Pediatrician preferences, local resources, and economic factors influence referral to a subspecialty access clinic

Matthew D. Di Guglielmo^{1,4}, Jay S. Greenspan^{2,5} and Diane J. Abatemarco^{3,5}

Background: Pediatric patients seek timely access to subspecialty care within a complex delivery system while facing barriers: distance, economics, and clinician shortages. Aim: We examined stakeholder perceptions about solutions to the access challenge. We engaged over 300 referring primary care pediatricians in the evaluation of Access Clinics at an academic children's hospital. Methods: Using an anonymous online survey, we asked pediatricians about their and their patients' experiences and analyzed factors that may influence referrals. Findings: Referring pediatricians reported satisfaction; they provided feedback about their patients' experiences, physician communication, and referral influences. Distance from the Access Clinic does not correlate with differences in referral volume; living in areas with higher child populations and higher median income is associated with more referrals. Referring pediatricians have strong opinions about referrals, are attuned to patient experiences, and desire bi-directional communication. Multiple factors influence referral to and acceptance of Access Clinics, but external influences have less impact than expected.

Key words: health care access and delivery; practice transformation; subspecialist shortages

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Introduction

Pediatric subspecialist shortages in the United States challenge health systems' ability to provide timely access to care (Children's Hospital Association, 2012; Ray et al., 2014). The primary care physician (PCP) coordinates clinical care and resource utilization (Donohoe et al., 1999; Weeks and Wallace, 2003), identifies conditions and

Correspondence to: Dr Matthew D. Di Guglielmo, Clinical Assistant Professor of Pediatrics, Division of Gastroenterology, Hepatology, and Nutrition, Nemours/Alfred I. duPont Hospital for Children, 1600 Rockland Road, Wilmington, DE 19803, USA. Email: mdigugli@nemours.org

complaints outside the scope of primary care, and refers to subspecialists or hospitalists (Fernandez et al., 2000; Rappaport et al., 2013). The pediatric subspecialist is a pediatrician who seeks additional fellowship training and specializes in care of more complex patients with a more specific organsystem focus. Due to large regional shortages of fellowship-trained pediatric subspecialists (Children's Hospital Association, 2012), patients experience long wait times for new appointments. In addition, pediatric subspecialists have high volumes of referred patients without complex issues; rather, with common organ-system specific pediatric concerns. Often, PCPs are faced with managing high volumes of low-complexity patients

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¹Clinical Assistant Professor of Pediatrics, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA, USA

²Professor of Pediatrics, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA, USA ³Associate Professor of Pediatrics, Sidney Kimmel Medical College of Thomas Jefferson University, Philadelphia, PA, USA

⁴Division of Gastroenterology, Hepatology, and Nutrition, Nemours/Alfred I. duPont Hospital for Children, Wilmington, DE, USA

⁵Department of Pediatrics, Nemours/Alfred I., duPont Hospital for Children, Wilmington, DE, USA

but with limited time to address some organsystem specific health needs.

Improving access to care is a focus of significant efforts in today's changing health system (Green et al., 2007; Berwick et al., 2008). Our children's hospital's approach to improving access arose through input of clinicians (subspecialists and generalists), administrators, family advisory council members, and referring PCPs (Sharif et al., 2012). Access Clinics combine an 'Access Pediatrician' (AP), a board-certified general pediatrician embedded within subspecialty divisions who functions as a 'generalist-as-specialist', with specific nurse navigation for patient triage of patients with low-complexity complaints (Di Guglielmo et al., 2013). Side-by-side practice within the subspecialty's clinical space and real-time availability of consultation with subspecialists enhance the AP's expertise. At scheduling, patients or PCPs may request to not see the AP, and these patients are scheduled directly with the subspecialist. However, use of APs can increase access and provide timelier visits while removing barriers to evaluation for patients; as a result, subspecialists are free to see more complex and acutely ill patients.

Evaluating the sustainability of Access Clinics as care delivery transformation requires analysis of the factors driving referrals and assessment of referring physician perceptions (Fernandez et al., 2001; Pletcher et al., 2010). Sustainable transformation relies on understanding practice culture and its effect on practice change, PCP perceptions and needs (Dempster et al., 2015), and the 'buy-in' of referring PCPs (Abatemarco et al., 2008; 2012). The present study aims to determine the referring PCPs' most prevalent perceptions about the AP/Access Clinics as well as to characterize the influence of external factors.

Methods

Study period, data

Access Clinic encounters between September 2011 and April 2014 were reviewed; PCP office ZIP code and number of patients referred were recorded. The Institutional Review Board waived approval of the research study, #306671.

Survey

Eligible PCPs (referred at least three patients) were individually and anonymously surveyed with online questionnaires (eight questions) using

REDCap software (Harris et al., 2009). Results were collected over 100 days beginning in April 2014. The survey queried perceptions of communication with the Access Clinic, satisfaction with patient care, knowledge about the Access Clinic, and reasons for referral. The survey solicited openended comments ('Please provide any feedback, comments, or questions'). We coded qualitative data by major themes (Crabtree et al., 1998).

Geographic and economic data collection

Distance between ZIP codes and the Access Clinic were obtained from www.googlemaps.com. Census data on population, households with children <18, median income, and number of health practitioners per ZIP code were obtained from www.factfinder2.census.gov. ZIP code data for referring PCP offices were stratified into quartiles by ranking the number of patients referred per PCP. We reported the top quartile.

Statistical analysis

Descriptive statistics were calculated. In the analysis of ZIP code data, linear regression represented ZIP code rank against each dependent variable, using the best fit trend line (R^2) .

Results

Patient characteristics

Patients were majority female; aged <1–17 years distributed in quintiles of four-year increments above age 1 (Table 1). A total of 62.3% of families were privately insured. Of the 2139 new outpatients, 1438 (67.2%) were referred by their PCP.

Referring PCP characteristics

PCPs were employed by either the children's hospital's primary care network of practices or were unaffiliated and working in community practices. Three hundred twenty PCPs were eligible (patients referred: range 3-85, median 6.5, IQR 8) including 47 hospital-affiliated PCPs (14.7%) and 273 non-affiliated PCPs (85.3%). Of note, 21 hospital-affiliated PCPs and 49 nonaffiliated PCPs referred 12 or more patients (top quartile). Surveys were emailed to 41 hospitalaffiliated PCPs (six had left the hospital network at

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Table 1 Demographics; frequency of referrals

Category	Ν	%
Sex		-
Female	1082	50.6
Male	1057	49.4
Age (years)		
<1	423	19.8
1–4	451	21.1
5–8	431	20.1
9–12	414	19.4
13–17	420	19.6
Insurance		
Private	1332	62.3
Public	747	34.9
Other	33	1.5
None	27	1.3
Referral source		
Primary Care Physician	1438	67.2
Self-referred	324	15.1
Emergency Department	127	5.9
Other specialists	173	8.1
Other	8	0.4
Multiple sources	69	3.2

the time of the survey) and 103 non-affiliated PCPs. Of the remaining 170 non-affiliated PCPs, 151 were successfully contacted by fax.

Survey response

Thirty-three hospital-affiliated PCPs and 42 nonaffiliated PCPs responded to the emailed survey; five non-affiliated PCPs responded to the faxed survey invitation. Email response rate was 52.1% (75/144); overall response rate was 27.1% (80/295). The PCPs in the top quartile responded to the survey at a rate of 51.4% (36/70). PCPs were somewhat [23%] or definitely [70%] satisfied, viewed patients having had somewhat [29%] or very [63%] positive experiences, and knew the type of patients appropriate for Access Clinic evaluation (PCPs somewhat [24%] or definitely [65%] understood). Reasons for referral were varied, focusing on patient needs and practice limitations, but also family preference, shortened wait times, and prior unsuccessful management. The most common reasons for referral were: 'I felt patient needed appointment sooner than subspecialty could accommodate' (61%) and 'family requested referral' (58%). Forty-six percent and 44%, respectively, responded that the reasons for referral were: 'Unsuccessful in managing patient with these

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symptoms' and 'Beyond scope of practice.' PCPs responses indicated they found follow-up communication from the AP to be helpful (23% somewhat, 74% definitely) and 80% would like to be able to communicate more with the AP, although only 44% reported contacting the AP after their patient's visit. PCPs indicated direct phone call (35%), Electronic Medical Record message (21%), or email (21%) as top communications preferences.

Qualitative comments

Of the 80 survey responses, 24 PCPs provided comments (30.0%, Table 2): positive experiences about efficient and appropriate care; constructive comments about communication; and critical comments expressing dissatisfaction due to preference for subspecialist care.

Geographic and economic trends

The study area included 11 urban clusters and three urbanized areas with the remaining regions predominantly rural. PCPs were located in a variety of geographic areas throughout the state (the hospital's primary service area) and region. The top quartile of ZIP codes, ranked by patients per referring PCP (range 3–31, median 5.9, IQR 4.85), contained 21 ZIP codes, with all but one within the state (Table 3). One ZIP code (19902) had unavailable census data.

The five ZIP codes with the most patients referred corresponded to suburban population centers (Table 3, column 3). The ZIP code where the Access Clinic is located, 19803, represented 25.7% of patients. Examining the next five ZIP codes with the most patients referred, the average distance traveled was 25 miles (range 11–54 miles, median 20 miles, and IQR 10 miles). The five ZIP codes with the most referrals per PCP corresponded to five different urban and suburban population centers (average 21 patients/PCP, range 14–31, median 20.5, IQR 4.6; Table 3, columns 3–5). The average distance traveled from the five ZIP codes was 44.8 miles (range 14–90 miles, median 47 miles, IQR 33 miles; Table 3, column 6).

For the top quartile of PCPs, the PCPs that referred the most patients were no farther away than the PCPs that referred the least patients (Figure 1a, $R^2 = 0.0007$). The lack of correlation extended to the entire cohort of PCPs (data not shown).

Table 2 Qualitative comments from referring PCP survey

Positive experiences

'I love that my patients can go into see providers at the access clinic much faster now'

'I wish there were more [Access Clinics]'

'So far, we have used Access for families desiring rapid consultation but without urgent issues'

I really appreciate being able to have my patients seen quickly when I am worried about them or have reached a point when I need a subspecialist opinion'

'It is very helpful to receive an updated email from the specialty clinic after they have seen one of my patients. This allows me to provide continued care as needed'

'Patients have been pleased about early appointment availability and the expertise of the providers'

'In general I do like the idea of this type of program as many of the issues for which we refer can be handled by someone working with the subspecialist, and parents appreciate the more timely appointments'

'I think [access clinic is] great for things that I can manage but the family feels that they need to be seen by a specialist'

Suggestions for improvement

'Would be nice if there was an option in the [Electronic Medical Record] as to whether I would prefer access clinic or only subspecialty'

'What is best way to refer directly to Access Center of each department?'

'Overall satisfied. Some concerns/questions: would like intermittent updates on what specialty access clinics are available and what the actual wait time is?'

'It would be nice, as the program progresses, to have something printed up for providers making the referral to give us more information on the program and perhaps the scope of typical issues which would be better referred to these programs'

'Access clinic has been very effective in decreasing wait time to be seen. It would be helpful to receive a 'wrap up' letter after labs/studies completed and communicated to the family, particularly if deemed no further follow up appointment is necessary'

Dissatisfaction and criticisms

'I only use the access doctors if I don't believe a specialist is needed but the patients insist. I have been dissatisfied with placement of very complicated patients in the access clinic when we have referred for consult'

[Access Providers] are helpful when patient has not seen PCP for problem. They are not helpful when PCP has already tried to manage the problem and failed treatment.'

'Support the idea, just that one size does not fit all. I treat most [issues appropriate for AP] in my office. For some of these patients I tell them to request specialist, NOT access, since I feel I have done already what they will do. I also call specialist directly when have specific concerns'

'Maybe access clinics are more appropriate for referrals from non-pediatric practices'

PCP = primary care physician.

ZIP codes with the most frequently referring PCPs had varied median incomes (range \$26 955-\$137 617; median \$63 154.50; IQR \$18 240), and slightly higher ratios of median income to state median income (\$60119, Figure 1b). The same ZIP codes had higher numbers of health care practitioners (range 105-1266; median 427; IQR 331; Figure 1c) and higher proportions of children to adults (range 13–33%; median 27%; IQR 6%, Figure 1d).

Discussion

The Access Clinic transforms outpatient subspecialty care delivery at the children's hospital studied. The intent of the Access Clinic is (a) to provide appropriate and comprehensive care when the patient wants it and needs it, and (b) to direct the patient back to the PCP, or on to the subspecialist, as clinically warranted. The referring PCP is essential to the Access Clinic model as co-manager of the patient. Continuous improvement of the innovative care delivery system requires the PCP perspectives identified in the survey to be integrated with other stakeholder input, patient experiences, health outcomes, and cost effectiveness data (Kleinman and Dougherty, 2013).

The primary aim of the study is to examine stakeholder perceptions. Referring PCPs are satisfied with the Access Clinic due to shorter wait

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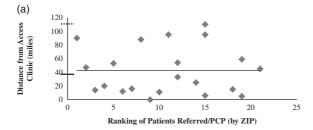
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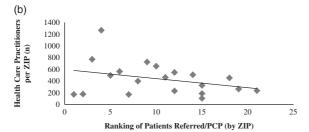
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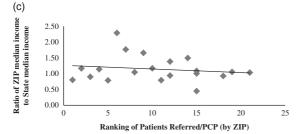
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ZIP City/Town in Total Total **Patients** Distance Homes with Median ZIP median income/ Health care Delaware unless patients **PCP** referred/ (miles) children < 18 income 2012 State median income practitioner indicated referred (n) (n) **PCP** (n) (\$) (\$) (n) 19947 93 3 31.0 90 2078 48 227 0.80 172 Georgetown Clayton 19938 21 1 21.0 47 1219 70 147 1.17 178 Newark 19720 41 2 20.5 8033 54 085 0.90 771 14 Newark 19702 295 18 16.4 20 7686 68 547 1.14 1266 19901 28 2 53 4539 47 274 0.79 495 Dover 14.0 6 19707 76 12 2186 137 617 2.29 564 Hockessin 12.7 Avondale, PA 19311 25 2 12.5 16 1266 92338 1.77 171 6 399 Milton 19968 74 12.3 88 1102 62899 1.05 Wilmington 19803 256 21 12.2 0 2504 99 644 1.66 725 Wilmington 19808 150 13 11.5 11 4591 70 305 1.17 654 Seaford 19973 102 9 11.3 95 3102 47 645 0.79 463 Dover 19904 231 21 11.0 54 4254 56 496 0.94 547 19734 33 1727 83 185 231 Townsend 11 1 11.0 1.38 12 25 Middletown 19709 129 10.8 5542 89852 1.49 507 3 95 Rehoboth Beach 19971 30 10.0 857 60 479 1.01 326 2 Wilmington 19801 20 10.0 6 2003 26 955 0.45 187 Ocean View 19970 10 1 10.0 446 65 275 1.09 105 110 22 454 Newark 19713 217 9.9 15 3842 55 685 0.93 Dover AFB 2 Unavailable 19902 19 9.5 59 Unavailable Unavailable Unavailable Wilmington 19809 19 2 9.5 5 1691 63 410 1.05 264 19977 47 5 9.4 45 2876 62 195 237 Smyrna 1.03

PCP = primary care physician.







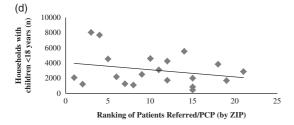


Figure 1 Rank of patients referred per primary care physician (PCP) by ZIP against (a) distance (in miles) of each PCP in Table 3. Y-axis solid line: distance cut-off between hospital's primary and secondary service areas; stippled line: between secondary and tertiary. (b) Ratio of ZIP to State median income; (c) number of health care practitioners from each ZIP; (d) number of households with children under 18 for each ZIP. Linear regressions: (a) $R^2 = 2 \times 10^{-6}$, (b) $R^2 = 0.0267$, (c) $R^2 = 0.1053$, (d) $R^2 = 0.0652$.

times and high quality care. The PCP is referring to a 'generalist-as-specialist,' not another PCP (Sharif et al., 2012). PCPs are comfortable with which patients to refer and are satisfied with the Access Clinic. Many PCP comments and survey responses (Table 2) regarding the care their patients experienced provide constructive feedback with themes of family preference, AP expertise, timely care delivery, and bi-directional communication.

Another aim of the study is to understand the influence of external factors on referrals. PCPs refer to the Access Clinic from different population centers and areas with varied PCP densities and diverse demography. Overall, patients came from an average of 25 miles away, but patients referred by the PCPs with the highest referral rate traveled an average of almost 45 miles. Distance was no barrier to these referrals (Figure 1a). Regional factors such as economic characteristics, pediatric population, and distance from the clinic do not appear to affect referral rate. Regression shows regions with higher median income (Figure 1b) and with larger populations of households with children <age 18 (Figure 1c) correlate with greater referrals/PCP. Distance, income, and population did not deter referrals. Other factors, such as quality of care, ease of making appointments, and short wait times may be more likely to influence referral decisions. We conclude that demand for immediate subspecialty care supersedes geographic, population, or economic factors (Figure 1), family demands are paramount to PCP referral patterns, and routine 'in office' subspecialty care by the PCP may be limited by resources or interest.

The demand for subspecialty evaluation in place of, or to complement, PCP evaluation is not unique (Anderson et al., 2007; Martin et al., 2009; Hsu et al., 2012). For the Access Clinic, the involvement of local referring PCPs and subspecialists in the planning stages has been critical to aligning service delivery with demand. In other health care systems, the PCP or generalist nurse may serve as the 'gatekeeper' for subspecialty care (Ramritu et al., 2002; Wilkie, 2013), with more time or resources to see patients with routine complaints, only referring to subspecialists for more complex patient evaluations. International models using general pediatricians with specialty interest, or 'GPSIs' (Salisbury and Rosen, 2007; Martin et al., 2009), if well-designed, show improved access and increased bi-directional communication. In the United States, health care delivery systems that 'train up' community pediatricians to provide

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subspecialty care in the primary care medical home setting have been proposed (Ray Tsai MD, 2014, personal communication).

Limitations of our study include recall bias (surveys), low response rate, and applicability. PCPs with high referrals are more likely to be affiliated thus more familiar with the Access Clinic, introducing potential favorability bias. Non-affiliated PCPs referred more patients but had a poor response rate. Survey participation was not incentivized (Delnevo et al., 2004), affecting response rate. Access Clinics have not been widely implemented or described nationally, so while applicability may be affected by studying one institution, critical information about evaluation of the model will inform academic centers about novel ways of delivering appropriate subspecialty care.

Pediatric subspecialty shortages continue to plague the effective and timely delivery of health care to children (Pletcher et al., 2010; Ray et al., 2014). Successful solutions demand identification of key drivers of referrals, understanding of PCP attitudes (Twamley et al., 2014), and consensus among referring PCPs. Access Clinics can reinforce the 'genparadigm for eralist-as-specialist' appropriate patients, improve care quality, and connect subspecialty and primary care practices.

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Conflicts of Interest & Financial Disclosure

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