Primary Care Physicians in Delaware 2013

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prepared for

Delaware Department of Health and Social Services Division of Public Health

by

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June, 2014

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ACKNOWLEDGEMENTS

This report was primarily funded by the Delaware Division of Public Health/Bureau of Health Planning and Resources Management.

The author would also like to acknowledge the Delaware Division of Professional Regulation for providing the licensure data that served as the basis for the survey.

iii

TABLE OF CONTENTS

Pa	age
Acknowledgements	iii
List of Figures	. v
Overview	I
Demographics	6
Practice Characteristics	14
Spatial Distribution	29
Observations	39
APPENDIX	40

LIST OF FIGURES

Figure		Page
1.1	Primary Care Physicians by County	4
1.2	FTE Primary Care Physicians by County and Year	5
2.1	Gender of Primary Care Physicians by County	6
2.2	Race of Primary Care Physicians by County	7
2.3	Hispanic Origin of Primary Care Physicians by County	8
2.4	Age of Primary Care Physicians by County	9
2.5	Active Five Years from Now by County	10
2.6	State of High School Graduation by County	11
2.7	State of Medical School Graduation by County	12
2.8	State of Medical Residency by County	13
3.1	Specialty of FTE Primary Care Physicians by County	14
3.2	Distribution of Primary Care Specialties by County	15
3.3	Provide Selected Specialty Services by County	16
3.4	Accepting New Primary Care Patients by County	17
3.5	Accepting New Medicare Patients by County	18
3.6	Accepting New Medicaid Patients by County	19
3.7	Percent of Time Serving Selected Patient Groups by County	20
3.8	Practice Geriatrics as a Sub-specialty by County	21
3.9	Average Wait Times for Types of Patients by County	22
3.10	Use of Non-Physician Resources by County	23
3.11	Use of Non-Physician Resources by Year	24
3.12	Member of Managed Care Networks by County	25
3.13	Awareness of the Delaware Health Information Network by County	26
3.14	Participation in the DHIN by County	26
3.15	Interest to Participate in the DHIN in the future by County	27
3.16	Amount Willing to Access Clinical Information by County	28
4 . I	Number of Persons per Primary Care Physician by Census County Division	32
4.2	Number of Persons per Family Practice Physician by Census County Division	36
4.3	Number of Women (15-64) per OBGYN by Census County Division	37
4.4	Number of Youth (0 to 19) per Pediatrician by Census County Division	38

Overview

In 1995, the Division of Public Health began an effort to measure the number and spatial distribution of primary care physicians practicing in Delaware. The objective was to identify medically underserved areas and to understand any existing or developing trends that could impact the supply of primary care services.

The method chosen to gather the information was a mail survey combined with telephone follow-up of non-respondents. Subsequent surveys were conducted in 1995, 1997, 1998, 2001, 2006, 2008, 2011, and now in 2013. Each time, the survey instrument was refined with the objective of reducing the burden on the responding physician and improving the quality and relevance of the data gathered.

Up until the 2011 data collection when responses were received, they would either replace information supplied by the physician at an earlier date or in the case of a first time respondent, the responses would extend the coverage of the database. At the same time, responses from physicians in prior years, who no longer had an active Delaware license as determined from the state license file, were eliminated from the database. The resulting database, upon which the previous reports were based, contained information gathered from 1995 through 2008 from physicians who held a Delaware medical license and provide clinical medical services in Delaware. Over the years, this approach has proven to produce reliable results. Despite the reliability of the results, in 2011 this approach was discontinued. The impetus to abandon this approach comes from the need to create a data file (with most recent survey responses and all personally identifiable information removed) for the federal shortage area designations system (ASAPS) operated by the Department of Health and Human Services Health Resources and Services Administration. Just like in 2011, the 2013 estimates and results reported in this document are solely based on the responses obtained during the most recent data collection (2013).

The data collection for the current report took place during the Summer/Fall of 2013. The list of Physicians obtained from the Division of Professional regulation contained 5,718

physicians licensed to practice medicine in Delaware. After removing duplicates, 4,454 unique

physicians were identified. Of those, 2,365 have a Delaware address, but it does not mean they

are active or that they have a Delaware practice. Similarly, physicians living in other states may

have an active practice in Delaware. For the purposes of producing this report, 2,518 physicians

were contacted. This includes all physicians licensed in Delaware with an address in Delaware

and physicians licensed in Delaware living within 60 miles of the state. Of those contacted, 990

responded to the survey and provided usable data.

Primary care physicians are the focus of this report. This group includes physicians practicing in five specialties: family practice, general practice, internal medicine, pediatrics, and obstetrics/gynecology. After weighting for non-respondents, and taking into account the geographical distribution of licensed physicians, the number of primary care physicians is

estimated at 862. This is slightly lower than the estimate of 888 for 2011.

Not all physicians practice full-time. Others practice full-time but do not deliver direct patient care on a full-time basis. To give a more realistic view of the primary care physicians available, full time equivalents (FTE) were calculated. A physician who was engaged in delivering primary care directly to patients 40 or more hours per week was defined as a full-time primary care physician. Anything less than 40 hours was considered as less than full-time. For each four hours less than 40 hours, 0.1 FTE was deducted. Anything more than 40 hours was considered only as full-time. In other words, a physician delivering 60 hours per week of primary care was still counted as one full-time equivalent physician.

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¹ Federal Register/Vol.45, No.223/ Monday, November 17, 1980, Part IV Department of Health and Human Services, 42 CFR Part 5, p.76002.

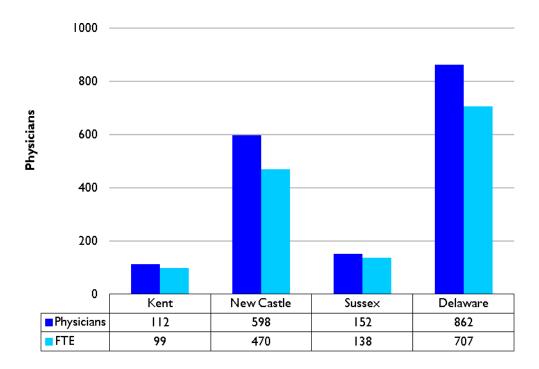
Finally, it is important to note that the estimates provided here exclude the foreign doctors with J-I visas who are required to practice primary care for three years.² Doctors with J-I visas were removed from the analysis based on a list received from the Division of Public Health. A J-I Exchange Visitor visa allows international medical graduates (IMG) the opportunity to obtain residency training at an American medical training institution which agrees to sponsor him/her. The graduate must return to his/her home country for a minimum of two years upon completing the residency program before he/she can apply for re-entry to the US. A J-I visa waiver allows an IMG to remain in the US without having to return to his/her home country for the two-year period. In order to receive a J-I visa waiver, an IMG must obtain employment to practice medicine full-time in a federally designated health professional shortage area or a medically underserved area or an area known by the state to have a provider shortage. Physicians who obtain waivers are required to practice in these shortage areas for a minimum of three years. While these physicians improve access to care, they cannot be counted since they are not required to remain in the area and not required to practice primary care upon completing their three-year waiver requirement.

Figure 1.1 below summarizes the current number of primary care physicians in Delaware by county of practice. The number of physicians is provided along with estimates of full-time equivalents (FTE). Given Delaware's population in 2013 of 900,1313, there are about 1,271 persons served by each full-time equivalent primary care physician in 2013. For the three counties, the estimates are 1,661 for Kent County, 1,146 for New Castle County, and 1,422 for Sussex County.

² Federal Register/Vol.45, No.223/ Monday, November 17, 1980, Part IV Department of Health and Human Services, 42 CFR Part 5, p.76002.

³ 2008-2012 American Community Survey 5 YR Estimates S010, http://factfinder2.census.gov/, Accessed April 2014.

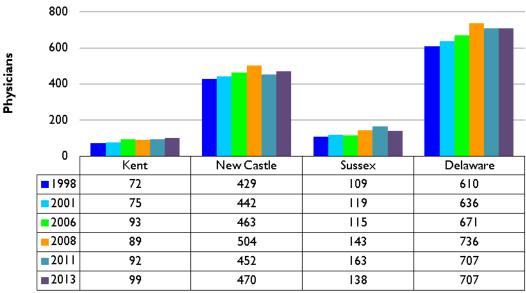
Figure 1.1
Primary Care Physicians
by County



Source: Center for Applied Demography & Survey Research University of Delaware

Figure 1.2 compares the number of physicians for the last 6 survey periods. The number of FTE primary physicians in the state has remained unchanged since the last survey in 2010 and stands at 707 physicians. This does not mean that no physicians left or no new physicians started practicing in Delaware. For example, changes are evident when looking at counties. The results of the current survey indicate a slight increase in the number of FTE physicians in Kent and New Castle counties, and a decrease in Sussex County.

Figure 1.2
FTE Primary Care Physicians
by County and Year



Source: Center for Applied Demography & Survey Research University of Delaware

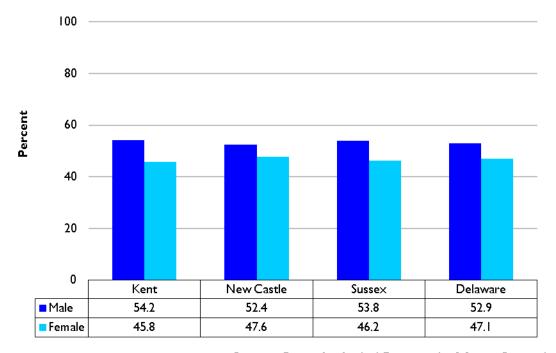
In the remainder of this report, different aspects of primary care physicians and their practices will be examined. Overall, the objective is to touch on those attributes that affect the availability of primary care services. In the section that follows, the basic demographics of the primary care physician population are discussed. Of particular interest is the age structure and diversity of these practitioners. The next section deals with practice characteristics. Important issues such as waiting times for patient appointments and the acceptance of new patients are among the topics addressed. Finally, in the last section, the spatial distribution of primary care physicians at the sub-county level is addressed as it relates to the size and characteristics of the patient population.

Demographics

The topic of demographic diversity within the primary care physician community is important as changes occur in the population of Delaware. Some patients may feel more comfortable with and are able to communicate better with physicians having particular characteristics. In addition, physicians with particular demographic characteristics may be more likely to train in one of the primary care specialties.

Figure 2.1

Gender of Primary Care Physicians
by County



Source: Center for Applied Demography & Survey Research University of Delaware

The primary care physician community in Delaware is about 53%. The variation among counties is marginal. The data provide no readily apparent explanation for this difference. Just like in previous years, women are more likely to choose one of the primary care specialties.

22.3

6.9

3.7

When looking at the entire physician database, 60% of women were in one of those specialties while only 40% of men chose primary care.

100

80

40

20

Kent New Castle Sussex Delaware

Caucasian 54.2 71.3 62.3 67.2

19.5

5.5

3.7

Figure 2.2

Race of Primary Care Physicians
by County

Source: Center for Applied Demography & Survey Research University of Delaware

24.6

10.8

2.3

The racial distribution of primary care physicians by county is shown in Figure 2.2. The most interesting aspect of this table is the low proportion of African American primary care physicians and the preponderance of Asian American physicians compared to the population characteristics of the state.

32.3

8.3

5.2

Asian

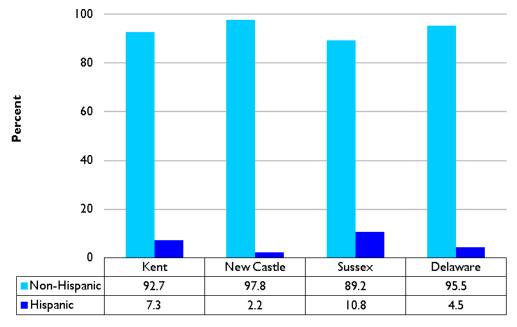
Other

African American

The current survey indicates the highest proportion of African American physicians to be in Sussex County, even though the proportion of African Americans in the general population is the lowest in Sussex County. At the state level, the ratio of Asian American physicians is about five times higher than the proportion of Asian Americans in the population. The proportion of Asian American primary care physicians is the highest in Kent County.

Hispanic origin has taken on a particular interest in Delaware with the rapid growth of that population, particularly in Sussex County. The distribution of primary care physicians by Hispanic origin is found in Figure 2.3.

Figure 2.3
Hispanic Origin of Primary Care Physicians
by County



Source: Center for Applied Demography & Survey Research University of Delaware

The highest proportion of Hispanic physicians is found in Sussex County (11%). The Lowest proportion is in New Castle County (2%). Overall, the proportion of Hispanic primary care physicians in Delaware is at 4.5%.

The age of primary care physicians is ultimately a factor in their availability. The age distribution of primary care physicians is found in Figure 2.4. Kent County stands out – it has the lowest proportion of younger primary care physicians (18% under 40 and 25% between 40 and 50 years of age). Overall for the state, about 23% of primary care physicians are under 40

years old. New Castle County stands out when considering the proportion of primary care physicians aged 50-64. In this case, 42% of physicians reporting are in this age group. Looking at the oldest age group (65 and above), about a quarter of Kent County's physicians are in this age bracket compared with 10 percent in New Castle County and 12 percent in Sussex County.

50 40 30 20 10 0 New Castle Kent Sussex Delaware Under 40 18.3 22.8 29.4 23.4 40-49 24.7 24.6 30.2 25.6 50-64 31.2 42.4 38.2 28.6 65 and above 25.8 10.3 11.9 12.7

Figure 2.4

Age of Primary Care Physicians
by County

Source: Center for Applied Demography & Survey Research University of Delaware

Physicians were asked if they planned to be active in clinical medicine five years from now. Those answers are summarized in Figure 2.5. In general, 72% of physicians expect to be active in five years. The highest proportion (74%) of physicians indicating that they will be active five years from now is found in New Castle County. Sussex County's physicians flowed closely – about 71% of them indicated that they will be active five years from now. The least optimistic were primary care physicians in Kent County, where only 58% of physicians indicated that they will be active in the field.

100 80 60 40 20 0 New Castle Kent Sussex Delaware Yes 71.3 71.5 57.7 74.4 Unsure 27.8 18.0 16.3 19.1 No 14.4 7.6 12.4 9.5

Figure 2.5
Active Five Years from Now by County

Source: Center for Applied Demography & Survey Research University of Delaware

It is necessary to analyze why some physicians choose to practice in Delaware and others choose to practice in other states. The way this choice is made determines the adequacy of the supply to serve Delaware's residents. Several pieces of information are useful for this purpose. First, where did this physician originally reside at the time he/she graduated high school? Second, in what state did the physician attend medical school? A third key variable is the state in which the physician did his/her residency.

In Figure 2.6, the distribution of the state of the physician's high school graduation is shown. The first interesting aspect of this figure is that 56% of Delaware's primary care physicians grew up in the region (DE, MD, PA, NJ and NY) and approximately 14% are from Delaware. However, these figures vary significantly across counties. Sixty-one percent of physicians practicing in Kent County resided outside of the region at the time they graduated high school, while only 37% of New Castle County's physicians come from outside the region. About 18% of New Castle County's physicians resided in Delaware at the time of their

graduation from high school, while only about 5-8% of Sussex and Kent county's physicians are from Delaware.

70 50 Percent 30 20 10 0 New Castle Sussex Kent Delaware DE 8.0 17.6 5.4 14.0 MD 3.4 9.2 4.8 3.8 ■NJ 6.8 10.3 11.5 10.1 NY 14.8 7.7 9.8 10.1 ■ PA 5.7 21.9 10.0 17.4 Other 61.4 36.6 56.2 43.7

Figure 2.6
State of High School Graduation by County

Source: Center for Applied Demography & Survey Research University of Delaware

The pattern observed for the state of high school graduation is replicated in part for the state of medical school graduation (Figure 2.7). Significantly more primary care physicians graduating from medical schools in Maryland locate in Kent and New Castle County. Those from medical schools in Pennsylvania are more likely to locate in New Castle county. About 9 percent of physicians in Sussex County graduated from a medical school in New York.

70 60 50 40 30 20 10 New Castle Kent Sussex Delaware MD 7.3 5.2 8.0 4.7 10.4 3.5 ■NJ 4.0 4.6 3.I 6.7 8.9 ■NY 6.6 ■PA 15.6 42.2 23.4 35.0 ■Other 63.5 42.4 62.9 49.1

Figure 2.7
State of Medical School Graduation by County

Source: Center for Applied Demography & Survey Research University of Delaware

There clearly is a geographic orientation exhibited by these responses. Similar patterns emerge with the state of the physician's medical residency, presented in Figure 2.8. Forty four percent of New Castle County's physicians completed their medical residency in Delaware, while only 20% of primary care physicians in Kent County and 13% of Sussex County physicians completed their residency in Delaware. Overall, 22% of Delaware's physicians completed their medical residency outside of the region.

50 40 Percent 30 20 10 0 New Castle Kent $Susse \times$ Delaware ■ DE 20.2 **44**.1 12.8 35.0 10.1 ■MD 2.3 6.4 4.1 ■N] 8.3 2.9 14.7 5.9 NY 7.9 13.8 24.4 11.8 ■ PA 24.1 16.0 15.6 21.5 Other 32.I 18.6 25.6 21.7

Figure 2.8
State of Medical Residency
by County

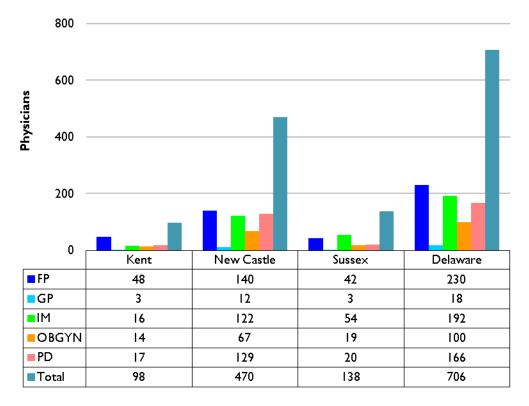
Source: Center for Applied Demography & Survey Research University of Delaware

It might prove valuable to those making an effort to recruit new primary care physicians for Delaware to point out that all of these findings reflect three facts. First, most of Delaware's primary care physicians (56%) resided in the region at the time of high school graduation. Second, most of Delaware's primary care physicians (51%) went to medical school within several hundred miles of where they practice today. Third, about 80% of Delaware's primary care physicians completed their medical residency in the region.

Practice Characteristics

Primary care physicians in Delaware are distributed across different specialties and have different types of practices. In this section, some of the key characteristics of those practices are discussed. The attributes selected for analysis largely relate to capacity and availability for patient care.

Figure 3.1
Specialty of FTE Primary Care Physicians
by County



Source: Center for Applied Demography & Survey Research University of Delaware

In general, the primary care physicians deliver similar services; they also practice in their reported specialties. For comparison, Figure 3.1 contains the estimates for these specialties by county by full time equivalents. No one specialization really dominates the distribution. Physicians in family practice are most populous, followed closely by physicians in internal

medicine and pediatricians. Only 18 of Delaware's primary care physicians reported that they are general practitioners.

50 40 Percent 30 20 10 0 New Castle Kent Sussex Delaware ■ FP 49.0 29.8 30.4 32.6 GP 3.1 2.6 2.2 2.5 IM 16.3 26.0 39.1 27.2 OBGYN 14.3 14.3 13.8 14.2 ■ PD 17.3 27.4 14.5 23.5

Figure 3.2

Distribution of Primary Care Specialties by County

Source: Center for Applied Demography & Survey Research University of Delaware

The distribution in Figure 3.2 shows that primary care physicians are distributed essentially in three major groups. Just over 35% are family/general practitioners; one third are internists who focus on adults; and one third are primary care physicians focused on smaller groups of patients (OBGYN+PD).

Primary care physicians with family practice or internal medicine specialties may provide pediatric and OBGYN services. The extent of this crossover between the specialties is shown in Figure 3.3, below. First of all, the table needs some explanation. The lines labeled *Pediatric:*All PCPs and OBGYN: All PCPs include all primary care physicians. The lines directly beneath exclude the specialists in those areas. Thus, 66% of primary care physicians in New Castle

OBGYN:All PCPs

Non-OBGYNs

County provide pediatric services, and 55% of non-pediatric primary care physicians provide those services. Perhaps the most interesting part of this information is that compared to the other counties, a larger proportion (78%) of Kent County's non-Pediatric physicians is providing Pediatric services. The proportion of non-OBGYN physicians providing OBGYN services is lowest (24%) in Kent County among all of Delaware's counties.

100 80 Percent 60 40 20 0 Delaware Kent New Castle $Susse \times$ Pediatrics: All PCPs 65.9 81.8 46.7 64.4 ■Non-Pediatricians 77.5 55.0 37.3 54.5

43.2

34.4

Figure 3.3
Provide Selected Specialty Services
by County

Source: Center for Applied Demography & Survey Research University of Delaware

30.2

23.9

40.6

32.4

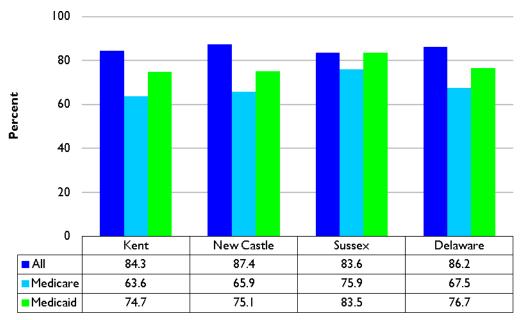
One of the most critical issues with respect to the capacity of primary care physicians is whether they are accepting new patients. The data with respect to this question is found in Figure 3.4. Between 84% and 87% of primary care physicians report that they are accepting new patients. The proportion is highest in New Castle County.

46.6

35.5

Primary care physicians were also asked if they were accepting new Medicare and/or Medicaid patients. Those results are also found in Figure 3.4, below. A cautionary note is needed for interpreting the Medicare results. Pediatricians comprise almost 24% of primary care physicians. However, they only see a very small set of Medicare patients, i.e. those situations where one of the special programs allows a child to have access to Medicare through SSI (Social Security Insurance). The proportion of physicians reporting accepting new Medicare patients is highest in Sussex County (76%), and lowest in Kent County (64%).

Figure 3.4
Accepting New Primary Care Patients
by County



Source: Center for Applied Demography & Survey Research University of Delaware

The results regarding the acceptance of new Medicaid patients are similar to those for Medicare but without the cautionary note. There are differences between counties with physicians in New Castle County being the least willing to accept new patients of this type.

The difference between primary care physicians who are currently treating Medicare patients and accepting new Medicare patients is shown in Figure 3.5. The spread between these

■Treating Medicare

Accepting New Medicare

two estimates for Delaware is twelve percentage points. These differences are most severe in Kent County where the difference is 16%. This suggests that those migrating to the state to retire or those who lose their current physician for any number of reasons could have a difficult time finding a new one.

100

80

60

40

20

Kent | New Castle | Sussex | Delaware

77.6

65.9

Figure 3.5
Accepting New Medicare Patients
by County

Source: Center for Applied Demography & Survey Research University of Delaware

88.I

75.9

79.9

67.5

The situation for Medicaid patients is probably just as difficult (Figure 3.6). There is a difference of about 13 percentage points between those who are currently treating Medicaid patients and those who will accept new ones. In Kent County this difference jumps to 21 percent.

79.5

63.6

100 80 60 40 20 0 New Kent $Susse \times$ Delaware Castle 95.6 87.3 95.8 90.1 Treating Medicaid Accepting New Medicaid 74.7 75. I 76.7 83.5

Figure 3.6
Accepting New Medicaid Patients
by County

Source: Center for Applied Demography & Survey Research University of Delaware

Part of the explanation for this less than enthusiastic response about taking on new Medicare and Medicaid patients may lie in the current amount of time devoted by primary care physicians to these two populations (Figure 3.7). About one third of physician time is devoted to Medicare patients. This is about 2.5 times more than would be expected given their share of the population. However, older people need significantly larger amounts of physician time. As a typical physician's clientele ages, the physician's ability to absorb new patients declines. The estimates in Sussex County are highest (41%) because the older population is relatively higher there.

50 40 Percent 30 20 10 0 New Castle Kent Sussex Delaware Medicare 30.3 31.4 40.7 33.I 31.8 Medicaid 26.0 31.3 28.0 Self-Pay 8.8 11.7 11.4 11.2

Figure 3.7
Percent of Time Serving Selected Patient Groups by County

Source: Center for Applied Demography & Survey Research University of Delaware

The estimates for time spent on providing care to Medicaid patients are somewhat surprising although it is consistent across all three counties. Medicaid patients use about 28% of a physician's time.

Primary care physicians were asked to indicate whether they practice geriatrics as a sub-specialty since it will take on greater importance in the years to come with the aging of the baby boomers. Overall, 18% of primary care physicians have this sub-specialty (see Figure 3.8). The highest proportion (21%) is in Sussex County, in light with the higher proportion of elderly in that county.

100 80 60 40 20 0 Kent New Castle Sussex Delaware 18.5 20.8 Yes 13.8 18.3 No 86.2 81.5 79.2 81.7

Figure 3.8
Practice Geriatrics as a Sub-specialty
by County

Source: Center for Applied Demography & Survey Research University of Delaware

Primary care physicians were also asked how long a person would have to wait for an appointment in a non-emergency situation (Figure 3.9). Looking at the date for 2013 and comparing it to the results for previous rounds of the survey, a significant increase in the average time can be observed across all counties. On the average, an established patient will wait about 17 days. In contrast, the new patient will wait 32 days. The question is: what caused this significant increase in waiting time reported? One explanation is that as primary care physicians continue to replace physicians' patient care with patient care by other non-physician resources a saturation point might have been reached, where seeing the physician directly has become less of an option. Future rounds of the survey need to test this out and it remains to be seen if this was the actual cause for the change.

50 — 30 25 20 15 10 5 New Castle Kent $Susse \times$ Delaware 11.7 6.7 I 998-Established 8.0 8.2 2001-Established 9.6 8.2 6.9 8. I 2006-Established 9.6 5.9 8. I 6.9 2008-Established 12.7 16.5 5.3 13.8 ■2011-Established 9.9 6.9 3.8 6.6 2013-Established 19.1 16.4 17.3 17.0 1998-New 19.7 14.0 12.8 13.9 2001-New 20.2 13.7 16.4 15.0 ■2006-New 20.5 8.9 17.5 12.2 ■2008-New 21.1 12.4 19.4 14.9 ■2011-New 11.5 11.7 14.7 H.I.2013-New 36.6 27.2 45.0 32.1

Figure 3.9

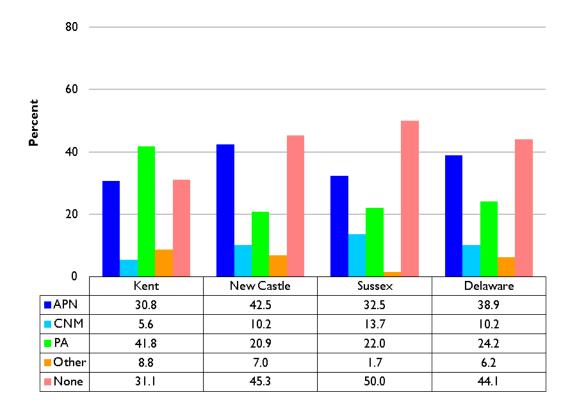
Average Wait Time for Types of Patients by County

Source: Center for Applied Demography & Survey Research University of Delaware

Primary care physicians have available to them resources to extend their own abilities to serve patients. The advanced practice nurse (APN), the certified nurse midwife (CNM), and the physician's assistant (PA) are the most typical of such resources. The responses of the

primary care physicians on the use of these non-physician resources are tabulated in Figure 3.10. There are differences between the counties. Kent County, the county with the greatest need, is using alternative resources the most. Sussex County primary care physicians are using the alternative resources the least. There are significant differences between the specialties where the OBGYN and pediatric primary care physicians are far more likely to employ any and all of these alternative resources.

Figure 3.10
Use of Non-Physician Resources
by County

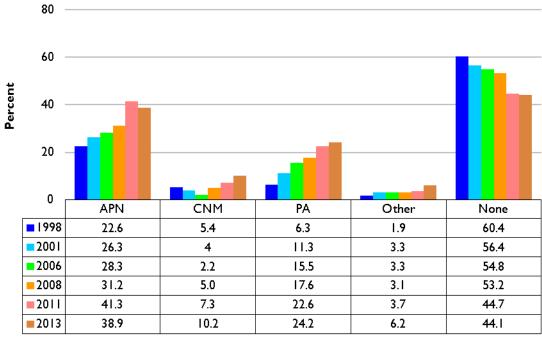


Source: Center for Applied Demography & Survey Research University of Delaware

A comparison of non-physician clinicians for the last four survey periods is shown in Figure 3.11. The data suggests a steady movement toward the uses of these alternative non-physician resources by primary care physicians in Delaware. Just like last time the survey was

conducted, the proportion of those using these non-physician resources is now larger than the proportion of those who do not use these resources.

Figure 3.11
Use of Non-Physician Resources
by Year



Source: Center for Applied Demography & Survey Research University of Delaware

Access to primary care is impacted by the coverage that a patient presents to the physician. Membership in one or more managed care networks allows a primary care physician to extend services to a wider range of patients. The responses to this question are found in Figure 3.12 for those who reported belonging to managed care networks. The distribution of Kent County's primary care physicians' participation is different than that of primary care physicians in Sussex and New Castle counties. In Kent County, about 52% of respondents indicated that they belong to 5-9 managed care networks compared with 34-4% in the remaining counties.

100 80 Percent 60 40 20 0 New Castle Kent $Susse \times$ Delaware I-4 22.5 30.0 53.3 31.7 5-9 52.5 34.7 40.0 38.3 **10+** 35.3 25.0 6.7 30.0

Figure 3.12
Member of Managed Care Networks
by County

Source: Center for Applied Demography & Survey Research University of Delaware

Given the current developments in electronic access to patient's clinical health information, respondents were asked to indicate their familiarity with and interest in participating in the Delaware Health Information Network (DHIN). DHIN is a public-private partnership which provides the organizational infrastructure to support a clinical information exchange across the State of Delaware. DHIN is designed to provide for the secure, fast and reliable exchange of health information among the many medical providers treating patients in the state.⁴ This partnership allows participating physicians across Delaware to access their patient's clinical health information housed at other facilities. Across Delaware, 92% of primary care physicians indicate awareness of DHIN (Figure 3.13). Sussex County's primary care physicians are least likely to indicate (90%) that they are aware of DHIN.

⁴ About DHIN, http://www.dhin.org/AboutDHIN, Accessed September 29th, 2008

100 80 Percent 60 40 20 0 New Castle Kent $Susse \times$ Delaware 91.2 89.9 91.7 Yes 96.9 8.8 10.1 8.3 ■No 3. I

Figure 3.13

Awareness of the Delaware Health Information Network by County

Source: Center for Applied Demography & Survey Research University of Delaware

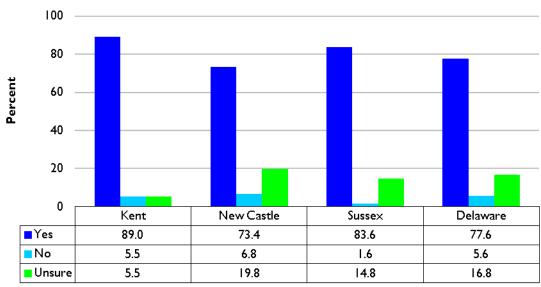


Figure 3.14
If You Are Aware of the DHIN Does Your Office Participate? by County

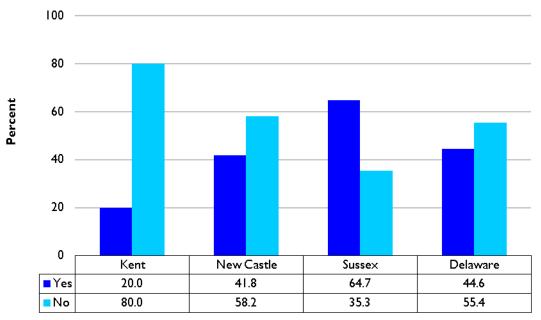
Source: Center for Applied Demography & Survey Research University of Delaware

Primary care physicians who are aware of the DHIN were next asked to indicate if their offices participate in the network (Figure 3.14). Across Delaware, 78% of those primary care

physicians who are aware of DHIN participate in the partnership. Kent County's primary care physicians who are aware of DHIN are significantly more likely to participate than primary care physicians in Sussex and New Castle counties.

Those who are aware of DHIN and do not participate were asked to indicate if they plan to participate in the future (Figure 3.15). For the state as a whole, only 44% of physicians aware of DHIN and currently not participating indicated interest to participate in DHIN in the future. Sussex County's physicians aware of DHIN were most likely (65%), compared with other counties, to indicate that they will participate in the future.

Figure 3.15
If You Are Aware of DHIN and You Currently Do Not Participate,
Do You Plan On Participating In The Future?
by County

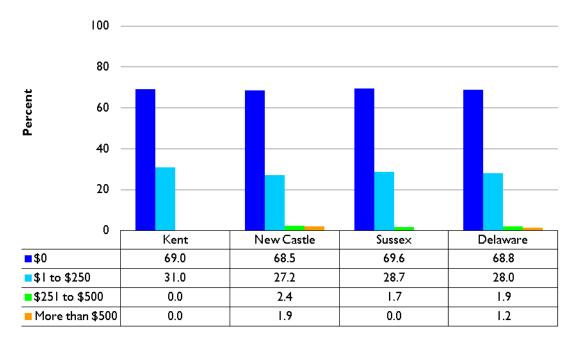


Source: Center for Applied Demography & Survey Research University of Delaware

Primary care physicians (those who are aware, those who do participate and those who do not participate but plan on participating in the future) were also asked to indicate the amount of money they would be willing to pay for access to clinical information (Figure 3.16).

The tabulation of respondents indicates that a majority (69%) would be willing to pay \$0 to access DHIN. Approximately 28% would pay between \$1 and \$250 to access their patients' clinical information at other facilities. About 2% of respondents indicated that they would be willing to pay more than \$250 for access.

Figure 3.16
If You Are Aware of the DHIN What is The Amount You Are
Wiling to Pay to Access Clinical Information
by County



Source: Center for Applied Demography & Survey Research University of Delaware

Spatial Distribution

Delaware as a whole would have a sufficient supply of primary care physicians if they were spatially distributed with the population. According to the Council on Graduate Medical Education (CGME), a ratio of 1,250:1 of persons per primary care physician corresponds to the lower end of the acceptable range for supply of primary care providers. Delaware currently has a ratio of 1,271:1 without considering nonphysician providers or international medical school graduates holding J-1 visas. The ratios are 1,661:1, 1,146:1, and 1,422:1 for Kent, New Castle, and Sussex counties respectively. As such, Delaware exceeds CGME acceptable ratio in Kent and Sussex counties and is within the acceptable ration in New Castle County.

The federal government recognizes the importance of having an adequate number of primary care physicians in areas smaller than states or even counties. In their program for medically underserved areas and populations (MUA/P), "rational areas for the delivery of primary medical care services" can be counties, parts of counties, and even neighborhoods within metropolitan areas with a strong identity and a population of 20,000.5 In general, an underserved area will have a ratio of 3,500:1 (in special cases 3,000:1) or higher to qualify. Obviously, none of the counties would qualify if they were the spatial areas considered.

The distance criterion, which defines such areas in Delaware, is roughly 20 miles between centers. Good examples for such markets in Sussex County would include Lewes/Rehoboth, Georgetown, Milford, Millsboro, and Seaford. In Delaware, these general areas are census county divisions. These work well in Sussex County because of the number of distinct town centers. The distinctions are not quite as clear in Kent County where Dover and

In the September 1,1998 Federal Register DHSS proposed new regulations for medically underserved populations (MUP) and health professional shortage areas (HPSA), the Department of Health and Human Services generally recognizes a ratio of 3000:1 as sufficient for an area to be classified as a HPSA. To be classified as an MUP an index of

primary care shortage (IPCS) is computed utilizing a number of factors: (1) population to primary care ratio, (2) percent below 200% of the poverty level, (3) infant mortality rate, (4) low birth weight rate, (5) percent of a racial minority, (6) percent of Hispanic ethnicity, (7) percent linguistically isolated, and (8) population density.

its suburbs are paramount. The Smyrna and Harrington areas are the best examples since they both have town centers. The issue is murky in New Castle County because of the dominance of population in unincorporated areas. Wilmington, Newark, New Castle, and Middletown are the most distinct areas, although their suburban fringes are not well defined. Given these characteristics the census county divisions, of which there are 27 in Delaware, are useful for this spatial examination. Before looking at these sub-county differences, some caveats are in order.

The characteristics of the population matter. Two areas with equal populations and an equal number of primary care physicians are not necessarily in the same condition. For example, one area may have a much larger proportion of persons who are over the age of 74. Survey data suggests that this elderly group will require three times as many physician encounters as do those who are 18 to 64. Similarly the very young, less than five years of age, will require twice as much medical care compared to those in the 5-17 age group. When the populations of the counties are adjusted to reflect the age distribution, the adjusted population is actually lower in all three counties. This suggests that, at least at the county level, the ratios are even more favorable.

Age is not the only demographic area that can make a difference. Traditionally, people who live in households that are under the poverty line will likely need more medical care than those who are above it. Further, higher infant mortality in an area may suggest less access to primary care physicians. Additional variables currently being considered are low birth weight births, percent of a racial minority, percent Hispanic, percent linguistically isolated, and population density. Many of these variables are also correlated with poverty and infant mortality. Even if everything else is equal (i.e. population, population characteristics, and the number of primary care physicians), the more spread out the population is in the medical service area, the harder it is to serve.

There is one other factor that is potentially important, especially in Sussex County.

There is a significant number of part-year residents who live in their vacation homes during the

summer. For most, this is largely a weekend activity; for others it may be full-time during the summer or during their vacation. In addition, there is a very large number of tourists who come on the weekends or perhaps for a week. All of these visitors are potentially in need of medical services, although at a much lower frequency than are full-time residents. These populations are not considered in the spatial distributions that follow.

While looking at the distribution of physicians by CCD, it is important to point out that shortage area designations through the federal government take into account not just the availability of physicians in rational service areas but also the access to care in areas adjacent to these geographies. Thus, areas that show to be underserved but are within reasonable driving distance (rural areas) or reasonable time travel by public transportation (urban areas) might not qualify for federal designation as a shortage area.

^{6 1992} National Health Interview Survey.

Person per PCP No PCP Reporting Wilmington 204 - 1250 1251 - 2000 2001 - 3000 3001 - 4000 4001 - 8210 Middletowr Rehoboth Beach

Figure 4.1

Number of Persons per Primary Care Physician
by Census County Division

0 2.5 5

10

15

The spatial distribution of primary care physicians relative to population by census county division in Delaware is found in Figure 4.1. The important areas to look at are those in pink and shades of red. The pink areas may be close to crossing the 3000:1 threshold. Those dark red are already too high with too few primary care physicians per population. It's important to point out that six census county divisions fall in the 3,001-4,000 (red) range; these are the Lower Christiana, New Castle, Felton, Harrington, Milton and Millsboro census county divisions. In general, there are a total of ten (out of 27) census county divisions with a potential shortage, shortage or a significant shortage. These shortage areas are each adjacent to areas that have a sufficient if not abundant number of primary care physicians. While the distances are short and certainly within the federal 20-mile criteria, there may still be reason for concern as transportation, personal finances and convenience of physician office hours may be a barrier to access in some areas and populations.

This does not mean that there may not be isolated pockets within the other census county divisions that are medically underserved. Wilmington, for example, seemingly has a sufficient supply of primary care physicians, but they also see patients from outside the city. This may leave the minority community with too few physicians to meet their needs.

In New Castle County there are four census county divisions (Lower Christiana, New Castle, Newark and Middletown-Odessa) with a need for additional primary care physicians. In general, this is indicative that the physicians are unevenly distributed across New Castle County.

Kent County has a very different profile. Most of the primary care physicians appear to be focused around Dover, Smyrna and Milford. None of the physicians surveyed reported working in two of the census county divisions (Kenton, Central Kent). Both of these census county divisions are clearly lacking in primary care physicians but are adjacent to areas with more physicians.

Primary care physicians are unevenly distributed throughout Sussex County. Seaford Georgetown and Lewes census county divisions are all well supplied with primary care

physicians. Milford South and Bridgeville-Greenwood census county divisions also have an adequate number of primary care physicians. Milton and Milsboro census county divisions are significantly underserved. The Laurel-Delmar census county division crosses the 3,000:1 ratio and is underserved. Selbyville is on the edge of crossing the adequacy ratio, and it is expected that the summertime populations could well place strain on the supply of the primary care physicians there.

Figures 4.2 through 4.4 show the distribution by primary care specialty. There are no specific standards related to these specialties like there are for primary care physicians in general. Therefore, the scale and associated colors vary between maps and differ from Figure 4.1, above (however the scales are the same as in the Primary Care Physician 2006, 2008 and 2011 reports).

Family practice physicians, who are about one third of all primary care physicians, are distributed similarly to primary care physicians in general (Figure 4.2). Thus, one would expect a general movement from a dark green/pink map to a red/dark red map. Assuming that the adequacy ratio of population to Family practice/General practice is under 2,000:1 (dark green & light green), there are only five census county divisions that meet this criterion. Interestingly, each county has at least one census county division that meets this criterion. Also, the most adequately served CCD by family practice physicians is Upper Christina in New Castle County.

OBGYNs are spatially much more concentrated than all other primary care physicians according to this survey. Only 11 of the 27 CCDs had OBGYN practice sites reporting. These practice sites were likely to be associated with a CCD that had a hospital or was adjacent to a CCD with a hospital. Undoubtedly, both the type of practice and the need to have immediate access to a hospital influences this spatial relationship. It also suggests that women requiring the services of an OBGYN must expect to travel. The unevenness of the spatial distribution will also impact the accessibility of OBGYNs as primary care physicians of which there are 14%.

In Figure 4.4, the ratio of pediatricians to the youth population is displayed. Pediatricians are almost 24% of the primary care physicians. They are spatially distributed more broadly than OBGYNs (15 CCDs compared to 10) but less so than primary care physicians in general. There is an orientation toward hospitals but not anywhere near the degree of OBGYNs. Probably the most underserved areas with respect to this specialty are southern Kent and southern Sussex counties.

Figure 4.2
Number of Persons per Family Practice Physician
by Census County Division

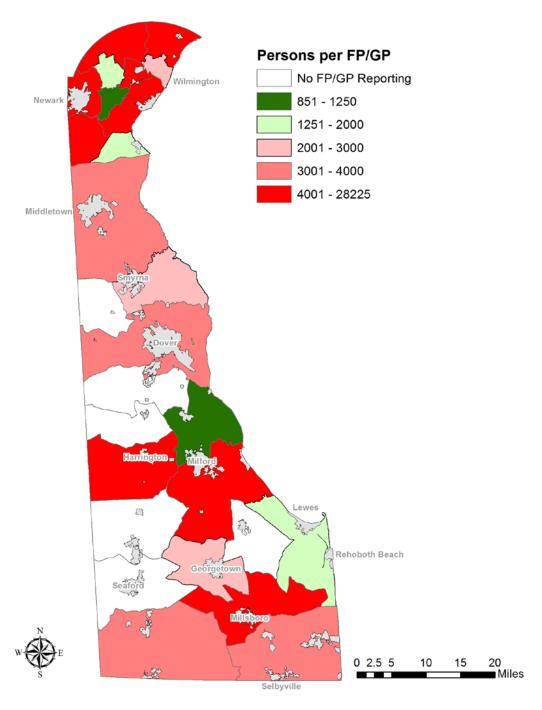


Figure 4.3
Number of Women (15-64) per OBGYN
by Census County Division

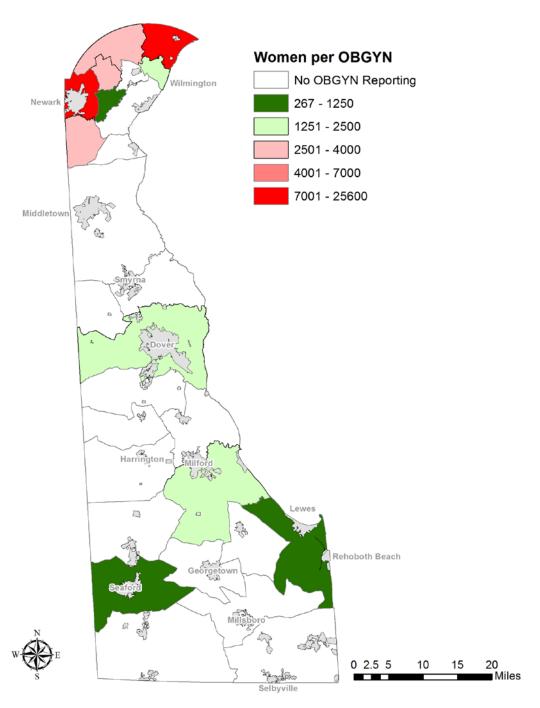
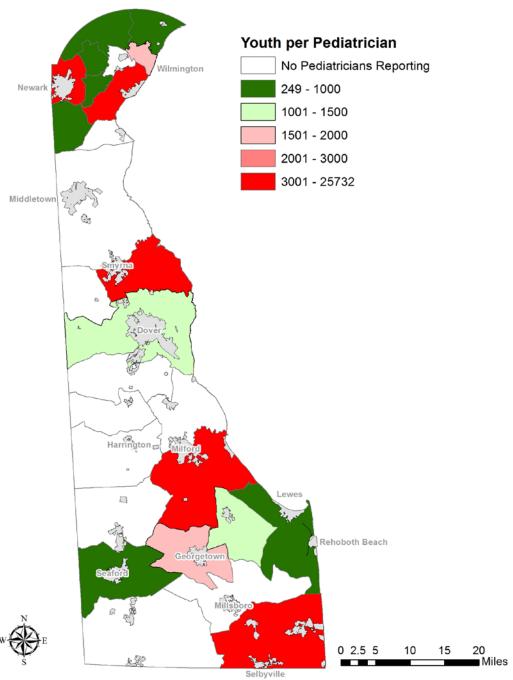


Figure 4.4
Number of Youth (0-19) per Pediatrician
by Census County Division



Observations

The Primary Care Physician in Delaware survey in its seventh round provides timely and up to date insights into the primary care profession across Delaware. The data collected allows the estimation of the number of active primary care physicians in the State, along with the full time equivalent count, demographic characteristics, practice attributes and spatial distribution of Delaware's primary care physicians. A summary of the selected findings is presented here:

- In 2013 there were 862 active primary care physicians in Delaware. Accounting for the time they offer direct patient care, the estimated Full Time Equivalent is 707 physicians.
- In general, there are a sufficient number of primary care physicians in Delaware (1,274:1) although their location and specialty is probably not optimal.
- While today, there are sufficient numbers of physicians, their numbers are at the upper range of what is desirable (1,250:1). Both Kent County (1,661:1 down from 1,764:1 in 2011) and Sussex County (1,271 up from 1,225:1 in 2008) are above that ratio.
- Kent County's physicians were least optimistic (58%) when asked if they will be active in the field 5 years from now, compared with 71% in Sussex County and 74% in New Castle County.
- Looking at the oldest age group (65 and above) of primary care physicians, about a quarter of Kent County's physicians are in this age bracket compared with 10 percent in New Castle County and 12 in Sussex County.
- About 56% of Delaware's physicians went to high school in the region; over half of them graduated from a medical school in the region, and 80% of them completed their medical residency in the region.
- Eighty-six percent of primary care physicians are accepting new patients but the proportion accepting new Medicare and Medicaid patients (68-77%) is much lower.
- Over sixty percent of primary care physician's time is devoted to serving Medicare and Medicaid patients while these populations represent less than 20% of the population.
- About 55% of primary care physicians employ non-physician services from advanced practice nurses, physician assistants, and others.
- Primary care physicians are fairly well distributed in sub-areas of Delaware's counties. The only exception to this finding is for OBGYNs that tend to be located in close proximity to hospitals.

APPENDIX



DELAWARE PHYSICIAN SURVEY 2013

Commissioned by Delaware Health and Social Services

(#CADSRID#)

INSTRUCTIONS

 Mail your completed form in the attached prepaid envelope or mail it to:

University of Delaware CADSR - Graham Hall Newark, DE 19716 • Use either a pen or pencil when completing the questionnaire.

- Follow all "SKIP" instructions after answering a question. If no instructions are provided, continue to the next question.
- If you have any questions, contact the Center for Applied Demography & Survey Research at the University of Delaware by calling 302-831-3320.

PURPOSE – Results from the survey will be used to help state and local governments along with employers and educational institutions to plan for an adequate supply of health professionals in the state.	SCOPE – All physicians licensed to practice in the State of Delaware. Even if you do not practice in Delaware please complete the questionnaire. PARTICIPATION – Your participation is voluntary. However, your responses are important to ensure adequate health care for Delaware's residents.					
If you would like to see a copy of the report based on the survey conducted in 2010, point your browser to: http://www.cadsr.udel.edu/projects/DOCUMENTS/phy1101.pdf						
1. Are you currently active in clinical medicine in Delaware? (i.e.: seeing patients and/or doing things necessary for the care of patients):	4. Setting of primary employment is (check all that apply): Clinical Care Settings: Practitioner's Office (solo, partner of group practice) Hospital (except federal) Nursing Home Freestanding Clinic (administratively distinct from a hospital, nursing home, etc.) Federally Qualified Health Center Treatment Facility for the Handicapped or Disabled Other (specify):					
Hours - Other (specify):						

5. Form of primary employment is (check all that			
apply):	QUESTIONS BELOW PERTAIN TO YOUR		
1 ☐ Self-Employed: 1 ☐ Solo Practice	PRIMARY LOCATION IN DELAWARE ONLY		
2 ☐ Partner of Group Practice			
3 ☐ Other (<i>specify</i>):	8. What type of site is the primary location?		
2 Salaried, Employed by:	1 ☐ Practice Office		
1 ☐ Individual Practitioner	2 Clinic		
2 Partnership or Group Practitioners	₃ ☐ Hospital		
₃☐ Group Health Plan Facility (HMO,	4 ☐ Other (specify):		
PPO, etc.) 4 ☐ Hospital			
5 Other Non-Government Employer			
(school, etc.)	9. Using the medical specialty codes found on page 6,		
 6 ☐ Federal Government 7 ☐ Federally Qualified Health Center 	please identify all medical specialties you practice at this site. Also, for each medical specialty, indicate:		
8 State Government (public health, etc.)	(a) the average number of hours per week spent		
	delivering direct patient care and		
9 ☐ Other (specify):	(b) if you are Board certified or eligible.		
6. What are the practice name, facility name, address and zip code for <i>each</i> of the locations in Delaware	Specialty Hours of Direct Status for Each Code Care per Week: Specialty:		
where you practice medicine?	☐ Board Certified		
Primary Location (most time delivering care)	Board Eligible		
Practice Name (example: Bear-Glasgow Dental)	Board Certified Board Eligible		
	☐ Board Certified		
Facility Name (People's Plaza)	Board Eligible		
radiity Harrie (recipie 3 riaza)			
	IF YOU SPEND NO TIME DELIVERING PRIMARY		
Street Address	· ·		
	<u>CARE</u> AT THIS SITE (i.e.: internal medicine (IM), pediatrics (PD), general practice (GP), family practice (FP) or obstetric		
City State ZIP code	&/or gynecology (OB/GYN)),		
2 ☐ Secondary Location	PLEASE SKIP TO PAGE 4, QUESTION 34, OTHERWISE		
z = cocomany cocanom	COMPLETE THE FOLLOWING:		
Practice Name (example: Bear-Glasgow Dental)			
, , , , , , , , , , , , , , , , , , , ,	10. On average, about how many hours per week do you		
Facility Name (People's Plaza)	spend providing primary care, both ambulatory and		
r actinty rearrie (i eopie s r laza)	hospital follow-up, in one or more of the following		
	areas ONLY Primary Care Hours of Direct		
Street Address	Primary Care Hours of Direct Specialty Care per Week		
	Internal Medicine		
City State ZIP code	(IN)		
₃ ☐ Tertiary Location			
• 11111	Pediatrics (PD)		
Practice Name (example: Bear-Glasgow Dental)	General Practice		
	(GP)		
Foolity Name (Decade Place)	Family Practice (FP)		
Facility Name (People's Plaza)	Obstetrics &		
	gynecology		
Street Address	(OB/GYN)		
	-		
City State ZIP code	_ 11. Do you see obstetrical and/or gynecological patients		
7. What percentage of your working hours in Delaware	at this site?		
do you spend at each of the locations listed above?	₁ ☐ Yes		
	2 □ No		
Percent – Primary Location			
2 Percent – Secondary Location			
3 Percent – Tertiary Location			
100 Percent – Total			

12. Do you see pediatric patients at this site? Yes 2 No	20. Are you currently treating MEDICARE patients at this site? 1			
14. Do you offer Saturday and/or Evening hours?	1 ☐ Yes 2 ☐ No			
Saturday 1 Yes 2 No	22. On average, what percentage of your time is spent delivering primary care to migrant farm workers? (chose one number below):			
If YES, how many Saturdays a month? Saturdays per month	1 □ 0% 5 □ 40% 9 □ 80% 2 □ 10% 6 □ 50% 10 □ 90% 3 □ 20% 7 □ 60% 11 □ 100%			
Evening 1 Yes	4 □ 30% 8 □ 70% 			
₂ ☐ No If YES, how many days a week?	23. On average, what percentage of your time is spent delivering primary care to self-paying patients? (chose one number below):			
Days per week	1 □ 0% 5 □ 40% 9 □ 80% 2 □ 10% 6 □ 50% 10 □ 90% 3 □ 20% 7 □ 60% 11 □ 100%			
15. When a patient calls your office to request a routine (non-emergency) appointment, what is the usual elapsed time between the request and the resulting appointment for new and established patients (days)? New patients Days Not Applicable	24. On average, what percentage of your time is spent delivering primary care to patients who are charged on a sliding fee scale based on the patient's family income? (please chose one number, below): 1 0% 5 40% 9 80% 2 10% 6 50% 10 90% 3 20% 7 60% 11 100% 4 30% 8 70%			
16. Do you provide SAME DAY appointments for existing patients who call for a sick appointment? 1 Yes 2 No	25. Does this site employ any non-physician clinicians: including advanced practice nurses (APN), certified nurse midwives (CNM), physician assistants (PA) or similar advanced practitioners in primary care (check			
17. Are you currently accepting new patients? 1 Yes 2 No	all that apply)? 1 ☐ APN			
18. Are you currently treating MEDICAID patients at this site? 1 Yes 2 No If YES, about what percentage of your total hours is spent delivering primary care to MEDICAID patients at this site? (please chose one number, below)	26. If non-physician clinicians are employed, what percentage of the practice is treated by them? 1 0% 5 40% 9 80% 2 10% 6 50% 10 90% 3 20% 7 60% 11 100% 4 30% 8 70%			
1	27. Do you treat patients who have difficulty understanding English? 1 ☐ Yes 2 ☐ No			
19. Are you accepting new MEDICAID patients at this site?	If YES, about what percentage of your time is spent delivering primary care to these patients?			
1 ☐ Yes 2 ☐ No	Percent			

28. Are there medical professionals at this site who have the ability to communicate with patients in a language other than English?	37. Please indicate the hospital(s) and state(s) where you did your residency			
1	Hospital name State (country if appl.)			
2 ☐ French 5 ☐ Other (specify):	Hospital name State (country if appl.)			
3 Arabic	Hospital name State (country if appl.)			
29. Do you provide charity care (no fee expected) inside your office? 1 ☐ Yes 2 ☐ No	38. What is your race? 1 ☐ Caucasian or White 2 ☐ African American or Black 3 ☐ Native American or Alaskan			
30. Do you provide charity care (no fee expected) outside your office? 1 ☐ Yes 2 ☐ No	Native American of Alaskan Asian or Pacific Islander Multi-Racial Other (specify):			
31. Do you offer flexible or installment payment plans, which would allow patients to pay for services over a period of time? ₁ ☐ Yes	39. Are you of Hispanic origin? 1 Yes 2 No			
2 No No No you allow patients to negotiate charges for	40. What is your gender? 1 ☐ Male 2 ☐ Female			
services rendered? 1 Yes 2 No	41. What is your year of birth?			
33. Do you belong to a managed care provider network?	42. Do you have a Delaware <u>business</u> license? 1 Yes 2 No			
	 Does your practice use computers/information technology for any of the following (check all that apply):. 			
34. Do you expect to be active in clinical medicine in Delaware 5 years from now? 1 ☐ Yes 2 ☐ No 3 ☐ Unsure	1 ☐ Billing 2 ☐ Scheduling 3 ☐ E-mail or Messaging with patients 4 ☐ Electronic order entry 5 ☐ E-prescribing			
If NO, or UNSURE, what are the primary reasons you might not be practicing in Delaware?	6 ☐ Electronic laboratory/radiology result reporting 7 ☐ Other (specify):			
	44. Does your office <u>currently</u> use Electronic Health Records (EHR) for your patients? 1 ☐ Yes 2 ☐ No			
35. State (or country if applicable) of residence at time of high school graduation.	If NO, do you expect to be using them by the end of the year 2013?			
State (country if applicable)	2 ☐ No If NO, why not?:			
36. From which medical school did you graduate?				
Name of medical school Year (YYYY)	(GO TO QUESTION 45)			
State (country if applicable)				

Network (DHIN), a service that provides physicians electronic access to clinical health information from the majority of Delaware's hospitals and reference laboratories using one standard format? 1 Yes 2 No (GO TO QUESTION 49)	Prenatal and Postpartum Care service providers (Christiana Care's Healthy Beginnings, Westside Family Health, St. Francis' Tiny Steps, St. Francis' Center of Hope, La Red Health Center)?
46. Does your office practice currently participate in DHIN? 1 Yes (GO TO QUESTION 48) 2 Unsure (GO TO QUESTION 48) 3 No (GO TO QUESTION 47)	52. Do you refer your patients to any of the following Preconception Care service providers (Christiana Care's Healthy Beginnings, Westside Health, Planned Parenthood of Delaware, Children and Families First ARC Program)? 1 Yes 2 No
47. If you currently do not participate in DHIN, do you plan to participate in the future? 1 Yes 2 No If YES, would you like someone from DHIN to contact you to enroll? 1 Yes (if you chose YES, your name and address will be provided to DHIN, no other information reported on this survey will be disclosed) (GO TO QUESTION 48)	53. Culturally competent health care providers that are respectful of and responsive to the health beliefs, practices and cultural and linguistic needs of patients can help bring about positive health outcomes for diverse populations. Would you be interested in participating in a 1 day free cultural competency training program if the Division of Public Health offered one? 1 Yes 2 No
If NO, why not?: (GO TO QUESTION 49) 48. If a fee was assessed for the ability to have unlimited access to clinical results and reports on your patients from multiple sources (labs, radiology, transcriptions, medications) through the DHIN, how much would you be willing to pay per month for that service? 1	54. Is your practice certified or working to become certified a Patient Centered Medical Home? 1 Yes, already certified as a Patient Centered Medical Home 2 Currently working on getting certified as a Patient Centered Medical Home 3 No 55. If you have any comments, please feel free to include them in the space provided below.
49. Is your facility compliant with the Americans with Disabilities Act (ADA) (e.g., do you have access ramps, doors wide enough for a wheelchair and exam tables that lower to accommodate persons in wheelchairs)? 1 Yes 2 No	
50. How familiar are you with the concept of a patient centered medical home? 1 No knowledge of concept 2 Some knowledge/not applied 3 Knowledgeable/concept sometimes applied in practice 4 Knowledgeable/concept regularly applied in Practice	Thank you for completing the Delaware Physician Survey 2013. Return the completed form to: University of Delaware, CADSR Graham Hall Newark, DE 19716

AMA Self-Designated Practice Specialty Codes

(Listed alphabetically by specialty name)

	(-		ipriazeticany by opeciany name,		
AS	Abdominal Surgery	GP	General Practice	PMD	Pain Medicine
ADM	Addiction Medicine	GPM	General Preventive Medicine	PDA	Pediatric Allergy
ADP	Addiction Psychiatry	VS	General Vascular Surgery	PDC	Pediatric Cardiology
ADL	Adolescent Medicine	GS	General Surgery Geriatric Medicine (Family	CCP	Pediatric Critical Care Medicine
OAR	Adult Reconstructive Orthopedics	FPG	Practice) Geriatric Medicine (internal	PEM	Pediatric Emergency Medicine
AM	Aerospace Medicine	IMG	Medicine)	PDE	Pediatric Endocrinology
Α	Allergy	PYG	Geriatric Psychiatry	PG	Pediatric Gastroenterology
Al	Allergy & Immunology	GYN	Gynecology	PHO	Pediatric Hernatology/Oncology
ALI	Allergy & Immunology/Clinical and Laboratory Immun.	GO	Gynecological Oncology Hand Surgery (Orthopedic	PN	Pediatric Nephrology
PTH	Anatomic/Clinical Pathology	HSO	Surgery)	PO	Pediatric Ophthalmology
ATP	Anatomic Pathology	HNS	Head & Neck Surgery	POO	Pediatric Otolaryngology
OP	Pediatric Orthopedics	HEM	Hematology (Internal)	PIP	Pediatric Pathology
AN	Anesthesiology	HMP	Hematology Pathology)	POP	Pediatric Pulmonology
BBK	Blood Banking Transfusion Medicine	HEP	Hepatology	PDR	Pediatric Radiology
ICE	Cardiac Electrophysiology	IG	Immunology	PPR	Pediatric Rheumatology
CD	Cardiovascular Disease	PIP	Immunopathology	NSP	Pediatric Surgery (Neurology)
CDS	Cardiovascular Surgery	ID	Infectious Disease	PDS	Pediatric Surgery (Surgery)
PCH	Chemical Pathology	IM	Internal Medicine	UP	Pediatric Urology
CHP	Child and Adolescent Psychiatry	LM	Legal Medicine	PD	Pediatrics
CHN	Child Neurology	MFM	Maternal & Fetal Medicine	PM	Physical Medicine & Rehabilitation
CEIG	Clinical Biochemical Genetics	MG	Medical Genetics	PS	Plastic Surgery
CCG	Clinical Cytogenetics	MM	Medical Microbiology	Р	Psychiatry
CG	Clinical Genetics	ON	Medical Oncology	PYA	Psychoanalysis
DDL	Clinical and Laboratory Dermatological Immunology	ETX	Medical Toxicology (Emergency Medicine)	PH	Public Health and General Preventive Medicine
ILI	Clinical and Laboratory Immunology (internal Medicine)	PDT	Medical Toxicology (Pediatrics)	PUD	Pulmonary Disease
PLI	Clinical and Laboratory Immunology (Pediatrics)	PTX	Medical Toxicology (Preventive Medicine)	RO	Radiation Oncology
CMG	Clinical Molecular Genetics	ОМО	Musculoskeletal Oncology	RP	Radiological Physics
CN	Clinical Neurophysiology	NPM	Neonatal-Perinatal Medicine	R	Radiology
CLP	Clinical Pathology	NEP	Nephrology	RIP	Radioisotopic Pathology
PA	Clinical Pharmacology	N	Neurology	REN	Reproductive Endocrinology
CRS	Colon & Rectal Surgery	NS	Neurological Surgery	RHU	Rheumatology
004	Critical Care Medicine	ND	Navana shala ay	FOM	Sports Medicine (Emergency
CCA	(Anesthesiology) Critical Care Medicine (Internal	NP	Neuropathology	ESM	Medicine)
CCM	Medicine) Critical Care Medicine (Neurological	RNR	Neuroradiology	F.3M	Sports Medicine (Family Practice)
NNC	Surgery)	NM	Nuclear Medicine	ISM	Sports Medicine (Internal Medicine)
occ	Critical Care Medicine (Obstetrics & Gynecology)	NR	Nuclear Radiology	OSM	Sports Medicine (Orthopedic Surgery)
PCP	Cytopathology	NTR	Nutrition	PSM	Sports Medicine (Pediatrics)
					Surgery of the Hand (Plastic
D	Dermatology	OBS	Obstetrics	HSP	Surgery)
DMP	Dermatopathology	OBG	Obstetrics & Gynecology	HSS	Surgery of the Hand (Surgery)
DIA	Diabetes	OM	Occupational Medicine	CCS	Surgical Critical Care (Surgery)
DR	Diagnostic Radiology	OPH	Ophthalmology	TS	Thoracic Surgery
EM	Emergency Medicine	ORS	Orthopedic Surgery of the	TRS	Traumatic Surgery
END	Endocrinology, Diabetes and Metabolism	oss	Orthopedic Surgery of the Spine	LIM	Underseas Medicine
FPS	Facial Plastic Surgery	OTR	Orthopedic Trauma	U	Urology Vascular and Interventional
FP	Family Practice	ОТО	Otolaryngology	VIR	Radiology Other (i.e., a specialty other than
FOP	Forensic Pathology	ОТ	Otology	os	those appearing above)
GE	Gastroenterology	APM	Pain Management (Anesthesiology)		

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