5	240	600	\$271.92
R	4	192	1000	\$453.20
S	2	96	900	\$407.88
T	2	96	800	\$362.56
Avg =	4.25	204	1351	\$612.05
Total =	85			

* Average Annual Capitation Rate is \$165.41/pt
 * Therefore, Average Daily Cap Rate is \$0.4532

- CANDI then takes all the individual physician daily Capitation Rates and then excludes to the Top and Bottom Quartiles:



- Once the Top and Bottom Quartiles are excluded, that leaves the following:

Doctor	Daily Capitation Pay
P	\$725.12
H	\$679.80
I	\$679.80
O	\$616.35
E	\$589.16
G	\$589.16
L	\$566.50
R	\$453.20
D	\$407.88
S	\$407.88
Average =	\$571.49

The average Daily Capitation Payment for FHO doctors is \$571.49

- As per a revision to CANDI that the OMA Board approved in October 2017, Capitation Payments are divided by the average number of days that FHO physicians bill OHIP per year (based on Fee-For-Service billings).

- Here is the same picture and data shown initially on Page 6:

Doctor	Daytime Billings (Not Including After-Hours) (\$)							Doctor	# Days Billed/Week	# Days Billed/Year (avg 48 wks/yr)
	Mon 9-Jan-17	Tues 10-Jan-17	Wed 11-Jan-17	Thurs 1-Dec-17	Fri 13-Jan-17	Sat 14-Jan-17	Sun 15-Jan-17			
A	0	250	0	750	0	0	0	A	2	96
B	0	1000	0	750	1000	1500	1500	B	5	240
C	0	2000	1000	1500	0	0	0	C	3	144
D	750	2500	1300	1000	0	0	0	D	4	192
E	0	5000	1300	1300	250	0	0	E	4	192
F	0	5000	1000	1000	0	0	0	F	3	144
G	250	2500	1250	1250	0	0	0	G	4	192
H	0	1750	0	1750	250	2500	0	H	4	192
I	250	750	250	750	750	250	0	I	6	288
J	5000	5000	5000	5000	5000	5000	0	J	6	288
K	1500	750	750	250	250	1250	1500	K	7	336
L	2500	250	1250	0	1000	2500	0	L	5	240
M	0	250	750	1000	750	0	0	M	4	192
N	0	1000	2000	1750	1250	2500	2500	N	6	288
O	0	1250	1250	1500	1750	0	0	O	4	192
P	250	250	250	250	250	0	0	P	5	240
Q	5000	5000	10000	10000	5000	0	0	Q	5	240
R	0	250	2500	5000	0	1250	0	R	4	192
S	0	0	2500	2500	0	0	0	S	2	96
T	0	0	0	0	0	10000	500	T	2	96
# Billing Doctors	8	18	16	18	12	9	4	Avg =	4.25	204
Total Billings (\$)	\$15,500	\$34,750	\$32,350	\$37,300	\$17,500	\$26,750	\$6,000	Total =	85	
Avg \$ per BILLING doctor	\$1,938	\$1,931	\$2,022	\$2,072	\$1,458	\$2,972	\$1,500			

- The number of billing days is sorted. Then, top and bottom quartiles are excluded:

Doctor	# Days/Year	Doctor	# Days/Year
A	96	K	336
B	240	I	288
C	144	J	288
D	192	N	288
E	192	B	240
F	144	L	240
G	192	P	240
H	192	Q	240
I	288	D	192
J	288	E	192
K	336	G	192
L	240	H	192
M	192	M	192
N	288	O	192
O	192	R	192
P	240	C	144
Q	240	F	144
R	192	A	96
S	96	S	96
T	96	T	96

Data is sorted Greatest to Least

Top 25% of data is excluded

Middle 50% of data is included

Bottom 25% of data is excluded

- Once the Top and Bottom Quartiles are excluded, that leaves the following:

Doctor	# Days/Year
L	240
M	240
P	240
Q	192
D	192
E	192
G	192
H	192
O	192
R	192
Average =	207

According to this method, the average number of days that FHO physicians bill OHIP (based on Pure FFS or Shadow FFS billing) is 207 days per year.

NOTE:

- The exact same methods are used to calculate the CCM and Access Bonus Payments for FHOs.
- Further, the exact same methods are used to calculate the FFS and CCM fees for the **FHG and CCM Payment Models**.

Putting it all together, the following table shows how Gross Daily Income (GDI) is calculated for Family Medicine as a whole (including the changes to CANDI that the OMA Board approved in October 2017):

	Blended Capitation (FHN, FHO)	Enhanced FFS (CCM, FHG)	Non- PEM
A Professional FFS	\$165.29	\$981.39	\$537.66
B Shadow billings	\$81.26		
C CCM Daily Rate (365 days)	\$120.05	\$110.81	
D Base Capitation (365 days)	\$571.49		
E Access Bonus (365 days)	\$61.22		
F Total Annual days	207	230	145
G % After-Hours	14.60%	11.70%	7.9%
H Adjusted CCM Daily Rate (1-G)*(365/F)*C	\$180.77	\$155.27	
I Adjusted Base Capitation (1-G)*(365/F)*D	\$860.58		
J Adjusted Access Bonus (1-G)*(365/F)*E	\$92.19		
K Gross Daily Income A+B+H+I+J	\$1,380.09	\$1,136.66	\$537.66
Weights	45.9%	28.9%	25.3%
GDI for Family Medicine		\$1,097	

Average Gross Daily Income for Family Medicine is \$1,097

IMPORTANT POINT:

The CANDI calculations for each of:

- Fee-For-Service Billings
- Capitations Payments
- Number of Days Worked

... Do **NOT** necessarily use the same population of doctors.

Doctor	Included in Calculation			Roster Size	Days/Week Worked	Projected Annual Income FFS + Cap <i>(Including Weekends)</i>
	FFS	Capitation	Days Billed			
A	X			600	2	\$108,851
B	X			800	5	\$187,534
C	X			800	3	\$175,534
D	X	X	X	900	4	\$202,156
E	X	X	X	1300	4	\$290,403
F	X			2400	3	\$464,203
G	X	X	X	1300	4	\$265,443
H	X	X	X	1500	4	\$308,127
I	X	X		1500	6	\$276,927
J				1600	6	\$552,669
K	X			2400	7	\$457,003
L	X	X	X	1250	5	\$278,773
M	X		X	2000	4	\$357,236
N	X			2400	6	\$502,603
O	X	X	X	1360	4	\$280,168
P		X	X	1600	5	\$276,669
Q			X	600	5	\$435,251
R		X	X	1000	4	\$251,818
S	X	X		900	2	\$196,876
T				800	2	\$233,134