



Empanelment: Calculating Panel Size

CP3 Toolkit: Panels

Adapted from an [October 10, 2016](#) presentation by Amy Ham, these tools are designed to support clinics in calculating panel sizes. The tools include (1) a formula to calculate panel size; (2) demand and supply equations; and, (3) panel adjustments based on age and gender. For more information and tools on panel sizes, see also [Panel Size: How Many Patients Can One Doctor Manage?](#) Appearing in the April 2007 edition of *Family Practice Management*, this article also includes a patient panel size worksheet.

Tool 1: Formula to Calculate Panel Size

FORMULA		
DEMAND Appointment needs of current population	BxF Number of unduplicated patients seen in the last year X Average Visits per Patient per Year	Average visits per patient = number of visits/ number of patients
SUPPLY Provider availability	H Number of appointment slots available on the schedule last year	Actual hours worked x Productivity 100 hours 3.25 patients per hour = 325 slots
RIGHT PANEL SIZE The number of patients the provider can support based on current availability	H / F Number of appointment slots available on the schedule last year / Average Visits per Patient per Year	325/3.14 = 103 patients



Tool 2: Equations to Calculate Supply and Demand

Calculating Demand:

Practices calculate frequency by dividing number of unique patients seen during a time frame into the number of visits these patients had during that time frame.

Equation: Patients * Number of visits per year (Frequency)

Calculating Supply:

Visits per day: number of visits provided per day, which can differ from the number of appointment slots. Variables can include no-show rate, reducing average visit length and looking at provider’s clinical hours versus non clinical visits.

Equation: Number of Provider Visits per Day * Provider Days per year

Tool 3: Panel Adjustments by Age and Gender (selected age ranges)¹

Age	Male	Female
0	5.02	4.66
15 - 19	.54	.72
20 - 24	.47	.70
40 - 44	.69	.89
75 - 79	1.68	1.40
80 - 84	1.70	1.66
85+	1.51	1.39

¹ Source: American Academy of Family Physicians, *Panel Size: How Many Patients Can One Doctor Manage* (<http://www.aafp.org/fpm/2007/0400/p44.html>)